



MIG - MAG

Torches and spare parts

Catalogue

CERTIFICATE

Management system as per

DIN EN ISO 9001:2008

Evidence of conformity with the above standard(s) has been furnished
and is certified in accordance with TÜV PROFICERT procedures for



Holch Schweißbrenner GmbH
Bühlstraße 14
D-57080 Siegen

scope:

Development and production of
inert gas-welding torches and spare parts



Certificate registration No. **73 100 1110-29**

Certificate valid from 2015-04-16 to **2018-04-15**

Audit report No. 4290 7062



O. Malt
Darmstadt, 2015-04-16
Certification body of TÜV Hessen
– Head of Certification body –

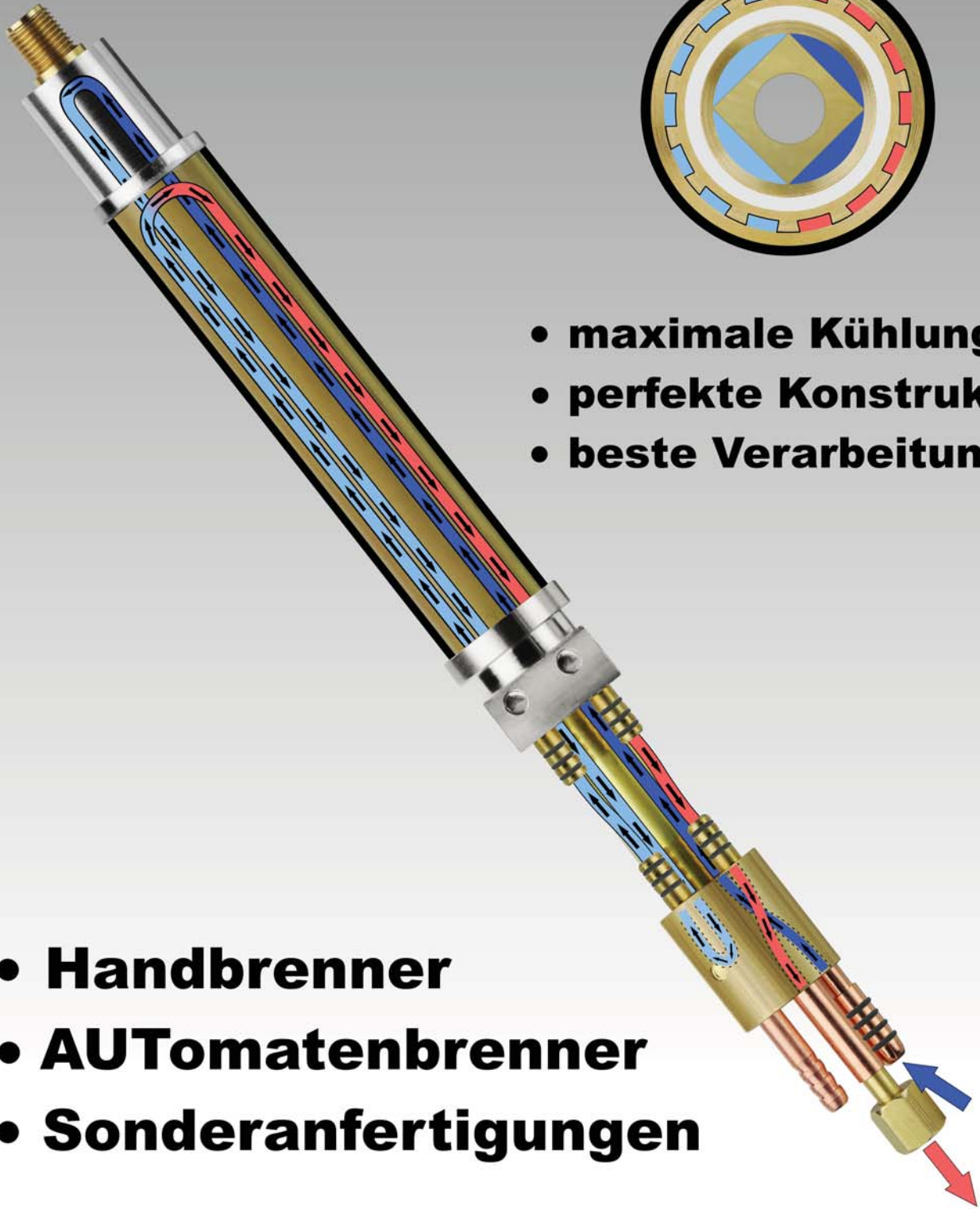
Sonderanfertigungen



auf Anfrage

HSN 805

Kaskadenkühlsystem



- **maximale Kühlung**
- **perfekte Konstruktion**
- **beste Verarbeitung**

- **Handbrenner**
- **AUTomatenbrenner**
- **Sonderanfertigungen**

HSN 818

MIG-MAG Griffschalen

Ratio Griffschale mit Kugelgelenk



In
4 Farben
lieferbar !

Ratio Griffschale ohne Kugelgelenk



Industriegriffschale ohne Kugelgelenk



In
5 Farben
lieferbar !

Industriegriffschale mit Kugelgelenk



AUT - Griffrohr AD38mm (Art.Nr.: 91912921)



Messing vernickelt mit innenliegendem Isolierrohr



AUT-Federaufnahmhülse
(Art.Nr.: 91912711)

AUT - Griffrohr AD44mm (Art.Nr.: 91912923)

passend Brenner mit Kaskadenkühlsystem



Alu blank mit innenliegendem Isolierrohr



AUT-Federaufnahmhülse
(Art.Nr.: 91912711)

HSN 825



Ratio Griffschale mit Kugelgelenk

Bohrung 16mmØ	Bohrung 18mmØ	Bohrung 20mmØ	Bohrung 21mmØ
● 91912534	● 91912535	● 91912536	● 91912537
● 91912834	● 91912835	● 91912836	● 91912837
● 91912734	● 91912735	● 91912736	● 91912737
● 91912634	● 91912635	● 91912636	● 91912637



Ratio Griffschale ohne Kugelgelenk

● 91912434	● 91912435	● 91912436	● 91912437
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Industrie Griffschale mit Kugelgelenk

● 91912101	● 91912102	● 91912103	● 91912104
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Industrie Griffschale ohne Kugelgelenk

● 91912542	● 91912543	● 91912544	● 91912433
● 91912231	● 91912331	● 91912431	● 91912533
● 91912552	● 91912553	● 91912554	



Art.Nr.: 91912704
Federaufnahmehülse
pistolenseitig Kugelgelenk



Art.Nr.: 91912701
Federaufnahmehülse
pistolenseitig Standard



Art.Nr.: 91912501
Knickschutzfeder pist.seit. für
wassergekühlte Brenner



Art.Nr.: 91912503
Knickschutzfeder pist.seit. für
gasgekühlte Brenner



Art.Nr.: 91912502
Knickschutzfeder pist.seit.
für gasgekühlte Brenner
ohne Aufnahmehülse



AUT - Federaufnahmehülse
Art.Nr.: 91912711



AUT - Knickschutzfeder
Art.Nr.: 91912511

Sondergriffschalen

RAUCH Griffschale mit Luftschieber



Art.Nr.: r9193811

Kugelgelenk passend
RAUCH Absaugschlauch



Ø 32mm
Art.Nr. r9193803



Ø 38mm
Art.Nr. r9193804

Pistolengriff mit Hitzeschutz- schild

Art.Nr.: 91912451
Art.Nr.: 91912453



HSN 826-1

MIG-MAG Brennerhalse und Brennerkorper

gasgekuhlt

Art.Nr. 25091001

MHS 25-SPEZIAL

Art.Nr. 32091001

MHS 32

Art.Nr. 15009101

MHS 15

Art.Nr. 35910001

MHS 35-D

Art.Nr. 60091001

wassergekuhlt

MHS KONSUL-600

Art.Nr. 80091001

MHS SENATOR-800-D

Art.Nr. 50191001

MHS 501-18-D

Art.Nr. 50001911

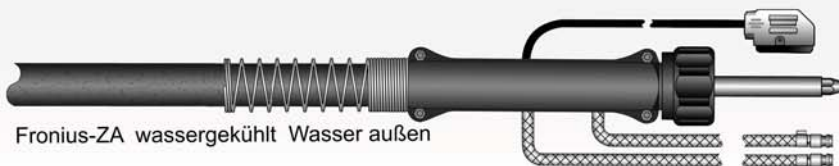
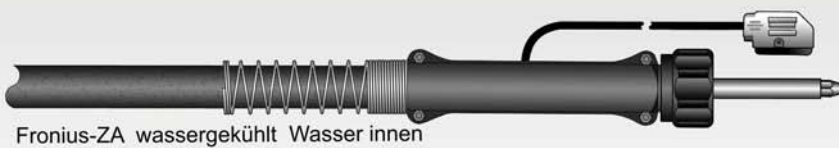
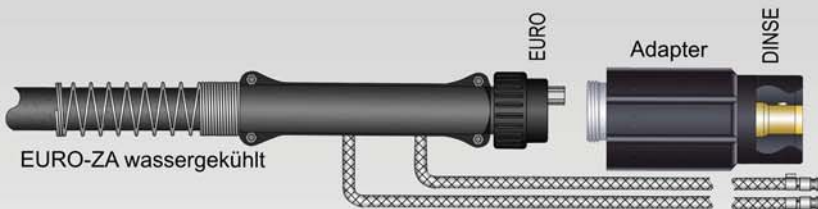
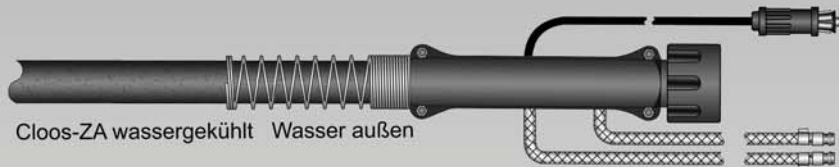
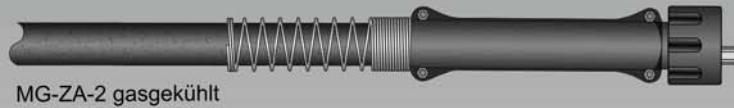
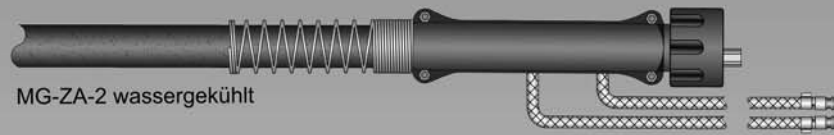
MHS FRX - 5000w

Art.Nr. 22291001

MHS 222-520

HSN 817-1

Holch-Schweißbrenner maschinenseitig verschiedene Anschlüsse



HSN 803

Component-drawings with spare parts
Welding torches MIG-MAG gas-cooled

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Welding torches MIG-MAG water-cooled

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**Deliveries are made in compliance with our terms
and conditions on next page only.
Subject to alteration!**

General terms and conditions of sale

1. These general terms and conditions apply to all our present and future business relations. Purchasers' standard terms and conditions at variance with them apply only if we have expressly assented to them in writing.
2. Our tenders are without engagement. The contract is formed only by our written acceptance of the Purchaser's order.
3. Our prices are in Euro without tax, customs duty, shipment, packing, insurance, etc. Prices only apply for the particular order.
4. Delivery is made ex-works (place of fulfilment) by the mode of shipment most favourable for us. Additional costs for a mode of shipment stipulated by the Purchaser are borne by the Purchaser. Goods are always shipped at the risk (loss, deterioration, delay) of the Purchaser.
5. Our scheduled delivery dates are without engagement. Compensation claims for delayed deliveries cannot be accepted. For production oriented reasons we reserve the right to deliver up to 10% more or less of the contracted quantity.
6. We must be notified in writing about any deficiency in writing immediately, at latest ten days after acceptance of the delivery. If the goods are defective, we can choose whether to make the good the discharge of our obligations by rectifying the defect (remediation) or by supplying defect-free goods (replacement) or by refunding the purchasing price and taking back the defective good. Equipment repaired by us has to be checked for correct function immediately upon reception. We repair defective goods at no charge in our shop. Additional used consumables are charged to the Purchaser. Further claims are excluded. We explicitly are not liable for property loss or economic loss of the Purchaser or their customers.
7. The purchase price is due 10 days after invoicing (discount of 2 percent deductible) or 30 days of invoicing net. Cash discount will only be granted if there are no arrears from previous invoices.
8. Until all our present and future outstanding accounts have been paid in full we reserve ownership of the goods. The Purchaser may process and / or sell the goods in the course of orderly business. The Purchaser assigns to us now by way of security all trade debts arising from reselling the goods in total or to the extent of our ownership share. After all our present and future outstanding accounts have been paid in full the Purchaser gains ownership of the goods. Place of fulfilment and exclusive court of jurisdiction for any legal disputes is Siegen, Germany. The laws of the Federal Republic of Germany apply to the exclusion of all international and supranational regulations governing (contract) law.
9. In case of any dispute regarding the above terms and conditions or its translation, the German language version in its original edition has higher priority than any other translated versions. We will sent the Purchaser a copy of our German language version at any time upon request.

Torch MHS 15 gas-cooled

The factory standard gear (plugged gas nozzle) is marked in red.



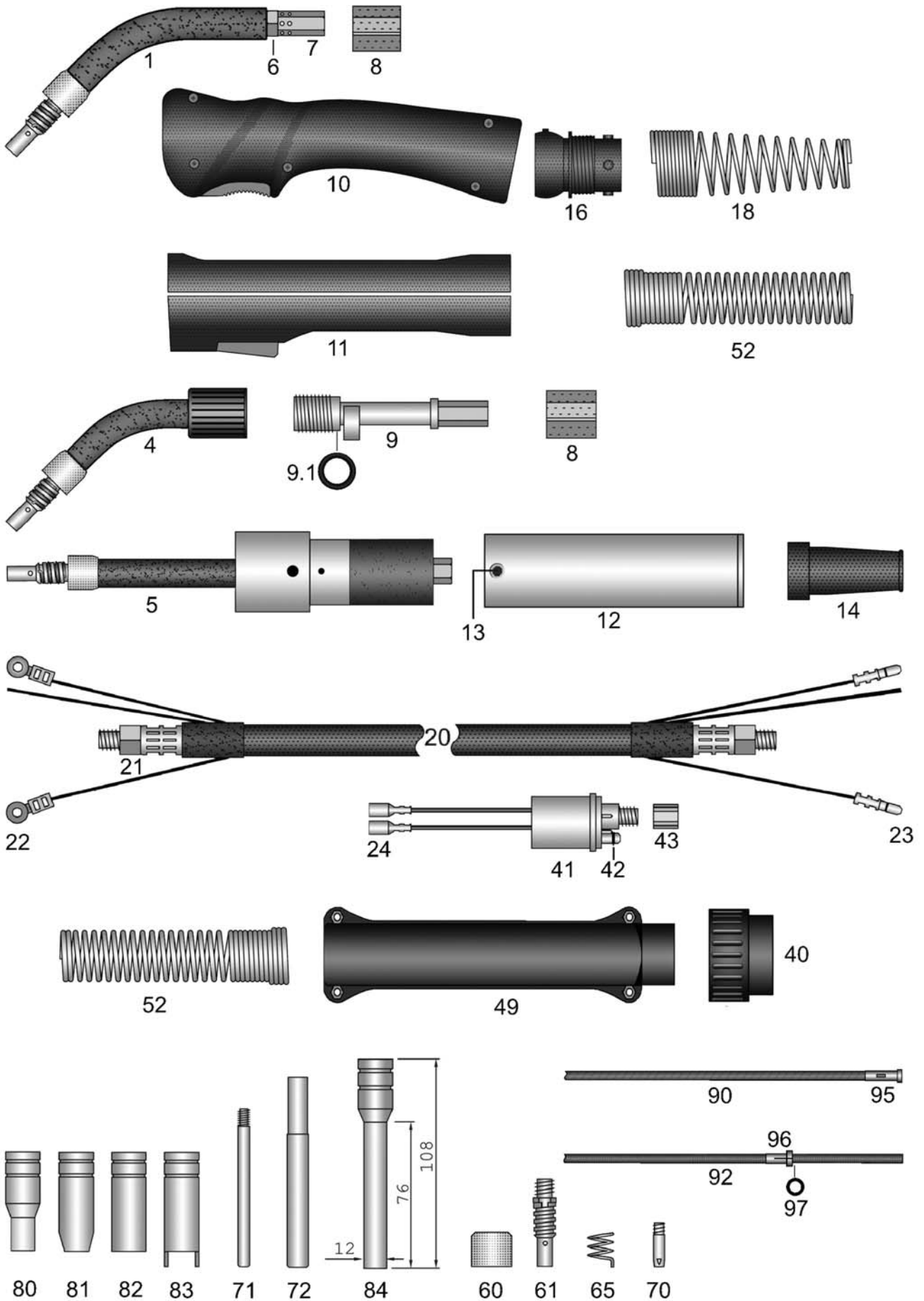
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MHS 15 gas-cooled

180 Ampere at 60% duty cycle (CO₂) - 150 Ampere at 60% duty cycle (mixed gas)



HSN 115

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)

Art.-No.	
15500311	Torch MHS 15 / 3m EURO central adapter 16mm ² plugged
15500411	Torch MHS 15 / 4m EURO central adapter 16mm ² plugged
15500511	Torch MHS 15 / 5m EURO central adapter 16mm ² plugged
15000311	Torch MHS 15-SPEZIAL / 3m EURO central adapter 25mm ² plugged
15000411	Torch MHS 15-SPEZIAL / 4m EURO central adapter 25mm ² plugged
15000511	Torch MHS 15-SPEZIAL / 5m EURO central adapter 25mm ² plugged
15100311	DR Torch MHS 15-SPEZIAL / 3m EURO central adapter 25mm ² plugged
15100411	DR Torch MHS 15-SPEZIAL / 4m EURO central adapter 25mm ² plugged
15100511	DR Torch MHS 15-SPEZIAL / 5m EURO central adapter 25mm ² plugged
15005311	AUTomatic-torch MHS 15-SPEZIAL / 3m EURO central adapter 25mm ² plugged
15105311	DR AUTomatic-torch MHS 15-SPEZIAL / 3m EURO central adapter 25mm ² plugged
15500313	Torch MHS 15 / 3m EURO central adapter 16mm ² screwable M10
15500413	Torch MHS 15 / 4m EURO central adapter 16mm ² screwable M10
15500513	Torch MHS 15 / 5m EURO central adapter 16mm ² screwable M10
15000313	Torch MHS 15-SPEZIAL / 3m EURO central adapter 25mm ² screwable M10
15000413	Torch MHS 15-SPEZIAL / 4m EURO central adapter 25mm ² screwable M10
15000513	Torch MHS 15-SPEZIAL / 5m EURO central adapter 25mm ² screwable M10
15100313	DR Torch MHS 15-SPEZIAL / 3m EURO central adapter 25mm ² screwable M10
15100413	DR Torch MHS 15-SPEZIAL / 4m EURO central adapter 25mm ² screwable M10
15100513	DR Torch MHS 15-SPEZIAL / 5m EURO central adapter 25mm ² screwable M10
15005312	AUTomatic-torch MHS 15-SPEZIAL / 3m EURO central adapter 25mm ² screwable M10
15105312	DR AUTomatic-torch MHS 15-SPEZIAL / 3m EURO central adapter 25mm ² screwable M10
<p>For torches without EURO central-adapter the following prices apply. Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.</p>	
15500301	Torch MHS 15 / 3m 16mm ² plugged
15500401	Torch MHS 15 / 4m 16mm ² plugged
15500501	Torch MHS 15 / 5m 16mm ² plugged
15000301	Torch MHS 15-SPEZIAL / 3m 25mm ² plugged
15000401	Torch MHS 15-SPEZIAL / 4m 25mm ² plugged
15000501	Torch MHS 15-SPEZIAL / 5m 25mm ² plugged
15100301	DR Torch MHS 15-SPEZIAL / 3m 25mm ² plugged
15100401	DR Torch MHS 15-SPEZIAL / 4m 25mm ² plugged
15100501	DR Torch MHS 15-SPEZIAL / 5m 25mm ² plugged
15005301	AUTomatic-torch MHS 15-SPEZIAL / 3m 25mm ² plugged
15105301	DR AUTomatic-torch MHS 15-SPEZIAL / 3m 25mm ² plugged
15500302	Torch MHS 15 / 3m 16mm ² screwable M10
15500402	Torch MHS 15 / 4m 16mm ² screwable M10

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)

Art.-No.		
	15500502	Torch MHS 15 / 5m 16mm ² screwable M10
	15000302	Torch MHS 15-SPEZIAL / 3m 25mm ² screwable M10
	15000402	Torch MHS 15-SPEZIAL / 4m 25mm ² screwable M10
	15000502	Torch MHS 15-SPEZIAL / 5m 25mm ² screwable M10
	15100302	DR Torch MHS 15-SPEZIAL / 3m 25mm ² screwable M10
	15100402	DR Torch MHS 15-SPEZIAL / 4m 25mm ² screwable M10
	15100502	DR Torch MHS 15-SPEZIAL / 5m 25mm ² screwable M10
	15005302	AUTomatic-torch MHS 15-SPEZIAL / 3m 25mm ² screwable M10
	15105302	DR AUTomatic-torch MHS 15-SPEZIAL / 3m 25mm ² screwable M10
Special lengths for hand- and AUTomatic-torches please notice appendix "B".		
	pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i.	91912453	Heat protection shield for pistol handle, screws included
	29004602	Surcharge: Torch body with custom bending
All torch bodies and AUTomatic torch bodies with rubber insulation, very massive power conduit, complete with contact tip holder and teflon insulator.		
1	15009101	Swan neck 15 plugged
4	15109101	DR Swan neck MHS 15 plugged
5	15009151	AUTomatic-torch body 15 plugged
N.i.	15009103	Swan neck 15 screwable M10
N.i.	15109102	DR Swan neck MHS 15 screwable M10
N.i.	15009153	AUTomatic-torch body 15 screwable M10
6	15912201	Lock-nut M10x1-L6mm for Swan neck
7	15912401	Torch body brass SW12-L26mm
8	15912301	Polyamid-torch body
9	15912602	DR Torch body brass for ratio-handle
9	15912601	DR Torch body brass for industry-handle
N.i.	15912651	Auxiliary torch body for coaxial cable
9.1	91903604	O-ring ID19-W2,4mm
Handles, complete with switch, screws and ball joint! Handles with hole-20mm are for swivel neck torches (DR torches).		
10	91912534	Ratio-handle 16mm ball joint
10	91912536	Ratio-handle 20mm ball joint
10	91912434	Ratio-handle 16mm standard
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912101	Industry-handle 16mm ball joint
11	91912103	Industry-handle 20mm ball joint
11	91912231	Industry-handle 16mm standard
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)

Art.-No.		
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	15912801	Rubber cable-support small for coaxial-cable
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	14920311	Coaxial-cable 16mm ² / 3m fits EURO central adapter
20	14920411	Coaxial-cable 16mm ² / 4m fits EURO central adapter
20	14920511	Coaxial-cable 16 mm ² / 5m fits EURO central adapter
20	15920311	Coaxial-cable 25mm ² / 3m fits EURO central adapter
20	15920411	Coaxial-cable 25mm ² / 4m fits EURO central adapter
20	15920511	Coaxial-cable 25mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
60	15291201	Teflon protection sleeve ID16mm
61	15298001	Gas nozzle/contact tip holder complete with nozzle spring
N.i.	15398001	Gas nozzle/contact tip holder screwable M10
65	15912901	Nozzle spring for gas nozzle
70	62508001	Contact tip M6-L25-AD6 0,8
70	62510001	Contact tip M6-L25-AD6 1,0
70	62508301	Contact tip M6-L25-AD6 0,8 nickel-plated
70	62510301	Contact tip M6-L25-AD6 1,0 nickel-plated
70	62508a01	Contact tip M6-L25-D6 0,8-A for aluminium wire
71	68310101	Narrow-gap contact tip M6-L83-AD6 0,8-1,0 nickel-plated
72	91921801	Centering wrench for Narrow-gap contact tip M6-L83-D6
80	15930341	Narrow-gap gas nozzle with cylinder ID10-L21mm plugged
80	15931341	Narrow-gap gas nozzle with cylinder ID10-L21mm screwable M10

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)

Art.-No.		
81	15930001	Gas nozzle conical-ID12mm long insulation plugged
81	15931001	Gas nozzle conical-ID12mm long insulation screwable M10
82	15930301	Gas nozzle cylindric-ID16mm long insulation plugged
82	15931301	Gas nozzle cylindric-ID16mm long insulation screwable M10
83	15930501	Spotweld gas nozzle plugged
83	15931501	Spotweld gas nozzle screwable M10
84	15930351	Narrow-gap gas nozzle with cylinder ID10-L76mm plugged
84	15931351	Narrow-gap gas nozzle with cylinder ID10-L76mm screwable M10
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 15-SUPER gas-cooled

The factory standard gear (plugged gas nozzle) is marked in red.



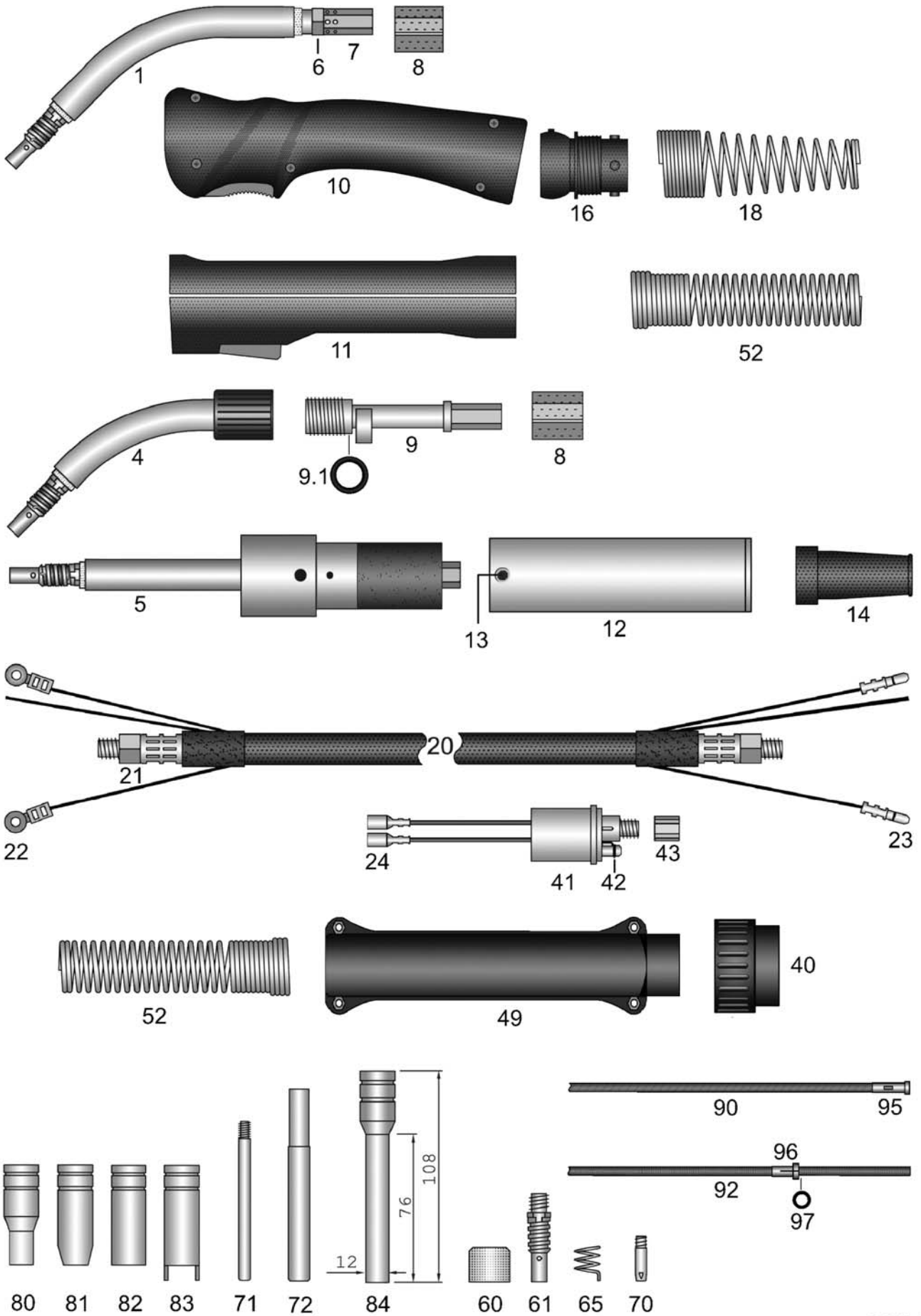
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MHS 15-SUPER gas-cooled

180 Ampere at 60% duty cycle (CO₂) - 150 Ampere at 60% duty cycle (mixed gas)



HSN 117

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)

Art.-No.	
15200311	Torch MHS 15-SUPER / 3m EURO central adapter 25mm ² plugged
15200411	Torch MHS 15-SUPER / 4m EURO central adapter 25mm ² plugged
15200511	Torch MHS 15-SUPER / 5m EURO central adapter 25mm ² plugged
15210311	DR Torch MHS 15-SUPER / 3m EURO central adapter 25mm ² plugged
15210411	DR Torch MHS 15-SUPER / 4m EURO central adapter 25mm ² plugged
15210511	DR Torch MHS 15-SUPER / 5m EURO central adapter 25mm ² plugged
15205311	AUTomatic-torch MHS 15-SUPER / 3m EURO central adapter 25mm ² plugged
15215311	DR AUTomatic-torch MHS 15-SUPER / 3m EURO central adapter 25mm ² plugged
15200313	Torch MHS 15-SUPER / 3m EURO central adapter 25mm ² screwable M10
15200413	Torch MHS 15-SUPER / 4m EURO central adapter 25mm ² screwable M10
15200513	Torch MHS 15-SUPER / 5m EURO central adapter 25mm ² screwable M10
15210313	DR Torch MHS 15-SUPER / 3m EURO central adapter 25mm ² screwable M10
15210413	DR Torch MHS 15-SUPER / 4m EURO central adapter 25mm ² screwable M10
15210513	DR Torch MHS 15-SUPER / 5m EURO central adapter 25mm ² screwable M10
15205312	AUTomatic-torch MHS 15-SUPER / 3m EURO central adapter 25mm ² screwable M10
15215312	DR AUTomatic-torch MHS 15-SUPER / 3m EURO central adapter 25mm ² screwable
For torches without EURO central-adaptor the following prices apply. Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.	
15200301	Torch MHS 15-SUPER / 3m 25mm ² plugged
15200401	Torch MHS 15-SUPER / 4m 25mm ² plugged
15200501	Torch MHS 15-SUPER / 5m 25mm ² plugged
15210301	DR Torch MHS 15-SUPER / 3m 25mm ² plugged
15210401	DR Torch MHS 15-SUPER / 4m 25mm ² plugged
15210501	DR Torch MHS 15-SUPER / 5m 25mm ² plugged
15205301	AUTomatic-torch MHS 15-SUPER / 3m 25mm ² plugged
15215301	DR AUTomatic-torch MHS 15-SUPER / 3m 25mm ² plugged
15200302	Torch MHS 15-SUPER / 3m 25mm ² screwable M10
15200402	Torch MHS 15-SUPER / 4m 25mm ² screwable M10
15200502	Torch MHS 15-SUPER / 5m 25mm ² screwable M10
15210302	DR Torch MHS 15-SUPER / 3m 25mm ² screwable M10
15210402	DR Torch MHS 15-SUPER / 4m 25mm ² screwable M10
15210502	DR Torch MHS 15-SUPER / 5m 25mm ² screwable M10
15205302	AUTomatic-torch MHS 15-SUPER / 3m 25mm ² screwable M10
15215302	DR AUTomatic-torch MHS 15-SUPER / 3m 25mm ² screwable M10
Special lengths for hand- and AUTomatic-torches please notice appendix "B".	
pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i.	91912453 Heat protection shield for pistol handle, screws included

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)

Art.-No.		
29004602	Surcharge: Torch body with custom bending	
All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube, very massive power conduit, complete with contact tip holder and teflon insulator.		
1	15209101	Swan neck 15-SUPER plugged
4	15219101	DR Swan neck MHS 15-SUPER plugged
5	15209151	AUTomatic-torch body 15-SUPER plugged
	15209102	Swan neck 15-SUPER screwable M10
	15219102	DR Swan neck MHS 15-SUPER screwable M10
	15209153	AUTomatic-torch body 15-SUPER screwable M10
6	15912201	Lock-nut M10x1-L6mm for Swan neck
7	15912401	Torch body brass SW12-L26mm
8	15912301	Polyamid-torch body
9	15912602	DR Torch body brass for ratio-handle
9	15912601	DR Torch body brass for industry-handle
N.i.	15912651	Auxiliary torch body for coaxial cable
9.1	91903604	O-ring ID19-W2,4mm
Handles, complete with switch, screws and ball joint! Handles with hole-20mm are for swivel neck torches (DR torches).		
10	91912534	Ratio-handle 16mm ball joint
10	91912536	Ratio-handle 20mm ball joint
10	91912434	Ratio-handle 16mm standard
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912101	Industry-handle 16mm ball joint
11	91912103	Industry-handle 20mm ball joint
11	91912231	Industry-handle 16mm standard
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	15912801	Rubber cable-support small for coaxial-cable
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	15920311	Coaxial-cable 25mm ² / 3m fits EURO central adapter
20	15920411	Coaxial-cable 25mm ² / 4m fits EURO central adapter
20	15920511	Coaxial-cable 25mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)

Art.-No.		
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
60	15291201	Teflon protection sleeve ID16mm
61	15298001	Gas nozzle/contact tip holder complete with nozzle spring
N.i.	15398001	Gas nozzle/contact tip holder screwable M10
65	15912901	Nozzle spring for gas nozzle
70	62508001	Contact tip M6-L25-AD6 0,8
70	62510001	Contact tip M6-L25-AD6 1,0
70	62508301	Contact tip M6-L25-AD6 0,8 nickel-plated
70	62510301	Contact tip M6-L25-AD6 1,0 nickel-plated
70	62508a01	Contact tip M6-L25-D6 0,8-A for aluminium wire
71	68310101	Narrow-gap contact tip M6-L83-AD6 0,8-1,0 nickel-plated
72	91921801	Centering wrench for Narrow-gap contact tip M6-L83-D6
80	15930341	Narrow-gap gas nozzle with cylinder ID10-L21mm plugged
80	15931341	Narrow-gap gas nozzle with cylinder ID10-L21mm screwable M10
81	15930001	Gas nozzle conical-ID12mm long insulation plugged
81	15931001	Gas nozzle conical-ID12mm long insulation screwable M10
82	15930301	Gas nozzle cylindric-ID16mm long insulation plugged
82	15931301	Gas nozzle cylindric-ID16mm long insulation screwable M10
83	15930501	Spotweld gas nozzle plugged
83	15931501	Spotweld gas nozzle screwable M10
84	15930351	Narrow-gap gas nozzle with cylinder ID10-L76mm plugged
84	15931351	Narrow-gap gas nozzle with cylinder ID10-L76mm screwable M10
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter

Welding-torch MIG-MAG gas-cooled**180A at 60% duty cycle (CO2) - 150A at 60% duty cycle (mixed gas)**

Art.-No.		
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 15-CLOU gas-cooled

The factory standard gear is marked in red.



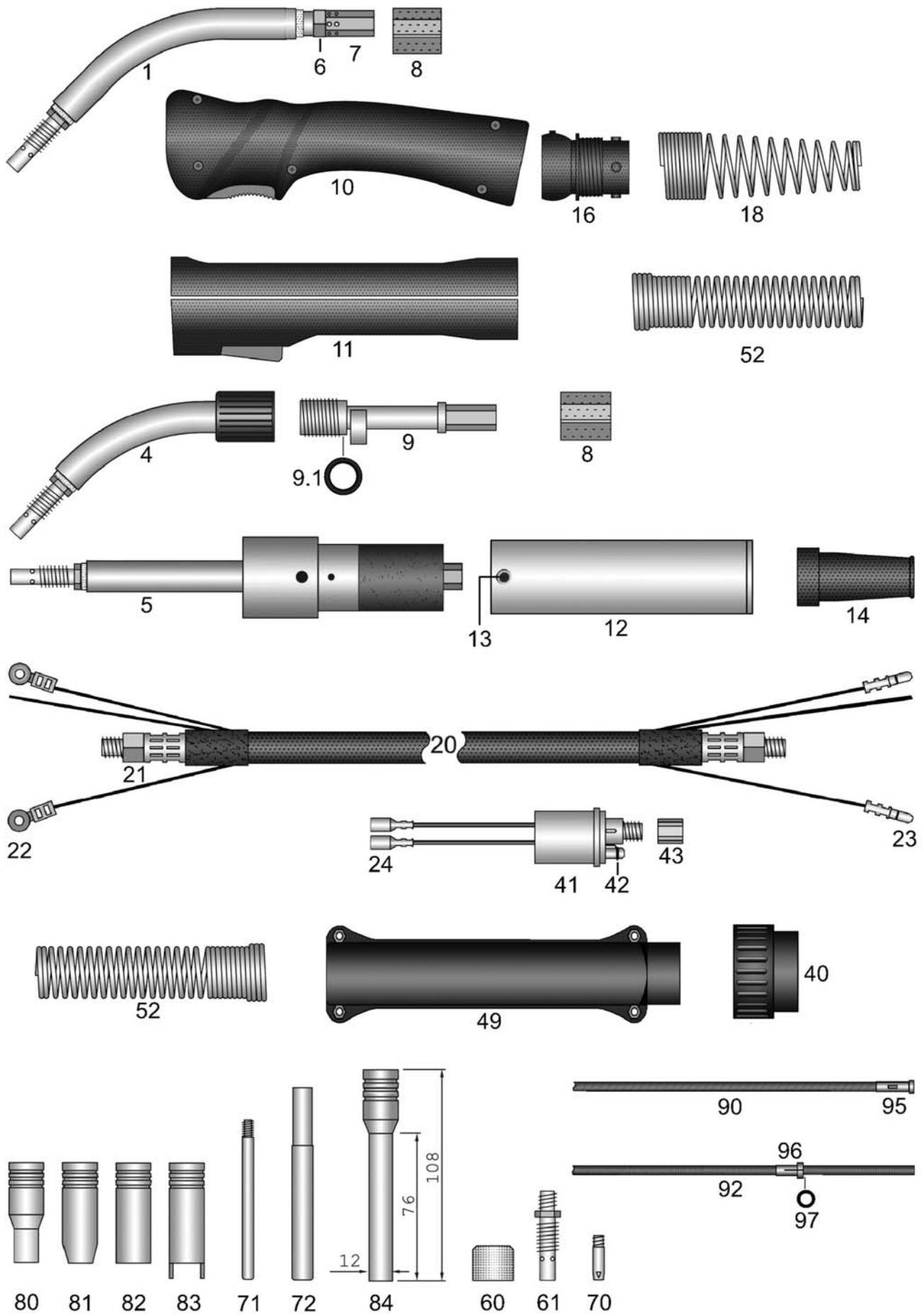
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MHS 15-CLOU gas-cooled

180 Ampere at 60% duty cycle (CO₂) - 150 Ampere at 60% duty cycle (mixed gas)



HSN 116

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)**Art.-No.****Spare parts as torch MHS Mini 316 water-cooled**

16000311	Torch MHS 15-CLOU / 3m EURO central adapter 25mm ² screwable M11
16000411	Torch MHS 15-CLOU / 4m EURO central adapter 25mm ² screwable M11
16000511	Torch MHS 15-CLOU / 5m EURO central adapter 25mm ² screwable M11

16010311	DR Torch MHS 15-CLOU / 3m EURO central adapter 25mm ² screwable M11
16010411	DR Torch MHS 15-CLOU / 4m EURO central adapter 25mm ² screwable M11
16010511	DR Torch MHS 15-CLOU / 5m EURO central adapter 25mm ² screwable M11

16005311	AUTomatic-torch MHS 15-CLOU / 3m EURO central adapter 25mm ² screwable M11
16015311	DR AUTomatic-torch MHS 15-CLOU / 3m EURO central adapter 25mm ² screwable M11

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

16000301	Torch MHS 15-CLOU / 3m 25mm ² screwable M11
16000401	Torch MHS 15-CLOU / 4m 25mm ² screwable M11
16000501	Torch MHS 15-CLOU / 5m 25mm ² screwable M11

16010301	DR Torch MHS 15-CLOU / 3m 25mm ² screwable M11
16010401	DR Torch MHS 15-CLOU / 4m 25mm ² screwable M11
16010501	DR Torch MHS 15-CLOU / 5m 25mm ² screwable M11

16005301	AUTomatic-torch MHS 15-CLOU / 3m 25mm ² screwable M11
16015301	DR AUTomatic-torch MHS 15-CLOU / 3m 25mm ² screwable M11

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube, very massive power conduit, complete with contact tip holder and teflon insulator.

1	16009101	Swan neck screwable M11
4	16019101	DR Swan neck MHS 15-CLOU screwable M11
5	16009151	AUTomatic-torch body screwable M11
6	15912201	Lock-nut M10x1-L6mm for Swan neck
7	15912401	Torch body brass SW12-L26mm
8	15912301	Polyamid-torch body
9	15912602	DR Torch body brass for ratio-handle
9	15912601	DR Torch body brass for industry-handle
N.i.	15912651	Auxiliary torch body for coaxial cable
9.1	91903604	O-ring ID19-W2,4mm

**Handles, complete with switch, screws and ball joint!
Handles with hole-20mm are for swivel neck torches (DR torches).**

10	91912534	Ratio-handle 16mm ball joint
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Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO₂) - 150A at 60% duty cycle (mixed gas)

Art.-No.		
10	91912536	Ratio-handle 20mm ball joint
10	91912434	Ratio-handle 16mm standard
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912101	Industry-handle 16mm ball joint
11	91912103	Industry-handle 20mm ball joint
11	91912231	Industry-handle 16mm standard
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	15912801	Rubber cable-support small for coaxial-cable
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	15920311	Coaxial-cable 25mm ² / 3m fits EURO central adapter
20	15920411	Coaxial-cable 25mm ² / 4m fits EURO central adapter
20	15920511	Coaxial-cable 25mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
60	15291201	Teflon protection sleeve ID16mm
61	16098001	Contact-tip/nozzle holder fits screwable gas nozzle-M11
70	62508001	Contact tip M6-L25-AD6 0,8
70	62510001	Contact tip M6-L25-AD6 1,0
70	62508301	Contact tip M6-L25-AD6 0,8 nickel-plated
70	62510301	Contact tip M6-L25-AD6 1,0 nickel-plated
70	62508a01	Contact tip M6-L25-D6 0,8-A for aluminium wire

Welding-torch MIG-MAG gas-cooled

180A at 60% duty cycle (CO2) - 150A at 60% duty cycle (mixed gas)

Art.-No.		
71	68310101	Narrow-gap contact tip M6-L83-AD6 0,8-1,0 nickel-plated
72	91921801	Centering wrench for Narrow-gap contact tip M6-L83-D6
80	16093341	Narrow-gap gas nozzle screwable M11 with cylinder ID10-L21mm
81	16093001	Gas nozzle conical-ID12mm long insulation screwable M11
82	16093301	Gas nozzle cylindric-ID16mm long insulation screwable M11
83	16093501	Spotweld gas nozzle screwable M11
84	16093351	Narrow-gap gas nozzle screwable M11 with cylinder ID10-L76mm
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 24-KD gas-cooled

The factory standard gear is marked in red.



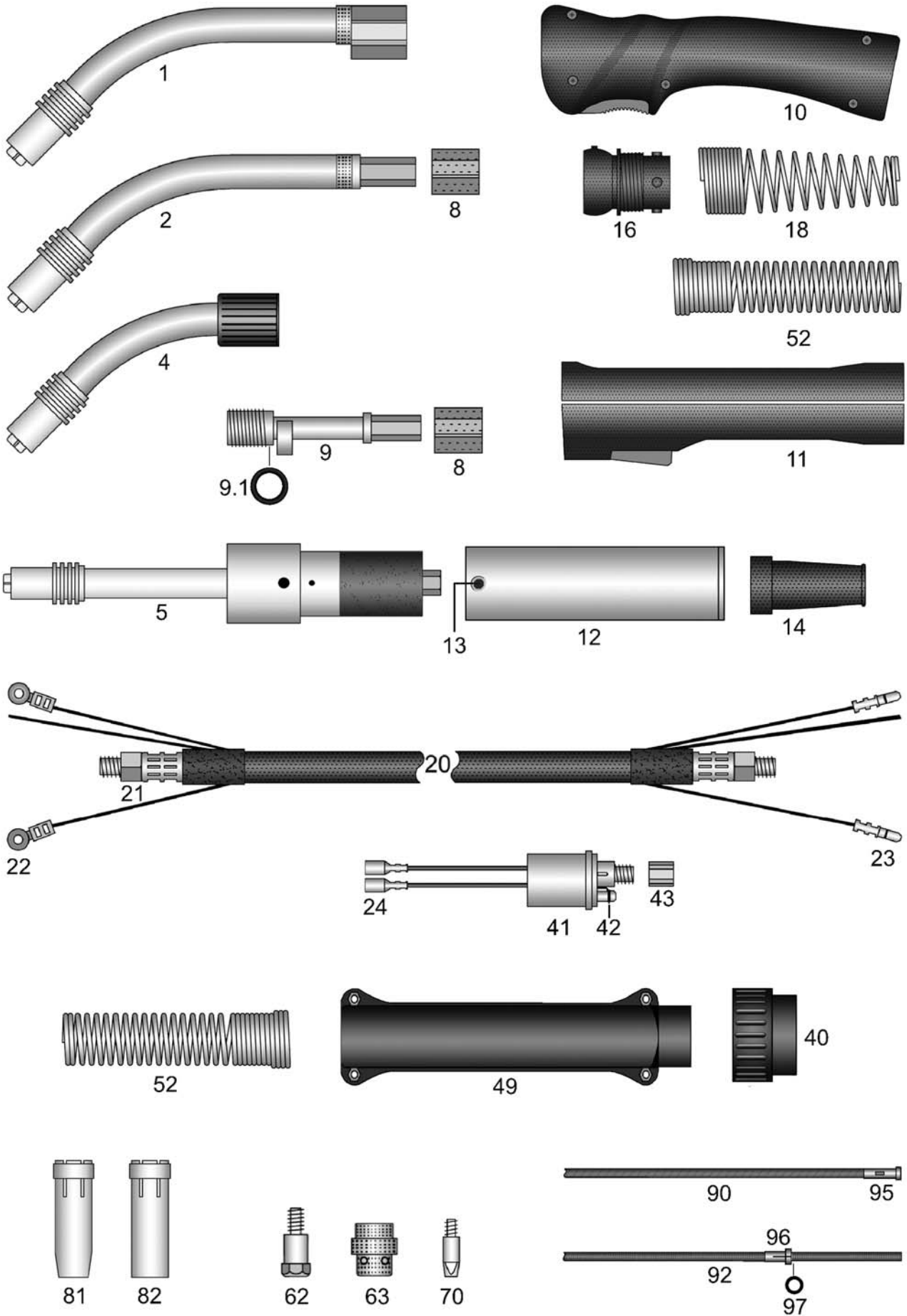
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MHS 24-KD gas-cooled



250 Ampere at 60% duty cycle (CO₂) - 220 Ampere at 60% duty cycle (mixed gas)



HSN 118

Welding-torch MIG-MAG gas-cooled**250A at 60% duty cycle (CO₂) - 220A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 240-18-D water-cooled**24200311 Torch MHS 24-KD-SPEZIAL / 3m EURO central adapter 35mm² inner Torch body with cooling-duct section tube24200411 Torch MHS 24-KD-SPEZIAL / 4m EURO central adapter 35mm² inner Torch body with cooling-duct section tube24200511 Torch MHS 24-KD-SPEZIAL / 5m EURO central adapter 35mm² inner Torch body with cooling-duct section tube24200312 Torch MHS 24-KD / 3m EURO central adapter 35mm²24200412 Torch MHS 24-KD / 4m EURO central adapter 35mm²24200512 Torch MHS 24-KD / 5m EURO central adapter 35mm²24210311 DR Torch MHS 24-KD / 3m EURO central adapter 35mm²24210411 DR Torch MHS 24-KD / 4m EURO central adapter 35mm²24210511 DR Torch MHS 24-KD / 5m EURO central adapter 35mm²24250311 AUTomatic-torch MHS 24-KD-SPEZIAL / 3m EURO central adapter 35mm²24215311 DR AUTomatic-torch MHS-24-KD / 3m EURO central adapter 35mm²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

24200301 Torch MHS 24-KD-SPEZIAL / 3m 35mm² inner Torch body with cooling-duct section tube24200401 Torch MHS 24-KD-SPEZIAL / 4m 35mm² inner Torch body with cooling-duct section tube24200501 Torch MHS 24-KD-SPEZIAL / 5m 35mm² inner Torch body with cooling-duct section tube24200302 Torch MHS 24-KD / 3m 35mm²24200402 Torch MHS 24-KD / 4m 35mm²24200502 Torch MHS 24-KD / 5m 35mm²24210301 DR Torch MHS 24-KD / 3m 35mm²24210401 DR Torch MHS 24-KD / 4m 35mm²24210501 DR Torch MHS 24-KD / 5m 35mm²24250301 AUTomatic-torch MHS 24-KD-SPEZIAL / 3m 35mm²24215301 DR AUTomatic-torch MHS-24-KD / 3m 35mm²**Special lengths for hand- and AUTomatic-torches please notice appendix "B".**

pg000001 Surcharge: Pistol-shape-handle / stabilizer

N.i. 91912453 Heat protection shield for pistol handle, screws included

29004602 Surcharge: Torch body with custom bending

**All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen
outer tube with cooling ribs, complete with contact tip holder and teflon insulator.**

1 24291001 Swan neck 24-KD-SPEZIAL

2 24291002 Swan neck 24-KD

N.i. 30405001 Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire

4 24219101 DR Swan neck MHS 24-KD

5 24291501 AUTomatic-torch body 24-KD-SPEZIAL

Welding-torch MIG-MAG gas-cooled**250A at 60% duty cycle (CO₂) - 220A at 60% duty cycle (mixed gas)**

Art.-No.		
8	15912301	Polyamid-torch body
9	15912602	DR Torch body brass for ratio-handle
9	15912601	DR Torch body brass for industry-handle
N.i.	15912651	Auxiliary torch body for coaxial cable
9.1	91903604	O-ring ID19-W2,4mm
Handles, complete with switch, screws and ball joint! Handles with hole-20mm are for swivel neck torches (DR torches).		
10	91912534	Ratio-handle 16mm ball joint
10	91912536	Ratio-handle 20mm ball joint
10	91912434	Ratio-handle 16mm standard
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912101	Industry-handle 16mm ball joint
11	91912103	Industry-handle 20mm ball joint
11	91912231	Industry-handle 16mm standard
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	15912801	Rubber cable-support small for coaxial-cable
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	25920311	Coaxial-cable 35mm ² / 3m fits EURO central adapter
20	25920411	Coaxial-cable 35mm ² / 4m fits EURO central adapter
20	25920511	Coaxial-cable 35mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO

Welding-torch MIG-MAG gas-cooled**250A at 60% duty cycle (CO₂) - 220A at 60% duty cycle (mixed gas)**

Art.-No.		
62	24980001	Contact tip holder IT-M6 SW10-L26mm
63	24912001	Gas diffusor Keripol white
63	24912004	HT-gasdiffusor black power
63	24912003	Ceramic-gasdiffusor
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62814001	Contact tip M6-L28-AD8 1,4
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62814301	Contact tip M6-L28-AD8 1,4 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
81	24930001	Gas nozzle conical-ID12,5mm
82	24930301	Gas nozzle cylindric-ID17mm
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 25-SPEZIAL gas-cooled

The factory standard gear (plugged gas nozzle) is marked in red.



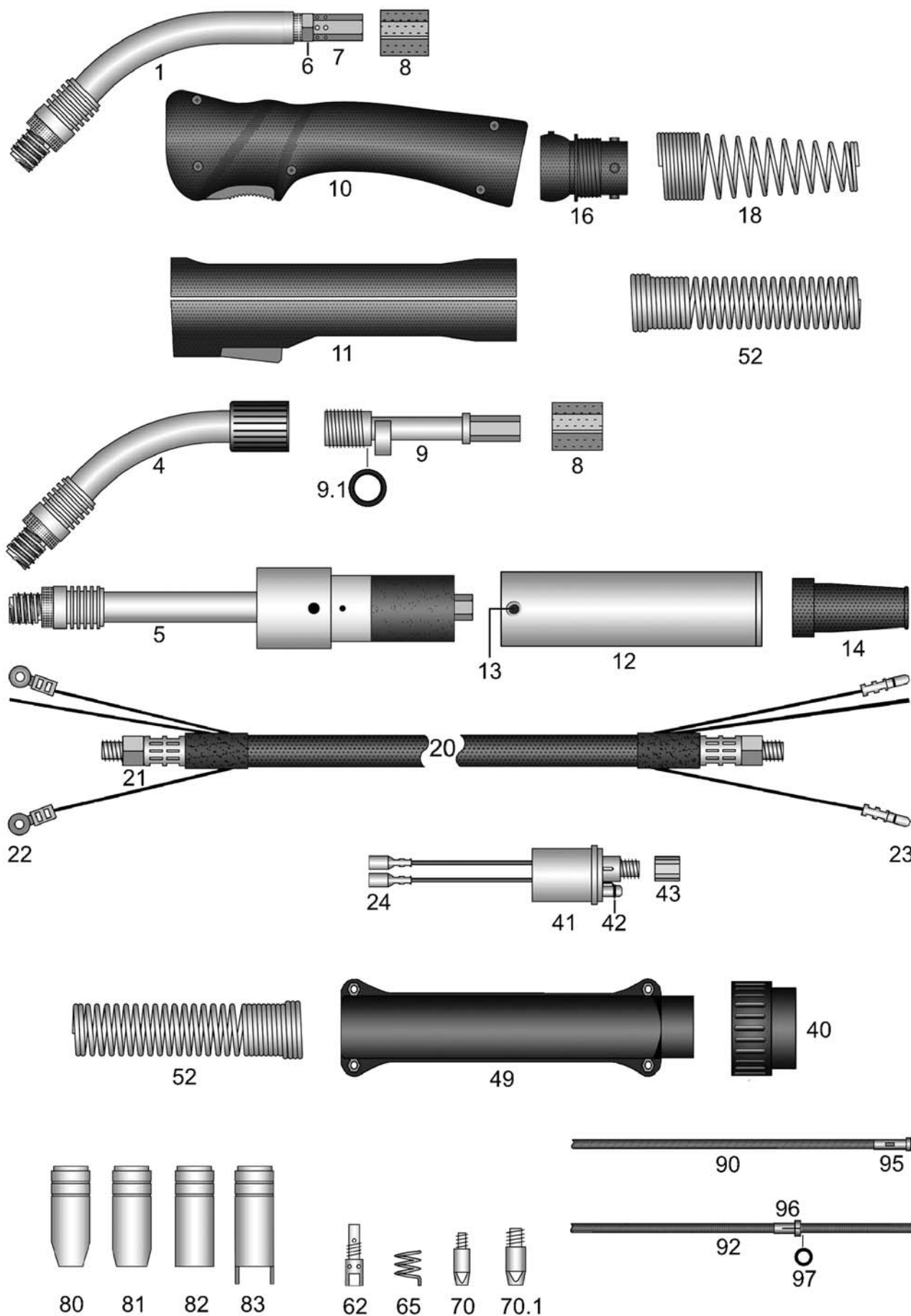
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MHS 25 - SPEZIAL gas-cooled

230 Ampere at 60% duty cycle (CO₂) - 200 Ampere at 60% duty cycle (mixed gas)



HSN 119-1

Welding-torch MIG-MAG gas-cooled

230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)**Art.-No.****Spare parts as torch MHS 352-S water-cooled**

25000311	Torch MHS 25-SPEZIAL / 3m EURO central adapter 25mm ² plugged
25000411	Torch MHS 25-SPEZIAL / 4m EURO central adapter 25mm ² plugged
25000511	Torch MHS 25-SPEZIAL / 5m EURO central adapter 25mm ² plugged
25100311	DR Torch MHS 25-SPEZIAL / 3m EURO central adapter 25mm ² plugged
25100411	DR Torch MHS 25-SPEZIAL / 4m EURO central adapter 25mm ² plugged
25100511	DR Torch MHS 25-SPEZIAL / 5m EURO central adapter 25mm ² plugged
25050311	AUTomatic-torch MHS 25-SPEZIAL / 3m EURO central adapter 25mm ² plugged
25150311	DR AUTomatic-torch MHS 25-SPEZIAL / 3m EURO central adapter 25mm ² plugged
25000313	Torch MHS 25-SPEZIAL / 3m EURO central adapter 25mm ² screwable M14
25000413	Torch MHS 25-SPEZIAL / 4m EURO central adapter 25mm ² screwable M14
25000513	Torch MHS 25-SPEZIAL / 5m EURO central adapter 25mm ² screwable M14
25100313	DR Torch MHS 25-SPEZIAL / 3m EURO central adapter 25mm ² screwable M14
25100413	DR Torch MHS 25-SPEZIAL / 4m EURO central adapter 25mm ² screwable M14
25100513	DR Torch MHS 25-SPEZIAL / 5m EURO central adapter 25mm ² screwable M14
25050312	AUTomatic-torch MHS 25-SPEZIAL / 3m EURO central adapter 25mm ² screwable M14
25150312	DR AUTomatic-torch MHS 25-SPEZIAL / 3m EURO central adapter 25mm ² screwable M14

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

25000301	Torch MHS 25-SPEZIAL / 3m 25mm ² plugged
25000401	Torch MHS 25-SPEZIAL / 4m 25mm ² plugged
25000501	Torch MHS 25-SPEZIAL / 5m 25mm ² plugged
25100301	DR Torch MHS 25-SPEZIAL / 3m 25mm ² plugged
25100401	DR Torch MHS 25-SPEZIAL / 4m 25mm ² plugged
25100501	DR Torch MHS 25-SPEZIAL / 5m 25mm ² plugged
25050301	AUTomatic-torch MHS 25-SPEZIAL / 3m 25mm ² plugged
25150301	DR AUTomatic-torch MHS 25-SPEZIAL / 3m 25mm ² plugged
25000302	Torch MHS 25-SPEZIAL / 3m 25mm ² screwable M14
25000402	Torch MHS 25-SPEZIAL / 4m 25mm ² screwable M14
25000502	Torch MHS 25-SPEZIAL / 5m 25mm ² screwable M14
25100302	DR Torch MHS 25-SPEZIAL / 3m 25mm ² screwable M14
25100402	DR Torch MHS 25-SPEZIAL / 4m 25mm ² screwable M14
25100502	DR Torch MHS 25-SPEZIAL / 5m 25mm ² screwable M14
25050302	AUTomatic-torch MHS 25-SPEZIAL / 3m 25mm ² screwable M14
25150302	DR AUTomatic-torch MHS 25-SPEZIAL / 3m 25mm ² screwable M14

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Welding-torch MIG-MAG gas-cooled

230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)

Art.-No.		
	pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i.	91912453	Heat protection shield for pistol handle, screws included
	29004602	Surcharge: Torch body with custom bending
All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube and very massive power conduit.		
1	25091001	Swan neck plugged
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
4	25191001	DR Swan neck MHS 25 plugged
5	25091501	AUTomatic-torch body plugged
N.i.	25091004	Swan neck screwable M14
N.i.	25191002	DR Swan neck MHS 25 screwable M14
N.i.	25091502	AUTomatic-torch body screwable M14
6	15912201	Lock-nut M10x1-L6mm for Swan neck
7	15912401	Torch body brass SW12-L26mm
8	15912301	Polyamid-torch body
9	15912602	DR Torch body brass for ratio-handle
9	15912601	DR Torch body brass for industry-handle
N.i.	15912651	Auxiliary torch body for coaxial cable
9.1	91903604	O-ring ID19-W2,4mm
Handles, complete with switch, screws and ball joint! Handles with hole-20mm are for swivel neck torches (DR torches).		
10	91912534	Ratio-handle 16mm ball joint
10	91912536	Ratio-handle 20mm ball joint
10	91912434	Ratio-handle 16mm standard
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912101	Industry-handle 16mm ball joint
11	91912103	Industry-handle 20mm ball joint
11	91912231	Industry-handle 16mm standard
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	15912801	Rubber cable-support small for coaxial-cable
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	15920311	Coaxial-cable 25mm ² / 3m fits EURO central adapter
20	15920411	Coaxial-cable 25mm ² / 4m fits EURO central adapter
20	15920511	Coaxial-cable 25mm ² / 5m fits EURO central adapter

Welding-torch MIG-MAG gas-cooled

230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)

Art.-No.		
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
62	25980001	Contact tip holder IT-M6-D10-L35mm
62	25981001	Contact tip holder IT-M8-SW10-L35mm
65	25912001	Nozzle spring for gas nozzle
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
70.1	83008001	Contact tip M8-L30-AD10 0,8
70.1	83010001	Contact tip M8-L30-AD10 1,0
70.1	83012001	Contact tip M8-L30-AD10 1,2
70.1	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70.1	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70.1	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70.1	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70.1	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70.1	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70.1	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70.1	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
80	25930001	Gas nozzle conical-ID12mm plugged
80	25931001	Gas nozzle conical-ID12mm screwable M14

Welding-torch MIG-MAG gas-cooled

230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)

Art.-No.		
81	25930101	Gas nozzle conical-ID15mm plugged
81	25930102	Gas nozzle conical-ID15mm with insulating plugged
81	25931101	Gas nozzle conical-ID15mm screwable M14
81	25931102	Gas nozzle conical-ID15mm with insulating screwable M14
82	25930301	Gas nozzle cylindric-ID18mm plugged
82	25930302	Gas nozzle cylindric-ID18mm with insulating plugged
82	25931301	Gas nozzle cylindric-ID18mm screwable M14
82	25931302	Gas nozzle cylindric-ID18mm with insulating screwable M14
83	25930501	Spotweld gas nozzle plugged
83	25931501	Spotweld gas nozzle screwable M14
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 25-AD-SUPER gas-cooled

The factory standard gear is marked in red.



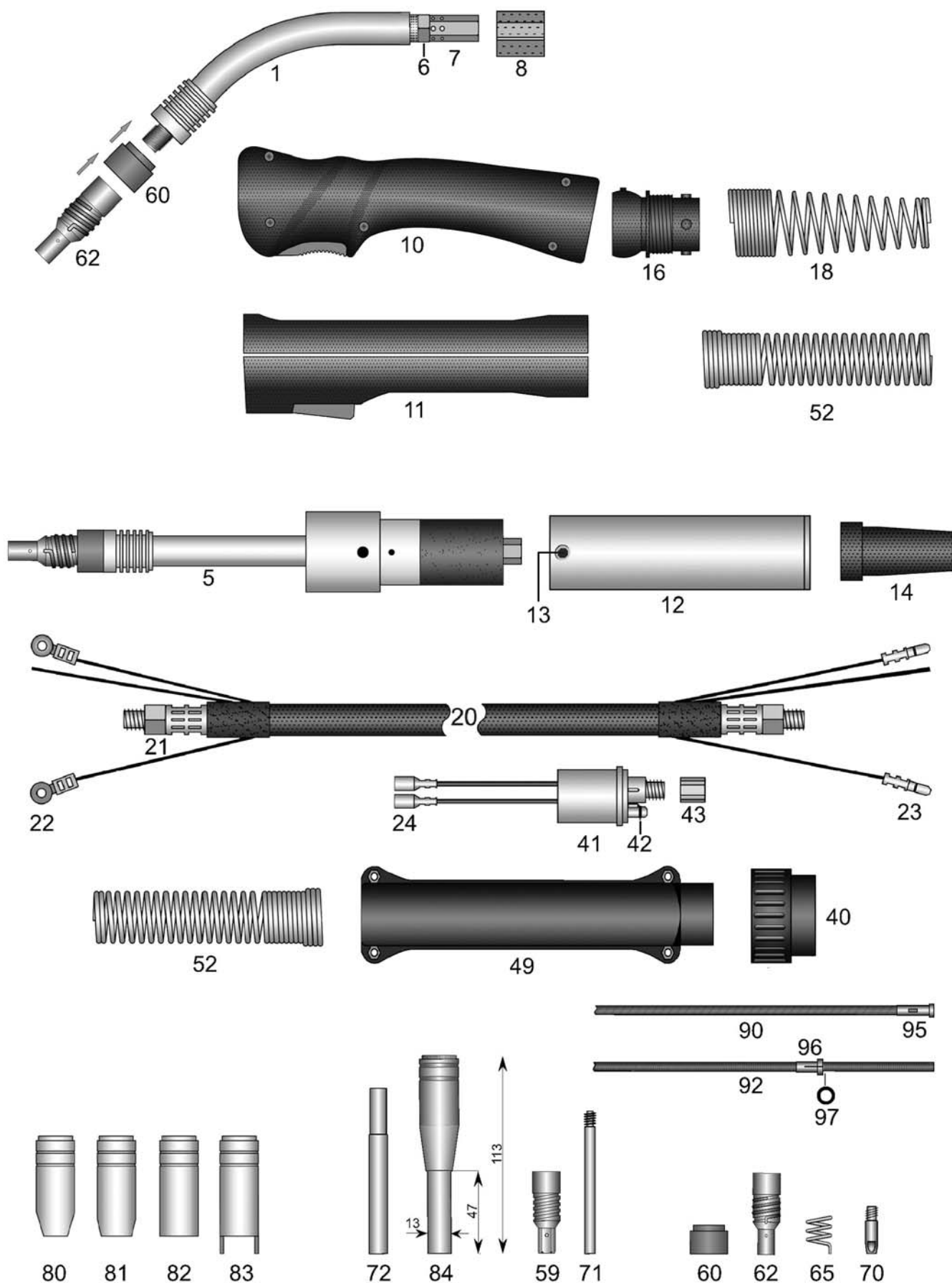
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MHS 25-AD-SUPER gas-cooled

260 Ampere at 60% duty cycle (CO₂) - 230 Ampere at 60% duty cycle (mixed gas)



HSN 119A-1

Welding-torch MIG-MAG gas-cooled**260A at 60% duty cycle (CO₂) - 230A at 60% duty cycle (mixed gas)**

Art.-No.	
25300311	Torch MHS 25-AD-SUPER / 3m EURO central adapter plugged
25300411	Torch MHS 25-AD-SUPER / 4m EURO central adapter plugged
25300511	Torch MHS 25-AD-SUPER / 5m EURO central adapter plugged
25350311	AUTomatic-torch MHS 25-AD-SUPER / 3m EURO central adapter plugged
For torches without EURO central-adaptor the following prices apply. Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.	
25300301	Torch MHS 25-AD-SUPER / 3m plugged
25300401	Torch MHS 25-AD-SUPER / 4m plugged
25300501	Torch MHS 25-AD-SUPER / 5m plugged
25350301	AUTomatic-torch MHS 25-AD-SUPER / 3m plugged
Special lengths for hand- and AUTomatic-torches please notice appendix "B".	
pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
Torch body and AUTomatic torch body with teflon insulation, nickel coated brazen outer tube with cooling ribs, very massive power conduit, complete with changable contact tip holder and laminated fabric tension sleeve.	
1	25391001 Swan neck plugged
N.i. 30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	25391501 AUTomatic-torch body plugged
6	15912201 Lock-nut M10x1-L6mm for Swan neck
7	15912401 Torch body brass SW12-L26mm
8	15912301 Polyamid-torch body
Handles complete with switch, screws and ball joint	
10	91912534 Ratio-handle 16mm ball joint
10	91912434 Ratio-handle 16mm standard
N.i. 91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i. 91912439	Push button red for Ratio handle also fits RAUCH handle
N.i. 91912441	Ratio spring for button
11	91912101 Industry-handle 16mm ball joint
11	91912231 Industry-handle 16mm standard
N.i. 91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i. 91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i. 91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901 AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911 Holding screw M4x6mm for AUT handle tube
14	15912801 Rubber cable-support small for coaxial-cable
16	91912704 Spring socket pistol side ball joint
18	91912503 Cable support spring handle-side for ball joint
20	25920311 Coaxial-cable 35mm ² / 3m fits EURO central adapter
20	25920411 Coaxial-cable 35mm ² / 4m fits EURO central adapter

Welding-torch MIG-MAG gas-cooled

260A at 60% duty cycle (CO₂) - 230A at 60% duty cycle (mixed gas)

Art.-No.		
20	25920511	Coaxial-cable 35mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
59	25398101	Contact-tip/nozzle holder MHS 25-AD-SUPER with acme screw thread for narrow-gap
60	25291201	Laminated fabric-tension-insulator MHS 25-AD-SUPER
62	25398001	Contact-tip/nozzle holder MHS 25-AD-SUPER IT-M12x1
65	25912001	Nozzle spring for gas nozzle
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
71	68310101	Narrow-gap contact tip M6-L83-AD6 0,8-1,0 nickel-plated
71	68312101	Narrow-gap contact tip M6-L83-AD6 1,2 nickel-plated
72	91921801	Centering wrench for Narrow-gap contact tip M6-L83-D6
80	25930001	Gas nozzle conical-ID12mm plugged
81	25930101	Gas nozzle conical-ID15mm plugged
81	25930102	Gas nozzle conical-ID15mm with insulating plugged
82	25930301	Gas nozzle cylindric-ID18mm plugged
82	25930302	Gas nozzle cylindric-ID18mm with insulating plugged
83	25930501	Spotweld gas nozzle plugged
84	25930451	Narrow-gap gas nozzle AD13-L47 with acme screw thread

Spirals and liners also available in other sizes on inquiry!

Welding-torch MIG-MAG gas-cooled**260A at 60% duty cycle (CO2) - 230A at 60% duty cycle (mixed gas)**

Art.-No.		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 32 gas-cooled

The factory standard gear is marked in red.



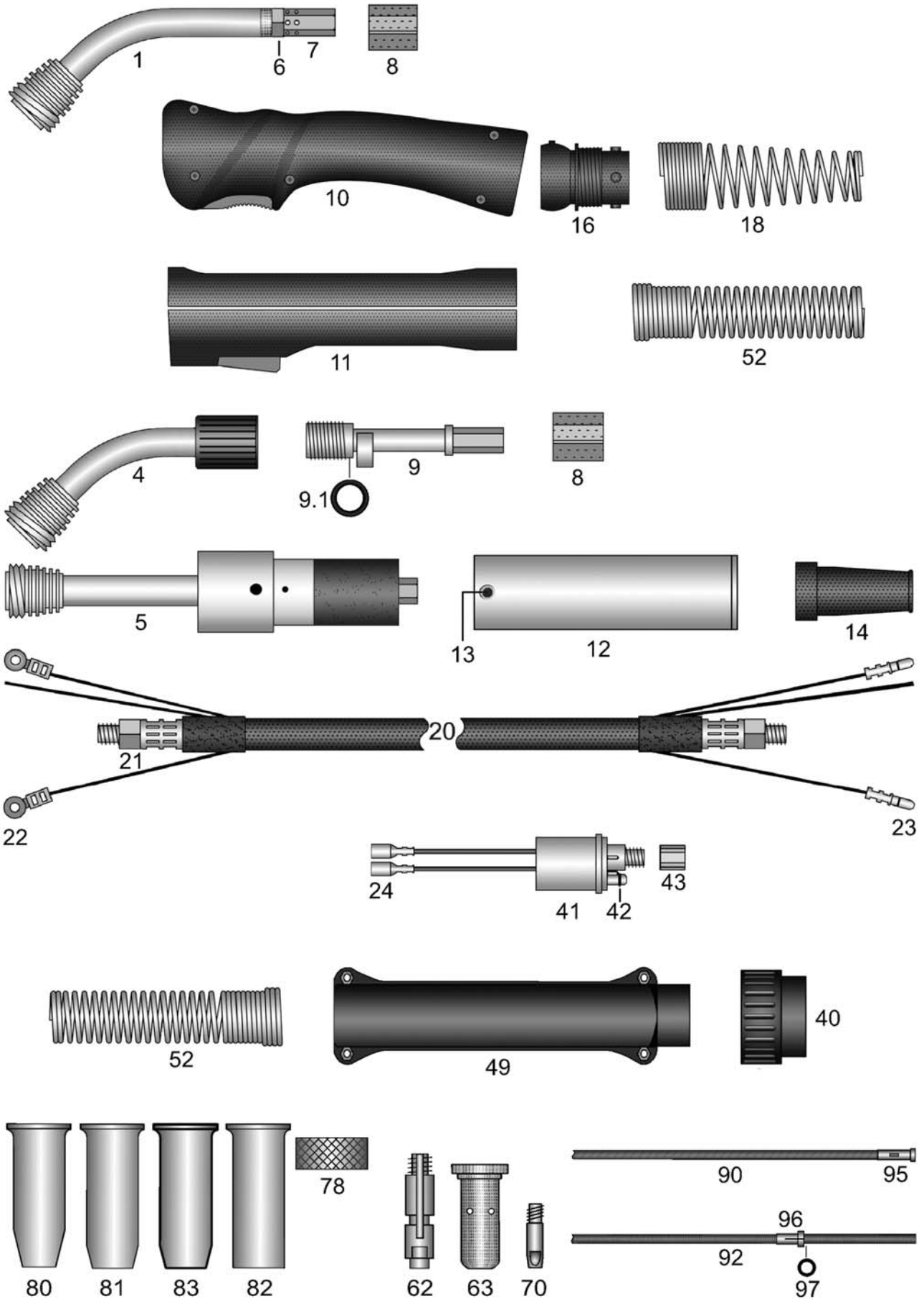
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MHS 32 gas-cooled

280 Ampere at 60% duty cycle (CO₂) - 250 Ampere at 60% duty cycle (mixed gas)



HSN 120

Welding-torch MIG-MAG gas-cooled**280A at 60% duty cycle (CO2) - 250A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 353-R/353-R-SUPER water-cooled**

32000311	Torch MHS 32 / 3m EURO central adapter 35mm ²
32000411	Torch MHS 32 / 4m EURO central adapter 35mm ²
32000511	Torch MHS 32 / 5m EURO central adapter 35mm ²

32100311	DR Torch MHS 32 / 3m EURO central adapter 35mm ²
32100411	DR Torch MHS 32 / 4m EURO central adapter 35mm ²
32100511	DR Torch MHS 32 / 5m EURO central adapter 35mm ²

32050311	AUTomatic-torch MHS 32 / 3m EURO central adapter 35mm ²
32150311	DR AUTomatic-torch MHS 32 / 3m EURO central adapter 35mm ²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

32000301	Torch MHS 32 / 3m 35mm ²
32000401	Torch MHS 32 / 4m 35mm ²
32000501	Torch MHS 32 / 5m 35mm ²

32100301	DR Torch MHS 32 / 3m 35mm ²
32100401	DR Torch MHS 32 / 4m 35mm ²
32100501	DR Torch MHS 32 / 5m 35mm ²

32050301	AUTomatic-torch MHS 32 / 3m 35mm ²
32150301	DR AUTomatic-torch MHS 32 / 3m 35mm ²

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube with cooling ribs, very massive power conduit, complete with contact tip holder.

1	32091001	Swan neck
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
4	32191001	DR Swan neck MHS 32
5	32091501	AUTomatic-torch body
6	15912201	Lock-nut M10x1-L6mm for Swan neck
7	15912401	Torch body brass SW12-L26mm
8	15912301	Polyamid-torch body
9	15912602	DR Torch body brass for ratio-handle
9	15912601	DR Torch body brass for industry-handle
N.i.	15912651	Auxiliary torch body for coaxial cable
9.1	91903604	O-ring ID19-W2,4mm

**Handles, complete with switch, screws and ball joint!
Handles with hole-20mm are for swivel neck torches (DR torches).**

10	91912534	Ratio-handle 16mm ball joint
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Welding-torch MIG-MAG gas-cooled**280A at 60% duty cycle (CO₂) - 250A at 60% duty cycle (mixed gas)**

Art.-No.		
10	91912536	Ratio-handle 20mm ball joint
10	91912434	Ratio-handle 16mm standard
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912101	Industry-handle 16mm ball joint
11	91912103	Industry-handle 20mm ball joint
11	91912231	Industry-handle 16mm standard
11	91912431	Industry-handle 20mm standard
o.A	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	15912801	Rubber cable-support small for coaxial-cable
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	25920311	Coaxial-cable 35mm ² / 3m fits EURO central adapter
20	25920411	Coaxial-cable 35mm ² / 4m fits EURO central adapter
20	25920511	Coaxial-cable 35mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
62	32980001	Contact tip holder IT-M6 with snapping
63	32912001	Gas diffusor-insulating fits contact tip M6-L28-D8
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62814001	Contact tip M6-L28-AD8 1,4
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0

Welding-torch MIG-MAG gas-cooled**280A at 60% duty cycle (CO₂) - 250A at 60% duty cycle (mixed gas)**

Art.-No.		
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62814301	Contact tip M6-L28-AD8 1,4 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
78	32912101	Swivel nut for gas nozzle
N.i.	32912102	Swivel nut for gas nozzle widened fits heavy gass nozzle
80	32930001	Gas nozzle conical-ID12mm
81	32931001	Gas nozzle conical-ID15mm
82	32933001	Gas nozzle cylindric-ID19mm
83	32932001	Gas nozzle conical-ID16mm massy design
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 35-D gas-cooled

The factory standard gear is marked in red.



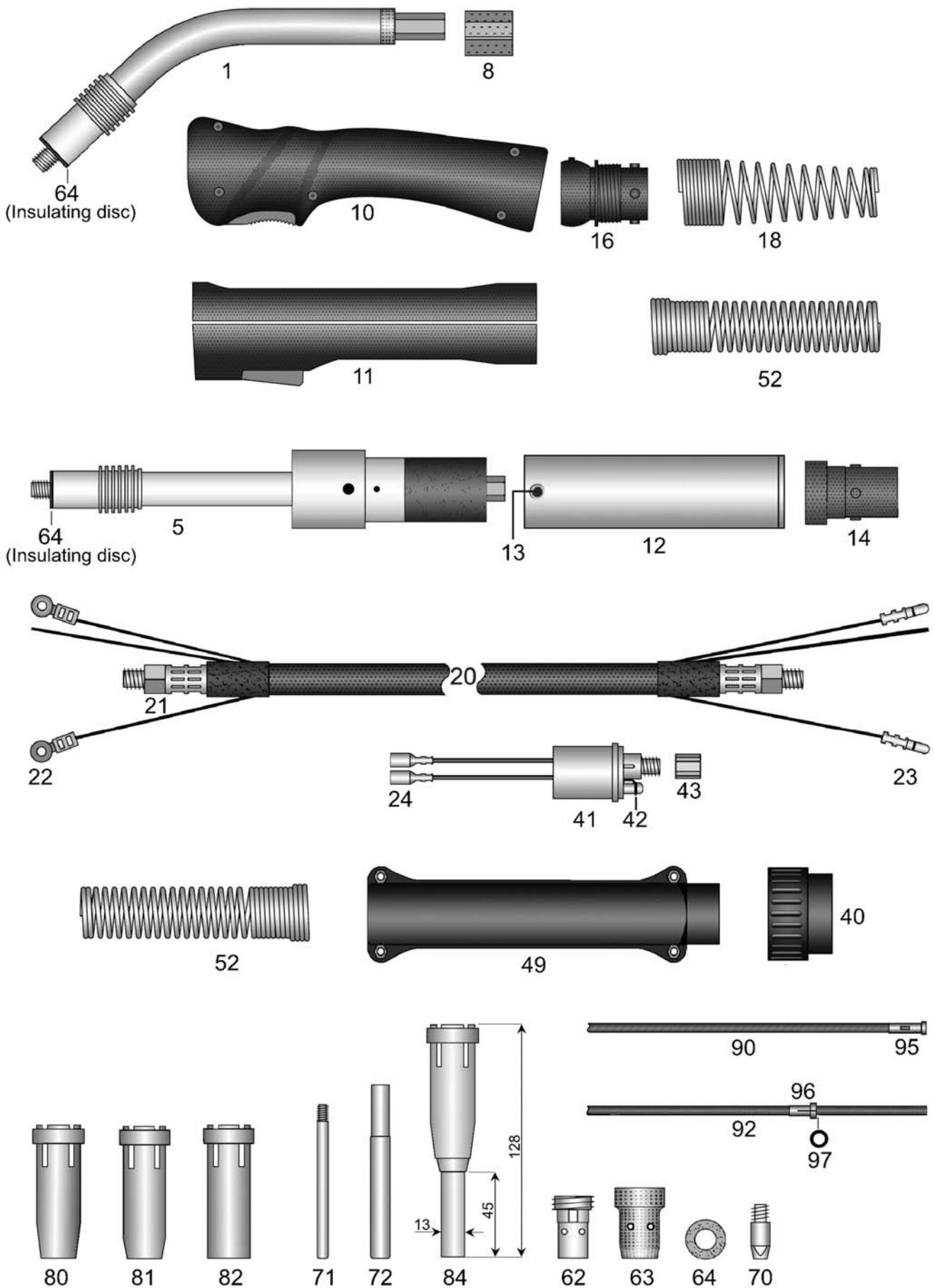
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MHS 35-D gas-cooled

320 Ampere at 60% duty cycle (CO₂) - 300 Ampere at 60% duty cycle (mixed gas)



HSN 121

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 401/501-18-D/501-SUPER water-cooled**

35000311	Torch MHS 35-D / 3m EURO central adapter 42mm ²
35000411	Torch MHS 35-D / 4m EURO central adapter 42mm ²
35000511	Torch MHS 35-D / 5m EURO central adapter 42mm ²
35050311	AUTomatic-torch MHS 35-D / 3m EURO central adapter 42mm ²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

35000301	Torch MHS 35-D / 3m 42mm ²
35000401	Torch MHS 35-D / 4m 42mm ²
35000501	Torch MHS 35-D / 5m 42mm ²
35050301	AUTomatic-torch MHS 35-D / 3m 42mm ²

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

Torch body and AUTomatic torch body with teflon insulation, nickel coated brazen outer tube with cooling ribs, very massive power conduit, front ceramic insulation, complete with insulator and contact tip holder M8.

1	35910001	Swan neck
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	35915001	AUTomatic-torch body
8	15912301	Polyamid-torch body

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	36921311	Coaxial-cable 42mm ² / 3m fits EURO central adapter
20	36921411	Coaxial-cable 42mm ² / 4m fits EURO central adapter

Welding-torch MIG-MAG gas-cooled

320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)

Art.-No.		
20	36921511	Coaxial-cable 42mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
62	50198001	Contact tip holder IT-M8 AG-M16x1-L25mm
62	50198101	Contact tip holder IT-M6 AG-M16x1-L25mm (for narrow-gap contact tip)
63	50191201	Gas diffusor Keripol white
63	50191204	HT-gasdiffusor black power
63	50191203	Ceramic-gas diffusor
64	50191241	Insulator
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
71	68310101	Narrow-gap contact tip M6-L83-AD6 0,8-1,0 nickel-plated
71	68312101	Narrow-gap contact tip M6-L83-AD6 1,2 nickel-plated
N.i.	88551241	Narrow gap-contact tip M8-L85,5-D10 turned down to 6mm 1,2 CuCrZr
72	91921801	Centering wrench for Narrow-gap contact tip M6-L83-D6
80	50193201	Gas nozzle conical-ID14mm
81	50193001	Gas nozzle conical-ID16mm
82	50193301	Gas nozzle cylindric-ID19mm
84	50193361	Narrow-gap gas nozzle with cylinder ID11-AD13-L45mm (overall length 128mm)
N.i.	50191243	Narrow gap-insulation ring black power

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)**

Art.-No.		
N.i.	50193362	Narrow gap-gasnozzle lower part, nickel-coated with PTFE insulation ring
N.i.	50193363	PTFE-seal fits narrow gap-gasnozzle lower part
N.i.	50193364	cylinder (nickel plated) for narrow gap-gasnozzle ID11-AD14mm fits lower part
N.i.	50193365	cylinder (nickel plated) for narrow gap-gasnozzle ID12-AD15mm fits lower part
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 36-KD gas-cooled

The factory standard gear is marked in red.



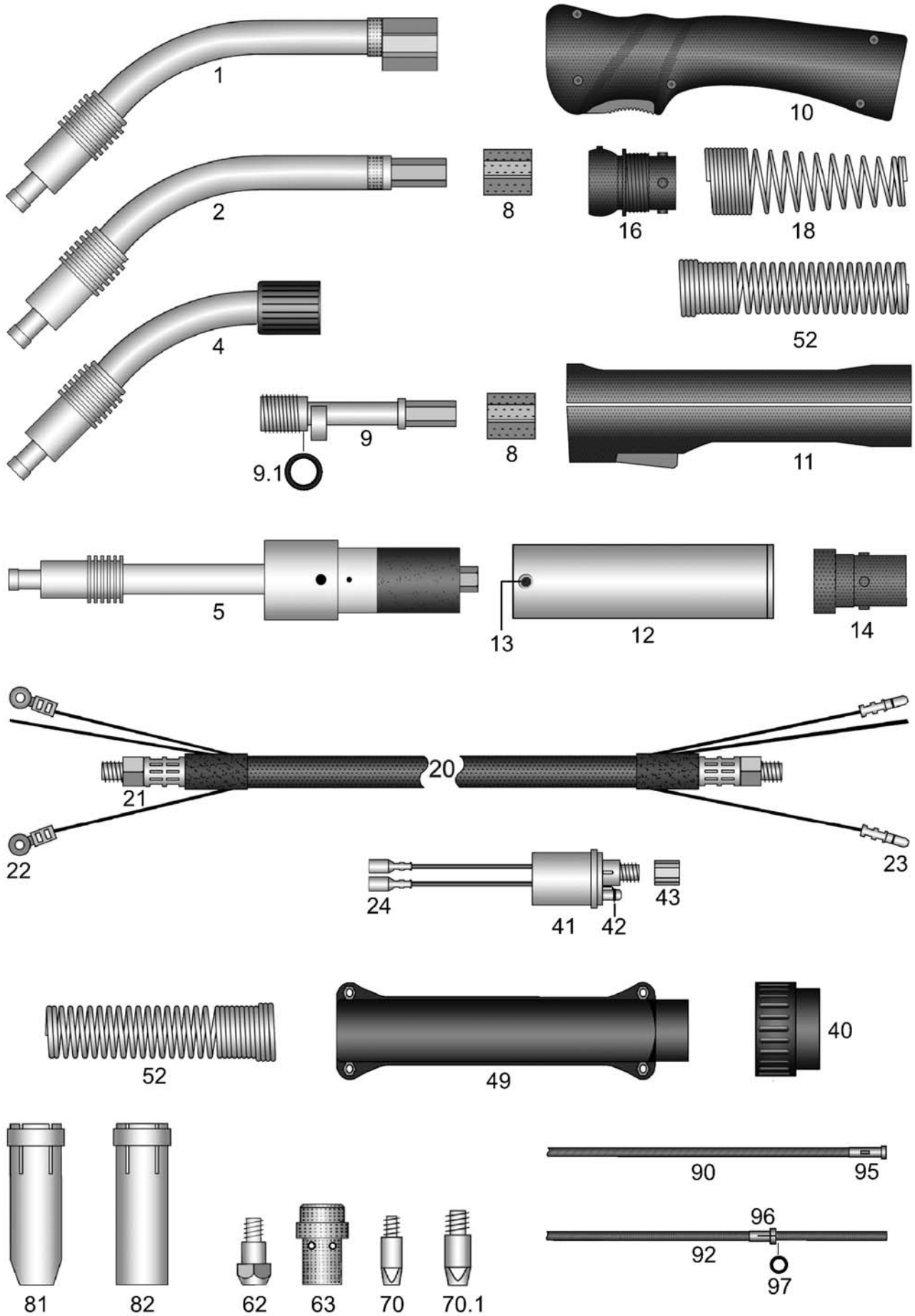
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MHS 36-KD gas-cooled

340 Ampere at 60% duty cycle (CO₂) - 320 Ampere at 60% duty cycle (mixed gas)



HSN 122

Welding-torch MIG-MAG gas-cooled**340A at 60% duty cycle (CO₂) - 320A at 60% duty cycle (mixed gas)**

Art.-No.	
36000311	Torch MHS 36-KD-SPEZIAL / 3m EURO central adapter 42mm ² inner Torch body with cooling-duct section tube
36000411	Torch MHS 36-KD-SPEZIAL / 4m EURO central adapter 42mm ² inner Torch body with cooling-duct section tube
36000511	Torch MHS 36-KD-SPEZIAL / 5m EURO central adapter 42mm ² inner Torch body with cooling-duct section tube
36300311	Torch MHS 36-KD / 3m EURO central adapter 42mm ²
36300411	Torch MHS 36-KD / 4m EURO central adapter 42mm ²
36300511	Torch MHS 36-KD / 5m EURO central adapter 42mm ²
36310311	DR Torch MHS 36-KD / 3m EURO central adapter 42mm ²
36310411	DR Torch MHS 36-KD / 4m EURO central adapter 42mm ²
36310511	DR Torch MHS 36-KD / 5m EURO central adapter 42mm ²
36500311	AUTomatic-torch MHS 36-KD-SPEZIAL / 3m EURO central adapter 42mm ²
36315311	AUT DR Torch MHS 36-KD / 3m EURO central adapter 42mm ²
For torches without EURO central-adaptor the following prices apply. Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.	
36000301	Torch MHS 36-KD-SPEZIAL / 3m 42mm ² inner Torch body with cooling-duct section tube
36000401	Torch MHS 36-KD-SPEZIAL / 4m 42mm ² inner Torch body with cooling-duct section tube
36000501	Torch MHS 36-KD-SPEZIAL / 5m 42mm ² inner Torch body with cooling-duct section tube
36300301	Torch MHS 36-KD / 3m 42mm ²
36300401	Torch MHS 36-KD / 4m 42mm ²
36300501	Torch MHS 36-KD / 5m 42mm ²
36310301	DR Torch MHS 36-KD / 3m 42mm ²
36310401	DR Torch MHS 36-KD / 4m 42mm ²
36310501	DR Torch MHS 36-KD / 5m 42mm ²
36500301	AUTomatic-torch MHS 36-KD-SPEZIAL / 3m 42mm ²
36315301	DR AUTomatic-torch MHS 36-KD / 3m 42mm ²
Special lengths for hand- and AUTomatic-torches please notice appendix "B".	
pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube with cooling ribs, complete with contact tip holder and gasdiffusor.	
1	36910001 Swan neck 36-KD-SPEZIAL
2	36309101 Swan neck 36-KD
N.i.	30405001 Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
4	36319101 DR Swan neck MHS 36-KD
5	36915001 AUTomatic-torch body 36-KD-SPEZIAL
8	15912301 Polyamid-torch body
9	15912602 DR Torch body brass for ratio-handle

Welding-torch MIG-MAG gas-cooled**340A at 60% duty cycle (CO₂) - 320A at 60% duty cycle (mixed gas)**

Art.-No.		
9	15912601	DR Torch body brass for industry-handle
N.i.	15912651	Auxiliary torch body for coaxial cable
9.1	91903604	O-ring ID19-W2,4mm
Handles, complete with switch, screws and ball joint! Handles with hole-20mm are for swivel neck torches (DR torches).		
10	91912534	Ratio-handle 16mm ball joint
10	91912536	Ratio-handle 20mm ball joint
10	91912434	Ratio-handle 16mm standard
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912101	Industry-handle 16mm ball joint
11	91912103	Industry-handle 20mm ball joint
11	91912231	Industry-handle 16mm standard
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	36921311	Coaxial-cable 42mm ² / 3m fits EURO central adapter
20	36921411	Coaxial-cable 42mm ² / 4m fits EURO central adapter
20	36921511	Coaxial-cable 42mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (srews included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
62	36980001	Contact tip holder IT-M6 SW12-L28mm
62	36981001	Contact tip holder IT-M8 SW12-L28mm

Welding-torch MIG-MAG gas-cooled**340A at 60% duty cycle (CO₂) - 320A at 60% duty cycle (mixed gas)**

Art.-No.		
63	36912001	Gas diffusor Keripol white
63	36912004	HT-gasdiffusor black power
63	36912003	Ceramic gas diffusor
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62814001	Contact tip M6-L28-AD8 1,4
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62814301	Contact tip M6-L28-AD8 1,4 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
70.1	83008001	Contact tip M8-L30-AD10 0,8
70.1	83010001	Contact tip M8-L30-AD10 1,0
70.1	83012001	Contact tip M8-L30-AD10 1,2
70.1	83014001	Contact tip M8-L30-AD10 1,4
70.1	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70.1	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70.1	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70.1	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70.1	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70.1	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70.1	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70.1	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70.1	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70.1	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
81	36930001	Gas nozzle conical-ID16mm nickel-plated
82	36933001	Gas nozzle cylindric-ID19mm nickel-plated
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter

Welding-torch MIG-MAG gas-cooled**340A at 60% duty cycle (CO2) - 320A at 60% duty cycle (mixed gas)**

Art.-No.		
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 37-D gas-cooled

The factory standard gear is marked in red.



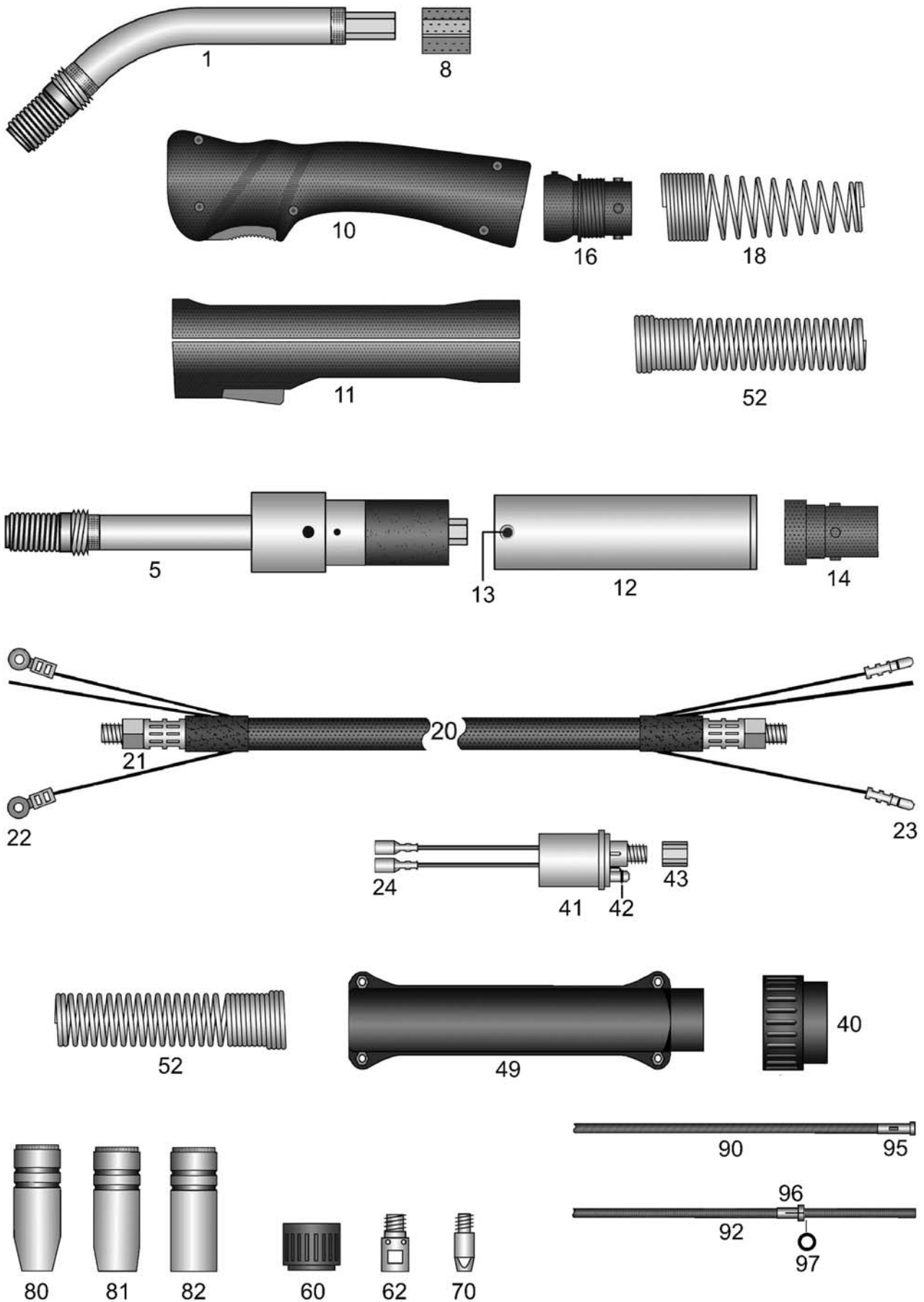
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MHS 37-D gas-cooled

320 Ampere at 60% duty cycle (CO₂) - 300 Ampere at 60% duty cycle (mixed gas)



HSN 123

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 351-D water-cooled**

37000311	Torch MHS 37-D / 3m EURO central adapter 42mm ²
37000411	Torch MHS 37-D / 4m EURO central adapter 42mm ²
37000511	Torch MHS 37-D / 5m EURO central adapter 42mm ²
37500311	AUTomatic-torch MHS 37-D / 3m EURO central adapter 42mm ²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

37000301	Torch MHS 37-D / 3m 42mm ²
37000401	Torch MHS 37-D / 4m 42mm ²
37000501	Torch MHS 37-D / 5m 42mm ²
37500301	AUTomatic-torch MHS 37-D / 3m 42mm ²

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

**Torch body and AUTomatic torch body with teflon insulation, nickel coated brazen outer tube,
very massive power conduit, complete with contact tip holder M8.**

1	37910001	Swan neck
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	37915001	AUTomatic-torch body
8	15912301	Polyamid-torch body

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	36921311	Coaxial-cable 42mm ² / 3m fits EURO central adapter
20	36921411	Coaxial-cable 42mm ² / 4m fits EURO central adapter
20	36921511	Coaxial-cable 42mm ² / 5m fits EURO central adapter

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)**

Art.-No.		
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
60	35191201	Laminated fabric-tension-insulator
62	92981001	Contact tip holder IT-M8 AD13-L28mm
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
80	35193101	Screwable gas nozzle M18 conical-ID14mm with nozzle insulator
81	35193001	Screwable gas nozzle M18 conical-ID17mm with nozzle insulator
82	35193301	Screwable gas nozzle M18 cylindric-ID21mm with nozzle insulator
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO2) - 300A at 60% duty cycle (mixed gas)**

Art.-No.		
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS BOB-45g gas-cooled

Available from September 2017

The factory standard gear is marked in red.



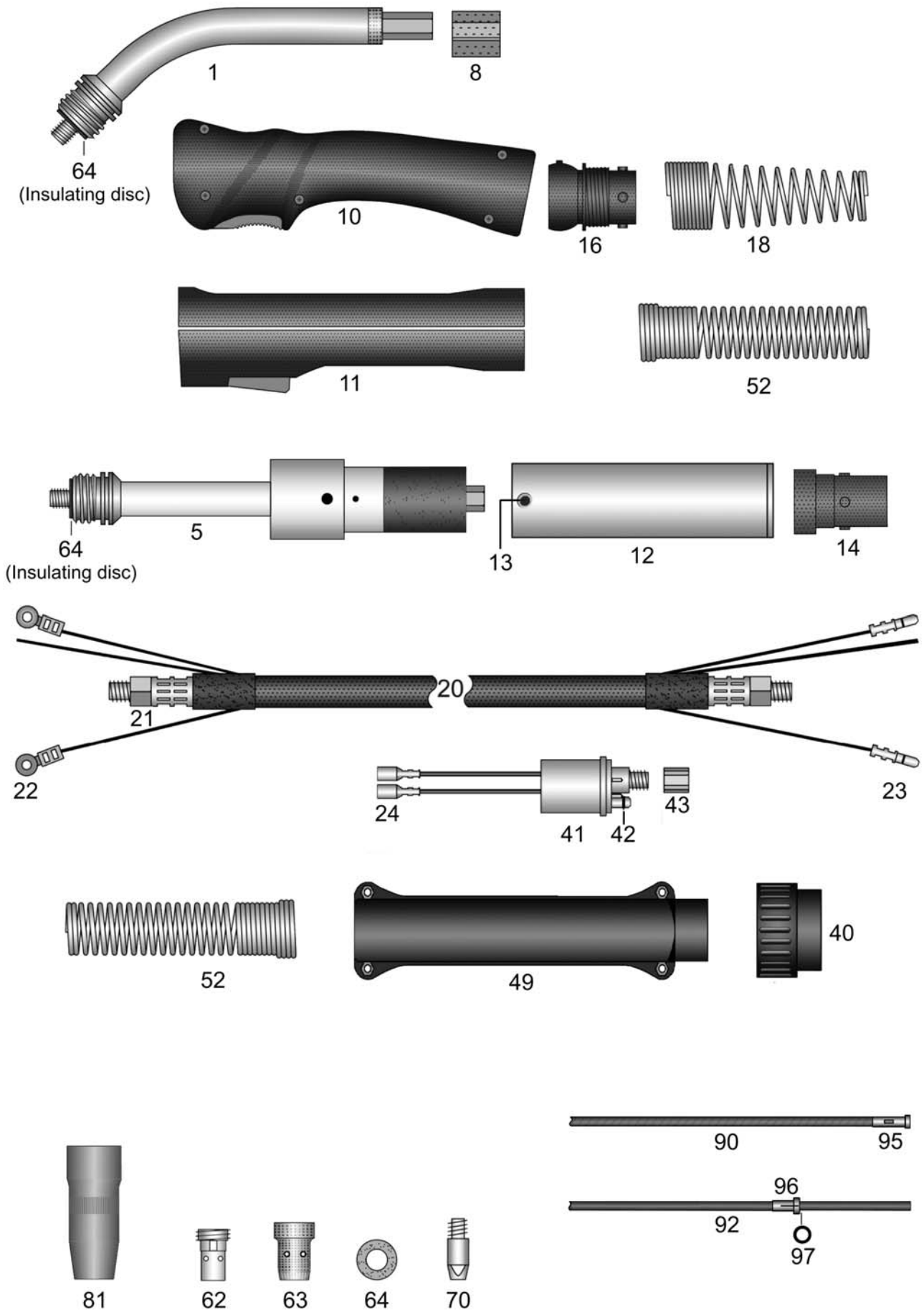
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MHS BOB - 45g gas-cooled

320 Ampere at 60% duty cycle (CO₂) - 300 Ampere at 60% duty cycle (mixed gas)



HSN 906

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS BOB-450w water-cooled**

45g00311	Torch MHS BOB-45g / 3m EURO central adapter 42mm ²
45g00411	Torch MHS BOB-45g / 4m EURO central adapter 42mm ²
45g00511	Torch MHS BOB-45g / 5m EURO central adapter 42mm ²
45g50311	AUTomatic-torch MHS BOB-45g / 3m EURO central adapter 42mm ²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

45g00301	Torch MHS BOB-45g / 3m 42mm ²
45g00401	Torch MHS BOB-45g / 4m 42mm ²
45g00501	Torch MHS BOB-45g / 5m 42mm ²
45g50301	AUTomatic-torch MHS BOB-45g / 3m 42mm ²

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

Torch body and AUTomatic torch body with teflon insulation, brazen outer tube with cooling ribs, very massive power conduit, front ceramic insulation, complete with insulator and contact tip holder M8.

1	45g91001	Swab neck MHS BOB-45g
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	45g91501	AUTomatic-torch body MHS BOB-45g
8	15912301	Polyamid-torch body

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	36921311	Coaxial-cable 42mm ² / 3m fits EURO central adapter
20	36921411	Coaxial-cable 42mm ² / 4m fits EURO central adapter

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)**

Art.-No.		
20	36921511	Coaxial-cable 42mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
62	50198001	Contact tip holder IT-M8 AG-M16x1-L25mm
63	50191201	Gas diffusor Keripol white
63	50191204	HT-gasdiffusor black power
63	50191203	Ceramic-gas diffusor
64	50191241	Insulator
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
81	45093001	Screwable gas nozzle conical-ID16mm
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO2) - 300A at 60% duty cycle (mixed gas)**

Art.-No.		
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 60 gas-cooled

The factory standard gear is marked in red.



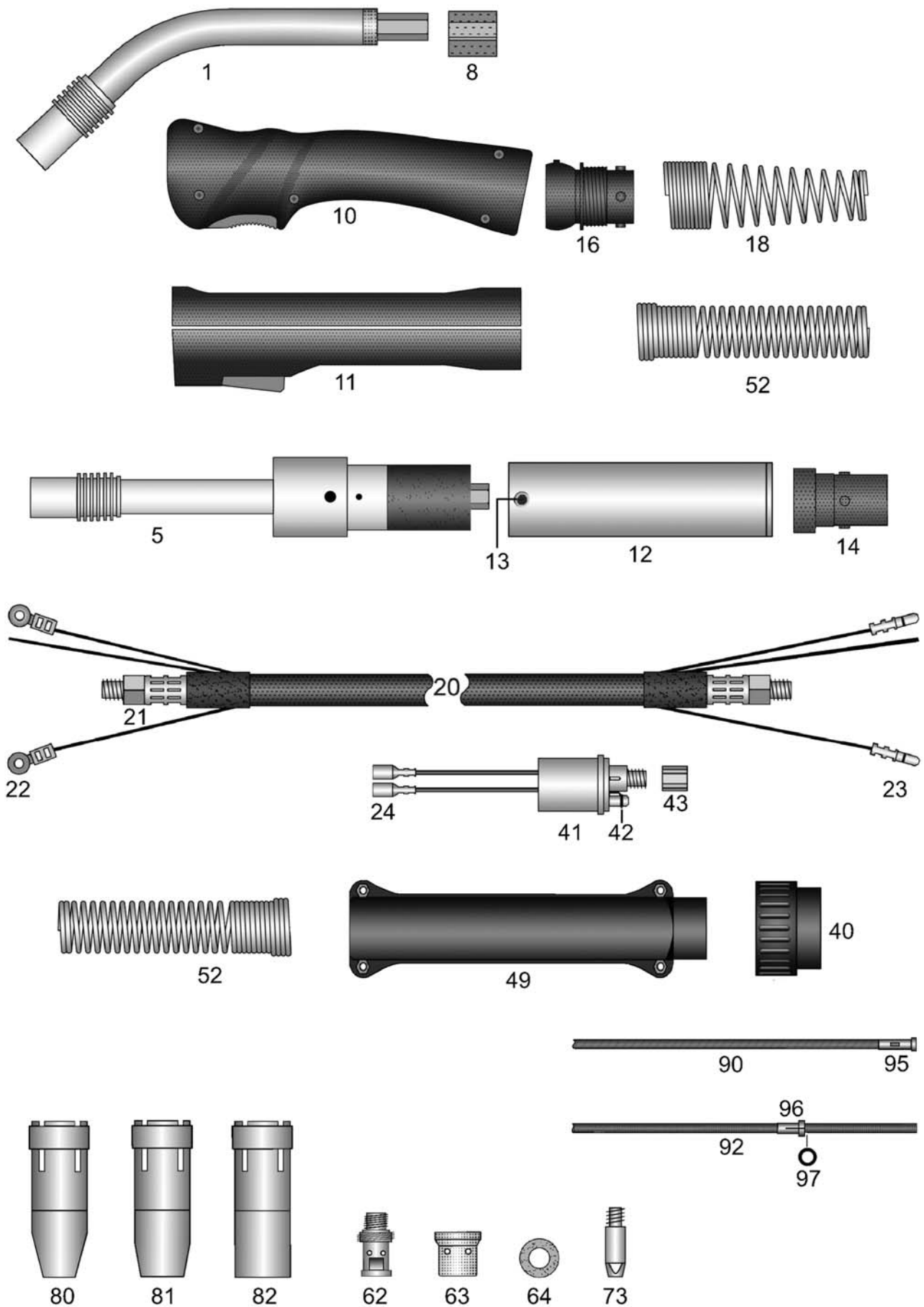
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MHS 60 gas-cooled



320 Ampere at 60% duty cycle (CO₂) - 300 Ampere at 60% duty cycle (mixed gas)



HSN 540

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS KONSUL-600 water-cooled**

60200311	Torch MHS 60 / 3m EURO central adapter 42mm ²
60200411	Torch MHS 60 / 4m EURO central adapter 42mm ²
60200511	Torch MHS 60 / 5m EURO central adapter 42mm ²
60250311	AUTomatic-torch MHS 60 / 3m EURO central adapter 42mm ²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

60200301	Torch MHS 60 / 3m 42mm ²
60200401	Torch MHS 60 / 4m 42mm ²
60200501	Torch MHS 60 / 5m 42mm ²
60250301	AUTomatic-torch MHS 60 / 3m 42mm ²

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

Torch body and AUTomatic torch body with teflon insulation, nickel coated brazen outer tube with cooling ribs, very massive power conduit, front ceramic insulation, complete with insulator and contact tip holder M8.

1	60910001	Swan neck
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	60291501	AUTomatic-torch body
8	15912301	Polyamid-torch body

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	36921311	Coaxial-cable 42mm ² / 3m fits EURO central adapter
20	36921411	Coaxial-cable 42mm ² / 4m fits EURO central adapter

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO₂) - 300A at 60% duty cycle (mixed gas)**

Art.-No.		
20	36921511	Coaxial-cable 42mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
62	60098011	Contact tip holder IT-M8 material: Copper, complete with insulator
62	60098012	Contact tip holder IT-M8 material: Brass, complete with insulator
63	60091201	Gas diffusor
64	60091211	Insulator
73	83610401	HD-contact tip M8-L36-AD10 CuCrZr 1,0
73	83612401	HD-contact tip M8-L36-AD10 CuCrZr 1,2
73	83614401	HD-contact tip M8-L36-AD10 CuCrZr 1,4
73	83608a41	HD-contact tip M8-L36-D10 CuCrZr 0,8-A for aluminium wire
73	83610a41	HD-contact tip M8-L36-D10 CuCrZr 1,0-A for aluminium wire
73	83612a41	HD-contact tip M8-L36-D10 CuCrZr 1,2-A for aluminium wire
80	60093011	HD-gas nozzle conical-ID14mm
81	60093001	HD-gas nozzle conical-ID17mm
82	60093301	Gas nozzle cylindrical-ID21mm
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter

Welding-torch MIG-MAG gas-cooled**320A at 60% duty cycle (CO2) - 300A at 60% duty cycle (mixed gas)**

Art.-No.		
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 61 gas-cooled

Very massive power conduit, gas nozzle screwable

Available from September 2017

The factory standard gear is marked in red.



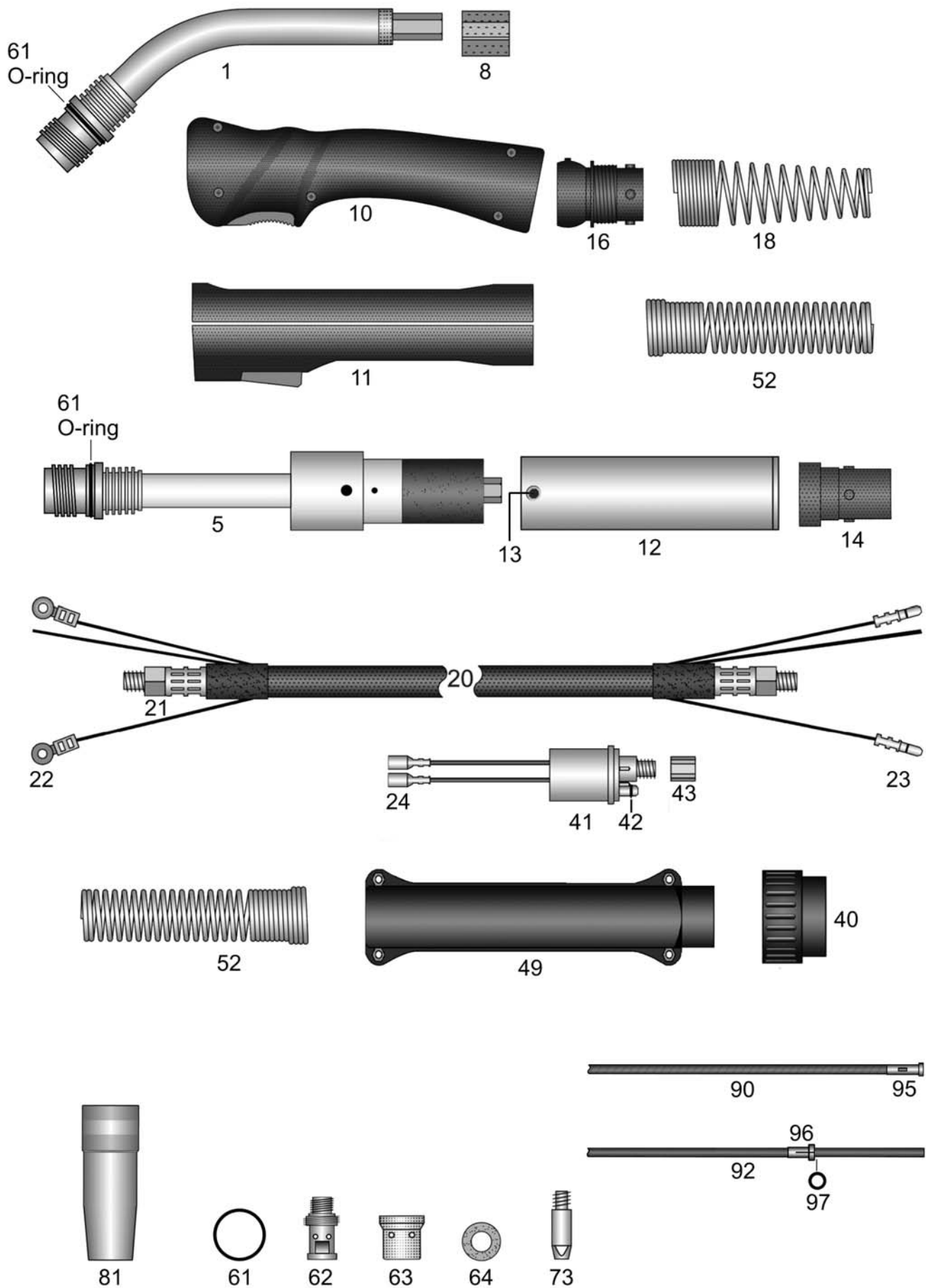
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MHS 61 gas-cooled

400 Ampere at 60% duty cycle (CO₂) - 370 Ampere at 60% duty cycle (mixed gas)



HSN 898

Welding-torch MIG-MAG gas-cooled

400A at 60% duty cycle (CO₂) - 370A at 60% duty cycle (mixed gas)**Art.-No.****Spare parts as torch MHS KONSUL-601 water-cooled**

61000311	Torch MHS 61 / 3m EURO central adapter 63mm ²
61000411	Torch MHS 61 / 4m EURO central adapter 63mm ²
61000511	Torch MHS 61 / 5m EURO central adapter 63mm ²
61500311	AUTomatic-torch MHS 61 / 3m EURO central adapter 63mm ²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

61000301	Torch MHS 61 / 3m 63mm ²
61000401	Torch MHS 61 / 4m 63mm ²
61000501	Torch MHS 61 / 5m 63mm ²
61500301	AUTomatic-torch MHS 61 / 3m 63mm ²

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

**Torch body and AUTomatic torch body with teflon insulation, nickel coated brazen outer tube
with cooling ribs, very massive power conduit, front ceramic insulation, complete with
insulator and contact tip holder M8.**

1	61910001	Swan neck fits gas nozzle screwable
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	61915001	AUTomatic-torch body fits gas nozzle screwable
8	15912301	Polyamid-torch body

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	61920311	Coaxial-cable 63mm ² / 3m fits EURO central adapter
20	61920411	Coaxial-cable 63mm ² / 4m fits EURO central adapter

Welding-torch MIG-MAG gas-cooled

400A at 60% duty cycle (CO₂) - 370A at 60% duty cycle (mixed gas)

Art.-No.		
20	61920511	Coaxial-cable 63mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
61	91914901	O-ring ID20,35-W1,78mm
62	60098011	Contact tip holder IT-M8 material: Copper, complete with insulator
62	60098012	Contact tip holder IT-M8 material: Brass, complete with insulator
63	60091201	Gas diffusor
64	60091211	Insulator
73	83610401	HD-contact tip M8-L36-AD10 CuCrZr 1,0
73	83612401	HD-contact tip M8-L36-AD10 CuCrZr 1,2
73	83614401	HD-contact tip M8-L36-AD10 CuCrZr 1,4
73	83616401	HD-contact tip M8-L36-AD10 CuCrZr 1,6
73	83608a41	HD-contact tip M8-L36-D10 CuCrZr 0,8-A for aluminium wire
73	83610a41	HD-contact tip M8-L36-D10 CuCrZr 1,0-A for aluminium wire
73	83612a41	HD-contact tip M8-L36-D10 CuCrZr 1,2-A for aluminium wire
73	83618301	HD-contact tip M8-L36-D10 1,6A nickel-plated for aluminium wire
81	60193001	Screwable gas nozzle conical-ID17mm
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
90	23481311	Spiral-liner green ID2,3-AD4,8 fits 3m / EURO central adapter
90	23481411	Spiral-liner green ID2,3-AD4,8 fits 4m / EURO central adapter
90	23481511	Spiral-liner green ID2,3-AD4,8 fits 5m / EURO central adapter
90	25451311	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 3m / EURO central adapter
90	25451411	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 4m / EURO central adapter

Welding-torch MIG-MAG gas-cooled**400A at 60% duty cycle (CO2) - 370A at 60% duty cycle (mixed gas)**

Art.-No.		
90	25451511	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 82-D gas-cooled

The factory standard gear is marked in red.



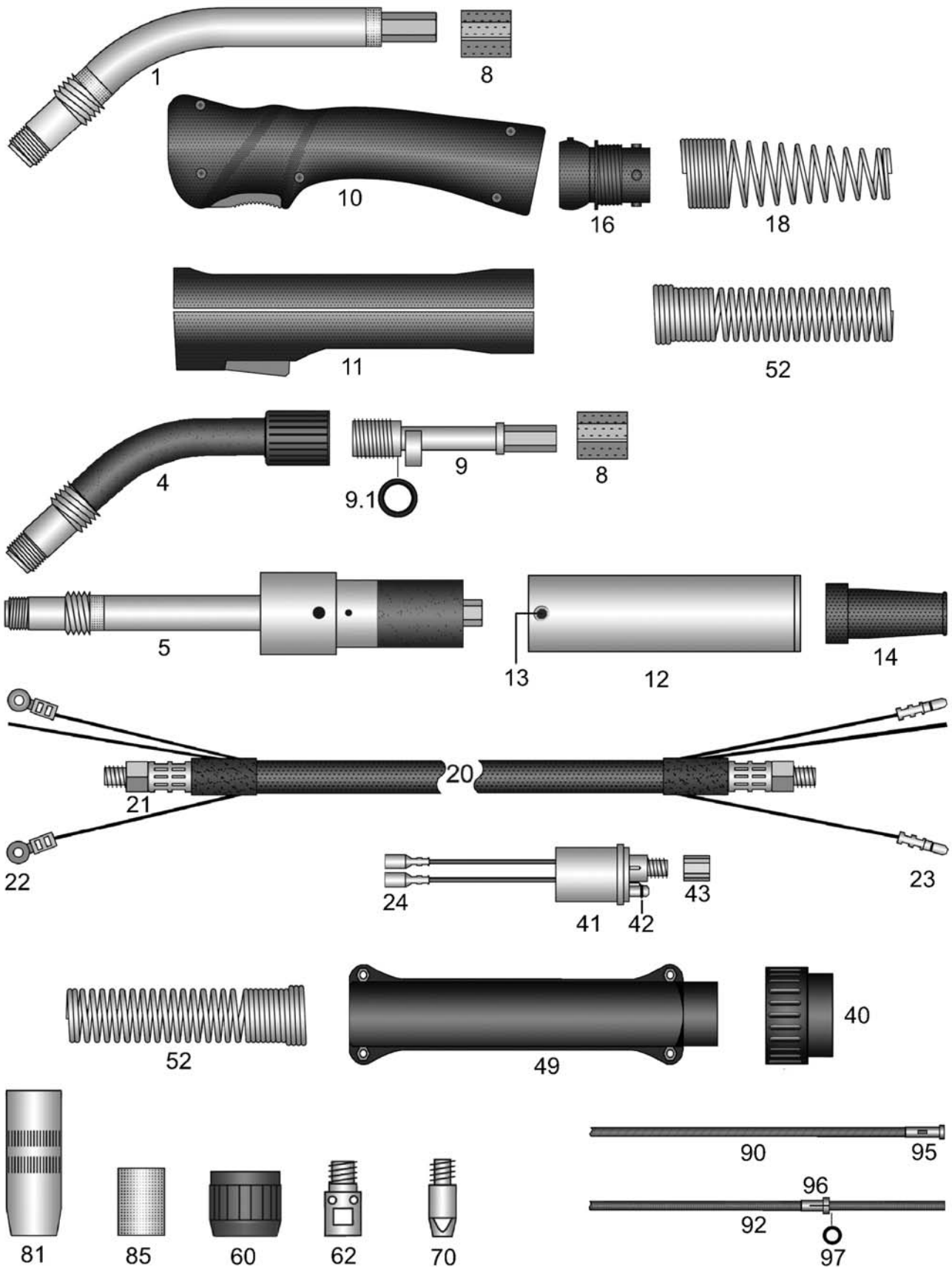
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MHS 82-D gas-cooled

250 Ampere at 60% duty cycle (CO₂) - 200 Ampere at 60% duty cycle (mixed gas)



Operating instruction

Screw laminated fabric-tension sleeve right-hand thread (60) down until it goes no further. Then, screw down heavy duty insulating sleeve left-hand thread (85) until it goes no further. Slide the Gas nozzle (81) over the insulating sleeve (85). Now, screw back the laminated fabric-tension sleeve (60). The insulating sleeve (85) is hereby pushed outside and holds the gas nozzle.

HSN 125

Welding-torch MIG-MAG gas-cooled**250A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 81-D water-cooled**82000311 Torch MHS 82-D / 3m EURO central adapter 25mm²82000411 Torch MHS 82-D / 4m EURO central adapter 25mm²82000511 Torch MHS 82-D / 5m EURO central adapter 25mm²82100311 DR Torch MHS 82-D / 3m EURO central adapter 25mm²82100411 DR Torch MHS 82-D / 4m EURO central adapter 25mm²82100511 DR Torch MHS 82-D / 5m EURO central adapter 25mm²82050311 AUTomatic-torch MHS 82-D / 3m EURO central adapter 25mm²82150311 DR AUTomatic-torch MHS 82-D / 3m EURO central adapter 25mm²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

82000301 Torch MHS 82-D / 3m 25mm²82000401 Torch MHS 82-D / 4m 25mm²82000501 Torch MHS 82-D / 5m 25mm²82100301 DR Torch MHS 82-D / 3m 25mm²82100401 DR Torch MHS 82-D / 4m 25mm²82100501 DR Torch MHS 82-D / 5m 25mm²82050301 AUTomatic-torch MHS 82-D / 3m 25mm²82150301 DR AUTomatic-torch MHS 82-D / 3m 25mm²**Special lengths for hand- and AUTomatic-torches please notice appendix "B".**

pg000001 Surcharge: Pistol-shape-handle / stabilizer

N.i. 91912453 Heat protection shield for pistol handle, screws included

29004602 Surcharge: Torch body with custom bending

Torch body and AUTomatic torch body with teflon insulation, nickel coated brazen outer tube (DR bodies not nickel coated), very massive power conduit, complete with insulator and contact tip holder M8.

1 82091001 Swan neck

N.i. 30405001 Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire

4 82191001 DR Swan neck MHS 82-D

5 82091501 AUTomatic-torch body

8 15912301 Polyamid-torch body

9 15912602 DR Torch body brass for ratio-handle

9 15912601 DR Torch body brass for industry-handle

N.i. 15912651 Auxiliary torch body for coaxial cable

9.1 91903604 O-ring ID19-W2,4mm

**Handles, complete with switch, screws and ball joint!
Handles with hole-20mm are for swivel neck torches (DR torches).**

10 91912535 Ratio-handle 18mm ball joint

10 91912536 Ratio-handle 20mm ball joint

10 91912435 Ratio-handle 18mm standard

Welding-torch MIG-MAG gas-cooled**250A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)**

Art.-No.		
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912103	Industry-handle 20mm ball joint
11	91912331	Industry-handle 18mm standard
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	15912801	Rubber cable-support small for coaxial-cable
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	15920311	Coaxial-cable 25mm ² / 3m fits EURO central adapter
20	15920411	Coaxial-cable 25mm ² / 4m fits EURO central adapter
20	15920511	Coaxial-cable 25mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
60	81912001	Laminated fabric-tension sleeve right-hand thread
62	92981001	Contact tip holder IT-M8 AD13-L28mm
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated

Welding-torch MIG-MAG gas-cooled**250A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)**

Art.-No.		
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
81	81931001	Gas nozzle conical-ID17mm
85	81912101	Laminated fabric-tension sleeve left-hand thread
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS Manni-164 gas-cooled

The factory standard gear is marked in red.



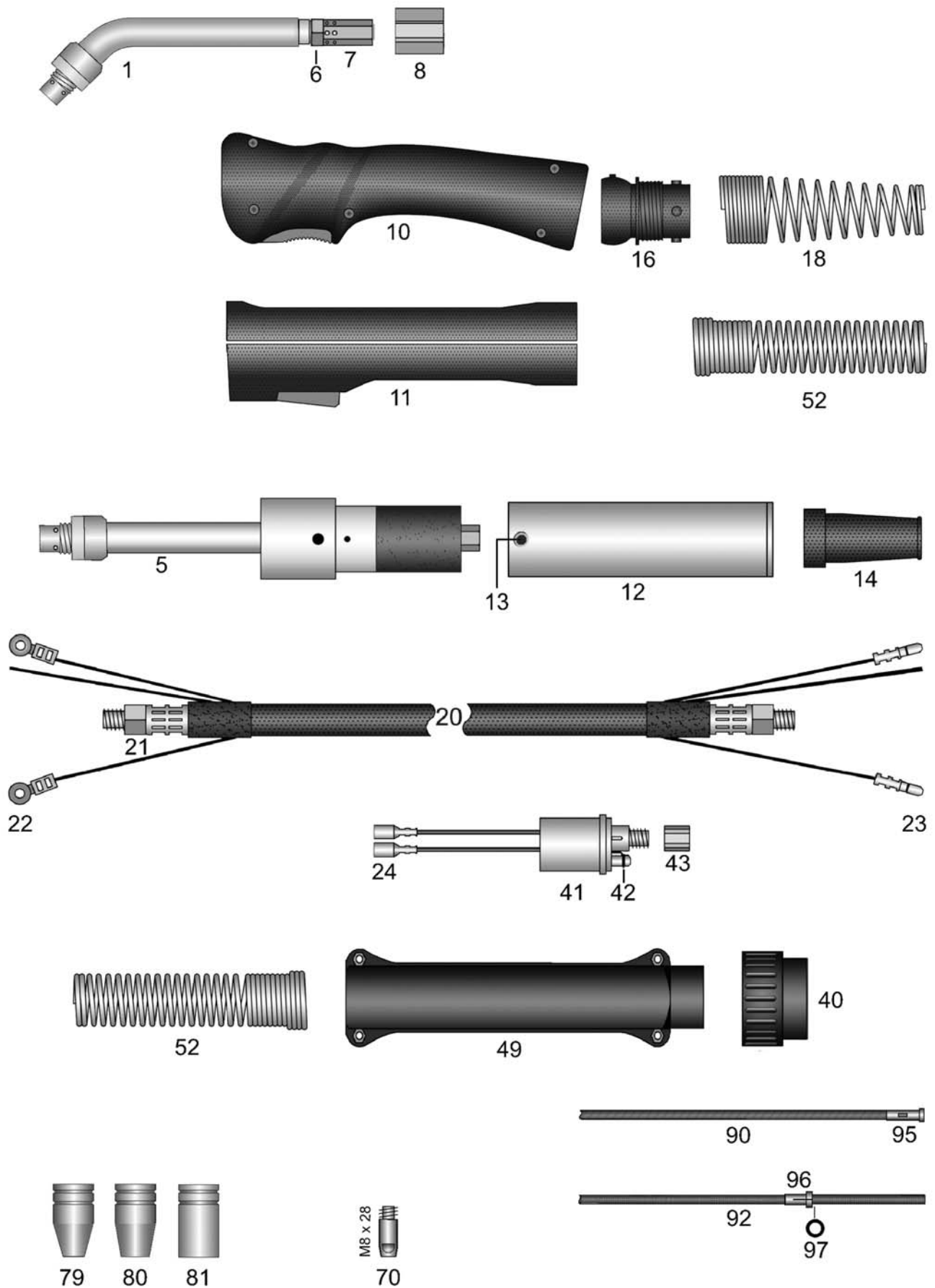
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MHS Manni - 164 gas-cooled

230 Ampere at 60% duty cycle (CO₂) - 200 Ampere at 60% duty cycle (mixed gas)



HSN 137A

Welding-torch MIG-MAG gas-cooled**230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 312 water-cooled**

16400311	Torch MHS Manni-164 / 3m EURO central adapter 35mm ²
16400411	Torch MHS Manni-164 / 4m EURO central adapter 35mm ²
16400511	Torch MHS Manni-164 / 5m EURO central adapter 35mm ²
16405311	AUTomatic-torch MHS Manni-164 / 3m EURO central adapter 35mm ²

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

16400301	Torch MHS Manni-164 / 3m 35mm ²
16400401	Torch MHS Manni-164 / 4m 35mm ²
16400501	Torch MHS Manni-164 / 5m 35mm ²
16405301	AUTomatic-torch MHS Manni-164 / 3m 35mm ²

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

**Torch body and AUTomatic torch body with teflon insulation, nickel coated brazen outer tube,
very massive power conduit and small bending radius.**

1	16491001	Swan neck
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	16491501	AUTomatic-torch body
6	15912201	Lock-nut M10x1-L6mm for Swan neck
7	15912401	Torch body brass SW12-L26mm
8	15912301	Polyamid-torch body

Handles complete with switch, screws and ball joint

10	91912534	Ratio-handle 16mm ball joint
10	91912434	Ratio-handle 16mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912101	Industry-handle 16mm ball joint
11	91912231	Industry-handle 16mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	15912801	Rubber cable-support small for coaxial-cable
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	25920311	Coaxial-cable 35mm ² / 3m fits EURO central adapter

Welding-torch MIG-MAG gas-cooled**230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)**

Art.-No.		
20	25920411	Coaxial-cable 35mm ² / 4m fits EURO central adapter
20	25920511	Coaxial-cable 35mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
70	82808401	Contact tip M8-L28-D10 CuCrZr 0,8 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82810401	Contact tip M8-L28-D10 CuCrZr 1,0 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82812401	Contact tip M8-L28-D10 CuCrZr 1,2 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82808a41	Contact tip M8-L28-D10 0,8-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
70	82810a41	Contact tip M8-L28-D10 1,0-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
70	82812a41	Contact tip M8-L28-D10 1,2-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
79	3129301M	Gas nozzle screwable M14 conical-ID13mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
80	3129302M	Gas nozzle screwable M14 conical-ID15mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
81	31293001	Gas nozzle screwable M14 cylindric-ID18mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
N.i.	3129303M	Ceramic-screwable gas nozzle M14 conical-ID15mm L40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter

Welding-torch MIG-MAG gas-cooled**230A at 60% duty cycle (CO2) - 200A at 60% duty cycle (mixed gas)**

Art.-No.		
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch

MHS LURCHI-220 / torch body flexible

MHS LURCHI-320 / torch body flexible

The factory standard gear is marked in red.



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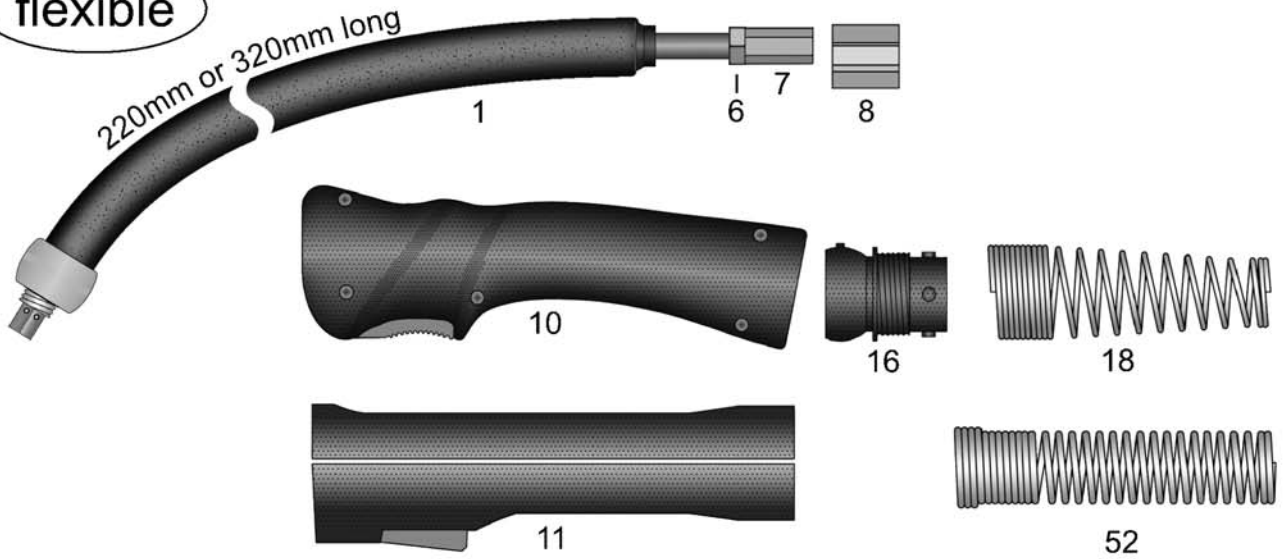
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MHS LURCHI-220 gas-cooled
MHS LURCHI-320 gas-cooled

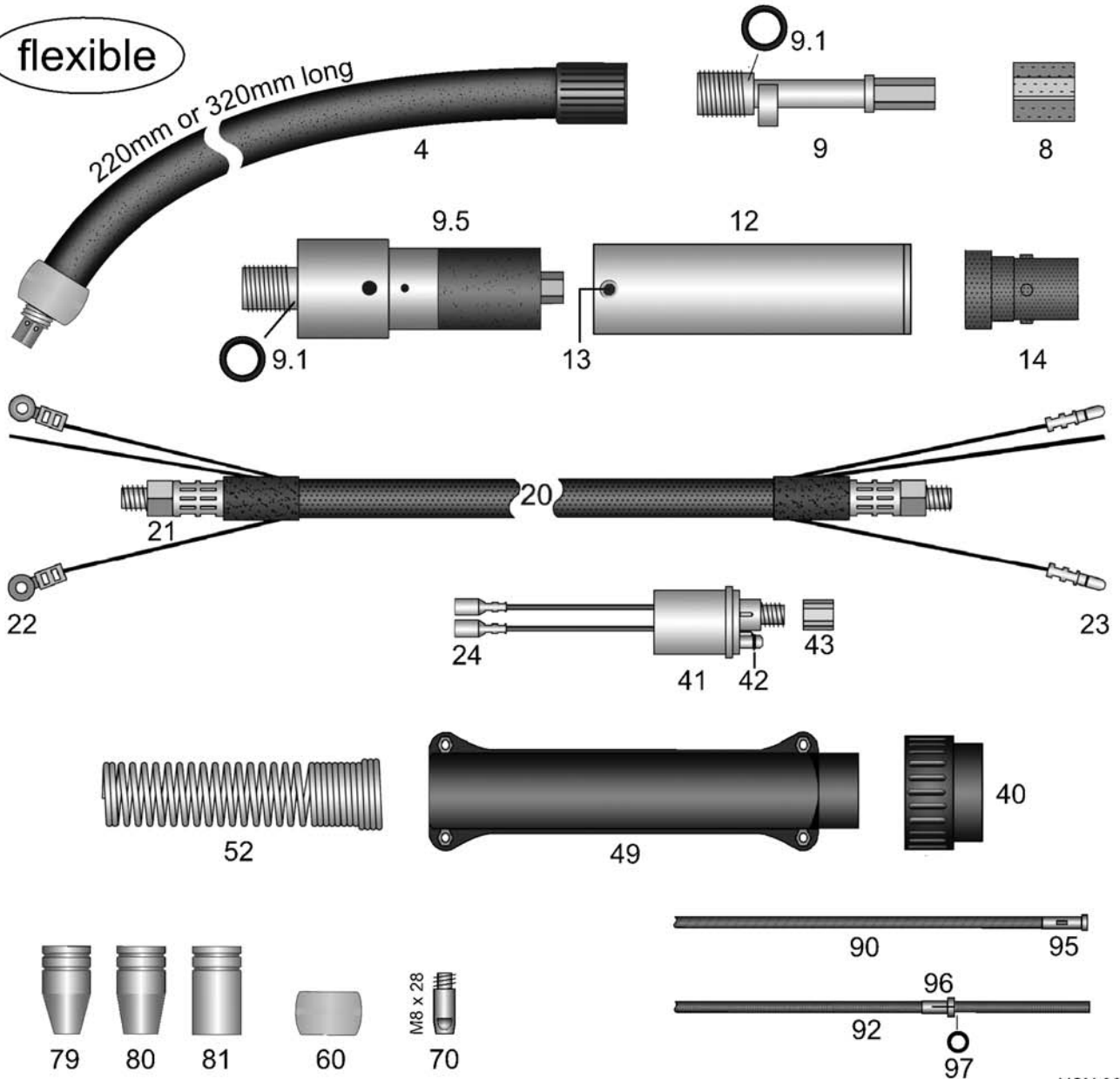


230 Ampere at 60% duty cycle (CO₂) - 200 Ampere at 60% duty cycle (mixed gas)

flexible



flexible



HSN 887-1

Welding-torch MIG-MAG gas-cooled

230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)

Art.-No.	
	Spare parts as torch MHS Manni-164 gas-cooled
	Spare parts as torch MHS 312 water-cooled
lu220311	Torch MHS LURCHI-220 / 3m EURO central-adapter 25mm ² , flexible with screwable gas nozzle L-40mm
lu220411	Torch MHS LURCHI-220 / 4m EURO central-adapter 25mm ² , flexible with screwable gas nozzle L-40mm
lu220511	Torch MHS LURCHI-220 / 5m EURO central-adapter 25mm ² , flexible with screwable gas nozzle L-40mm
lu320311	Torch MHS LURCHI-320 / 3m EURO-ZA 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu320411	Torch MHS LURCHI-320 / 4m EURO-ZA 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu320511	Torch MHS LURCHI-320 / 5m EURO-ZA 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu220312	DR torch MHS LURCHI-220 / 3m EURO central-adapter 25mm ² , flexible with screwable gas nozzle L-40mm
lu220412	DR torch MHS LURCHI-220 / 4m EURO central-adapter 25mm ² , flexible with screwable gas nozzle L-40mm
lu220512	DR torch MHS LURCHI-220 / 5m EURO central-adapter 25mm ² , flexible with screwable gas nozzle L-40mm
lu320312	DR torch MHS LURCHI-320 / 3m EURO-ZA 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu320412	DR torch MHS LURCHI-320 / 4m EURO-ZA 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu320512	DR torch MHS LURCHI-320 / 5m EURO-ZA 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu225312	DR AUTomatic-torch MHS LURCHI-220 / 3m EURO-ZA 25mm ² , flexible with screwable gas nozzle L-40mm
lu325312	DR AUTomatic-torch MHS LURCHI-320 / 3m EURO-ZA 25mm ² , flexible (long) with screwable gas nozzle L-40mm
	For torches without EURO central-adaptor the following prices apply. Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.
lu220301	Torch MHS LURCHI-220 / 3m 25mm ² , flexible with screwable gas nozzle L-40mm
lu220401	Torch MHS LURCHI-220 / 4m 25mm ² , flexible with screwable gas nozzle L-40mm
lu220501	Torch MHS LURCHI-220 / 5m 25mm ² , flexible with screwable gas nozzle L-40mm
lu320301	Torch MHS LURCHI-320 / 3m 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu320401	Torch MHS LURCHI-320 / 4m 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu320501	Torch MHS LURCHI-320 / 5m 25mm ² , flexible (long) with screwable gas nozzle L-40mm
lu220302	DR torch MHS LURCHI-220 / 3m 25mm ² , flexible with screwable gas nozzle L-40mm
lu220402	DR torch MHS LURCHI-220 / 4m 25mm ² , flexible with screwable gas nozzle L-40mm
lu220502	DR torch MHS LURCHI-220 / 5m 25mm ² , flexible with screwable gas nozzle L-40mm
lu320302	DR torch MHS LURCHI-320 / 3m 25mm ² , flexible (long) with screwable gas nozzle L-40mm

Welding-torch MIG-MAG gas-cooled**230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)**

Art.-No.		
lu320402	DR torch MHS LURCHI-320 / 4m 25mm ² , flexible (long) with screwable gas nozzle L-40mm	
lu320502	DR torch MHS LURCHI-320 / 5m 25mm ² , flexible (long) with screwable gas nozzle L-40mm	
lu225302	DR AUTomatic-torch MHS LURCHI-220 / 3m 25mm ² , flexible with screwable gas nozzle L-40mm	
lu325302	DR AUTomatic-torch MHS LURCHI-320 / 3m 25mm ² , flexible (long) with screwable gas nozzle L-40mm	
Special lengths for hand- and AUTomatic-torches please notice appendix "B".		
Torch body flexible with rubber insulation, 25mm² power conduit, complete with Teflon-insulator.		
1	lu220911	Swan neck MHS LURCHI-220, flexible fits screwable gas nozzle L-40mm
1	lu320911	Swan neck MHS LURCHI-320, flexible (long) fits screwable gas nozzle L-40mm
4	lu220912	DR Swan neck MHS LURCHI-220, flexible fits screwable gas nozzle L-40mm
4	lu320912	DR Swan neck MHS LURCHI-320, flexible (long) fits screwable gas nozzle L-40mm
6	15912201	Lock-nut M10x1-L6mm for Swan neck
7	15912401	Torch body brass SW12-L26mm
8	15912301	Polyamid-torch body
9	15912602	DR Torch body brass for ratio-handle
9	15912601	DR Torch body brass for industry-handle
9.1	91903604	O-ring ID19-W2,4mm
9.5	15912651	Auxiliary torch body for coaxial cable
Handles complete with switch, screws and ball joint		
10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912901	AUT handle tube, brass-cladded AD38mm for AUT-torch rubber cable support
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
16	91912704	Spring socket pistol side ball joint
18	91912503	Cable support spring handle-side for ball joint
20	15920311	Coaxial-cable 25mm ² / 3m fits EURO central adapter
20	15920411	Coaxial-cable 25mm ² / 4m fits EURO central adapter
20	15920511	Coaxial-cable 25mm ² / 5m fits EURO central adapter
21	15912211	Lock-nut M10x1-L9,5mm for coaxial-cable
22	91902811	Cable-plug for industry-handle

Welding-torch MIG-MAG gas-cooled

230A at 60% duty cycle (CO₂) - 200A at 60% duty cycle (mixed gas)

Art.-No.		
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900101	Central adapter fixed contact-pins EURO central adapter
41	91900106	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
52	91912502	Cable support spring for handles without ball joint and for EURO
60	lu912001	Teflon protection sleeve LURCHI
70	82808401	Contact tip M8-L28-D10 CuCrZr 0,8 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82810401	Contact tip M8-L28-D10 CuCrZr 1,0 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82812401	Contact tip M8-L28-D10 CuCrZr 1,2 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82808a41	Contact tip M8-L28-D10 0,8-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
70	82810a41	Contact tip M8-L28-D10 1,0-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
70	82812a41	Contact tip M8-L28-D10 1,2-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
79	3129301M	Gas nozzle screwable M14 conical-ID13mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
80	3129302M	Gas nozzle screwable M14 conical-ID15mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
81	31293001	Gas nozzle screwable M14 cylindric-ID18mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
N.i.	3129303M	Ceramic-screwable gas nozzle M14 conical-ID15mm L40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
Spirals and liners also available in other sizes on inquiry!		
90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter

Welding-torch MIG-MAG gas-cooled**230A at 60% duty cycle (CO2) - 200A at 60% duty cycle (mixed gas)**

Art.-No.		
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS RAUCH-250 air-cooled

Fume extraction torch

Product information:

At the pistol end the very light TPE extraction hose is protected by approx. 2m leather cover hose.
Damage caused by splashes or sharp edges is thus prevented.

The factory standard gear is marked in red.



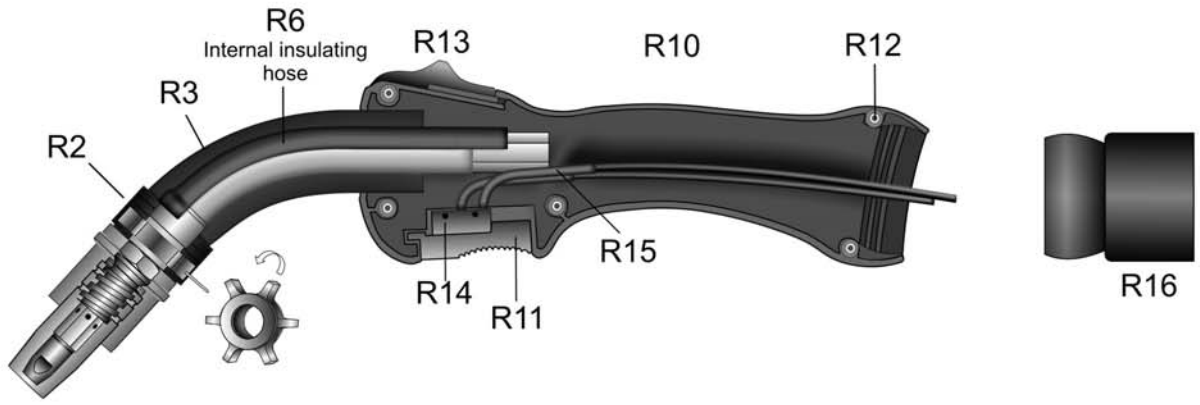
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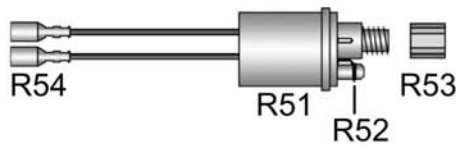
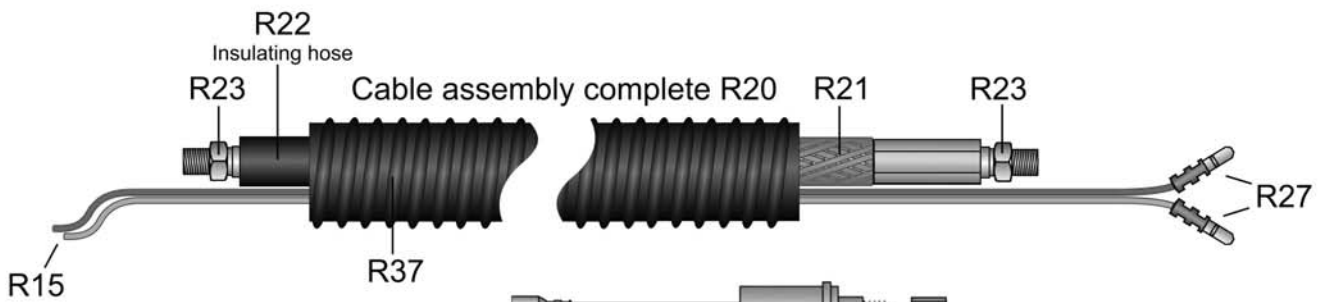
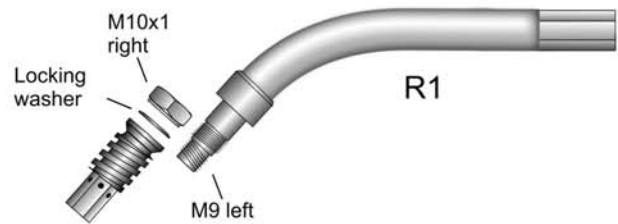


MHS RAUCH-250 air-cooled

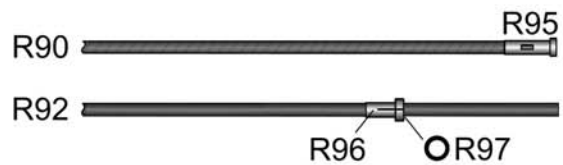
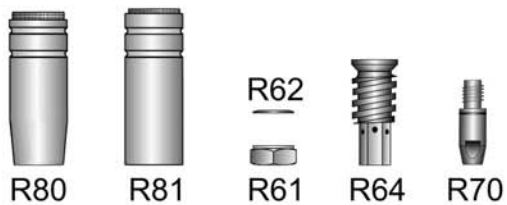
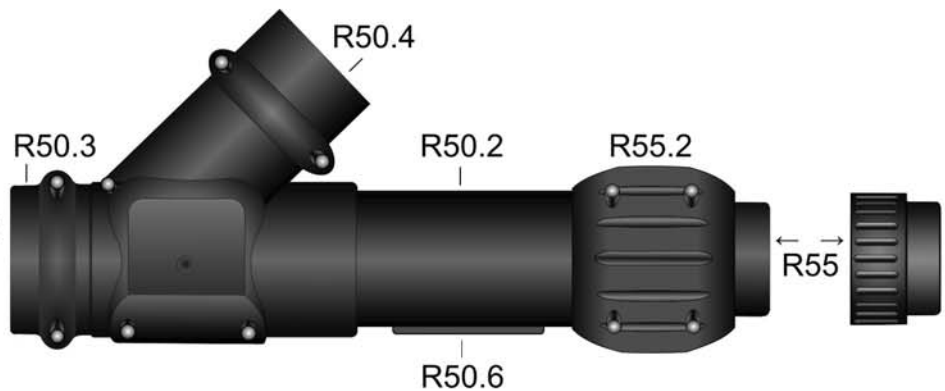
250 Ampere at 100% duty cycle (CO₂) - 210 Ampere at 100% duty cycle (mixed gas)



Adjustable exhaust nozzle
for frontal extraction for lateral extraction



RAUCH cable support complete R50



HSN 863-2

Welding-torch MIG-MAG air-cooled**250A at 100% duty cycle (CO₂) - 210A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS RAUCH-330 water-cooled**

r2500311	Torch MHS RAUCH-250 / 3m EURO central adapter exhaust hose ID38mm
r2500411	Torch MHS RAUCH-250 / 4m EURO central adapter exhaust hose ID38mm
r2500511	Torch MHS RAUCH-250 / 5m EURO central adapter exhaust hose ID38mm
r2500312	Torch MHS RAUCH-250 / 3m EURO central adapter exhaust hose ID32mm
r2500412	Torch MHS RAUCH-250 / 4m EURO central adapter exhaust hose ID32mm
r2500512	Torch MHS RAUCH-250 / 5m EURO central adapter exhaust hose ID32mm
R1	r2509101 Swan neck MHS RAUCH-250 with insulation and hexagon nut
R2	r2509102 Fume suction tube for torch body RAUCH-250/330
R3	r2509103 Fume suction tube with Swan neck, complete with all consumables (contact tip 1,0) without fume suction nozzle
R6	r2509121 Section of silicone/glas insulating hose ID12,6-L125mm heat resistant up to 200°C
R8	r9130012 Fume suction nozzle for RAUCH-250 / RAUCH-330 made of brass nickel plated, frontal suction, adjustable, complete with special o-ring high temperature resistant
R9	r9130013 Fume suction nozzle for RAUCH-250 / RAUCH-330 made of brass nickel plated, side suction, adjustable, complete with special o-ring high temperature resistant

RAUCH-handle complete with air-slider, switch and all sundries. Please order ball joint separately depending on the exhaust hose for either ID32mm or ID38mm.

R10	r9193811 RAUCH-handle red
R11	91912440 Ratio push button black
R12	91920703 M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91920702 Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
R13	r9193812 RAUCH-air slider black
R14	91912438 Ratio microswitch DC2 also fits RAUCH handle

Reel goods:**Prices are per meter and only applicable if a complete reel is purchased.**

R15	91902601 Meter control line 2x0,5mm ² silicone red (100m)
R15	91902602 Meter control line 2x0,5mm ² silicone white (100m)
N.i.	s5080001 Meter shrinking hose, heatresistant 2:1, ID50,8mm (5m)

R16	r9193803 RAUCH-ball joint fits hose ID32mm
R16	r9193804 RAUCH-ball joint fits hose ID38mm

**Cable assembly for EURO central adapter consisting of:
Exhaust hose, wire/power/gas conduit 35mm² and control line.**

R20	ven90311 Spare cable assembly RAUCH-250 / RAUCH-350-SC 3m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R20	ven90411 Spare cable assembly RAUCH-250 / RAUCH-350-SC 4m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R20	ven90511 Spare cable assembly RAUCH-250 / RAUCH-350-SC 5m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R20	ven90312 Spare cable assembly RAUCH-250 / RAUCH-350-SC 3m / without EURO central adapter exhaust hose ID32mm, complete with 2m leather protection sleeve

Welding-torch MIG-MAG air-cooled**250A at 100% duty cycle (CO2) - 210A at 100% duty cycle (mixed gas)**

Art.-No.		
R20	ven90412	Spare cable assembly RAUCH-250 / RAUCH-350-SC 4m / without EURO central adapter exhaust hose ID32mm, complete with 2m leather protection sleeve
R20	ven90512	Spare cable assembly RAUCH-250 / RAUCH-350-SC 5m / without EURO central adapter exhaust hose ID32mm, complete with 2m leather protection sleeve
R21	ven94311	Wire-/Power-/Gas conduit fits extraction torch 3m 35mm ²
R21	ven94411	Wire-/Power-/Gas conduit fits extraction torch 4m 35mm ²
R21	ven94511	Wire-/Power-/Gas conduit fits extraction torch 5m 35mm ²
R22	ven91992	Section of silicone/glas insulating hose ID12,6-L700mm heat resistant up to 200°C
R23	15912201	Lock-nut M10x1-L6mm for Swan neck
R27	91902901	Male connector cable-plug for machine side EURO central adapter
Reel goods:		
Prices are per meter and only applicable if a complete reel is purchased.		
N.i.	r3200001	Meter exhaust hose ID32mm (20m)
N.i.	r3800001	Meter exhaust hose ID38mm (20m)
N.i.	r3200011	Leather-covering ID-45mm appr. 2m long, for fume extraction hose ID-32mm
N.i.	r3800011	Leather-sleeve ID-45mm appr. 2m long, for fume extraction hose ID-38mm
R37	r3200311	Section of exhaust hose ID32mm / 3m
R37	r3200411	Section of exhaust hose ID32mm / 4m
R37	r3200511	Section of exhaust hose ID32mm / 5m
R37	r3800311	Section of exhaust hose ID38mm / 3m
R37	r3800411	Section of exhaust hose ID38mm / 4m
R37	r3800511	Section of exhaust hose ID38mm / 5m
R50	91700002	Fume central adapter connection-system for air-cooled torches complete. Consisting of:91700061 + 91700011 + 91700021 + 91700031 + 91700151 + 91700041 + 91900702
R50.2	91700061	Fume central adapter / fume protected area, to connect support lines, 2 halves complete with bushing and screws and 1 O-ring red
R50.3	91700011	Fume central adapter chamber rotatable 360°. 2 halves complete with bushing, screws and 2 O-rings (red).Fits to genuine Holch extraction connection adapter 45° and central adapter connection chamber
R50.4	91700021	Fume central adapter extraction connection 45°, 2 half pieces complete with bushes and screws.Only for genuine Holch central adapter rotatable extraction chamber
N.i.	91700031	Fume central adapter membrane for the genuine Holch fume protected central adapter connection chamber
50.6	91700151	Fume central adapter seal set for air cooled torches to seal the opening in the fume protected connection chamber
N.i.	r9131002	Special high heat resistant O-ring ID33mm-W2mm fits fume extraction connection chamber
N.i.	91700111	Special high heat resistant O-ring ID46mm-W2mm fits fume extraction chamber
R51	91900106	Central adapter spring contact-pins EURO central adapter
R51	91900101	Central adapter fixed contact-pins EURO central adapter
R52	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
R53	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
R54	91903001	Female connector cable-plug fits machine side EURO central adapter
R55	91900702	Terminal nut insulated fits EURO central adapter (widened fits RAUCH)

Welding-torch MIG-MAG air-cooled

250A at 100% duty cycle (CO₂) - 210A at 100% duty cycle (mixed gas)

Art.-No.		
R55.2	91700041	Strengthening for terminal nut EURO ventral adapter 2 halves complete with bushing and screws (black)
R61	ven91984	Hexagon nut M9 left hand thread SW14 with flange
R62	ven91985	Tooth lock washer AD-13-ID9mm
R64	ven98001	Tip/nozzle holder Rauch-250 / RAUCH-330
R70	83008401	Contact tip M8-L30-D10 0,8 CuCrZr
R70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
R70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
R70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
R70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
R70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
R70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
R80	ven93002	Gas nozzle RAUCH-250/330 conical-ID15mm with spatter protection
R81	ven93302	Gas nozzle RAUCH-250/330 cylindrical-ID18mm with spatter protection
R90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
R90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
R90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
R90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
R90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
R90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
R90	23481311	Spiral-liner green ID2,3-AD4,8 fits 3m / EURO central adapter
R90	23481411	Spiral-liner green ID2,3-AD4,8 fits 4m / EURO central adapter
R90	23481511	Spiral-liner green ID2,3-AD4,8 fits 5m / EURO central adapter
R90	25451311	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 3m / EURO central adapter
R90	25451411	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 4m / EURO central adapter
R90	25451511	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 5m / EURO central adapter
R92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
R92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
R92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
R92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
R92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
R92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
R95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
R96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
R97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS RAUCH-350-SC air-cooled

Fume extraction torch

Product information:

At the pistol end the very light TPE extraction hose is protected by approx. 2m leather cover hose.
Damage caused by splashes or sharp edges is thus prevented.

The factory standard gear is marked in red.



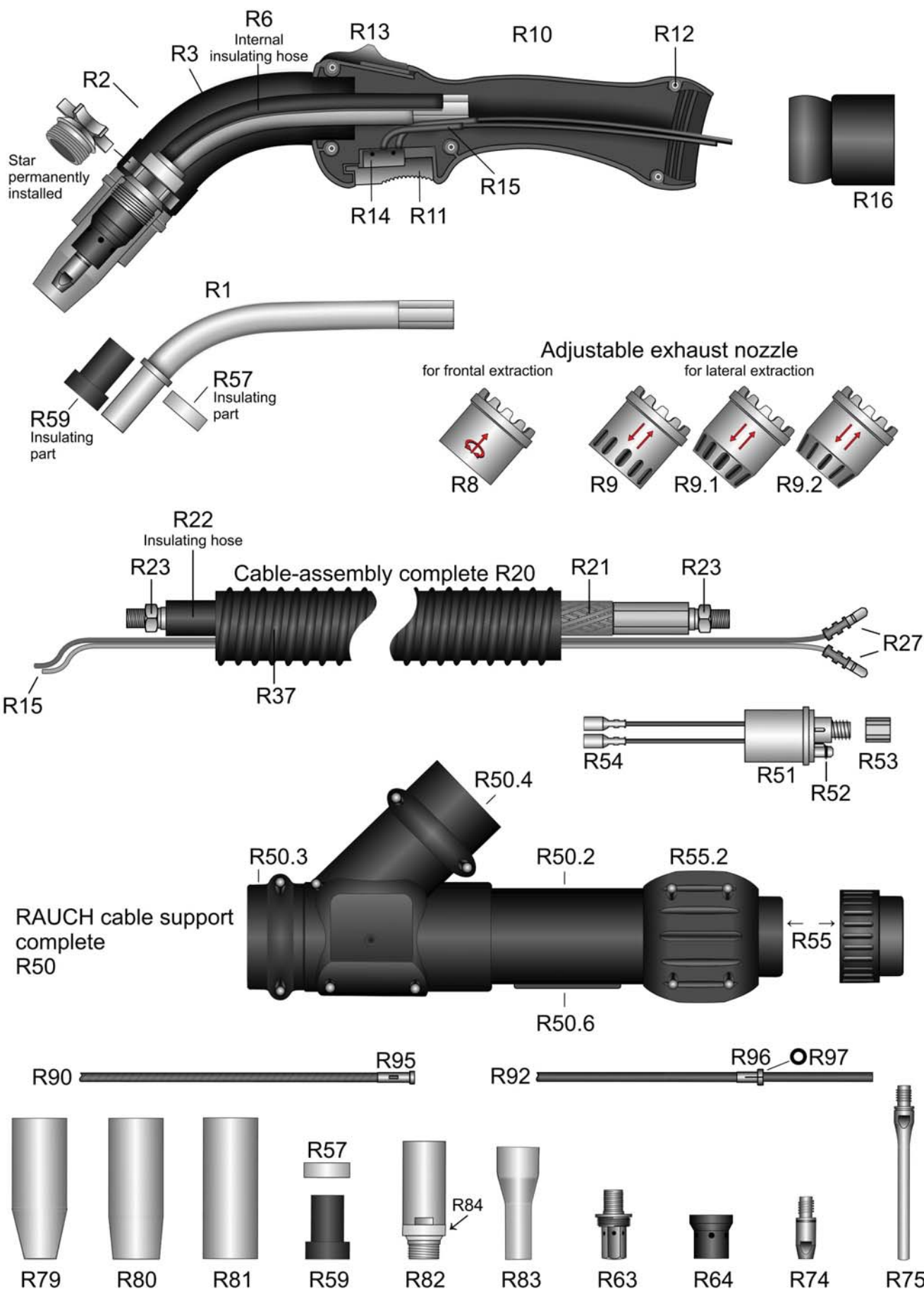
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MHS RAUCH-350-SC air-cooled

350 Ampere at 100% duty cycle (CO₂) - 310 Ampere at 100% duty cycle (mixed gas)



HSN 869-5

Welding-torch MIG-MAG air-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS RAUCH-400 water-cooled**

r3500311	Torch MHS RAUCH-350-SC / 3m EURO central adapter exhaust hose ID38mm
r3500411	Torch MHS RAUCH-350-SC / 4m EURO central adapter exhaust hose ID38mm
r3500511	Torch MHS RAUCH-350-SC / 5m EURO central adapter exhaust hose ID38mm
R1	r3509101 Swan neck MHS RAUCH-350-SC
R2	r4509102 Fume suction tube for torch body RAUCH-350-SC/450-SC
R3	r3509103 Fume suction tube with Swan neck, complete with all consumables (contact tip 1,0) without fume suction nozzle
R6	r2509121 Section of silicone/glas insulating hose ID12,6-L125mm heat resistant up to 200°C
R8	r9130001 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of aluminium, frontal suction, adjustable, complete with special o-ring high temperature resistant
R8	r9130002 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of brass nickel plated, frontal suction, adjustable, complete with special o-ring high temperature resistant
R9	r9130003 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of brass nickel plated, side suction, adjustable, complete with special o-ring high temperature resistant
R9.1	r9130004 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of brass nickel plated, conical, wide suction slots, complete with special o-ring high temperature resistant
R9.2	r9130005 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of brass nickel plated, conical, narrow suction slots, complete with special o-ring high temperature resistant
N.i.	r9131001 Special high heat resistant O-ring fits fume suction nozzle RAUCH-350-SC / RAUCH-450-SC

RAUCH-handle complete with air-slider, switch and all sundries. Please order ball joint separately.

R10	r9193811 RAUCH-handle red
R11	91912439 Push button red for Ratio handle also fits RAUCH handle
R12	91920703 M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91920702 Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
R13	r9193812 RAUCH-air slider black
R14	91912438 Ratio microswitch DC2 also fits RAUCH handle

Reel goods:**Prices are per meter and only applicable if a complete reel is purchased.**

R15	91902601 Meter control line 2x0,5mm ² silicone red (100m)
R15	91902602 Meter control line 2x0,5mm ² silicone white (100m)
N.i.	s5080001 Meter shrinking hose, heatresistant 2:1, ID50,8mm (5m)

R16	r9193804 RAUCH-ball joint fits hose ID38mm
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**Cable assembly for EURO central adapter consisting of:
Exhaust hose, wire/power/gas conduit 35mm² and control line.**

R20	ven90311 Spare cable assembly RAUCH-250 / RAUCH-350-SC 3m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R20	ven90411 Spare cable assembly RAUCH-250 / RAUCH-350-SC 4m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R20	ven90511 Spare cable assembly RAUCH-250 / RAUCH-350-SC 5m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R21	ven94311 Wire-/Power-/Gas conduit fits extraction torch 3m 35mm ²
R21	ven94411 Wire-/Power-/Gas conduit fits extraction torch 4m 35mm ²

Welding-torch MIG-MAG air-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
R21	ven94511	Wire-/Power-/Gas conduit fits extraction torch 5m 35mm ²
R22	ven91992	Section of silicone/glas insulating hose ID12,6-L700mm heat resistant up to 200°C
R23	15912201	Lock-nut M10x1-L6mm for Swan neck
R27	91902901	Male connector cable-plug for machine side EURO central adapter
Reel goods:		
Prices are per meter and only applicable if a complete reel is purchased.		
N.i.	r3800001	Meter exhaust hose ID38mm (20m)
N.i.	r3800011	Leather-sleeve ID-45mm appr. 2m long, for fume extraction hose ID-38mm
R37	r3800311	Section of exhaust hose ID38mm / 3m
R37	r3800411	Section of exhaust hose ID38mm / 4m
R37	r3800511	Section of exhaust hose ID38mm / 5m
R50	91700002	Fume central adapter connection-system for air-cooled torches complete. Consisting of:91700061 + 91700011 + 91700021 + 91700031 + 91700151 + 91700041 + 91900702
R50.2	91700061	Fume central adapter / fume protected area, to connect support lines, 2 halves complete with bushing and screws and 1 O-ring red
R50.3	91700011	Fume central adapter chamber rotatable 360°. 2 halves complete with bushing, screws and 2 O-rings (red).Fits to genuine Holch extraction connection adapter 45° and central adapter connection chamber
R50.4	91700021	Fume central adapter extraction connection 45°, 2 half pieces complete with bushes and screws.Only for genuine Holch central adapter rotatable extraction chamber
N.i.	91700031	Fume central adapter membrane for the genuine Holch fume protected central adapter connection chamber
50.6	91700151	Fume central adapter seal set for air cooled torches to seal the opening in the fume protected connection chamber
N.i.	r9131002	Special high heat resistant O-ring ID33mm-W2mm fits fume extraction connection chamber
N.i.	91700111	Special high heat resistant O-ring ID46mm-W2mm fits fume extraction chamber
R51	91900106	Central adapter spring contact-pins EURO central adapter
R51	91900101	Central adapter fixed contact-pins EURO central adapter
R52	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
R53	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
R54	91903001	Female connector cable-plug fits machine side EURO central adapter
R55	91900702	Terminal nut insulated fits EURO central adapter (widened fits RAUCH)
R55.2	91700041	Strengthening for terminal nut EURO ventral adapter2 halves complete with bushing and screws (black)
R57	r9120002	Peek insulation for RAUCH-350-SC / RAUCH-450-SC (back)
R59	r9121001	HT-insulation black power fits RAUCH-350-SC / RAUCH-450-SC (front) with long cylinder
R63	r9800002	Contact tip holder M8 with OT-M16x1 fits gas diffusor
R64	r9120004	HT-gasdiffusor black power with IT-M16x1 and drilling 18mm black
R74	83008401	Contact tip M8-L30-D10 0,8 CuCrZr
R74	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
R74	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
R74	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
R74	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire

Welding-torch MIG-MAG air-cooled

350A at 100% duty cycle (CO₂) - 310A at 100% duty cycle (mixed gas)

Art.-No.		
R74	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
R74	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
R75	88551241	Narrow gap-contact tip M8-L85,5-D10 turned down to 6mm 1,2 CuCrZr
R79	r9310001	Screwable gas nozzle conical ID12mm
R80	r9300001	Screwable gas nozzle conical ID16mm
R81	r9330001	Screwable gas nozzle cylindric ID21mm
R82	r4509362	Narrow-gap lower section with PTFE sealing ring for RAUCH-350-SC / RAUCH-450-SC
R83	r4509365	Narrow gap gas-nozzle ID12-OD12mm / length 62,5mm for narrow-gap lower section RAUCH-350-SC / RAUCH-450-SC
R84	r4509363	PTFE sealing ring for narrow-gap lower section RAUCH-350-SC / RAUCH-450-SC
R90	15451311	Guide spiral-line blue ID1,5-AD4,5 fits 3m / EURO central adapter
R90	15451411	Guide spiral-line blue ID1,5-AD4,5 fits 4m / EURO central adapter
R90	15451511	Guide spiral-line blue ID1,5-AD4,5 fits 5m / EURO central adapter
R90	20451311	Guide spiral-line red ID2,0-AD4,5 fits 3m / EURO central adapter
R90	20451411	Guide spiral-line red ID2,0-AD4,5 fits 4m / EURO central adapter
R90	20451511	Guide spiral-line red ID2,0-AD4,5 fits 5m / EURO central adapter
R90	23481311	Spiral-liner green ID2,3-AD4,8 fits 3m / EURO central adapter
R90	23481411	Spiral-liner green ID2,3-AD4,8 fits 4m / EURO central adapter
R90	23481511	Spiral-liner green ID2,3-AD4,8 fits 5m / EURO central adapter
R90	25451311	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 3m / EURO central adapter
R90	25451411	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 4m / EURO central adapter
R90	25451511	Flatwire spiral-liner yellow ID2,5-AD4,5 fits 5m / EURO central adapter
R92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
R92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
R92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
R92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
R92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
R92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
R92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
R92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
R92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
R92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
R92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
R92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
R95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
R96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm

Welding-torch MIG-MAG air-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
R96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
R97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 81-D water-cooled

The factory standard gear is marked in red.



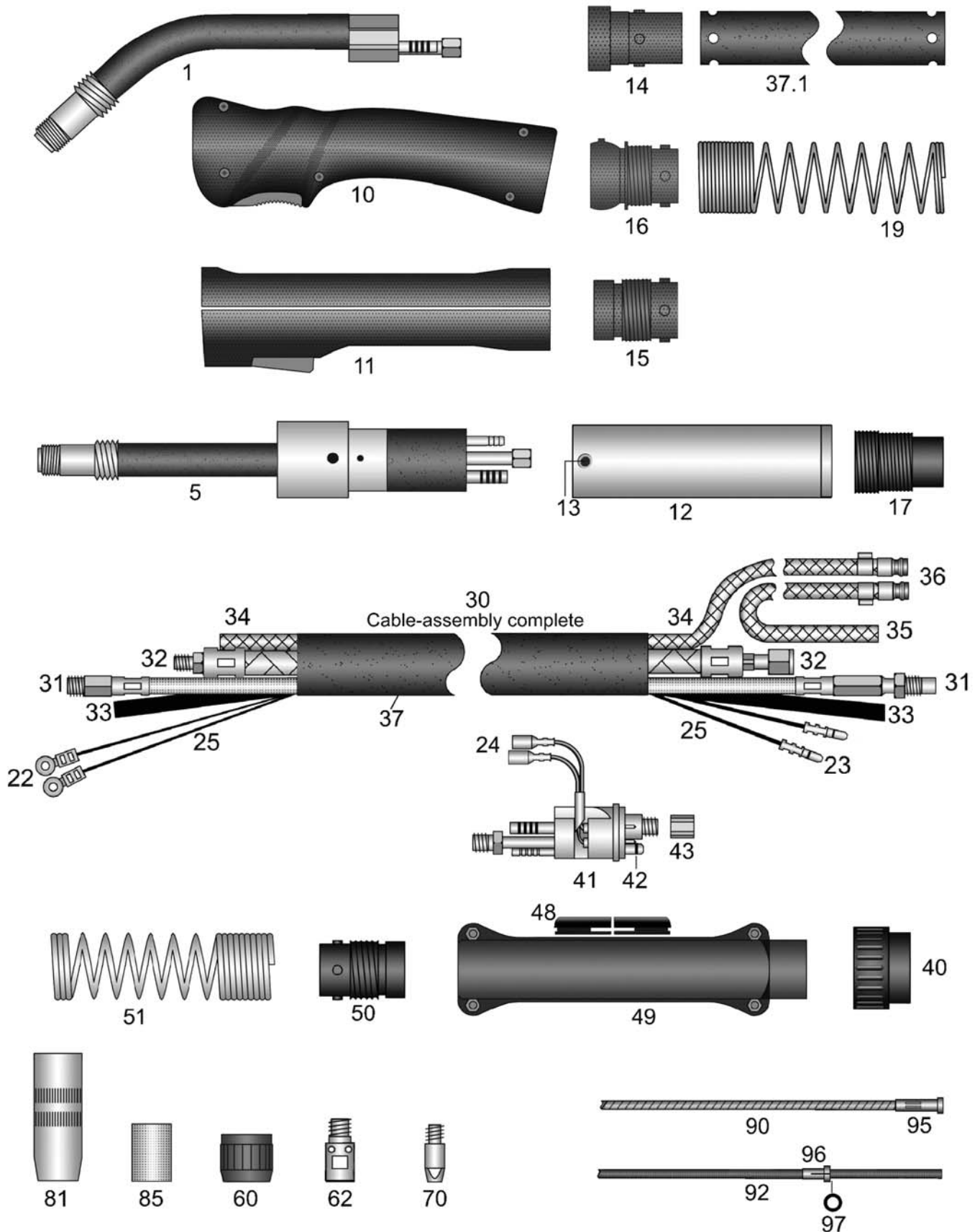
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MHS 81-D water-cooled

400 Ampere at 100% duty cycle (CO₂) - 350 Ampere at 100% duty cycle (mixed gas)



Operating instruction

Screw laminated fabric-tension sleeve right-hand thread (60) down until it goes no further. Then, screw down heavy duty insulating sleeve left-hand thread (85) until it goes no further. Slide the Gas nozzle (81) over the insulating sleeve (85). Now, screw back the laminated fabric-tension sleeve (60). The insulating sleeve (85) is hereby pushed outside and holds the gas nozzle.

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Welding-torch MIG-MAG water-cooled**400A at 100% duty cycle (CO2) - 350A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 82-D gas-cooled**

81000311	Torch MHS 81-D / 3m EURO central adapter
81000411	Torch MHS 81-D / 4m EURO central adapter
81000511	Torch MHS 81-D / 5m EURO central adapter
81500311	AUTomatic-torch MHS 81-D / 3m EURO central adapter

**For torches without EURO central-adapter the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

81000301	Torch MHS 81-D / 3m
81000401	Torch MHS 81-D / 4m
81000501	Torch MHS 81-D / 5m
81500301	AUTomatic-torch MHS 81-D-M8 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch body and AUTomatic torch body with rubber insulation, very massive power conduit, max. cooling water conduits, complete with contact tip holder M8.

1	81910001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	81915001	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint

Welding-torch MIG-MAG water-cooled**400A at 100% duty cycle (CO2) - 350A at 100% duty cycle (mixed gas)**

Art.-No.		
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter

Welding-torch MIG-MAG water-cooled**400A at 100% duty cycle (CO2) - 350A at 100% duty cycle (mixed gas)**

Art.-No.		
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	81912001	Laminated fabric-tension sleeve right-hand thread
62	92981001	Contact tip holder IT-M8 AD13-L28mm
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
81	81931001	Gas nozzle conical-ID17mm
85	81912101	Laminated fabric-tension sleeve left-hand thread
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**400A at 100% duty cycle (CO₂) - 350A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 92-D water-cooled

The factory standard gear is marked in red.



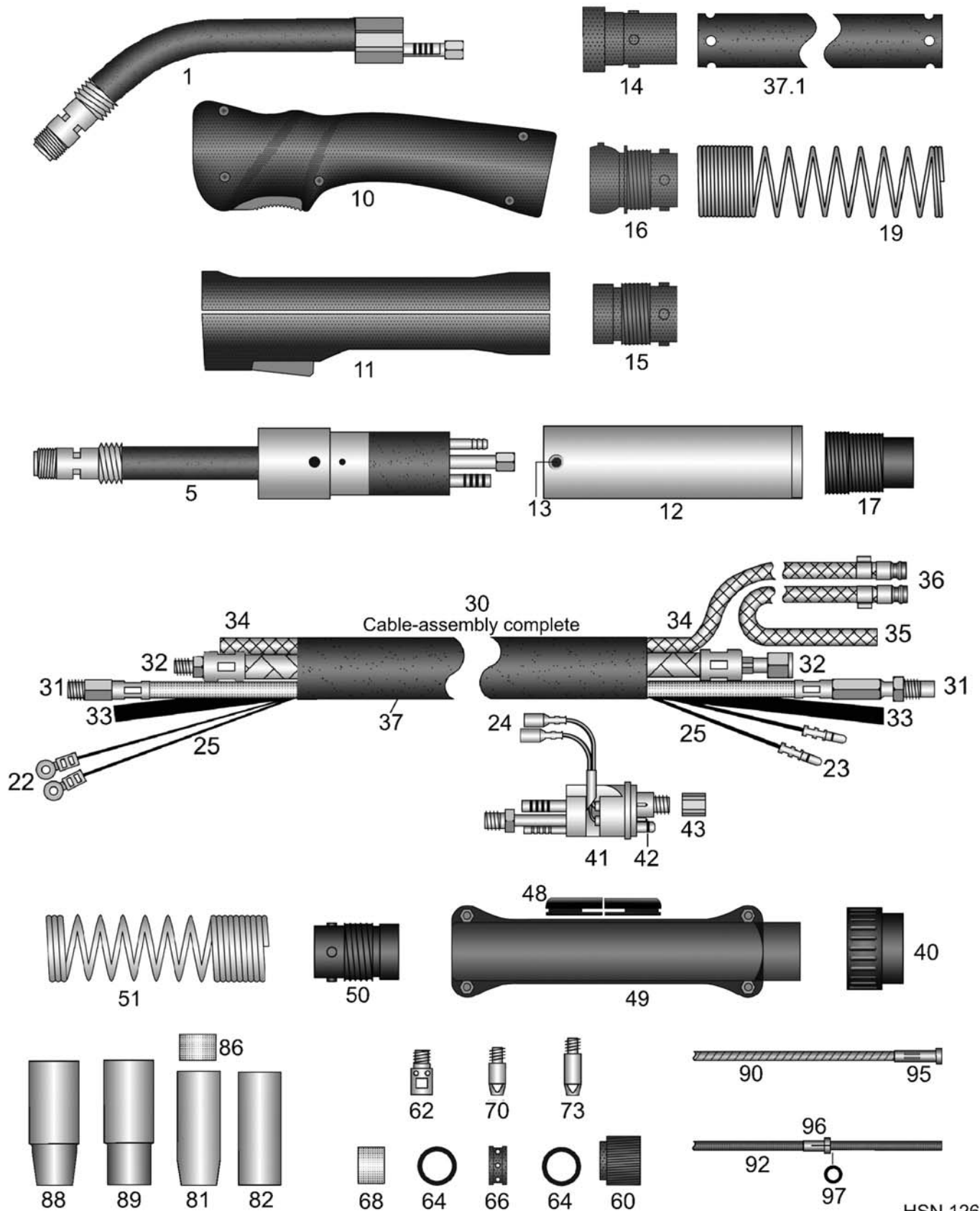
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MHS 92-D water-cooled

450 Ampere at 100% duty cycle (CO₂) - 400 Ampere at 100% duty cycle (mixed gas)



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Operating instruction

Screw laminated fabric-tension sleeve right-hand thread (60) down until it goes no further. Then, mount rubber flating (64), water distributor (66) and a second rubber flating (64). Screw down insulating sleeve left-hand thread (68) until it goes no further. Slide insulation for gas nozzle (86) into the gas nozzle (81,82,88,89). Slide the gas nozzle over the cooling system. Now, screw back the laminated fabric-tension sleeve. The rubber flatings are being compressed and pushed to the outside, sealing the water circulation system and holding the gas nozzle.

Welding-torch MIG-MAG water-cooled**450A at 100% duty cycle (CO2) - 400A at 100% duty cycle (mixed gas)**

Art.-No.	
92000311	Torch MHS 92-D / 3m EURO central adapter
92000411	Torch MHS 92-D / 4m EURO central adapter
92000511	Torch MHS 92-D / 5m EURO central adapter
92500311	AUTomatic-torch MHS 92-D / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

92000301	Torch MHS 92-D / 3m
92000401	Torch MHS 92-D / 4m
92000501	Torch MHS 92-D / 5m
92500301	AUTomatic-torch MHS 92-D-M8 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

91900102	Adapter EURO central adapter fits power source with Dinse central adapter
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Torch body and AUTomatic torch body with rubber insulation, very massive power conduit, max. cooling water conduits, complete with contact tip holder M8.

1	92910001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	92915001	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
o.A	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side

Welding-torch MIG-MAG water-cooled**450A at 100% duty cycle (CO2) - 400A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**450A at 100% duty cycle (CO2) - 400A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	92912401	Laminated fabric-tension sleeve with right hand thread
62	92981001	Contact tip holder IT-M8 AD13-L28mm
64	92912201	Flat rubber ring ID17-W2,5mm
66	92912301	Water distributor
68	92912001	Insulating sleeve with left hand thread
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
HD-contact tips M8x36 fits HD-gas nozzle (pos.88 + pos.89) with coolant-chamber		
73	83610401	HD-contact tip M8-L36-AD10 CuCrZr 1,0
73	83612401	HD-contact tip M8-L36-AD10 CuCrZr 1,2
73	83614401	HD-contact tip M8-L36-AD10 CuCrZr 1,4
73	83616401	HD-contact tip M8-L36-AD10 CuCrZr 1,6
73	83620401	HD-contact tip M8-L36-AD10 CuCrZr 2,0
73	83624401	HD-contact tip M8-L36-AD10 CuCrZr 2,4
73	83628401	HD-contact tip M8-L36-AD10 CuCrZr 2,8
73	83608a41	HD-contact tip M8-L36-D10 CuCrZr 0,8-A for aluminium wire
73	83610a41	HD-contact tip M8-L36-D10 CuCrZr 1,0-A for aluminium wire
73	83612a41	HD-contact tip M8-L36-D10 CuCrZr 1,2-A for aluminium wire
73	83618301	HD-contact tip M8-L36-D10 1,6A nickel-plated for aluminium wire

Welding-torch MIG-MAG water-cooled**450A at 100% duty cycle (CO₂) - 400A at 100% duty cycle (mixed gas)**

Art.-No.		
81	92930001	Gas nozzle conical-ID17mm
82	92933001	Gas nozzle cylindric-ID21mm
86	92912101	Insulating fits gas nozzle
88	92933021	HD-gas nozzle with coolant-chamber cylindric-ID21mm fits HD-contact tips M8x36
89	92930041	HD-gas nozzle with coolant-chamber conical-ID17mm fits HD-contact tips M8x36
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 95-D water-cooled

The factory standard gear is marked in red.



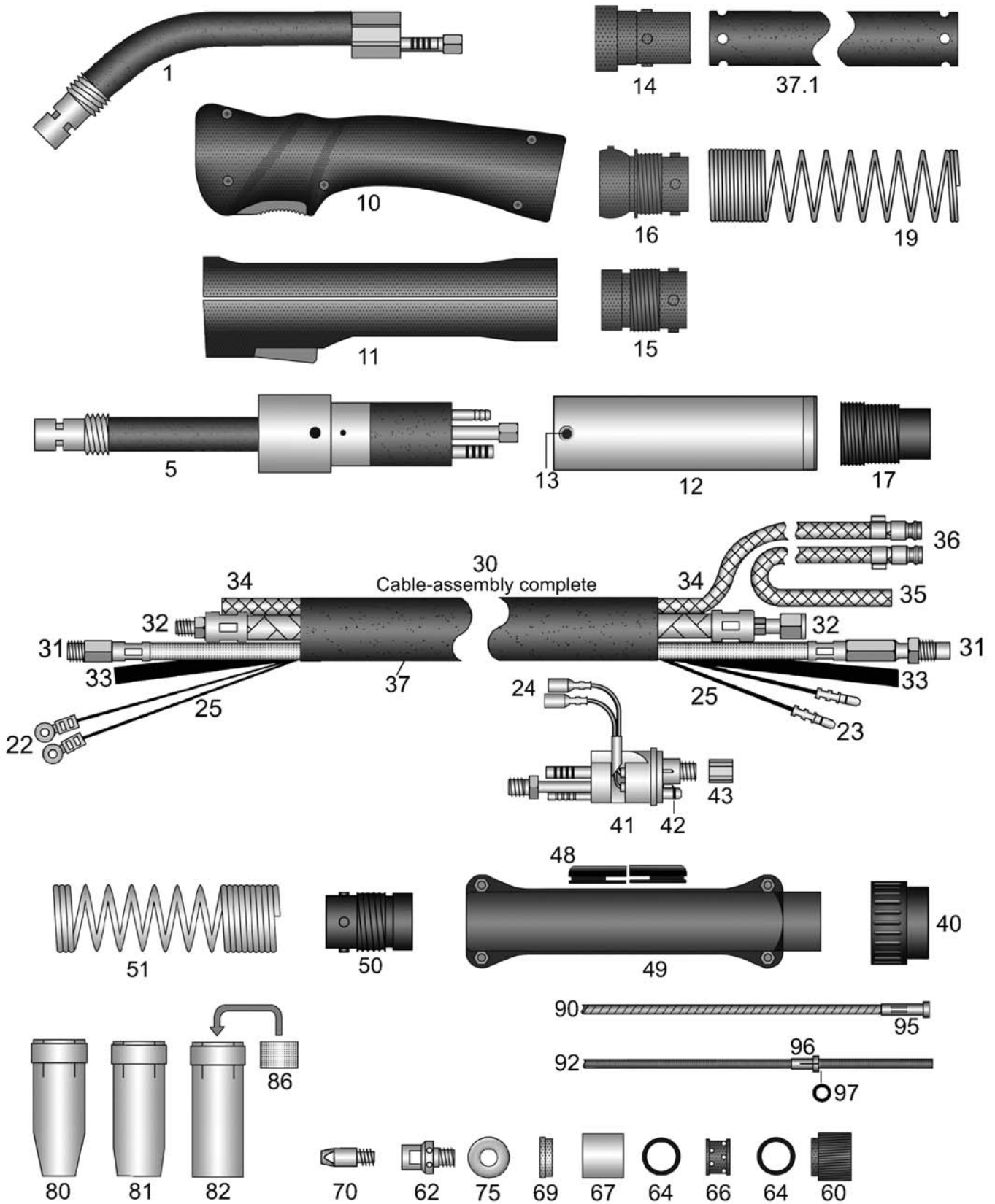
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MHS 95-D water-cooled

450 Ampere at 100% duty cycle (CO₂) - 400 Ampere at 100% duty cycle (mixed gas)



Operating instruction

Screw laminated fabric-tension sleeve right-hand thread (60) down until it goes no further. Then, mount rubber flating (64), water distributor (66) and a second rubber flating (64). Slide brazen sleeve over the so assembled parts against the laminated fabric-tension sleeve. Now, mount the plug insulating sleeve (69) and the support shim (75). Screw in the contact tip holder (62) and tighten with jaw wrench. Now, screw back the laminated fabric-tension sleeve. The rubber flatirings are being compressed and pushed to the outside, sealing the water circulation system and holding the brazen sleeve. Screw in contact tip and mount gas nozzle (80,81,82) with insulation (86).

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Welding-torch MIG-MAG water-cooled**450A at 100% duty cycle (CO2) - 400A at 100% duty cycle (mixed gas)**

Art.-No.	
95000311	Torch MHS 95-D / 3m EURO central adapter
95000411	Torch MHS 95-D / 4m EURO central adapter
95000511	Torch MHS 95-D / 5m EURO central adapter
95500311	AUTomatic-torch MHS 95-D / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

95000301	Torch MHS 95-D / 3m
95000401	Torch MHS 95-D / 4m
95000501	Torch MHS 95-D / 5m
95500301	AUTomatic-torch MHS 95-D / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

91900102	Adapter EURO central adapter fits power source with Dinse central adapter
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Torch body and AUTomatic torch body with rubber insulation, very massive power conduit, and max. cooling water conduits.

1	95910001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	95915001	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
o.A	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side

Welding-torch MIG-MAG water-cooled**450A at 100% duty cycle (CO2) - 400A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**450A at 100% duty cycle (CO2) - 400A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	92912401	Laminated fabric-tension sleeve with right hand thread
62	92981011	Contact tip holder IT-M8 AD17-L28mm
64	92912201	Flat rubber ring ID17-W2,5mm
66	95912501	Water distributor
67	95912701	Brass Water-jacket
69	95912601	Insulating sleeve plugged complete with support shim
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
75	92982012	Contact tip holder-support shim nickel-plated
80	95930021	Gas nozzle conical-ID14mm (long cone)
81	95930001	Gas nozzle conical-ID17mm
82	95933001	Gas nozzle cylindric-21mm
86	92912101	Insulating fits gas nozzle
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter

Welding-torch MIG-MAG water-cooled**450A at 100% duty cycle (CO₂) - 400A at 100% duty cycle (mixed gas)**

Art.-No.		
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 222-520 water-cooled

The factory standard gear is marked in red.



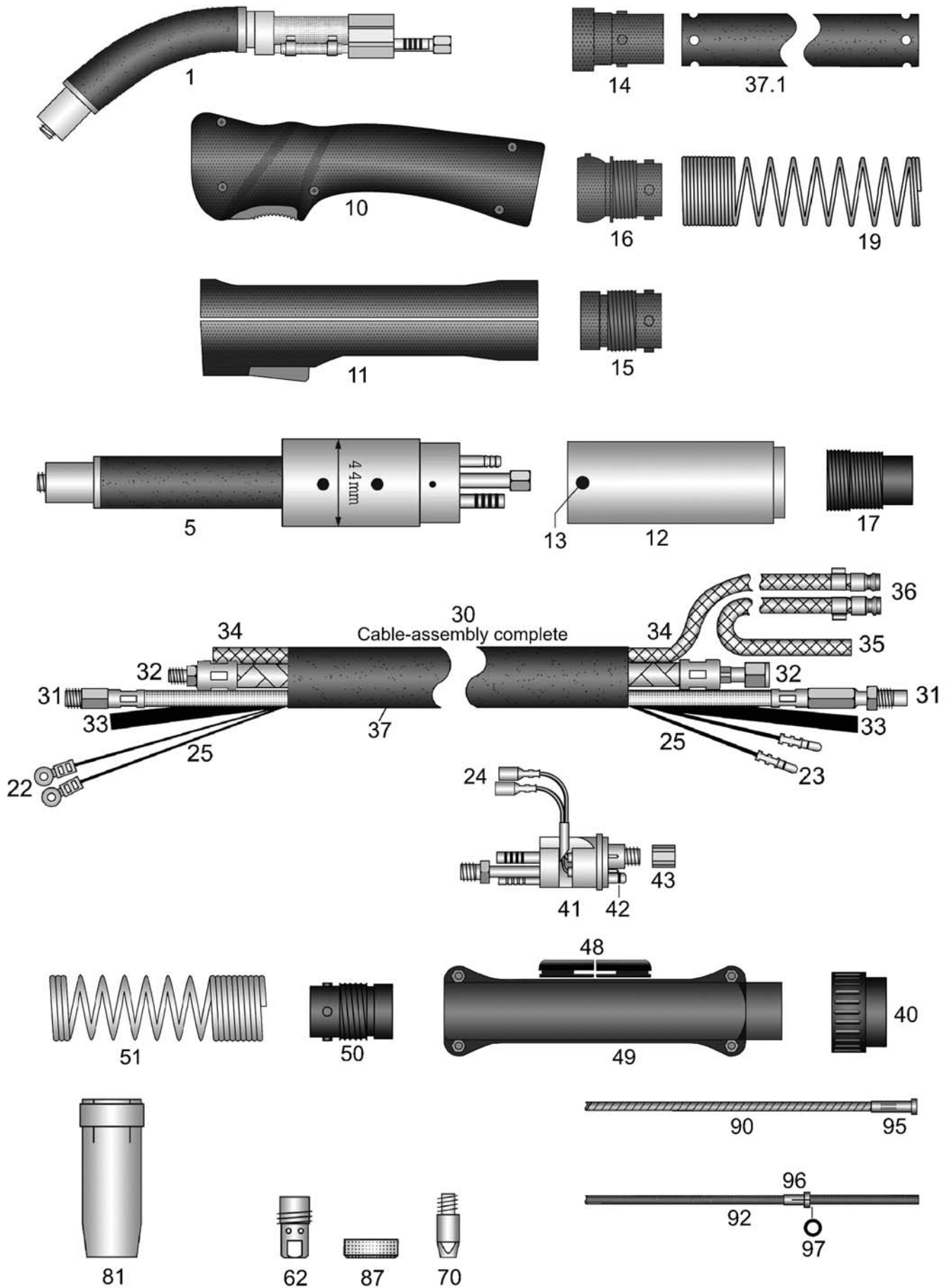
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MHS 222-520 with Cascade cooling system

500 Ampere at 100% duty cycle (CO₂) - 450 Ampere at 100% duty cycle (mixed gas)



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Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)****Art.-No.**

22200311	Torch MHS 222-520 / 3m EURO central adapter
22200411	Torch MHS 222-520 / 4m EURO central adapter
22200511	Torch MHS 222-520 / 5m EURO central adapter
22250311	AUTomatic-torch MHS 222-520 / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

22200301	Torch MHS 222-520 / 3m
22200401	Torch MHS 222-520 / 4m
22200501	Torch MHS 222-520 / 5m
22250301	AUTomatic-torch MHS 222-520 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch body and AUTomatic torch body with 2 circuit cooling (cascade cooling system), complete with contact tip holder and splatter protection.

1	22291001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	22291501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912537	Ratio-handle 21mm ball joint
10	91912437	Ratio-handle 21mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912104	Industry-handle 21mm ball joint
11	91912433	Industry-handle 21mm standard
o.A	91920412	Switch-set for industry-handle for 21mm (9 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912923	AUT handle tube, aluminium-cladded AD44mm
13	91912912	Counter sunk bolt M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
62	22298001	Contact tip holder M8-cylindric
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
81	22293002	Gas nozzle conical-ID13mm
81	22293001	Gas nozzle conical-ID17mm
87	22291201	Insulating
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.	
92	20406311 PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411 PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511 PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311 PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411 PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511 PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311 PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411 PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511 PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002 Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001 Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721 Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111 Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121 Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131 O-ring ID3,5-W1,5 fits core liners
N.i.	91906112 Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 240-18-D water-cooled

The factory standard gear is marked in red.



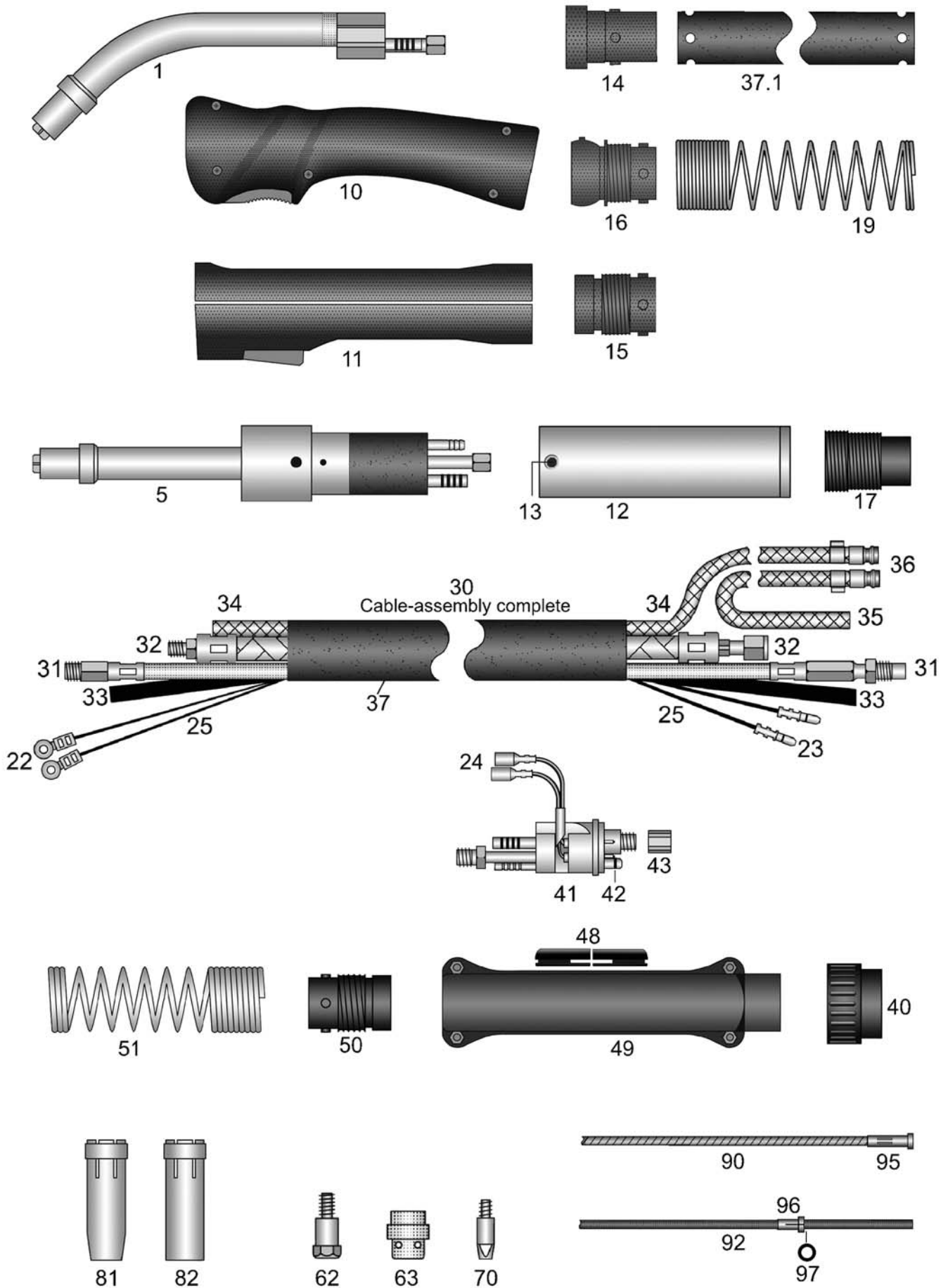
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MHS 240-18-D water-cooled

300 Ampere at 100% duty cycle (CO₂) - 270 Ampere at 100% duty cycle (mixed gas)



HSN 129

Welding-torch MIG-MAG water-cooled**300A at 100% duty cycle (CO2) - 270A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 24-KD gas-cooled**

24300311	Torch MHS 240-18-D / 3m EURO central adapter
24300411	Torch MHS 240-18-D / 4m EURO central adapter
24300511	Torch MHS 240-18-D / 5m EURO central adapter
24350311	AUTomatic-torch MHS 240-18-D / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

24300301	Torch MHS 240-18-D / 3m
24300401	Torch MHS 240-18-D / 4m
24300501	Torch MHS 240-18-D / 5m
24350301	AUTomatic-torch MHS 240-18-D / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch body and AUTomatic torch body with teflon insulation, nickel-coated brazen outer tube, very massive power conduit,max. cooling water conduits, complete with contact tip holder M8 and gas diffusor.

1	24391001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	24391501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint

Welding-torch MIG-MAG water-cooled**300A at 100% duty cycle (CO2) - 270A at 100% duty cycle (mixed gas)**

Art.-No.		
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
<p>Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!</p>		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
<p>Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"</p>		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
<p>Supply lines for AUTomatic torches.</p>		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
<p>Reel goods: Prices are per meter and only applicable if a complete reel is purchased.</p>		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter

Welding-torch MIG-MAG water-cooled**300A at 100% duty cycle (CO2) - 270A at 100% duty cycle (mixed gas)**

Art.-No.		
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
62	24980001	Contact tip holder IT-M6 SW10-L26mm
63	24912001	Gas diffusor Keripol white
63	24912004	HT-gasdiffusor black power
63	24912003	Ceramic-gasdiffusor
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62814001	Contact tip M6-L28-AD8 1,4
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62814301	Contact tip M6-L28-AD8 1,4 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
81	24930001	Gas nozzle conical-ID12,5mm
82	24930301	Gas nozzle cylindric-ID17mm
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter

Welding-torch MIG-MAG water-cooled**300A at 100% duty cycle (CO2) - 270A at 100% duty cycle (mixed gas)**

Art.-No.		
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 312 water-cooled

The factory standard gear is marked in red.



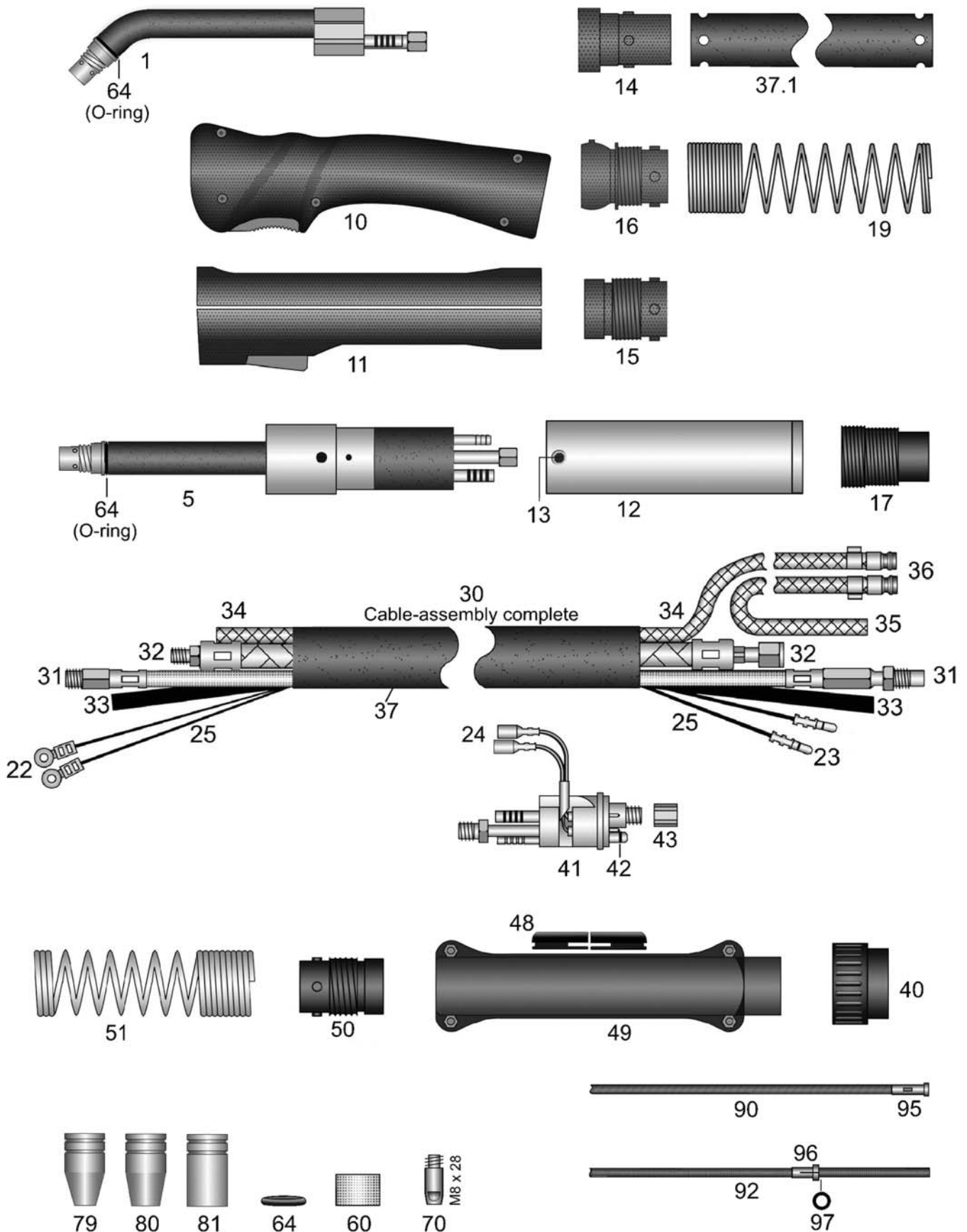
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MHS 312 water-cooled

320 Ampere at 60% duty cycle (CO₂) - 280 Ampere at 60% duty cycle (mixed gas)



HSN 137B

Welding-torch MIG-MAG water-cooled**320A at 60% duty cycle (CO₂) - 280A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS Manni-164 gas-cooled**

31200311	Torch MHS 312 / 3m EURO central adapter
31200411	Torch MHS 312 / 4m EURO central adapter
31200511	Torch MHS 312 / 3m EURO central adapter
31205311	AUTomatic-torch MHS 312 / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

31200301	Torch MHS 312 / 3m
31200401	Torch MHS 312 / 4m
31200501	Torch MHS 312 / 5m
31205301	AUTomatic-torch MHS 312 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch bodies and AUTomatic torch bodies with rubber insulation, very massive power conduit and small bending radius, max. cooling water conduits, small bending radius, complete with o-ring and teflon protection sleeve.

1	31291001	Torch body 312
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	31291503	AUTomatic-torch body 312

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint

Welding-torch MIG-MAG water-cooled**320A at 60% duty cycle (CO₂) - 280A at 60% duty cycle (mixed gas)**

Art.-No.		
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter

Welding-torch MIG-MAG water-cooled**320A at 60% duty cycle (CO2) - 280A at 60% duty cycle (mixed gas)**

Art.-No.		
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	35291201	Teflon insulator
64	31289001	O-ring ID-13mm-W4mm
70	82808401	Contact tip M8-L28-D10 CuCrZr 0,8 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82810401	Contact tip M8-L28-D10 CuCrZr 1,0 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82812401	Contact tip M8-L28-D10 CuCrZr 1,2 (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse)
70	82808a41	Contact tip M8-L28-D10 0,8-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
70	82810a41	Contact tip M8-L28-D10 1,0-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
70	82812a41	Contact tip M8-L28-D10 1,2-A CuCrZr (MHS Manni-164 + LURCHI-220/320 + MHS 312 + Dinse) for aluminium wire
79	3129301M	Gas nozzle screwable M14 conical-ID13mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
80	3129302M	Gas nozzle screwable M14 conical-ID15mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
81	31293001	Gas nozzle screwable M14 cylindric-ID18mm L-40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
N.i.	3129303M	Ceramic-screwable gas nozzle M14 conical-ID15mm L40mm (MHS Manni-164 + LURCHI-220 / LURCHI-320 + MHS 312)
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**320A at 60% duty cycle (CO2) - 280A at 60% duty cycle (mixed gas)**

Art.-No.		
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS Mini-316 water-cooled

The factory standard gear is marked in red.



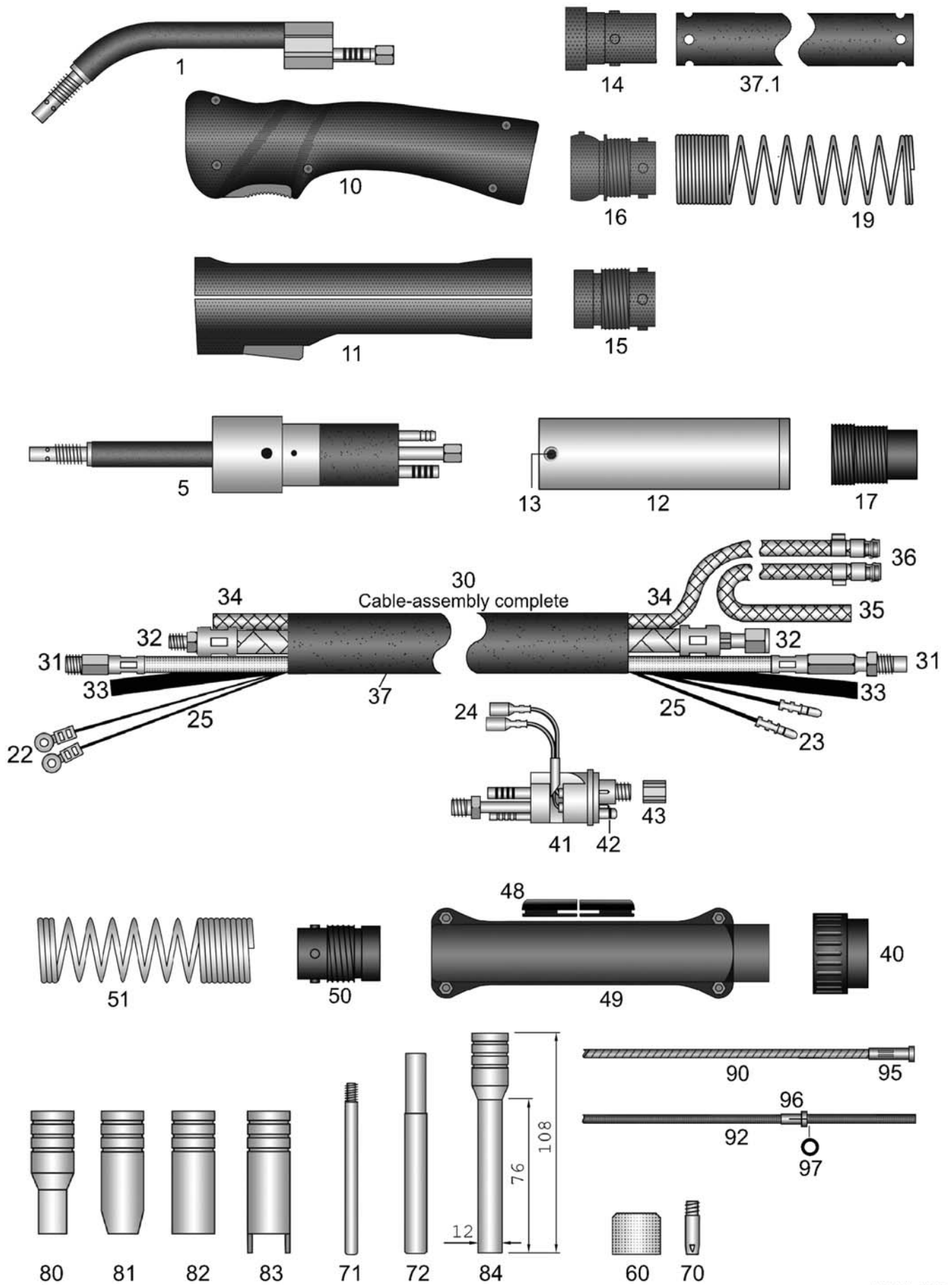
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MHS Mini-316 water-cooled

270 Ampere at 60% duty cycle (CO₂) - 230 Ampere at 60% duty cycle (mixed gas)



HSN 140

Welding-torch MIG-MAG water-cooled**270A at 60% duty cycle (CO₂) - 230A at 60% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 15-CLOU gas-cooled**

31600311	Torch MHS Mini-316 / 3m EURO central adapter screwable M11
31600411	Torch MHS Mini-316 / 4m EURO central adapter screwable M11
31600511	Torch MHS Mini-316 / 5m EURO central adapter screwable M11
31650311	AUTomatic-torch MHS Mini-316 / 3m EURO central adapter screwable M11

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

31600301	Torch MHS Mini-316 / 3m screwable M11
31600401	Torch MHS Mini-316 / 4m screwable M11
31600501	Torch MHS Mini-316 / 5m screwable M11
31650301	AUTomatic-torch MHS Mini-316 / 3m screwable M11

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch body and AUTomatic torch body with rubber insulation,, very massive power conduit,max. cooling water conduits, complete with teflon protection sleeve.

1	31691001	Torch body screwable M11
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	31691501	AUTomatic-torch body screwable M11

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint

Welding-torch MIG-MAG water-cooled**270A at 60% duty cycle (CO₂) - 230A at 60% duty cycle (mixed gas)**

Art.-No.		
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter

Welding-torch MIG-MAG water-cooled**270A at 60% duty cycle (CO₂) - 230A at 60% duty cycle (mixed gas)**

Art.-No.		
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	31691201	Teflon protection sleeve ID17mm
N.i.	31698001	Soldered in contact tip/nozzle f. screw. gas nozzle-M11
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
71	68310101	Narrow-gap contact tip M6-L83-AD6 0,8-1,0 nickel-plated
72	91921801	Centering wrench for Narrow-gap contact tip M6-L83-D6
80	16093341	Narrow-gap gas nozzle screwable M11 with cylinder ID10-L21mm
81	16093001	Gas nozzle conical-ID12mm long insulation screwable M11
82	16093301	Gas nozzle cylindric-ID16mm long insulation screwable M11
83	16093501	Spotweld gas nozzle screwable M11
84	16093351	Narrow-gap gas nozzle screwable M11 with cylinder ID10-L76mm
Spirals and liners also available in other sizes on inquiry!		
90	19390311	Guide spiral-line ID1,9-AD3,9 fits 3m / EURO central adapter
90	19390411	Guide spiral-line ID1,9-AD3,9 fits 4m / EURO central adapter
90	19390511	Guide spiral-line ID1,9-AD3,9 fits 5m / EURO central adapter
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**270A at 60% duty cycle (CO2) - 230A at 60% duty cycle (mixed gas)**

Art.-No.		
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS RAUCH-330 water-cooled

Fume extraction torch

Product information:

At the pistol end the very light TPE extraction hose is protected by approx. 2m leather cover hose.
Damage caused by splashes or sharp edges is thus prevented.

The factory standard gear is marked in red.



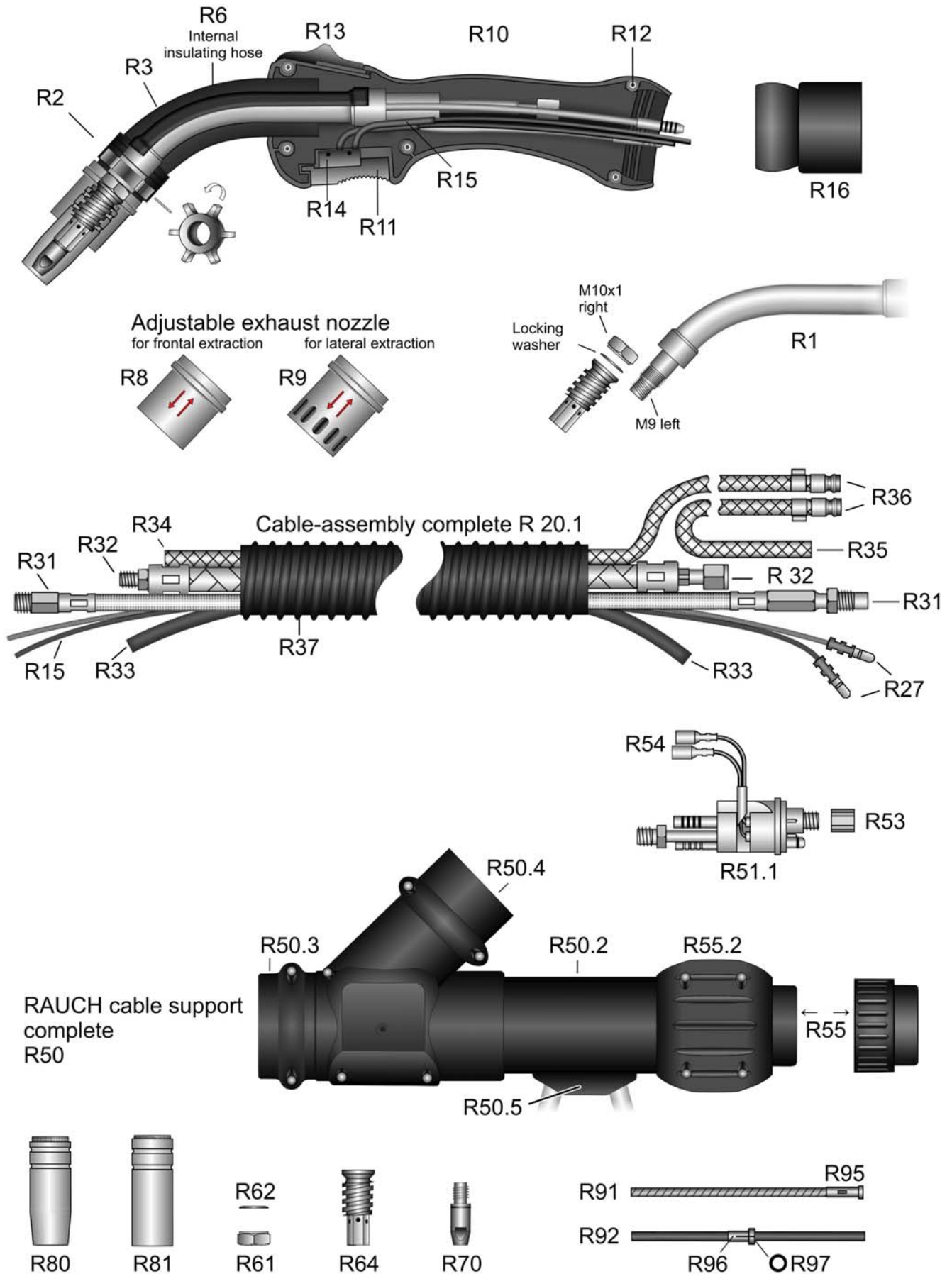
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MHS RAUCH-330 water-cooled

330 Ampere at 100% duty cycle (CO₂) - 290 Ampere at 100% duty cycle (mixed gas)



HSN 866-2

Welding-torch MIG-MAG water-cooled**330A at 100% duty cycle (CO2) - 290A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS RAUCH-250 air-cooled**

r3300311	Torch MHS RAUCH-330 / 3m EURO central adapter exhaust hose ID38mm
r3300411	Torch MHS RAUCH-330 / 4m EURO central adapter exhaust hose ID38mm
r3300511	Torch MHS RAUCH-330 / 5m EURO central adapter exhaust hose ID38mm
r3300312	Torch MHS RAUCH-330 / 3m EURO central adapter exhaust hose ID32mm
r3300412	Torch MHS RAUCH-330 / 4m EURO central adapter exhaust hose ID32mm
r3300512	Torch MHS RAUCH-330 / 5m EURO central adapter exhaust hose ID32mm
R1	r3309101 Torch body MHS RAUCH-330 with insulation and hexagon nut
R2	r2509102 Fume suction tube for torch body RAUCH-250/330
R3	r3309103 Fume suction tube with torch body, complete with all consumables (contact tip 1,2) without fume suction nozzle
R6	r2509121 Section of silicone/glas insulating hose ID12,6-L125mm heat resistant up to 200°C
R8	r9130012 Fume suction nozzle for RAUCH-250 / RAUCH-330 made of brass nickel plated, frontal suction, adjustable, complete with special o-ring high temperature resistant
R9	r9130013 Fume suction nozzle for RAUCH-250 / RAUCH-330 made of brass nickel plated, side suction, adjustable, complete with special o-ring high temperature resistant

RAUCH-handle complete with air-slider, switch and all sundries. Please order ball joint separately depending on the exhaust hose for either ID32mm or ID38mm.

R10	r9193801 RAUCH-handle black
R11	91912439 Push button red for Ratio handle also fits RAUCH handle
R12	91920703 M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91920702 Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
R13	r9193802 RAUCH-air slider red
R14	91912438 Ratio microswitch DC2 also fits RAUCH handle

Reel goods:**Prices are per meter and only applicable if a complete reel is purchased.**

R15	91902601 Meter control line 2x0,5mm ² silicone red (100m)
R15	91902602 Meter control line 2x0,5mm ² silicone white (100m)

R16	r9193803 RAUCH-ball joint fits hose ID32mm
R16	r9193804 RAUCH-ball joint fits hose ID38mm

Cable assembly for EURO central adapter consisting of:**Exhaust hose, wire/power/gas conduit 35mm², water conduit and control line.**

R20	ven92311 Spare cable assembly RAUCH-330 / RAUCH-450-SC 3m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R20	ven92411 Spare cable assembly RAUCH-330 / RAUCH-450-SC 4m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R20	ven92511 Spare cable assembly RAUCH-330 / RAUCH-450-SC 5m / without EURO central adapter exhaust hose ID38mm, complete with 2m leather protection sleeve
R20	ven92312 Spare cable assembly RAUCH-330 / 3m without EURO central adapter exhaust hose ID32mm complete with 2m leather protection sleeve
R20	ven92412 Spare cable assembly RAUCH-330 / 4m without EURO central adapter exhaust hose ID32mm complete with 2m leather protection sleeve

Welding-torch MIG-MAG water-cooled**330A at 100% duty cycle (CO2) - 290A at 100% duty cycle (mixed gas)**

Art.-No.		
R20	ven92512	Spare cable assembly RAUCH-330 / 5m without EURO central adapter exhaust hose ID32mm complete with 2m leather protection sleeve
Cable assembly for EURO central adapter consisting of: Exhaust hose, wire conduit, power/watercable, water hose, gas hose and control line.		
R20.1	ven91311	Spare cable assembly RAUCH-330 / RAUCH-450-SC 3m / without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R20.1	ven91411	Spare cable assembly RAUCH-330 / RAUCH-450-SC 4m / without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R20.1	ven91511	Spare cable assembly RAUCH-330 / RAUCH-450-SC 5m / without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R20.1	ven91312	Spare cable assembly RAUCH-330 / 3m without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R20.1	ven91412	Spare cable assembly RAUCH-330 / 4m without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R20.1	ven91512	Spare cable assembly RAUCH-330 / 5m without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R21	ven94311	Wire-/Power-/Gas conduit fits extraction torch 3m 35mm ²
R21	ven94411	Wire-/Power-/Gas conduit fits extraction torch 4m 35mm ²
R21	ven94511	Wire-/Power-/Gas conduit fits extraction torch 5m 35mm ²
R22	ven91992	Section of silicone/glas insulating hose ID12,6-L700mm heat resistant up to 200°C
R23	15912201	Lock-nut M10x1-L6mm for Swan neck
R27	91902901	Male connector cable-plug for machine side EURO central adapter
R31	r950e311	Wire conduit RAUCH / 3m EURO central adapter (PA) black (hard)
R31	r950e411	Wire conduit RAUCH / 4m EURO central adapter (PA) black (hard)
R31	r950e511	Wire conduit RAUCH / 5m EURO central adapter (PA) black (hard)
HT RAB heat-resistant special rubber fabric hose (fabric on inner side), thick, mechanically highly resilient and extremely welding fume resistant		
R32	r9400311	HT RAB rubber fabric hose power/water cable RAUCH / 3m EURO central adapter
R32	r9400411	HT RAB rubber fabric hose power/water cable RAUCH / 4m EURO central adapter
R32	r9400511	HT RAB rubber fabric hose power/water cable RAUCH / 5m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
N.i.	r3200001	Meter exhaust hose ID32mm (20m)
N.i.	r3800001	Meter exhaust hose ID38mm (20m)
N.i.	r3200011	Leather-covering ID-45mm appr. 2m long, for fume extraction hose ID-32mm
N.i.	r3800011	Leather-sleeve ID-45mm appr. 2m long, for fume extraction hose ID-38mm
R33	50170005	Meter HT 130 TPE fabric hose ID5,0-W1,7mm grey (100m)
R34	50172005	Meter HT 130 TPE fabric hose ID5,0-W1,7mm blue for water "RAUCH" (100m)
R35	50171005	Meter HT 130 TPE fabric hose ID5,0-W1,7mm red for water "RAUCH" (100m)
N.i.	81000001	Meter PUR protection hose ID8,5-W1mm fits water hoses OD8,4mm (100m)
N.i.	s5080001	Meter shrinking hose, heatresistant 2:1, ID50,8mm (5m)
R36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO

Welding-torch MIG-MAG water-cooled**330A at 100% duty cycle (CO2) - 290A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
R37	r3200311	Section of exhaust hose ID32mm / 3m
R37	r3200411	Section of exhaust hose ID32mm / 4m
R37	r3200511	Section of exhaust hose ID32mm / 5m
R37	r3800311	Section of exhaust hose ID38mm / 3m
R37	r3800411	Section of exhaust hose ID38mm / 4m
R37	r3800511	Section of exhaust hose ID38mm / 5m
R50	91700001	Fume central adapter connection-system for water-cooled torches complete. Consisting of: 91700061 + 91700011 + 91700021 + 91700031 + 91700051 + 91700041 + 91900702
R50.2	91700061	Fume central adapter / fume protected area, to connect support lines, 2 halves complete with bushing and screws and 1 O-ring red
R50.3	91700011	Fume central adapter chamber rotatable 360°. 2 halves complete with bushing, screws and 2 O-rings (red). Fits to genuine Holch extraction connection adapter 45° and central adapter connection chamber
R50.4	91700021	Fume central adapter extraction connection 45°, 2 half pieces complete with bushes and screws. Only for genuine Holch central adapter rotatable extraction chamber
N.i.	91700031	Fume central adapter membrane for the genuine Holch fume protected central adapter connection chamber
R50.5	91700051	Fume central adapter rubber grommet with 2 inlets for water lines for the genuine Holch fume protected central adapter connection chamber
N.i.	r9131002	Special high heat resistant O-ring ID33mm-W2mm fits fume extraction connection chamber
N.i.	91700111	Special high heat resistant O-ring ID46mm-W2mm fits fume extraction chamber
R51.1	91900206	Central adapter spring contact-pins EURO central adapter
R51.1	91900201	Central adapter fixed contact-pins EURO central adapter
R52	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
R53	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
R54	91903001	Female connector cable-plug fits machine side EURO central adapter
R55	91900702	Terminal nut insulated fits EURO central adapter (widened fits RAUCH)
R55.2	91700041	Strengthening for terminal nut EURO ventral adapter 2 halves complete with bushing and screws (black)
R61	ven91984	Hexagon nut M9 left hand thread SW14 with flange
R62	ven91985	Tooth lock washer AD-13-ID9mm
R64	ven98001	Tip/nozzle holder Rauch-250 / RAUCH-330
R70	83008401	Contact tip M8-L30-D10 0,8 CuCrZr
R70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
R70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
R70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
R70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
R70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
R70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
R80	ven93002	Gas nozzle RAUCH-250/330 conical-ID15mm with spatter protection

Welding-torch MIG-MAG water-cooled**330A at 100% duty cycle (CO2) - 290A at 100% duty cycle (mixed gas)**

Art.-No.		
R81	ven93302	Gas nozzle RAUCH-250/330 cylindrical-ID18mm with spatter protection
R91	19390311	Guide spiral-line ID1,9-AD3,9 fits 3m / EURO central adapter
R91	19390411	Guide spiral-line ID1,9-AD3,9 fits 4m / EURO central adapter
R91	19390511	Guide spiral-line ID1,9-AD3,9 fits 5m / EURO central adapter
R91	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
R91	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
R91	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
R91	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
R91	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
R91	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
R92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
R92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
R92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
R92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
R92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
R92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
R95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
R96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
R97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 351-D water-cooled

The factory standard gear is marked in red.



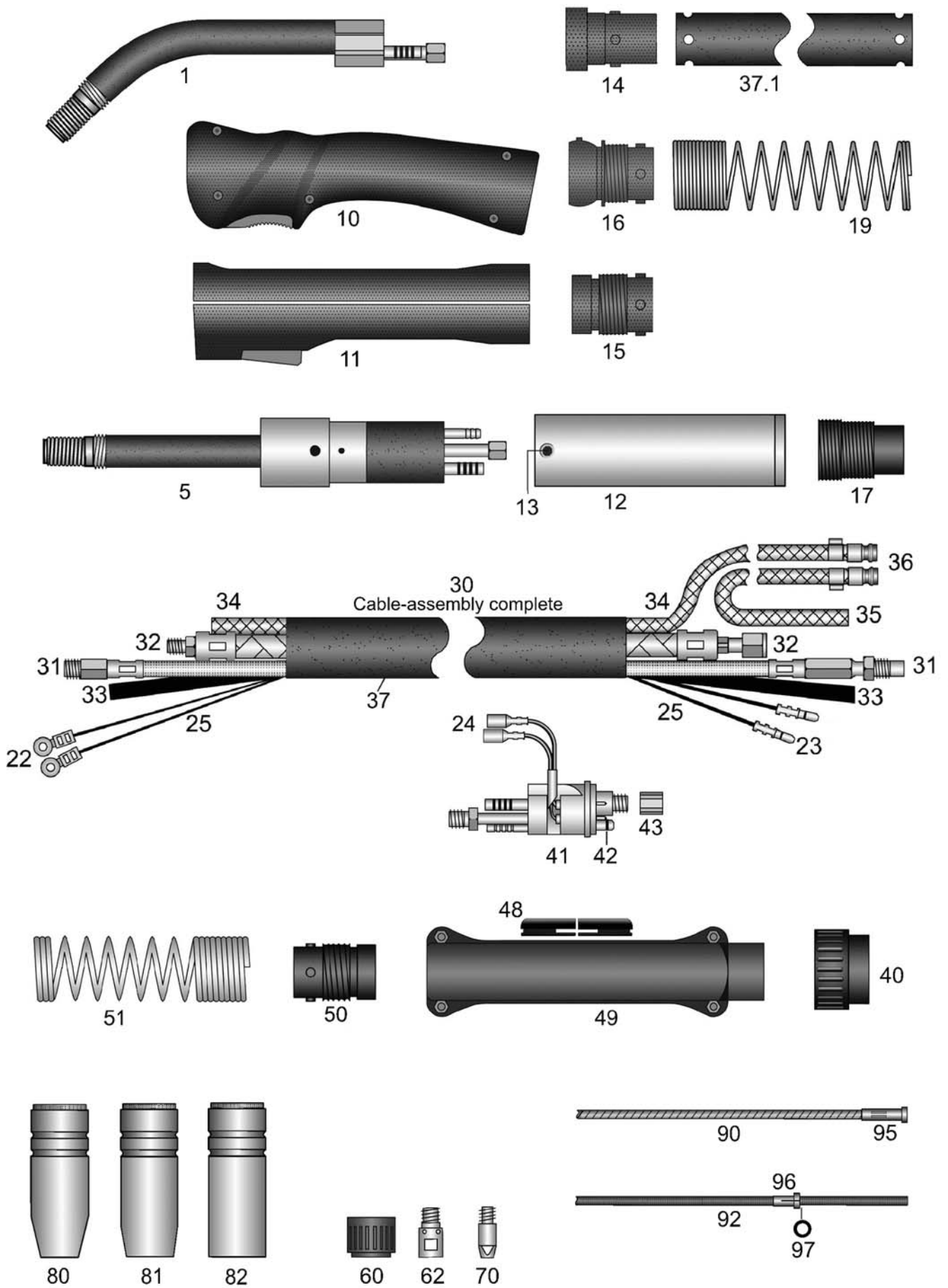
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MHS 351-D water-cooled

350 Ampere at 100% duty cycle (CO₂) - 310 Ampere at 100% duty cycle (mixed gas)



HSN 130

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 37-D gas-cooled**

35100311	Torch MHS 351-D / 3m EURO central adapter
35100411	Torch MHS 351-D / 4m EURO central adapter
35100511	Torch MHS 351-D / 5m EURO central adapter
35150311	AUTomatic-torch MHS 351-D / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

35100301	Torch MHS 351-D / 3m
35100401	Torch MHS 351-D / 4m
35100501	Torch MHS 351-D / 5m
35150301	AUTomatic-torch MHS 351-D / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch body and AUTomatic torch body with rubber insulation,, very massive power conduit,max. cooling water conduits, complete with contact tip holder M8.

1	35191001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	35191501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO₂) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	35191201	Laminated fabric-tension-insulator
62	92981001	Contact tip holder IT-M8 AD13-L28mm
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
80	35193101	Screwable gas nozzle M18 conical-ID14mm with nozzle insulator
81	35193001	Screwable gas nozzle M18 conical-ID17mm with nozzle insulator
82	35193301	Screwable gas nozzle M18 cylindric-ID21mm with nozzle insulator
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 352-S water-cooled

The factory standard gear (plugged gas nozzle) is marked in red.



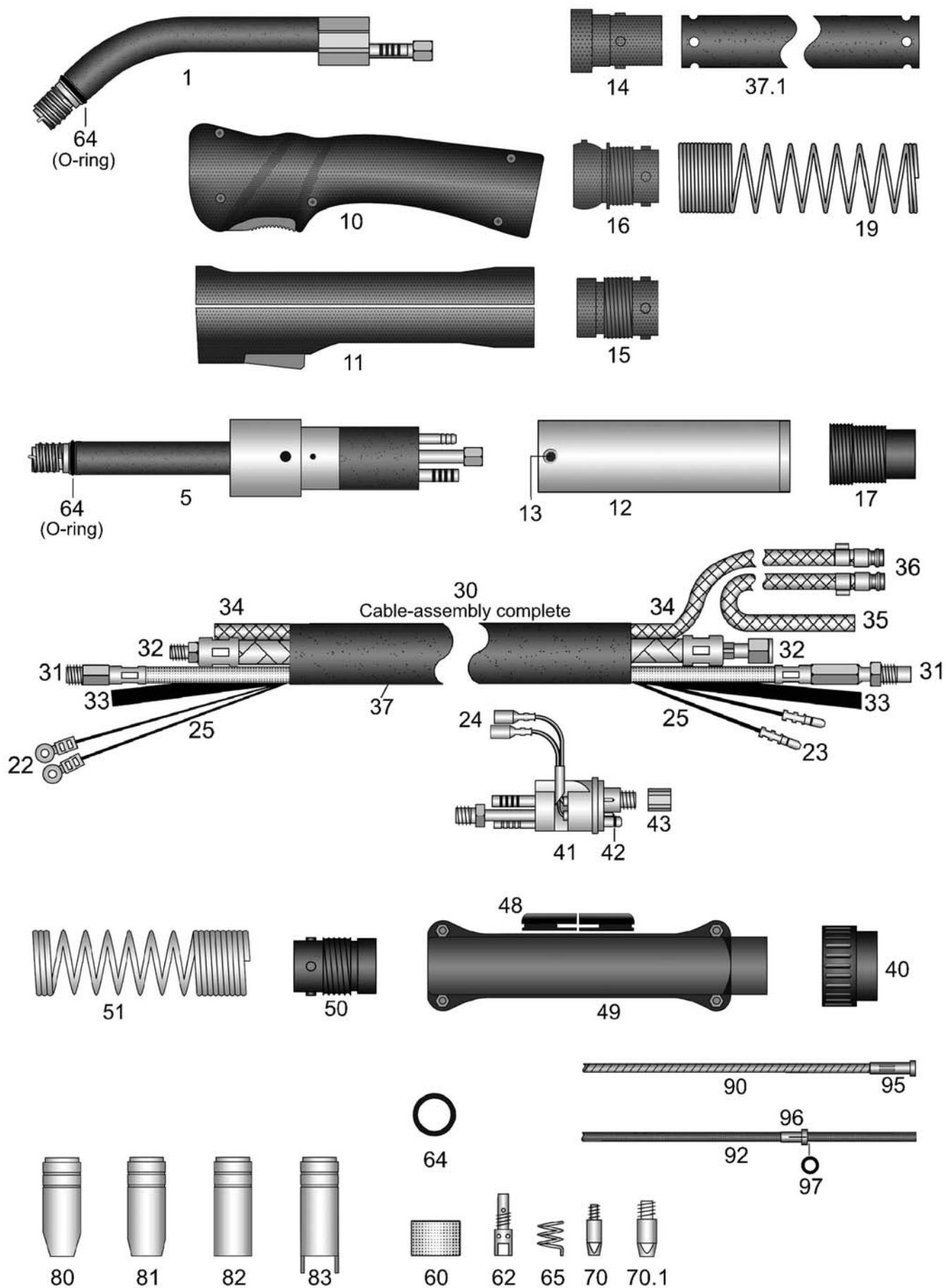
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MHS 352-S water-cooled

320 Ampere at 100% duty cycle (CO₂) - 280 Ampere at 100% duty cycle (mixed gas)



HSN 131-1

Welding-torch MIG-MAG water-cooled**320A at 100% duty cycle (CO2) - 280A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 25-SPEZIAL gas-cooled**

35200311	Torch MHS 352-S / 3m EURO central adapter plugged
35200411	Torch MHS 352-S / 4m EURO central adapter plugged
35200511	Torch MHS 352-S / 5m EURO central adapter plugged
35250311	AUTomatic-torch MHS 352-S / 3m EURO central adapter plugged
35200312	Torch MHS 352-S / 3m EURO central adapter screwable M14
35200412	Torch MHS 352-S / 4m EURO central adapter screwable M14
35200512	Torch MHS 352-S / 5m EURO central adapter screwable M14
35250312	AUTomatic-torch MHS 352-S / 3m EURO central adapter screwable M14

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

35200301	Torch MHS 352-S / 3m plugged
35200401	Torch MHS 352-S / 4m plugged
35200501	Torch MHS 352-S / 5m plugged
35250301	AUTomatic-torch MHS 352-S / 3m plugged

35200302	Torch MHS 352-S / 3m screwable M14
35200402	Torch MHS 352-S / 4m screwable M14
35200502	Torch MHS 352-S / 5m screwable M14
35250302	AUTomatic-torch MHS 352-S / 3m screwable M14

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

All torch bodies and AUTomatic torch bodies with rubber insulation, very massive power conduit, max. cooling water conduit, complete with o-ring and teflon insulator.

1	35291001	Torch body plugged
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	35291501	AUTomatic-torch body plugged
N.i.	35291003	Torch body screwable M14
N.i.	35291502	AUTomatic-torch body screwable M14

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle

Welding-torch MIG-MAG water-cooled**320A at 100% duty cycle (CO2) - 280A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO

Welding-torch MIG-MAG water-cooled**320A at 100% duty cycle (CO2) - 280A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	35291201	Teflon insulator
62	25980001	Contact tip holder IT-M6-D10-L35mm
N.i.	25981001	Contact tip holder IT-M8-SW10-L35mm
64	10089061	O-ring ID12-W3mm
65	25912001	Nozzle spring for gas nozzle
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62814001	Contact tip M6-L28-AD8 1,4
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62814301	Contact tip M6-L28-AD8 1,4 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
70.1	83008001	Contact tip M8-L30-AD10 0,8
70.1	83010001	Contact tip M8-L30-AD10 1,0
70.1	83012001	Contact tip M8-L30-AD10 1,2
70.1	83014001	Contact tip M8-L30-AD10 1,4
70.1	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70.1	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70.1	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70.1	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated

Welding-torch MIG-MAG water-cooled**320A at 100% duty cycle (CO₂) - 280A at 100% duty cycle (mixed gas)**

Art.-No.		
70.1	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70.1	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70.1	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
80	25930001	Gas nozzle conical-ID12mm plugged
80	25931001	Gas nozzle conical-ID12mm screwable M14
81	25930101	Gas nozzle conical-ID15mm plugged
81	25930102	Gas nozzle conical-ID15mm with insulating plugged
81	25931101	Gas nozzle conical-ID15mm screwable M14
81	25931102	Gas nozzle conical-ID15mm with insulating screwable M14
82	25930301	Gas nozzle cylindric-ID18mm plugged
82	25930302	Gas nozzle cylindric-ID18mm with insulating plugged
82	25931301	Gas nozzle cylindric-ID18mm screwable M14
82	25931302	Gas nozzle cylindric-ID18mm with insulating screwable M14
83	25930501	Spotweld gas nozzle plugged
83	25931501	Spotweld gas nozzle screwable M14
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 353-R water-cooled

The factory standard gear is marked in red.



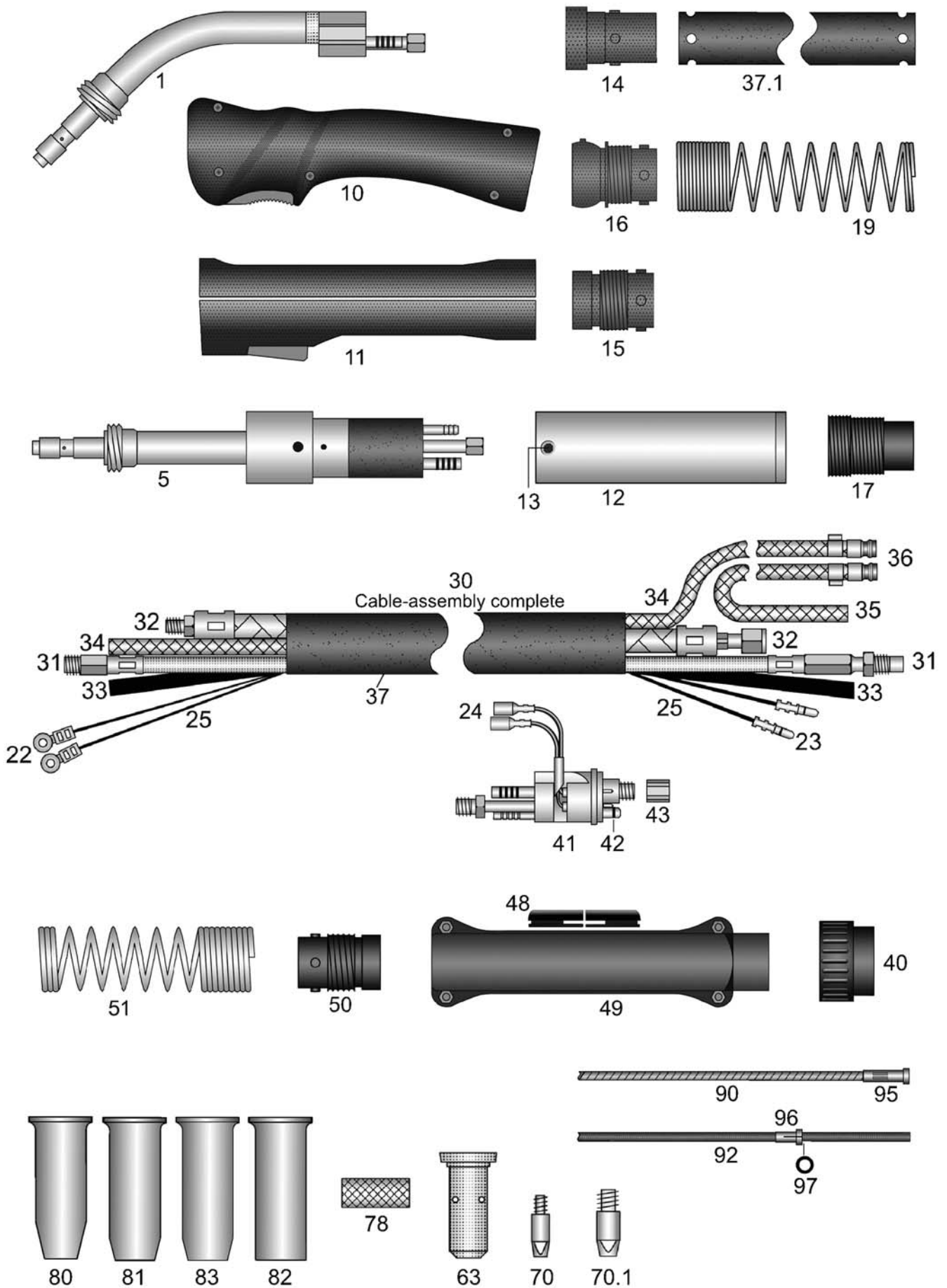
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MHS 353-R water-cooled

350 Ampere at 100% duty cycle (CO₂) - 310 Ampere at 100% duty cycle (mixed gas)



HSN 132

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 32 gas-cooled**

35300311	Torch MHS 353-R / 3m EURO central adapter soldered in tip holder M6
35300411	Torch MHS 353-R / 4m EURO central adapter soldered in tip holder M6
35300511	Torch MHS 353-R / 5m EURO central adapter soldered in tip holder M6
35350311	AUTomatic-torch MHS 353-R / 3m EURO central adapter soldered in tip holder M6
35300312	Torch MHS 353-R / 3m EURO central adapter soldered in tip holder M8
35300412	Torch MHS 353-R / 4m EURO central adapter soldered in tip holder M8
35300512	Torch MHS 353-R / 5m EURO central adapter soldered in tip holder M8
35350312	AUTomatic-torch MHS 353-R / 3m EURO central adapter soldered in tip holder M8

For torches without EURO central-adaptor the following prices apply.**Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.**

35300301	Torch MHS 353-R / 3m soldered in tip holder M6
35300401	Torch MHS 353-R / 4m soldered in tip holder M6
35300501	Torch MHS 353-R / 5m soldered in tip holder M6
35350301	AUTomatic-torch MHS 353-R / 3m soldered in tip holder M6
35300302	Torch MHS 353-R / 3m soldered in tip holder M8
35300402	Torch MHS 353-R / 4m soldered in tip holder M8
35300502	Torch MHS 353-R / 5m soldered in tip holder M8
35350302	AUTomatic-torch MHS 353-R / 3m soldered in tip holder M8

Special lengths for hand- and AUTomatic-torches please notice appendix "B".**Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"**

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube and very massive power conduit and max. cooling water conduits.

1	35391001	Torch body with soldered in tip holder M6
1	35391101	Torch body with soldered in tip holder M8
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	35391501	AUTomatic-torch body with soldered in tip holder M6
5	35391511	AUTomatic-torch body with soldered in tip holder M8

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
o.A	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
63	32912001	Gas diffusor-insulating fits contact tip M6-L28-D8
63	32912002	Gas diffusor-insulating fits contact tip M8-L30-AD10
70	62808001	Contact tip M6-L28-AD8 0,8
70	62810001	Contact tip M6-L28-AD8 1,0
70	62812001	Contact tip M6-L28-AD8 1,2
70	62814001	Contact tip M6-L28-AD8 1,4
70	62808401	Contact tip M6-L28-AD8 CuCrZr 0,8
70	62810401	Contact tip M6-L28-AD8 CuCrZr 1,0
70	62812401	Contact tip M6-L28-AD8 CuCrZr 1,2
70	62808301	Contact tip M6-L28-AD8 0,8 nickel-plated
70	62810301	Contact tip M6-L28-AD8 1,0 nickel-plated
70	62812301	Contact tip M6-L28-AD8 1,2 nickel-plated
70	62814301	Contact tip M6-L28-AD8 1,4 nickel-plated
70	62808a01	Contact tip M6-L28-D8 0,8-A for aluminium wire
70	62810a01	Contact tip M6-L28-D8 1,0-A for aluminium wire
70	62812a01	Contact tip M6-L28-D8 1,2-A for aluminium wire
70.1	83008001	Contact tip M8-L30-AD10 0,8
70.1	83010001	Contact tip M8-L30-AD10 1,0
70.1	83012001	Contact tip M8-L30-AD10 1,2
70.1	83014001	Contact tip M8-L30-AD10 1,4
70.1	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70.1	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70.1	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70.1	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70.1	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70.1	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
70.1	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70.1	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70.1	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70.1	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
78	32912101	Swivel nut for gas nozzle
N.i.	32912102	Swivel nut for gas nozzle widened fits heavy gass nozzle
80	32930001	Gas nozzle conical-ID12mm
81	32931001	Gas nozzle conical-ID15mm
83	32932001	Gas nozzle conical-ID16mm massy design
82	32933001	Gas nozzle cylindric-ID19mm
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 353-R-SUPER water-cooled

The factory standard gear is marked in red.



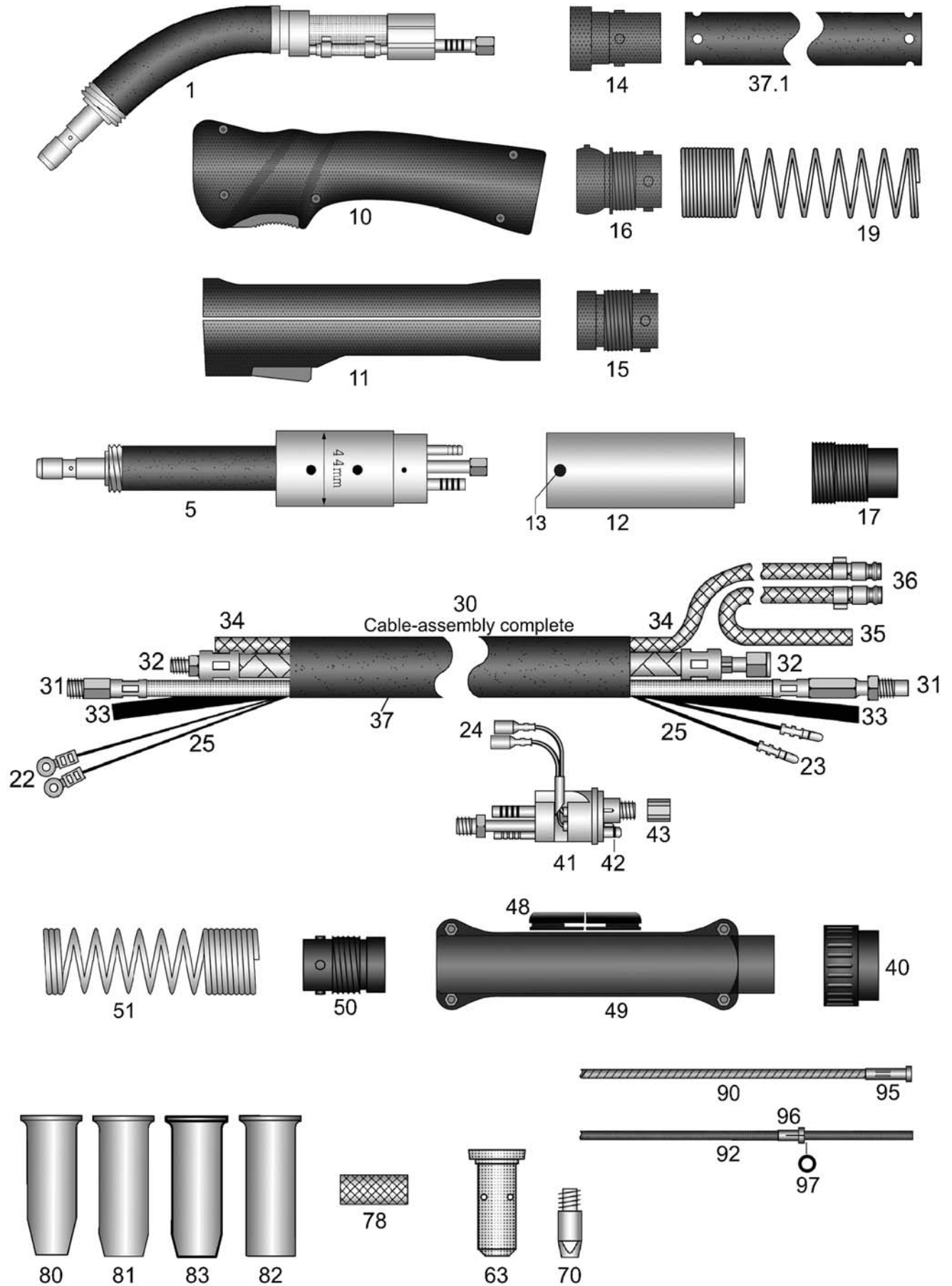
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MHS 353-R-SUPER with Cascade cooling system

500 Ampere at 100% duty cycle (CO₂) - 450 Ampere at 100% duty cycle (mixed gas)



HSN 133

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 32 gas-cooled**

35320312	Torch MHS 353-R-SUPER / 3m EURO central adapter
35320412	Torch MHS 353-R-SUPER / 4m EURO central adapter
35320512	Torch MHS 353-R-SUPER / 5m EURO central adapter
35325312	AUTomatic-torch MHS 353-R-SUPER / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

35320302	Torch MHS 353-R-SUPER / 3m
35320402	Torch MHS 353-R-SUPER / 4m
35320502	Torch MHS 353-R-SUPER / 5m
35325302	AUTomatic-torch MHS 353-R-SUPER / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch bodies and AUTomatic torch bodies with 2 circuit cooling (Cascade cooling system)

1	35329102	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	35329152	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912537	Ratio-handle 21mm ball joint
10	91912437	Ratio-handle 21mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912104	Industry-handle 21mm ball joint
11	91912433	Industry-handle 21mm standard
o.A	91920412	Switch-set for industry-handle for 21mm (9 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912923	AUT handle tube, aluminium-cladded AD44mm
13	91912912	Counter sunk bolt M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
o.A	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
63	32912002	Gas diffusor-insulating fits contact tip M8-L30-AD10
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
78	32912101	Swivel nut for gas nozzle
N.i.	32912102	Swivel nut for gas nozzle widened fits heavy gass nozzle
80	32930001	Gas nozzle conical-ID12mm
81	32931001	Gas nozzle conical-ID15mm
83	32932001	Gas nozzle conical-ID16mm massy design
82	32933001	Gas nozzle cylindric-ID19mm
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO₂) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 354 water-cooled

The factory standard gear is marked in red.



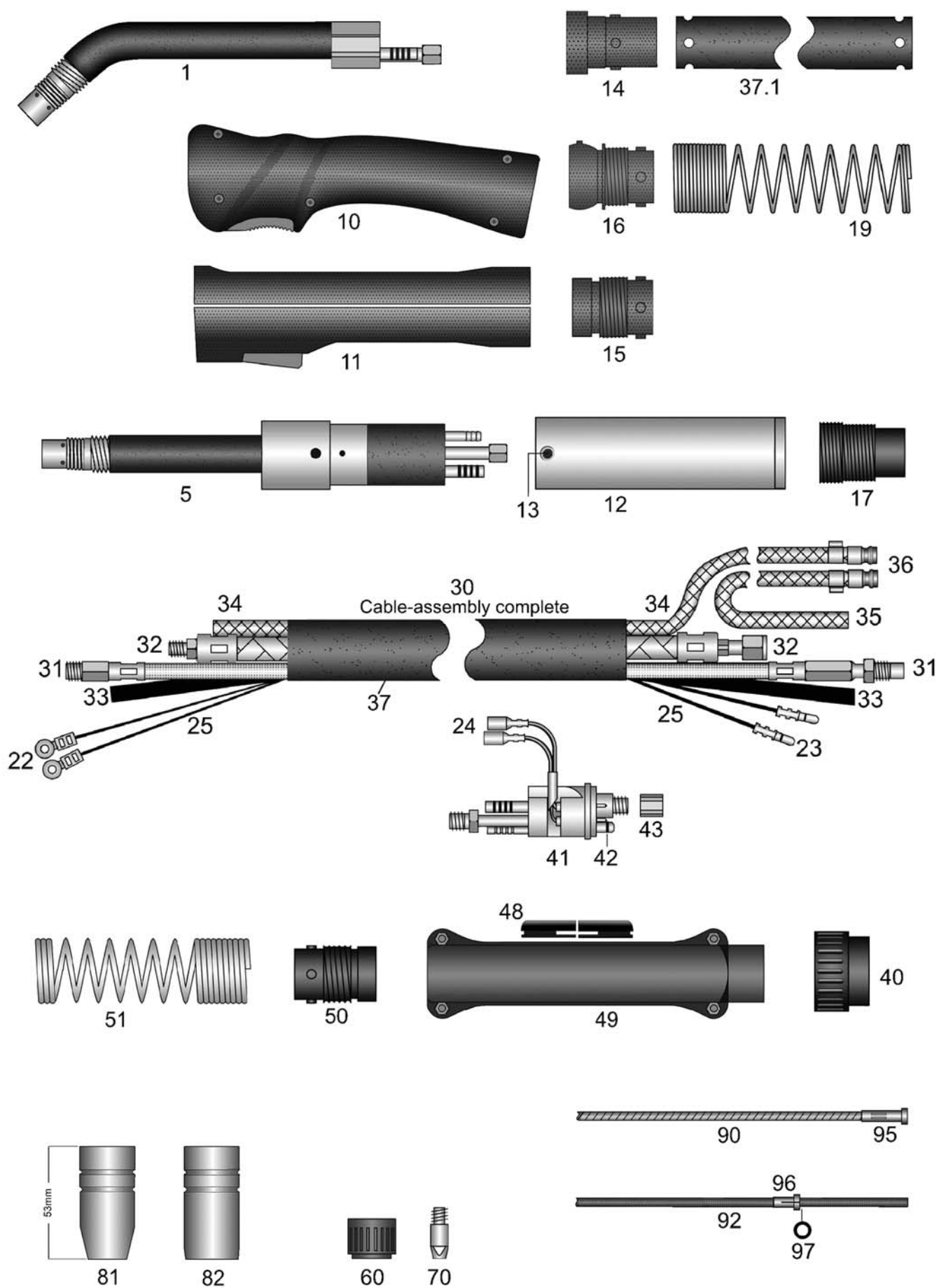
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MHS 354 water-cooled

350 Ampere at 100% duty cycle (CO₂) - 310 Ampere at 100% duty cycle (mixed gas)



HSN 130A

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.	
35400311	Torch MHS 354 / 3m EURO central adapter
35400411	Torch MHS 354 / 4m EURO central adapter
35400511	Torch MHS 354 / 5m EURO central adapter
35450311	AUTomatic-torch MHS 354 / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

35400301	Torch MHS 354 / 3m
35400401	Torch MHS 354 / 4m
35400501	Torch MHS 354 / 5m
35450301	AUTomatic-torch MHS 354 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

91900102	Adapter EURO central adapter fits power source with Dinse central adapter
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Torchbody and AUTomatic torch body with rubber insulation, very massive power conduit, max. cooling water circuits and small bending radius.

1	35491001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	35491501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO₂) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	35191201	Laminated fabric-tension-insulator
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
81	35493001	Gas nozzle screwable M18 conical-ID17mm
82	35493301	Gas nozzle screwable M18 cylindric
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm

Welding-torch MIG-MAG water-cooled**350A at 100% duty cycle (CO2) - 310A at 100% duty cycle (mixed gas)**

Art.-No.		
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS RAUCH-450-SC water-cooled

Fume extraction torch

Product information:

At the pistol end the very light TPE extraction hose is protected by approx. 2m leather cover hose.
Damage caused by splashes or sharp edges is thus prevented.

The factory standard gear is marked in red.



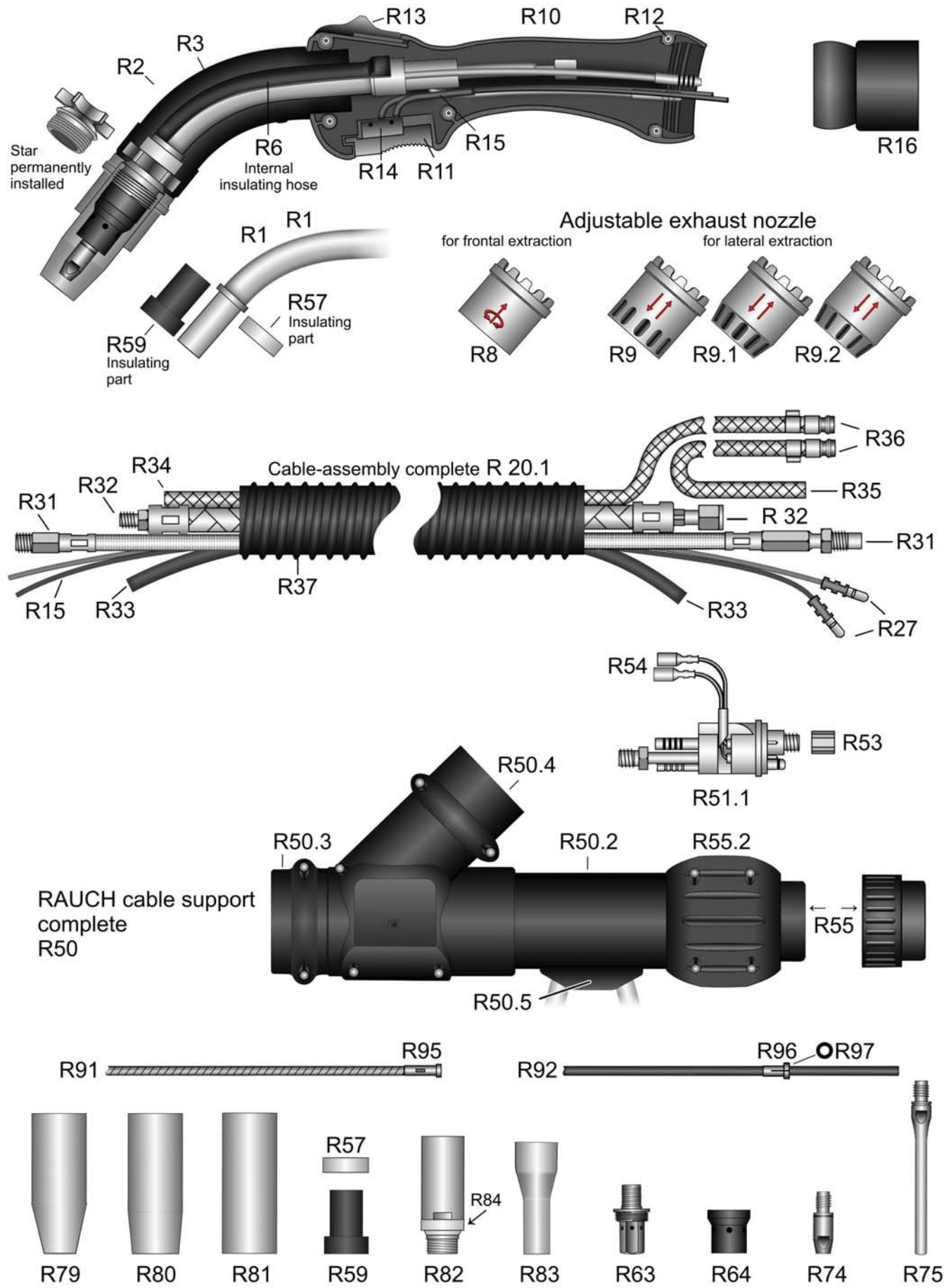
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MHS RAUCH-450-SC water-cooled

550 Ampere at 100% duty cycle (CO₂) - 510 Ampere at 100% duty cycle (mixed gas)



HSN 872-5

Welding-torch MIG-MAG water-cooled**550A at 100% duty cycle (CO2) - 510A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS RAUCH-350 gas-cooled**

r4500311	Torch MHS RAUCH-450-SC / 3m EURO central adapter exhaust hose ID38mm
r4500411	Torch MHS RAUCH-450-SC / 4m EURO central adapter exhaust hose ID38mm
r4500511	Torch MHS RAUCH-450-SC / 5m EURO central adapter exhaust hose ID38mm
R1	r4509101 Torch body MHS RAUCH-450-SC
R2	r4509102 Fume suction tube for torch body RAUCH-350-SC/450-SC
R3	r4509103 Fume suction tube with torch body, complete with all consumables (contact tip 1,2) without fume suction nozzle
R6	r2509121 Section of silicone/glas insulating hose ID12,6-L125mm heat resistant up to 200°C
R8	r9130001 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of aluminium, frontal suction, adjustable, complete with special o-ring high temperature resistant
R8	r9130002 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of brass nickel plated, frontal suction, adjustable, complete with special o-ring high temperature resistant
R9	r9130003 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of brass nickel plated, side suction, adjustable, complete with special o-ring high temperature resistant
R9.1	r9130004 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of brass nickel plated, conical, wide suction slots, complete with special o-ring high temperature resistant
R9.2	r9130005 Fume suction nozzle for RAUCH-350-SC / RAUCH-450-SC made of brass nickel plated, conical, narrow suction slots, complete with special o-ring high temperature resistant
N.i.	r9131001 Special high heat resistant O-ring fits fume suction nozzle RAUCH-350-SC / RAUCH-450-SC

RAUCH-handle complete with air-slider, switch and all sundries. Please order ball joint separately.

R10	r9193801 RAUCH-handle black
R11	91912439 Push button red for Ratio handle also fits RAUCH handle
R12	91920703 M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91920702 Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
R13	r9193802 RAUCH-air slider red
R14	91912438 Ratio microswitch DC2 also fits RAUCH handle

Reel goods:**Prices are per meter and only applicable if a complete reel is purchased.**

R15	91902601 Meter control line 2x0,5mm ² silicone red (100m)
R15	91902602 Meter control line 2x0,5mm ² silicone white (100m)
R16	r9193804 RAUCH-ball joint fits hose ID38mm

Cable assembly for EURO central adapter consisting of: Exhaust hose, wire conduit, power/watercable, water hose, gas hose and control line.

R20.1	ven91311 Spare cable assembly RAUCH-330 / RAUCH-450-SC 3m / without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R20.1	ven91411 Spare cable assembly RAUCH-330 / RAUCH-450-SC 4m / without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R20.1	ven91511 Spare cable assembly RAUCH-330 / RAUCH-450-SC 5m / without EURO central adapter separate lines, exhaust hose ID38mm, complete with 2m leather protection sleeve
R27	91902901 Male connector cable-plug for machine side EURO central adapter
R31	r950e311 Wire conduit RAUCH / 3m EURO central adapter (PA) black (hard)

Welding-torch MIG-MAG water-cooled**550A at 100% duty cycle (CO2) - 510A at 100% duty cycle (mixed gas)**

Art.-No.		
R31	r950e411	Wire conduit RAUCH / 4m EURO central adapter (PA) black (hard)
R31	r950e511	Wire conduit RAUCH / 5m EURO central adapter (PA) black (hard)
HT RAB heat-resistant special rubber fabric hose (fabric on inner side), thick, mechanically highly resilient and extremely welding fume resistant		
R32	r9400311	HT RAB rubber fabric hose power/water cable RAUCH / 3m EURO central adapter
R32	r9400411	HT RAB rubber fabric hose power/water cable RAUCH / 4m EURO central adapter
R32	r9400511	HT RAB rubber fabric hose power/water cable RAUCH / 5m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
N.i.	r3800001	Meter exhaust hose ID38mm (20m)
N.i.	r3800011	Leather-sleeve ID-45mm appr. 2m long, for fume extraction hose ID-38mm
R33	50170005	Meter HT 130 TPE fabric hose ID5,0-W1,7mm grey (100m)
R34	50172005	Meter HT 130 TPE fabric hose ID5,0-W1,7mm blue for water "RAUCH" (100m)
R35	50171005	Meter HT 130 TPE fabric hose ID5,0-W1,7mm red for water "RAUCH" (100m)
N.i.	81000001	Meter PUR protection hose ID8,5-W1mm fits water hoses OD8,4mm (100m)
N.i.	s5080001	Meter shrinking hose, heatresistant 2:1, ID50,8mm (5m)
R36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
R37	r3800311	Section of exhaust hose ID38mm / 3m
R37	r3800411	Section of exhaust hose ID38mm / 4m
R37	r3800511	Section of exhaust hose ID38mm / 5m
R50	91700001	Fume central adapter connection-system for water-cooled torches complete. Consisting of: 91700061 + 91700011 + 91700021 + 91700031 + 91700051 + 91700041 + 91900702
R50.2	91700061	Fume central adapter / fume protected area, to connect support lines, 2 halves complete with bushing and screws and 1 O-ring red
R50.3	91700011	Fume central adapter chamber rotatable 360°. 2 halves complete with bushing, screws and 2 O-rings (red).Fits to genuine Holch extraction connection adapter 45° and central adapter connection chamber
R50.4	91700021	Fume central adapter extraction connection 45°, 2 half pieces complete with bushes and screws.Only for genuine Holch central adapter rotatable extraction chamber
N.i.	91700031	Fume central adapter membrane for the genuine Holch fume protected central adapter connection chamber
R50.5	91700051	Fume central adapter rubber grommet with 2 inlets for water lines for the genuine Holch fume protected central adapter connection chamber
N.i.	r9131002	Special high heat resistant O-ring ID33mm-W2mm fits fume extraction connection chamber
N.i.	91700111	Special high heat resistant O-ring ID46mm-W2mm fits fume extraction chamber
R51	91900106	Central adapter spring contact-pins EURO central adapter
R51	91900101	Central adapter fixed contact-pins EURO central adapter
R51.1	91900206	Central adapter spring contact-pins EURO central adapter
R51.1	91900201	Central adapter fixed contact-pins EURO central adapter
R52	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
R53	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
R54	91903001	Female connector cable-plug fits machine side EURO central adapter

Welding-torch MIG-MAG water-cooled

550A at 100% duty cycle (CO2) - 510A at 100% duty cycle (mixed gas)

Art.-No.		
R55	91900702	Terminal nut insulated fits EURO central adapter (widened fits RAUCH)
R55.2	91700041	Strengthening for terminal nut EURO vental adapter2 halves complete with bushing and screws (black)
R57	r9120002	Peek insulation for RAUCH-350-SC / RAUCH-450-SC (back)
R59	r9121001	HT-insulation black power fits RAUCH-350-SC / RAUCH-450-SC (front) with long cylinder
R63	r9800002	Contact tip holder M8 with OT-M16x1 fits gas diffusor
R64	r9120004	HT-gasdiffusor black power with IT-M16x1 and drilling 18mm black
R74	83008401	Contact tip M8-L30-D10 0,8 CuCrZr
R74	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
R74	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
R74	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
R74	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
R74	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
R74	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
R74	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
R74	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
R74	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
R75	88551241	Narrow gap-contact tip M8-L85,5-D10 turned down to 6mm 1,2 CuCrZr
R79	r9310001	Screwable gas nozzle conical ID12mm
R80	r9300001	Screwable gas nozzle conical ID16mm
R81	r9330001	Screwable gas nozzle cylindric ID21mm
R82	r4509362	Narrow-gap lower section with PTFE sealing ring for RAUCH-350-SC / RAUCH-450-SC
R83	r4509365	Narrow gap gas-nozzle ID12-OD12mm / length 62,5mm for narrow-gap lower section RAUCH-350-SC / RAUCH-450-SC
R84	r4509363	PTFE sealing ring for narrow-gap lower section RAUCH-350-SC / RAUCH-450-SC
R91	19390311	Guide spiral-line ID1,9-AD3,9 fits 3m / EURO central adapter
R91	19390411	Guide spiral-line ID1,9-AD3,9 fits 4m / EURO central adapter
R91	19390511	Guide spiral-line ID1,9-AD3,9 fits 5m / EURO central adapter
R91	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
R91	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
R91	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
R91	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
R91	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
R91	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
R92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
R92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
R92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
R92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter

Welding-torch MIG-MAG water-cooled**550A at 100% duty cycle (CO2) - 510A at 100% duty cycle (mixed gas)**

Art.-No.		
R92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
R92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
R92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
R92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
R92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
R92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
R92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
R92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
R95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
R96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
R96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
R97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS BOB-450w

The factory standard gear is marked in red.



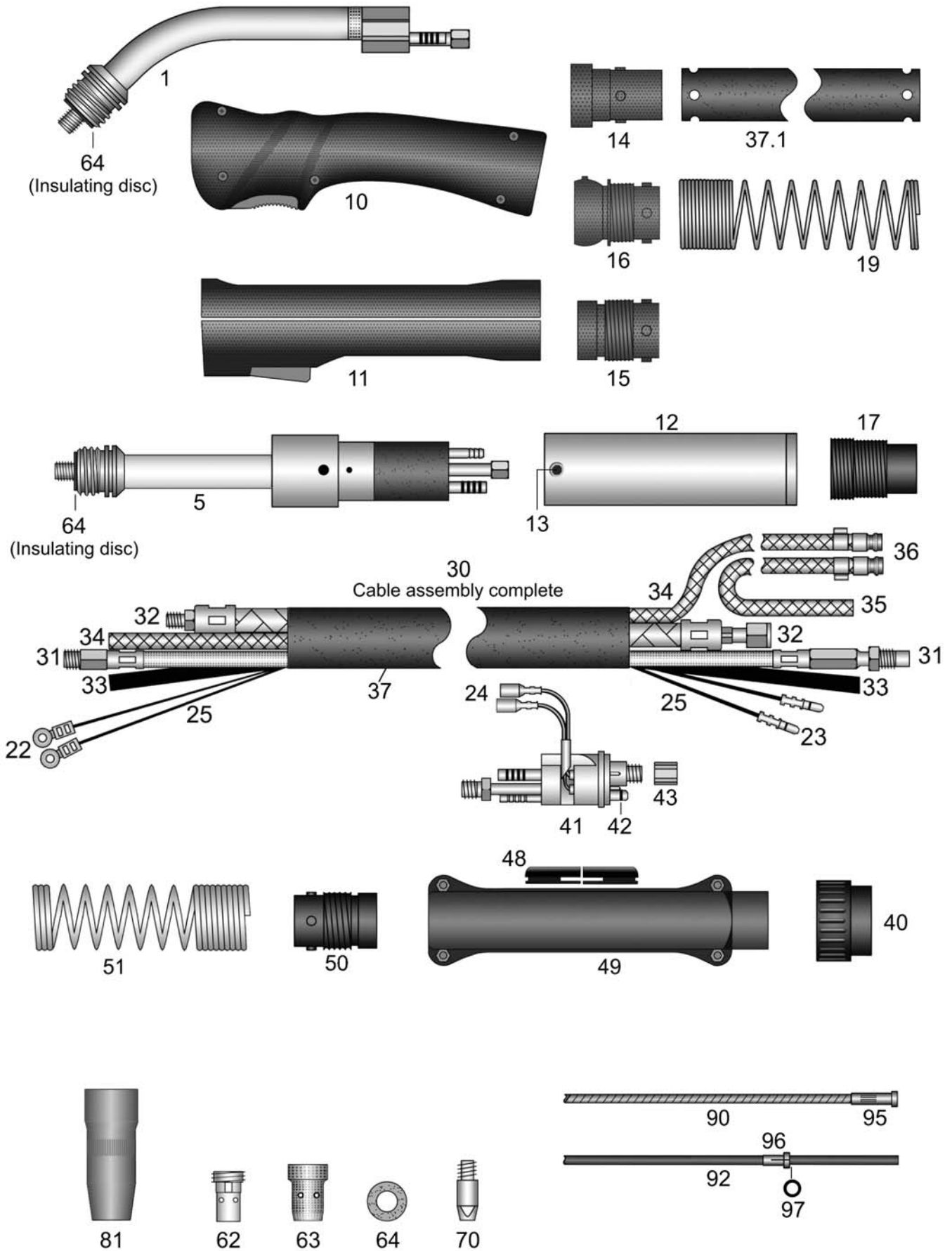
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MHS BOB - 450w water-cooled

450 Ampere at 100% duty cycle (CO₂) - 400 Ampere at 100% duty cycle (mixed gas)



HSN 910

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS BOB-45g gas-cooled**

45000311	Torch MHS BOB-450w / 3m EURO central adapter
45000411	Torch MHS BOB-450w / 4m EURO central adapter
45000511	Torch MHS BOB-450w / 5m EURO central adapter
45050311	AUTomatic-torch MHS BOB-450w / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

45000301	Torch MHS BOB-450w / 3m
45000401	Torch MHS BOB-450w / 4m
45000501	Torch MHS BOB-450w / 4m
45050301	AUTomatic-torch MHS BOB-450w / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube with cooling ribs,max. cooling water conduits, very massive power conduit, complete with contact tip holder M8 and insulator disc.

1	45091001	Torch-body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	45091501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912535	Ratio-handle 18mm ball joint
10	91912435	Ratio-handle 18mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912102	Industry-handle 18mm ball joint
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
<p>Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!</p>		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
<p>Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"</p>		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
<p>Supply lines for AUTomatic torches.</p>		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
<p>Reel goods: Prices are per meter and only applicable if a complete reel is purchased.</p>		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
62	50198001	Contact tip holder IT-M8 AG-M16x1-L25mm
63	50191201	Gas diffusor Keripol white
63	50191204	HT-gasdiffusor black power
63	50191203	Ceramic-gas diffusor
64	50191241	Insulator
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
81	45093001	Screwable gas nozzle conical-ID16mm
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS ERWIN-500 water-cooled

The factory standard gear is marked in red.



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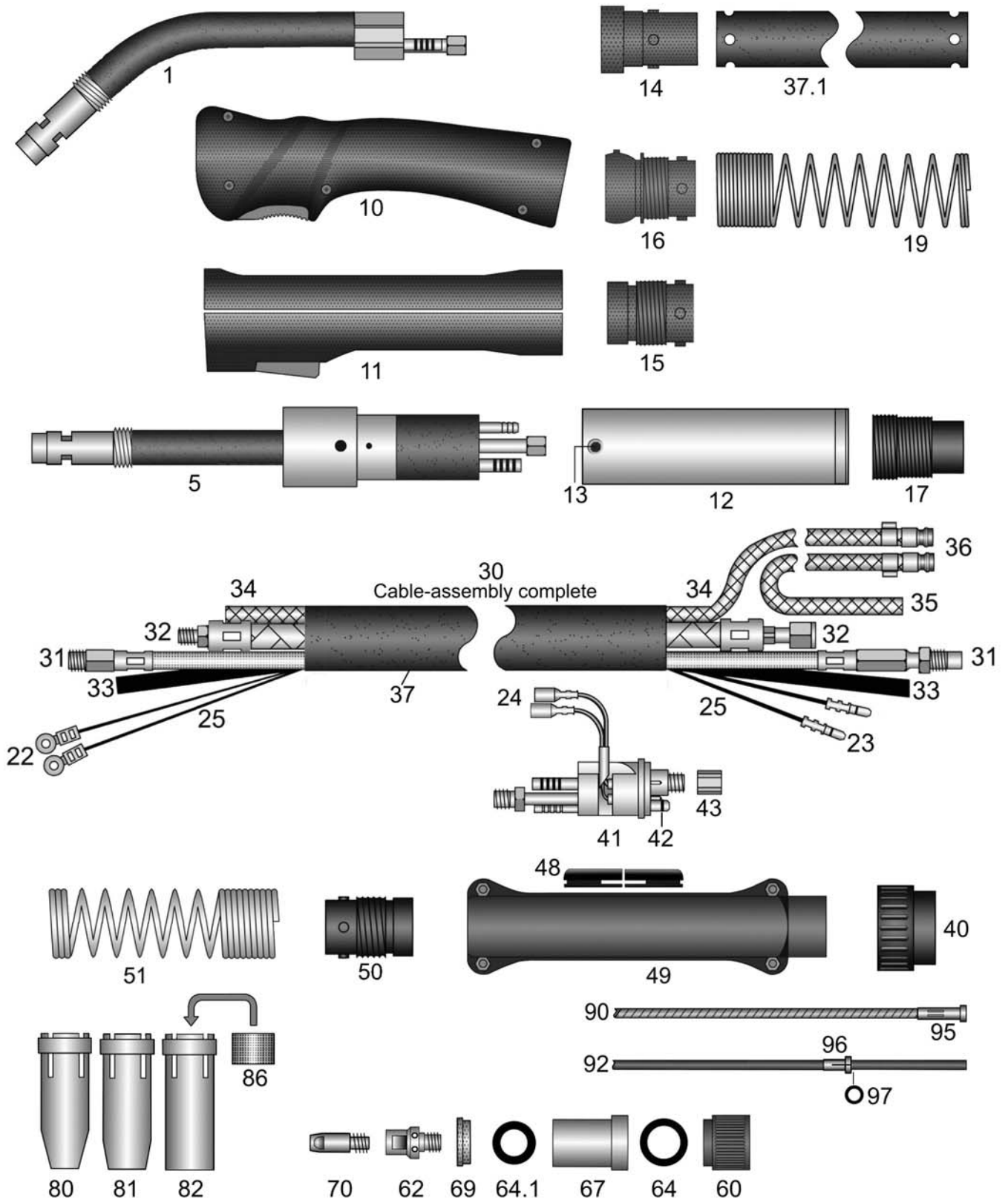
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MHS ERWIN-500

water-cooled

500 Ampere at 100% duty cycle (CO₂) - 450 Ampere at 100% duty cycle (mixed gas)



Operating instruction

Screw laminated fabric-tension sleeve right-hand thread (60) down until it goes no further. Put large o-ring (64) against the fabric tension sleeve (60). Now mount the water-jacket (67) on the fabric tension sleeve (60) by pushing it over the o-ring (64). Put the small o-ring (64.1) into the water jacket (67) and put the insulating sleeve (69) on top. Now screw in the tip-holder (62) and tighten it firmly using an open end wrench. Now screw back the fabric tension sleeve a little to give some pressure to the o-rings underneath the water jacket. The o-rings are pressed against the water jacket sealing the water circulation between them. Finally screw in contact tip (70) and mount the gas nozzle (80, 81, 82) with insulating sleeve (86).

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Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)****Art.-No.**

95100311	Torch MHS ERWIN-500 / 3m EURO central adapter
95100411	Torch MHS ERWIN-500 / 4m EURO central adapter
95100511	Torch MHS ERWIN-500 / 5m EURO central adapter
95150311	AUTomatic-torch MHS ERWIN-500 / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

95100301	Torch MHS ERWIN-500 / 3m
95100401	Torch MHS ERWIN-500 / 4m
95100501	Torch MHS ERWIN-500 / 5m
95150301	AUTomatic-torch MHS ERWIN-500 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch bodies and AUTomatic torch bodies with rubber insulation, very massive power conduit and max. cooling water conduit.

1	95191001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	95191501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
o.A	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	94291202	Laminated fabric-tension sleeve with right hand thread
62	92981011	Contact tip holder IT-M8 AD17-L28mm
64	94289083	O-Ring ID17-W4mm (rear)
64.1	94289084	O-Ring ID14-W4mm (front)
67	94291281	Brass water-jacket nickel-plated
69	94912602	Insulating sleeve plugged
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
80	95930021	Gas nozzle conical-ID14mm (long cone)
81	95930001	Gas nozzle conical-ID17mm
82	95933001	Gas nozzle cylindric-21mm
86	92912101	Insulating fits gas nozzle
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO₂) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS ROCKET-1 water-cooled

The factory standard gear is marked in red.



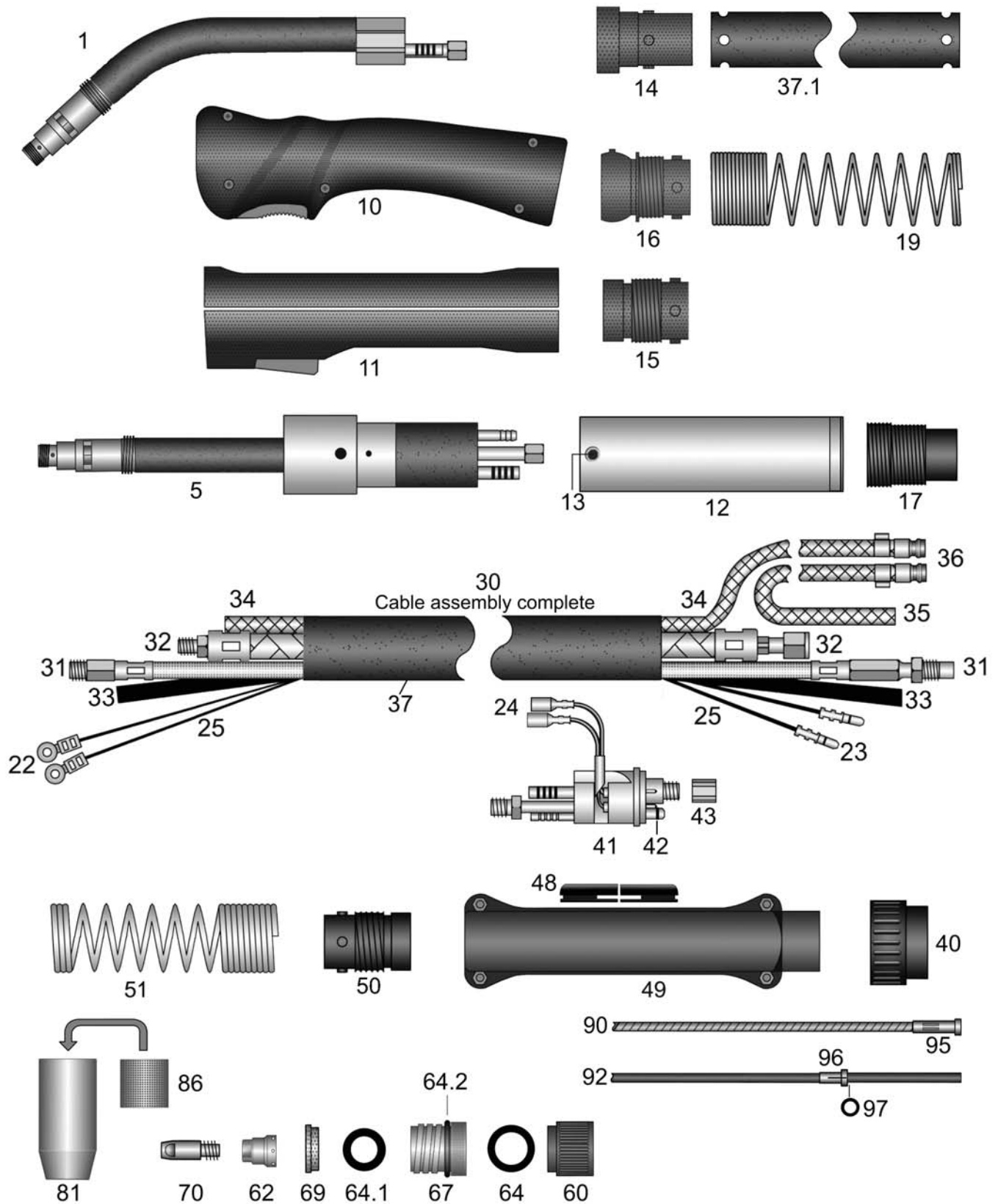
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MHS ROCKET - 1 water-cooled

500 Ampere at 100% duty cycle (CO₂) - 450 Ampere at 100% duty cycle (mixed gas)



Operating instruction

Screw laminated fabric-tension sleeve right-hand thread (60) down until it goes no further. Put large o-ring (64) against the fabric tension sleeve (60). Now mount the water-jacket (67) on the fabric tension sleeve (60) by pushing it over the o-ring (64). Put the small o-ring (64.1) into the water jacket (67) and put the insulating sleeve (69) on top. Now screw in the tip-holder (62) and tighten it firmly using an open end wrench. Now screw back the fabric tension sleeve a little to give some pressure to the o-rings underneath the water jacket. The o-rings are pressed against the water jacket sealing the water circulation between them. Finally screw in contact tip (70) and mount the gas nozzle (81) with insulating sleeve (86).

HSN 902

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)****Art.-No.**

roc00311	Torch MHS ROCKET-1 / 3m EURO central adapter
roc00411	Torch MHS ROCKET-1 / 4m EURO central adapter
roc00511	Torch MHS ROCKET-1 / 5m EURO central adapter
roc50311	AUTomatic-torch MHS ROCKET-1 / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

roc00301	Torch MHS ROCKET-1 / 3m
roc00401	Torch MHS ROCKET-1 / 4m
roc00501	Torch MHS ROCKET-1 / 5m
roc50301	AUTomatic-torch MHS ROCKET-1 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch bodies and AUTomatic torch bodies with rubber insulation, very massive power conduit and max. cooling water conduit.

1	roc91001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	roc91501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
o.A	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	94291202	Laminated fabric-tension sleeve with right hand thread
62	roc98001	Contact tip holder IT-M8 material: Copper
64	94289083	O-Ring ID17-W4mm (rear)
64.1	94289084	O-Ring ID14-W4mm (front)
64.2	12089051	O-ring ID22-W3mm (gas-nozzle rabbet)
67	roc91211	Brazen water-coating, nickel-plated, complete with o-ring as gas-nozzle rabbet
69	roc91201	Insulating sleeve plugged
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
81	roc93001	Screwable gas nozzle conical-ID18mm with nozzle insulator
86	roc91202	Insulating
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO₂) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch

MHS 401-18-D water-cooled (1)

MHS 501-18-D water-cooled (2)

The factory standard gear is marked in red.



Holch Schweißbrenner GmbH
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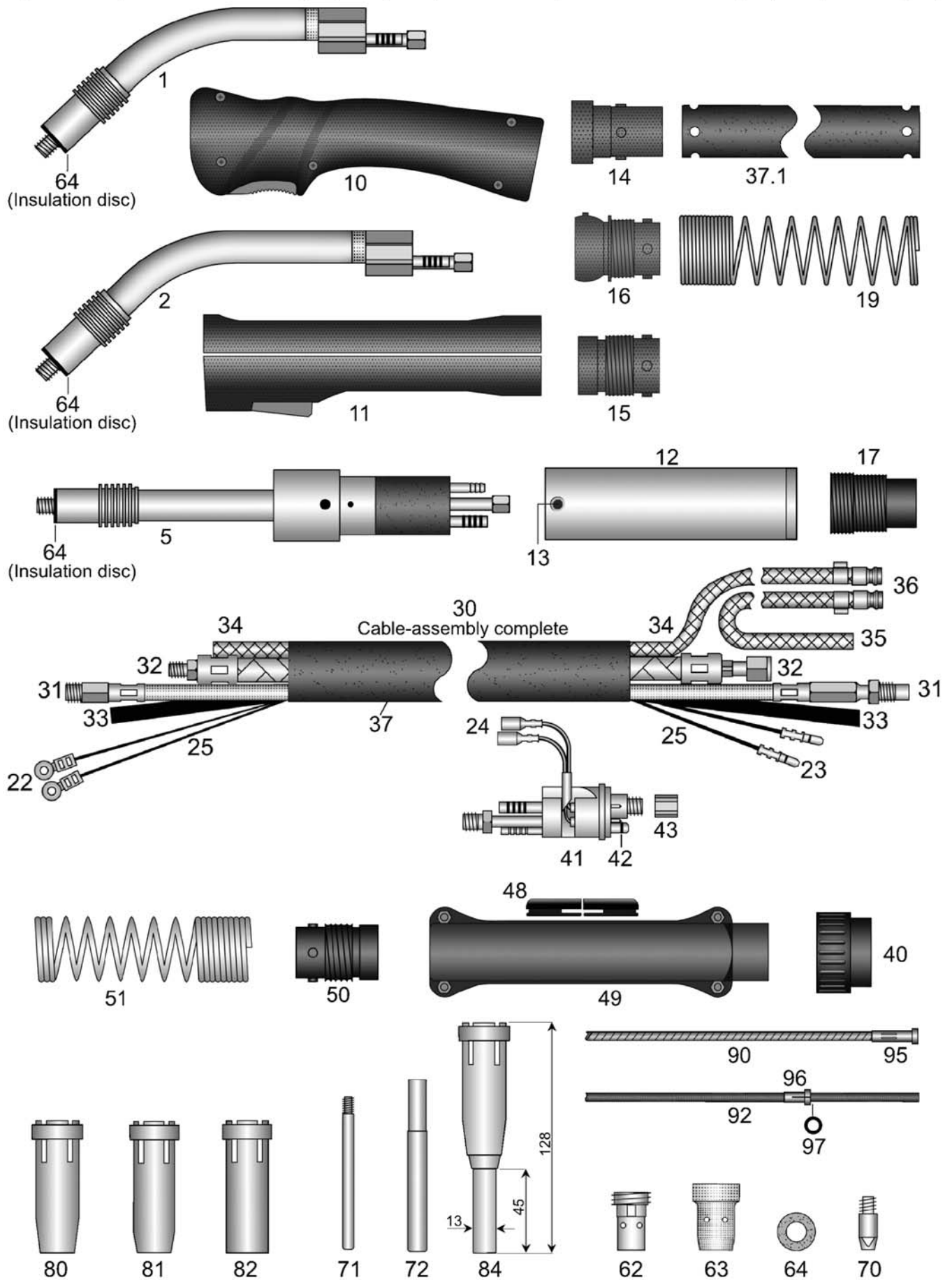
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MHS 401-18-D water-cooled
MHS 501-18-D water-cooled

1)
2)



1) 400 Ampere at 100% duty cycle (CO₂) - 350 Ampere at 100% duty cycle (mixed gas)
2) 450 Ampere at 100% duty cycle (CO₂) - 400 Ampere at 100% duty cycle (mixed gas)



HSN 134

Welding-torch MIG-MAG water-cooled**(1) 400A at 100% duty cycle (CO₂) / (2) 450A at 100% duty cycle (CO₂)****Art.-No.****Spare parts as torch MHS 35-D gas-cooled**

40100311 Torch MHS 401-18-D / 3m EURO central adapter

40100411 Torch MHS 401-18-D / 4m EURO central adapter

40100511 Torch MHS 401-18-D / 5m EURO central adapter

50100311 Torch MHS 501-18-D / 3m EURO central adapter

50100411 Torch MHS 501-18-D / 4m EURO central adapter

50100511 Torch MHS 501-18-D / 5m EURO central adapter

50105311 AUTomatic-torch MHS 501-18-D / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

40100301 Torch MHS 401-18-D / 3m

40100401 Torch MHS 401-18-D / 4m

40100501 Torch MHS 401-18-D / 5m

50100301 Torch MHS 501-18-D / 3m

50100401 Torch MHS 501-18-D / 4m

50100501 Torch MHS 501-18-D / 5m

50105301 AUTomatic-torch MHS 501-18-D / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001 Surcharge: Pistol-shape-handle / stabilizer

N.i. 91912453 Heat protection shield for pistol handle, screws included

29004602 Surcharge: Torch body with custom bending

91900102 Adapter EURO central adapter fits power source with Dinse central adapter

All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube with cooling ribs,max. cooling water conduits, very massive power conduit, complete with contact tip holder M8 and insulator disc.

1 40191001 Torch body MHS 401-18-D with cooling ribs

2 50191001 Torch body MHS 501-18-D with cooling ribs

N.i. 30405001 Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire

5 50191501 AUTomatic-torch body MHS 401/501-18-D

Handles complete with switch, screws and ball joint

10 91912535 Ratio-handle 18mm ball joint

10 91912435 Ratio-handle 18mm standard

N.i. 91912438 Ratio microswitch DC2 also fits RAUCH handle

N.i. 91912439 Push button red for Ratio handle also fits RAUCH handle

N.i. 91912441 Ratio spring for button

11 91912102 Industry-handle 18mm ball joint

11 91912331 Industry-handle 18mm standard

N.i. 91920411 Switch-set for industry-handle for 16/18/20mm (11 parts)

Welding-torch MIG-MAG water-cooled**(1) 400A at 100% duty cycle (CO₂) / (2) 450A at 100% duty cycle (CO₂)**

Art.-No.		
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
<hr/>		
12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
<hr/>		
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
<hr/>		
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
<hr/>		
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
<hr/>		
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
<hr/>		
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
<hr/>		
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
<hr/>		
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO

Welding-torch MIG-MAG water-cooled**(1) 400A at 100% duty cycle (CO₂) / (2) 450A at 100% duty cycle (CO₂)**

Art.-No.		
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
62	50198001	Contact tip holder IT-M8 AG-M16x1-L25mm
62	50198101	Contact tip holder IT-M6 AG-M16x1-L25mm (for narrow-gap contact tip)
63	50191201	Gas diffusor Keripol white
63	50191204	HT-gasdiffusor black power
63	50191203	Ceramic-gas diffusor
64	50191241	Insulator
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
71	68310101	Narrow-gap contact tip M6-L83-AD6 0,8-1,0 nickel-plated
71	68312101	Narrow-gap contact tip M6-L83-AD6 1,2 nickel-plated

Welding-torch MIG-MAG water-cooled**(1) 400A at 100% duty cycle (CO₂) / (2) 450A at 100% duty cycle (CO₂)**

Art.-No.		
N.i.	88551241	Narrow gap-contact tip M8-L85,5-D10 turned down to 6mm 1,2 CuCrZr
72	91921801	Centering wrench for Narrow-gap contact tip M6-L83-D6
80	50193201	Gas nozzle conical-ID14mm
81	50193001	Gas nozzle conical-ID16mm
82	50193301	Gas nozzle cylindric-ID19mm
84	50193361	Narrow-gap gas nozzle with cylinder ID11-AD13-L45mm (overall length 128mm)
N.i.	50191243	Narrow gap-insulation ring black power
N.i.	50193362	Narrow gap-gasnozzle lower part, nickel-coated with PTFE insulation ring
N.i.	50193363	PTFE-seal fits narrow gap-gasnozzle lower part
N.i.	50193364	cylinder (nickel plated) for narrow gap-gasnozzle ID11-AD14mm fits lower part
N.i.	50193365	cylinder (nickel plated) for narrow gap-gasnozzle ID12-AD15mm fits lower part
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 501-SUPER water-cooled

The factory standard gear is marked in red.



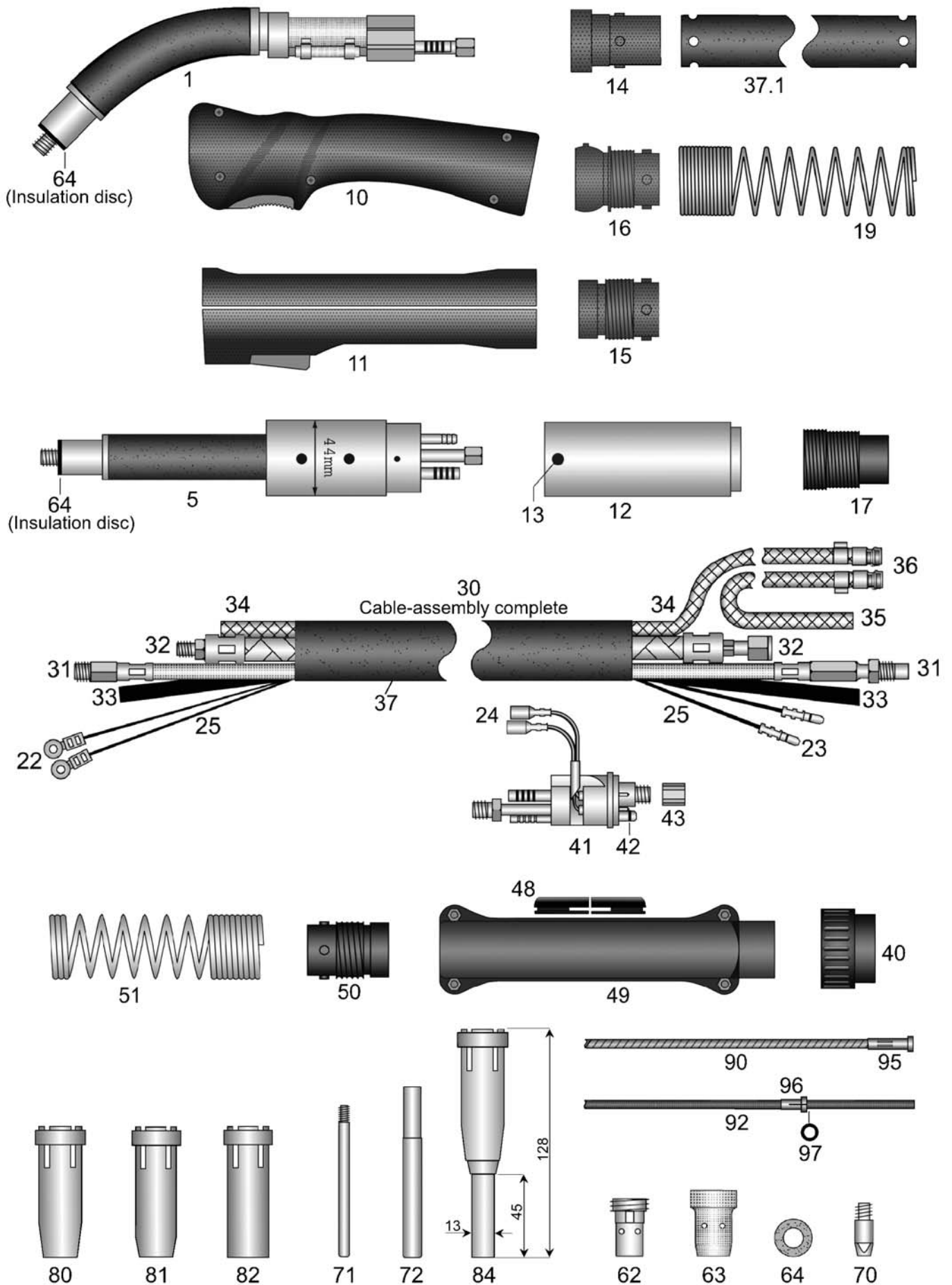
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MHS 501-SUPER with Cascade cooling system

500 Ampere at 100% duty cycle (CO₂) - 450 Ampere at 100% duty cycle (mixed gas)



HSN 136

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 35-D gas-cooled**

50120311	Torch MHS 501-SUPER / 3m EURO central adapter
50120411	Torch MHS 501-SUPER / 4m EURO central adapter
50120511	Torch MHS 501-SUPER / 5m EURO central adapter
50125311	AUTomatic-torch MHS 501-SUPER / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

50120301	Torch MHS 501-SUPER / 3m
50120401	Torch MHS 501-SUPER / 4m
50120501	Torch MHS 501-SUPER / 5m
50125301	AUTomatic-torch MHS 501-SUPER / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch bodies and AUTomatic torch bodies with 2 circuit cooling (Cascade cooling system), complete with contact tip holde M8 and insulator disc.

1	50129101	Torch body MHS 501-SUPER
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	50129151	AUTomatic-torch body MHS 501-SUPER

Handles complete with switch, screws and ball joint

10	91912537	Ratio-handle 21mm ball joint
10	91912437	Ratio-handle 21mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912104	Industry-handle 21mm ball joint
11	91912433	Industry-handle 21mm standard
o.A	91920412	Switch-set for industry-handle for 21mm (9 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912923	AUT handle tube, aluminium-cladded AD44mm
13	91912912	Counter sunk bolt M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
o.A	91912511	AUT cable support spring (long design)

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO₂) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
62	50198001	Contact tip holder IT-M8 AG-M16x1-L25mm
62	50198101	Contact tip holder IT-M6 AG-M16x1-L25mm (for narrow-gap contact tip)
63	50191201	Gas diffusor Keripol white
63	50191204	HT-gasdiffusor black power
63	50191203	Ceramic-gas diffusor
64	50191241	Insulator
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
71	68310101	Narrow-gap contact tip M6-L83-AD6 0,8-1,0 nickel-plated
71	68312101	Narrow-gap contact tip M6-L83-AD6 1,2 nickel-plated
N.i.	88551241	Narrow gap-contact tip M8-L85,5-D10 turned down to 6mm 1,2 CuCrZr
72	91921801	Centering wrench for Narrow-gap contact tip M6-L83-D6
80	50193201	Gas nozzle conical-ID14mm
81	50193001	Gas nozzle conical-ID16mm
82	50193301	Gas nozzle cylindrical-ID19mm
84	50193361	Narrow-gap gas nozzle with cylinder ID11-AD13-L45mm (overall length 128mm)
N.i.	50191243	Narrow gap-insulation ring black power
N.i.	50193362	Narrow gap-gasnozzle lower part, nickel-coated with PTFE insulation ring
N.i.	50193363	PTFE-seal fits narrow gap-gasnozzle lower part

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO₂) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	50193364	cylinder (nickel plated) for narrow gap-gasnozzle ID11-AD14mm fits lower part
N.i.	50193365	cylinder (nickel plated) for narrow gap-gasnozzle ID12-AD15mm fits lower part
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS KONSUL-600 water-cooled

The factory standard gear is marked in red.



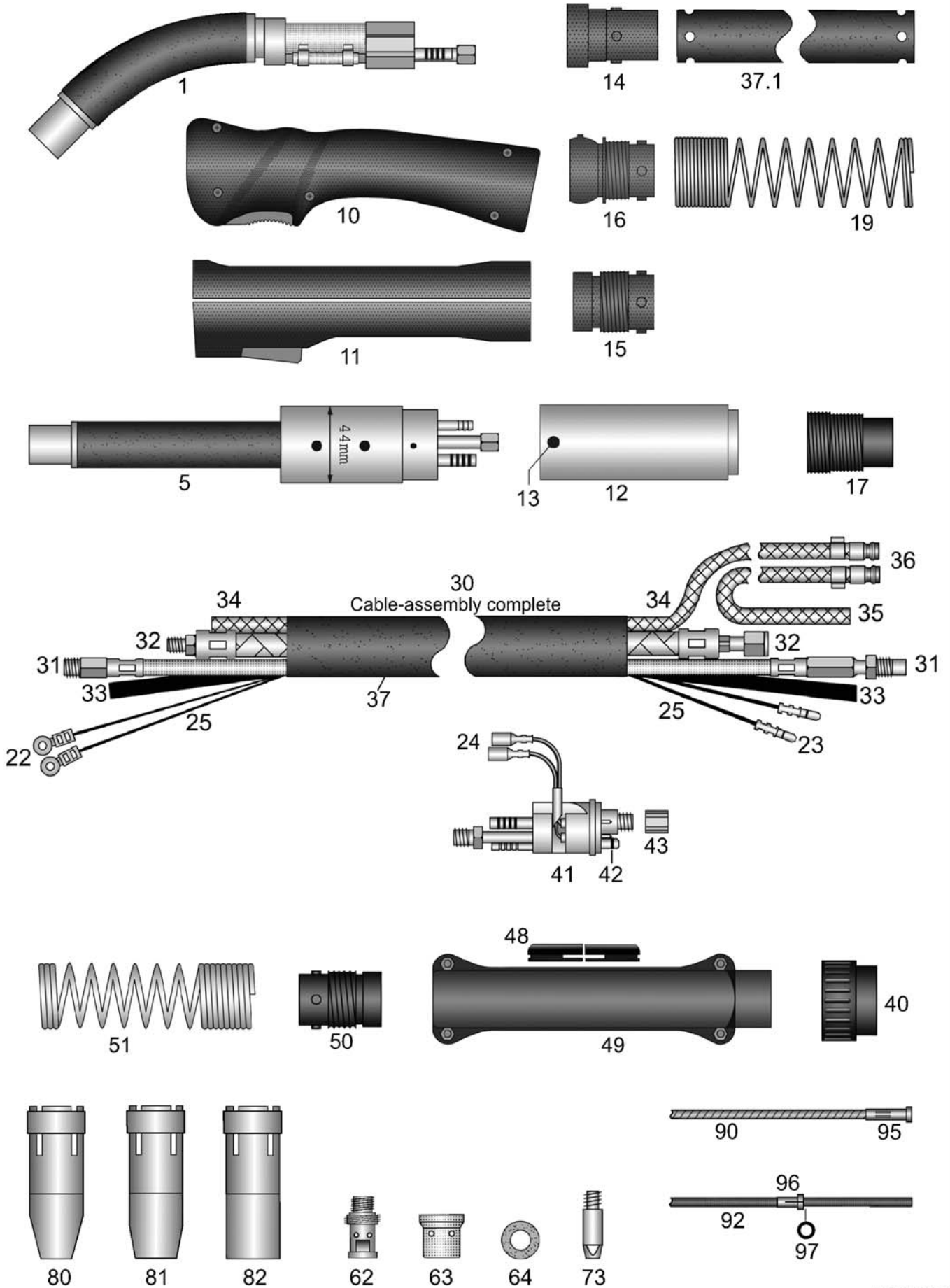
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MHS KONSUL-600 with Cascade cooling system

600 Ampere at 100% duty cycle (CO₂) - 550 Ampere at 100% duty cycle (mixed gas)



HSN 138

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 60 gas-cooled**

60000311	Torch MHS KONSUL-600 / 3m EURO central adapter
60000411	Torch MHS KONSUL-600 / 4m EURO central adapter
60000511	Torch MHS KONSUL-600 / 5m EURO central adapter
60050311	AUTomatic-torch MHS KONSUL-600 / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

60000301	Torch MHS KONSUL-600 / 3m
60000401	Torch MHS KONSUL-600 / 4m
60000501	Torch MHS KONSUL-600 / 5m
60050301	AUTomatic-torch MHS KONSUL-600 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch bodies and AUTomatic torch bodies with 2 circuit cooling (Cascade cooling system), complete with copper contact tip holder M8 and insulator disc.

1	60091001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	60091501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912537	Ratio-handle 21mm ball joint
10	91912437	Ratio-handle 21mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912104	Industry-handle 21mm ball joint
11	91912433	Industry-handle 21mm standard
o.A	91920412	Switch-set for industry-handle for 21mm (9 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912923	AUT handle tube, aluminium-cladded AD44mm
13	91912912	Counter sunk bolt M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO₂) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
62	60098011	Contact tip holder IT-M8 material: Copper, complete with insulator
62	60098012	Contact tip holder IT-M8 material: Brass, complete with insulator
63	60091201	Gas diffusor
64	60091211	Insulator
73	83610401	HD-contact tip M8-L36-AD10 CuCrZr 1,0
73	83612401	HD-contact tip M8-L36-AD10 CuCrZr 1,2
73	83614401	HD-contact tip M8-L36-AD10 CuCrZr 1,4
73	83616401	HD-contact tip M8-L36-AD10 CuCrZr 1,6
73	83620401	HD-contact tip M8-L36-AD10 CuCrZr 2,0
73	83608a41	HD-contact tip M8-L36-D10 CuCrZr 0,8-A for aluminium wire
73	83610a41	HD-contact tip M8-L36-D10 CuCrZr 1,0-A for aluminium wire
73	83612a41	HD-contact tip M8-L36-D10 CuCrZr 1,2-A for aluminium wire
73	83618301	HD-contact tip M8-L36-D10 1,6A nickel-plated for aluminium wire
80	60093011	HD-gas nozzle conical-ID14mm
81	60093001	HD-gas nozzle conical-ID17mm
82	60093301	Gas nozzle cylindric-ID21mm
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO₂) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS KONSUL-601 water-cooled

Cascade cooling heavy duty torch, gas nozzle screwable

The factory standard gear is marked in red.



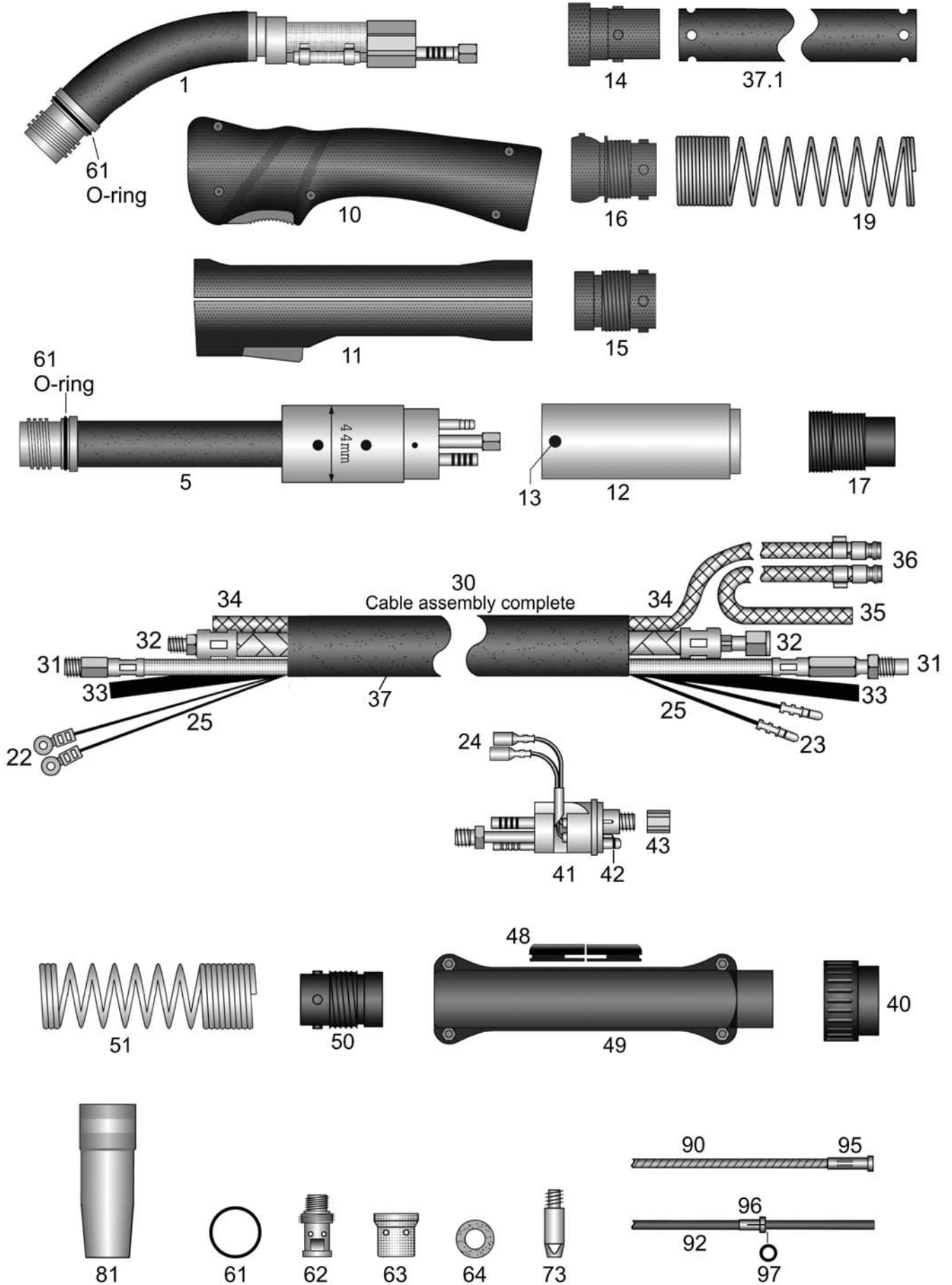
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MHS KONSUL - 601 with Cascade cooling system

600 Ampere at 100% duty cycle (CO₂) - 550 Ampere at 100% duty cycle (mixed gas)



HSN 894

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)****Art.-No.****Spare parts as torch MHS 61 gas-cooled**

60100311	Torch MHS KONSUL-601 / 3m EURO central adapter gas nozzle screwable
60100411	Torch MHS KONSUL-601 / 4m EURO central adapter gas nozzle screwable
60100511	Torch MHS KONSUL-601 / 5m EURO central adapter gas nozzle screwable
60150311	AUTomatic-torch MHS KONSUL-601 / 3m EURO central adapter gas nozzle screwable

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

60100301	Torch MHS KONSUL-601 / 3m gas nozzle screwable
60100401	Torch MHS KONSUL-601 / 4m gas nozzle screwable
60100501	Torch MHS KONSUL-601 / 5m gas nozzle screwable
60150301	AUTomatic-torch MHS KONSUL-601 / 3m gas nozzle screwable

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch bodies and AUTomatic torch bodies with 2 circuit cooling (Cascade cooling system), complete with copper contact tip holder M8 and insulator disc.

1	60191001	Torch body fits gas nozzle screwable
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	60191501	AUTomatic-torch body fits gas nozzle screwable

Handles complete with switch, screws and ball joint

10	91912537	Ratio-handle 21mm ball joint
10	91912437	Ratio-handle 21mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912104	Industry-handle 21mm ball joint
11	91912433	Industry-handle 21mm standard
o.A	91920412	Switch-set for industry-handle for 21mm (9 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912923	AUT handle tube, aluminium-cladded AD44mm
13	91912912	Counter sunk bolt M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
61	91914901	O-ring ID20,35-W1,78mm
62	60098011	Contact tip holder IT-M8 material: Copper, complete with insulator
62	60098012	Contact tip holder IT-M8 material: Brass, complete with insulator
63	60091201	Gas diffusor
64	60091211	Insulator
73	83610401	HD-contact tip M8-L36-AD10 CuCrZr 1,0
73	83612401	HD-contact tip M8-L36-AD10 CuCrZr 1,2
73	83614401	HD-contact tip M8-L36-AD10 CuCrZr 1,4
73	83616401	HD-contact tip M8-L36-AD10 CuCrZr 1,6
73	83620401	HD-contact tip M8-L36-AD10 CuCrZr 2,0
73	83608a41	HD-contact tip M8-L36-D10 CuCrZr 0,8-A for aluminium wire
73	83610a41	HD-contact tip M8-L36-D10 CuCrZr 1,0-A for aluminium wire
73	83612a41	HD-contact tip M8-L36-D10 CuCrZr 1,2-A for aluminium wire
73	83618301	HD-contact tip M8-L36-D10 1,6A nickel-plated for aluminium wire
81	60193001	Screwable gas nozzle conical-ID17mm
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS 620 water-cooled

The factory standard gear is marked in red.



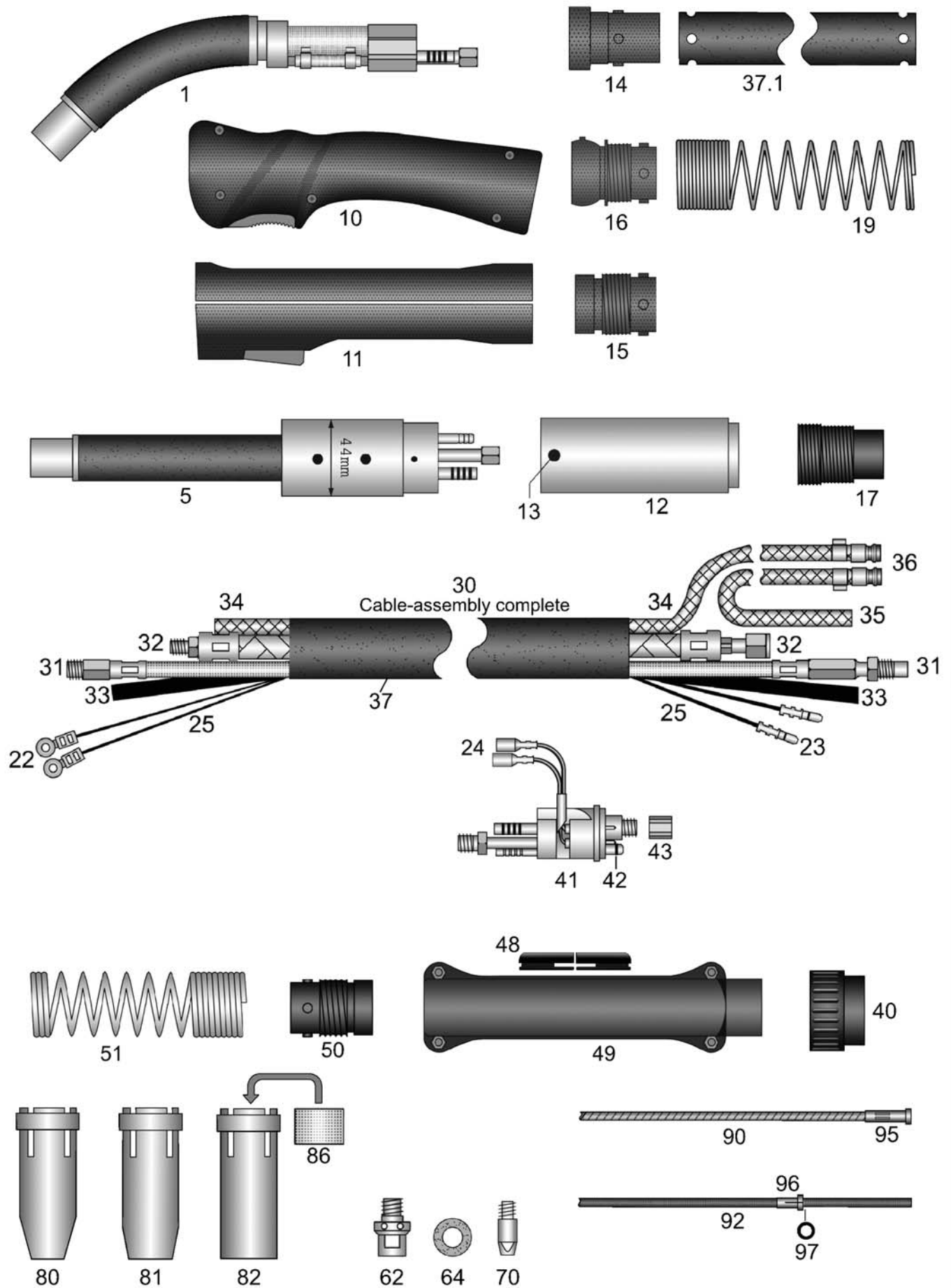
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MHS 620 with Cascade cooling system

600 Ampere at 100% duty cycle (CO₂) - 550 Ampere at 100% duty cycle (mixed gas)



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Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)****Art.-No.**

62000311	Torch MHS 620 / 3m EURO central adapter
62000411	Torch MHS 620 / 4m EURO central adapter
62000511	Torch MHS 620 / 5m EURO central adapter
62050311	AUTomatic-torch MHS 620 / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

62000301	Torch MHS 620 / 3m
62000401	Torch MHS 620 / 4m
62000501	Torch MHS 620 / 5m
62050301	AUTomatic-torch MHS 620 / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

Torch bodies and AUTomatic torch bodies with 2 circuit cooling (Cascade cooling system), complete with contact tip holder M8 and insulator disc.

1	62091001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	62091501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912537	Ratio-handle 21mm ball joint
10	91912437	Ratio-handle 21mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912104	Industry-handle 21mm ball joint
11	91912433	Industry-handle 21mm standard
N.i.	91920412	Switch-set for industry-handle for 21mm (9 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912923	AUT handle tube, aluminium-cladded AD44mm
13	91912912	Counter sunk bolt M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
o.A	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO2) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
62	92981011	Contact tip holder IT-M8 AD17-L28mm
64	62091201	Insulator
70	83008001	Contact tip M8-L30-AD10 0,8
70	83010001	Contact tip M8-L30-AD10 1,0
70	83012001	Contact tip M8-L30-AD10 1,2
70	83014001	Contact tip M8-L30-AD10 1,4
70	83016001	Contact tip M8-L30-AD10 1,6
70	83020001	Contact tip M8-L30-AD10 2,0
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83008301	Contact tip M8-L30-AD10 0,8 nickel-plated
70	83010301	Contact tip M8-L30-AD10 1,0 nickel-plated
70	83012301	Contact tip M8-L30-AD10 1,2 nickel-plated
70	83014301	Contact tip M8-L30-AD10 1,4 nickel-plated
70	83016301	Contact tip M8-L30-AD10 1,6 nickel-plated
70	83008a01	Contact tip M8-L30-D10 0,8-A for aluminium wire
70	83010a01	Contact tip M8-L30-D10 1,0-A for aluminium wire
70	83012a01	Contact tip M8-L30-D10 1,2-A for aluminium wire
70	83018301	Contact tip M8-L30-D10 1,6-A nickel-plated for aluminium wire
80	95930021	Gas nozzle conical-ID14mm (long cone)
81	95930001	Gas nozzle conical-ID17mm
82	95933001	Gas nozzle cylindric-21mm
86	92912101	Insulating fits gas nozzle
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter

Welding-torch MIG-MAG water-cooled**600A at 100% duty cycle (CO₂) - 550A at 100% duty cycle (mixed gas)**

Art.-No.		
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS SENATOR-800-D water-cooled

The factory standard gear is marked in red.



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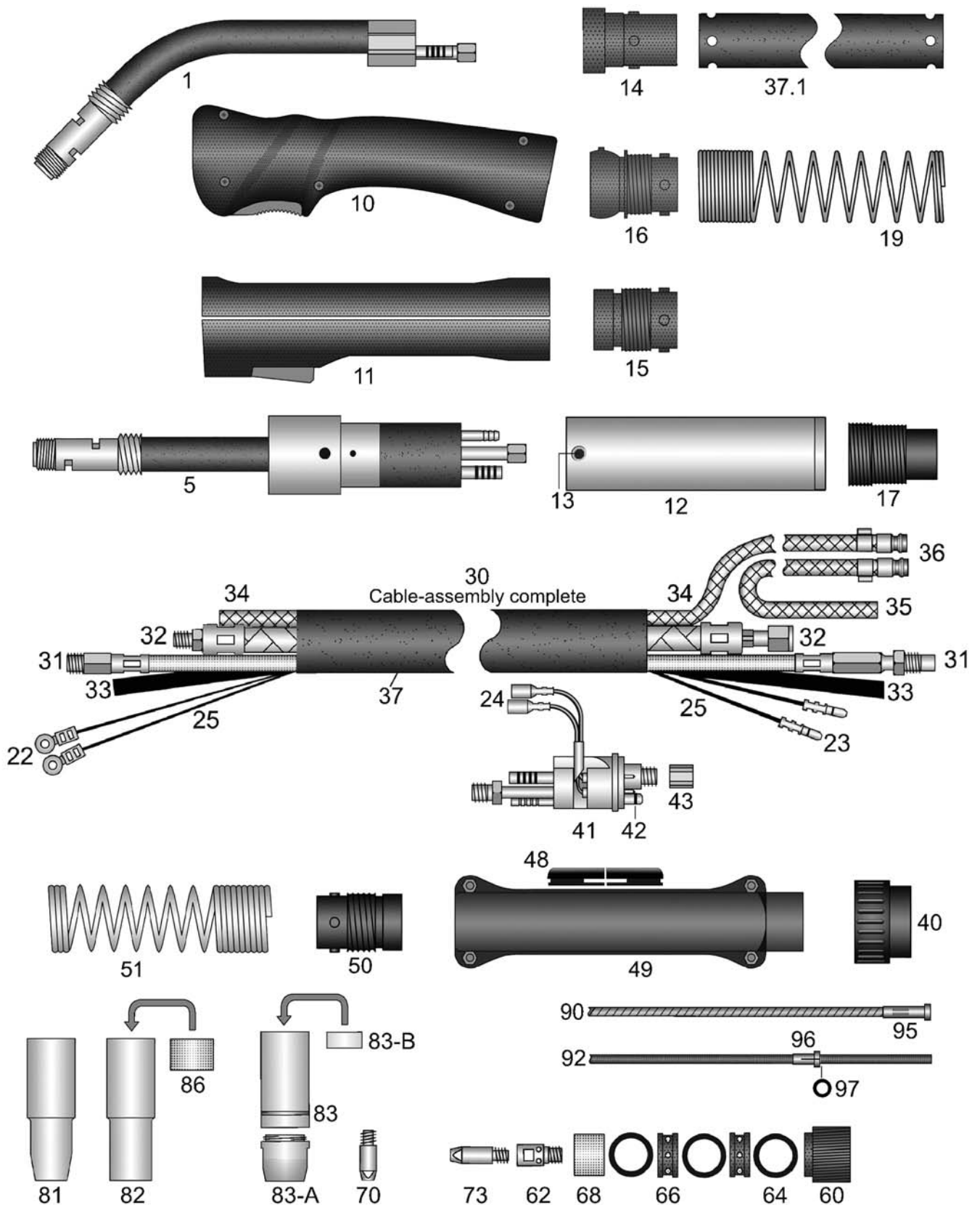
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MHS SENATOR-800-D

water-cooled



700 Ampere at 100% duty cycle (CO₂) - 650 Ampere at 100% duty cycle (mixed gas)



Operating instruction

Screw laminated fabric-tension sleeve right-hand thread (60) down until it goes no further. Then, mount rubber flating (64), water distributor (66), a second rubber flating (64), a second water distributor (66) and a third rubber flating (64). Screw insulating sleeve left-hand thread (68) until it goes no further. Put insulating sleeve (86) into gas nozzle (81,82). Slide gas nozzle over the cooling system. Screw back laminated fabric-tension sleeve (60), to press the parts together. The rubber flatings are being compressed and pushed to the outside, sealing the water circulation system and holding the gas nozzle.

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Welding-torch MIG-MAG water-cooled**700A at 100% duty cycle (CO2) - 650A at 100% duty cycle (mixed gas)**

Art.-No.	
80000311	Torch MHS SENATOR-800-D / 3m EURO central adapter
80000411	Torch MHS SENATOR-800-D / 4m EURO central adapter
80000511	Torch MHS SENATOR-800-D / 5m EURO central adapter
80050311	AUTomatic-torch SENATOR-800-D / 3m EURO central adapter

**For torches without EURO central-adaptor the following prices apply.
Please note that for some special machine side connections surcharges may arise,
which you will find in the appendix "A" custom made products.**

80000301	Torch MHS SENATOR-800-D / 3m
80000401	Torch MHS SENATOR-800-D / 4m
80000501	Torch MHS SENATOR-800-D / 5m
80050301	AUTomatic-torch MHS SENATOR-800-D / 3m

Special lengths for hand- and AUTomatic-torches please notice appendix "B".

Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"

pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending

91900102	Adapter EURO central adapter fits power source with Dinse central adapter
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Torch bodies and AUTomatic torch bodies with rubber insulation, very massive power conduit, max. cooling water conduit, complete with contact tip holder M8.

1	80091001	Torch body
N.i.	30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5	80091501	AUTomatic-torch body

Handles complete with switch, screws and ball joint

10	91912536	Ratio-handle 20mm ball joint
10	91912436	Ratio-handle 20mm standard
N.i.	91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439	Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441	Ratio spring for button
11	91912103	Industry-handle 20mm ball joint
11	91912431	Industry-handle 20mm standard
o.A	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support

12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube

14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side

Welding-torch MIG-MAG water-cooled**700A at 100% duty cycle (CO2) - 650A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch MIG-MAG water-cooled**700A at 100% duty cycle (CO2) - 650A at 100% duty cycle (mixed gas)**

Art.-No.		
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	92912401	Laminated fabric-tension sleeve with right hand thread
62	92981001	Contact tip holder IT-M8 AD13-L28mm
64	92912201	Flat rubber ring ID17-W2,5mm
66	92912301	Water distributor
68	92912001	Insulating sleeve with left hand thread
Contact tips M8x30 fits gasnozzle coating with gasnozzle L-28mm two parts design (pos.83 + pos.83-A)		
70	83010401	Contact tip M8-L30-AD10 CuCrZr 1,0
70	83012401	Contact tip M8-L30-AD10 CuCrZr 1,2
70	83014401	Contact tip M8-L30-AD10 CuCrZr 1,4
70	83016401	Contact tip M8-L30-AD10 CuCrZr 1,6
70	83020401	Contact tip M8-L30-AD10 CuCrZr 2,0
70	83024301	Contact tip M8-L30-D10 2,4 nickel-plated
70	83028301	Contact tip M8-L30-D10 2,8 nickel-plated
73	83610401	HD-contact tip M8-L36-AD10 CuCrZr 1,0
73	83612401	HD-contact tip M8-L36-AD10 CuCrZr 1,2
73	83614401	HD-contact tip M8-L36-AD10 CuCrZr 1,4
73	83616401	HD-contact tip M8-L36-AD10 CuCrZr 1,6
73	83620401	HD-contact tip M8-L36-AD10 CuCrZr 2,0
73	83624401	HD-contact tip M8-L36-AD10 CuCrZr 2,4
73	83628401	HD-contact tip M8-L36-AD10 CuCrZr 2,8
73	83608a41	HD-contact tip M8-L36-D10 CuCrZr 0,8-A for aluminium wire
73	83610a41	HD-contact tip M8-L36-D10 CuCrZr 1,0-A for aluminium wire
73	83612a41	HD-contact tip M8-L36-D10 CuCrZr 1,2-A for aluminium wire
73	83618301	HD-contact tip M8-L36-D10 1,6A nickel-plated for aluminium wire
81	80093011	HD-gas nozzle with coolant chamber conical-ID17mm
82	80093301	HD-gas nozzle with coolant chamber cylindric-ID21mm
N.i.	80093001	HD-gas nozzle with coolant chamber cylindric-ID21mm (short) fits contact tip M8x30
Please use M8x30 contact tips for the following gas nozzles.		
83	80093021	Gasnozzle coating double walled fits Gasnozzle L28-ID19mm and contact tip M8x30
83-A	80093031	Gasnozzle L28-ID19mm fits gasnozzle coating double walled and contact tip M8x30
83-B	80091201	Splatter protection fits gasnozzle coating double walled
86	92912101	Insulating fits gas nozzle
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter

Welding-torch MIG-MAG water-cooled**700A at 100% duty cycle (CO2) - 650A at 100% duty cycle (mixed gas)**

Art.-No.		
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
90	30450311	Flatwire spiral-line ID3,0-AD4,5 fits 3m / EURO central adapter
90	30450411	Flatwire spiral-line ID3,0-AD4,5 fits 4m / EURO central adapter
90	30450511	Flatwire spiral-line ID3,0-AD4,5 fits 5m / EURO central adapter
90	35490311	Flatwire spiral-line ID3,5-AD4,9 fits 3m / EURO central adapter
90	35490411	Flatwire spiral-line ID3,5-AD4,9 fits 4m / EURO central adapter
90	35490511	Flatwire spiral-line ID3,5-AD4,9 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch MHS YETI-900 water-cooled

The factory standard gear is marked in red.



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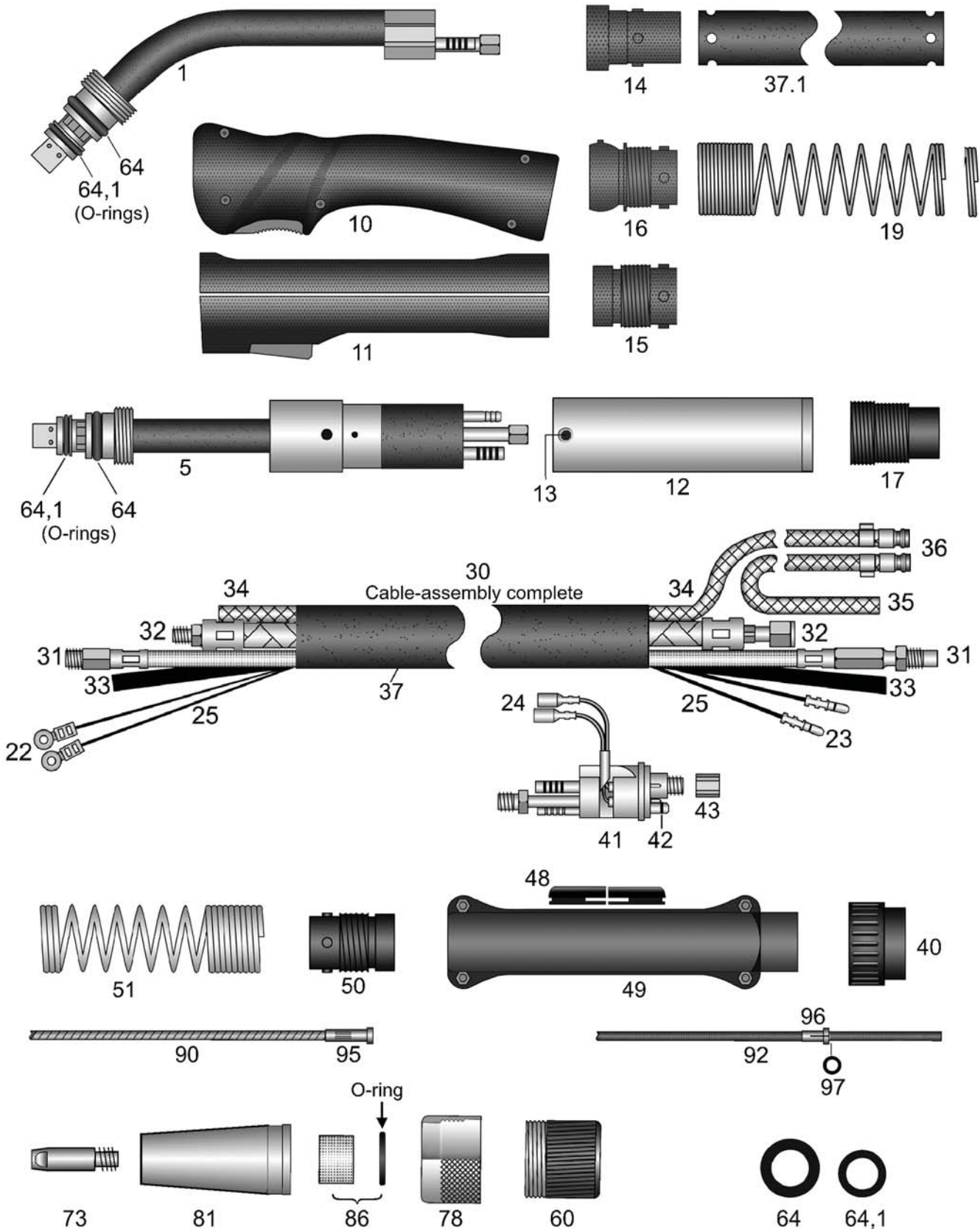
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MHS YETI-900

water-cooled

900 Ampere at 100% duty cycle (CO₂) - 800 Ampere at 100% duty cycle (mixed gas)



Operating instruction

Screw laminated fabric-tension sleeve right-hand thread (60) down until it goes no further. Put on the gas nozzle (81), with insulating (86) and sealing ring already placed inside the nozzle, mount knurled cap nut (78) and tighten it. Release gas nozzle: screw off knurled cap nut. Screw fabric tension sleeve (60) towards the gas nozzle to the large o-ring. The gas nozzle can now be removed.

HSN 141

Welding-torch MIG-MAG water-cooled**900A at 100% duty cycle (CO2) - 800A at 100% duty cycle (mixed gas)**

Art.-No.	
yeti0311	Torch MHS YETI-900 / 3m EURO central adapter
yeti0411	Torch MHS YETI-900 / 4m EURO central adapter
yeti0511	Torch MHS YETI-900 / 5m EURO central adapter
yeti5311	AUTomatic-torch MHS YETI-900 / 3m EURO central adapter
For torches without EURO central-adaptor the following prices apply. Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.	
yeti0301	Torch MHS YETI-900 / 3m
yeti0401	Torch MHS YETI-900 / 4m
yeti0501	Torch MHS YETI-900 / 5m
yeti5301	AUTomatic-torch MHS YETI-900 / 3m
Special lengths for hand- and AUTomatic-torches please notice appendix "B".	
Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"	
pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter
Torch bodies and AUTomatic torch bodies with rubber insulation, very massive power conduit, max. cooling water conduit, complete with a set of special o-rings and laminated fabric tension sleeve.	
1 yeti9101	Torch body
N.i. 30405001	Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
5 yeti9151	AUTomatic-torch body
Handles complete with switch, screws and ball joint	
10 91912537	Ratio-handle 21mm ball joint
10 91912437	Ratio-handle 21mm standard
N.i. 91912438	Ratio microswitch DC2 also fits RAUCH handle
N.i. 91912439	Push button red for Ratio handle also fits RAUCH handle
N.i. 91912441	Ratio spring for button
N.i. 91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i. 91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
11 91912104	Industry-handle 21mm ball joint
11 91912433	Industry-handle 21mm standard
o.A 91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
12 91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13 91912911	Holding screw M4x6mm for AUT handle tube
14 50191251	Rubber cable-support RETRO
15 91912701	Spring socket pistol side standard
16 91912704	Spring socket pistol side ball joint
17 91912711	AUT spring socket

Welding-torch MIG-MAG water-cooled**900A at 100% duty cycle (CO2) - 800A at 100% duty cycle (mixed gas)**

Art.-No.		
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
<p>Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!</p>		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
<p>Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"</p>		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
<p>Supply lines for AUTomatic torches.</p>		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
<p>Reel goods: Prices are per meter and only applicable if a complete reel is purchased.</p>		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter

Welding-torch MIG-MAG water-cooled**900A at 100% duty cycle (CO2) - 800A at 100% duty cycle (mixed gas)**

Art.-No.		
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
60	yeti9121	Laminated fabric-tension insulator
64	99999901	Set of O-rings (large + small) material: hepthon951
64.1	99999901	Set of O-rings (large + small) material: hepthon951
73	83610401	HD-contact tip M8-L36-AD10 CuCrZr 1,0
73	83612401	HD-contact tip M8-L36-AD10 CuCrZr 1,2
73	83614401	HD-contact tip M8-L36-AD10 CuCrZr 1,4
73	83616401	HD-contact tip M8-L36-AD10 CuCrZr 1,6
73	83620401	HD-contact tip M8-L36-AD10 CuCrZr 2,0
73	83624401	HD-contact tip M8-L36-AD10 CuCrZr 2,4
73	83628401	HD-contact tip M8-L36-AD10 CuCrZr 2,8
73	83608a41	HD-contact tip M8-L36-D10 CuCrZr 0,8-A for aluminium wire
73	83610a41	HD-contact tip M8-L36-D10 CuCrZr 1,0-A for aluminium wire
73	83612a41	HD-contact tip M8-L36-D10 CuCrZr 1,2-A for aluminium wire
73	83618301	HD-contact tip M8-L36-D10 1,6A nickel-plated for aluminium wire
78	yeti9122	Swivel nut for gas nozzle
81	yeti9311	Gas nozzle conical-ID18mm complete with insulating + sealing ring
86	yeti9123	insulating for gas nozzle with sealing ring
Spirals and liners also available in other sizes on inquiry!		
90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
90	30450311	Flatwire spiral-line ID3,0-AD4,5 fits 3m / EURO central adapter
90	30450411	Flatwire spiral-line ID3,0-AD4,5 fits 4m / EURO central adapter
90	30450511	Flatwire spiral-line ID3,0-AD4,5 fits 5m / EURO central adapter
90	35490311	Flatwire spiral-line ID3,5-AD4,9 fits 3m / EURO central adapter
90	35490411	Flatwire spiral-line ID3,5-AD4,9 fits 4m / EURO central adapter
90	35490511	Flatwire spiral-line ID3,5-AD4,9 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter

Welding-torch MIG-MAG water-cooled**900A at 100% duty cycle (CO₂) - 800A at 100% duty cycle (mixed gas)**

Art.-No.		
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

Torch

MHS FRX-5000ws water-cooled (short)

MHS FRX-5000w water-cooled (long)

The factory standard gear is marked in red.



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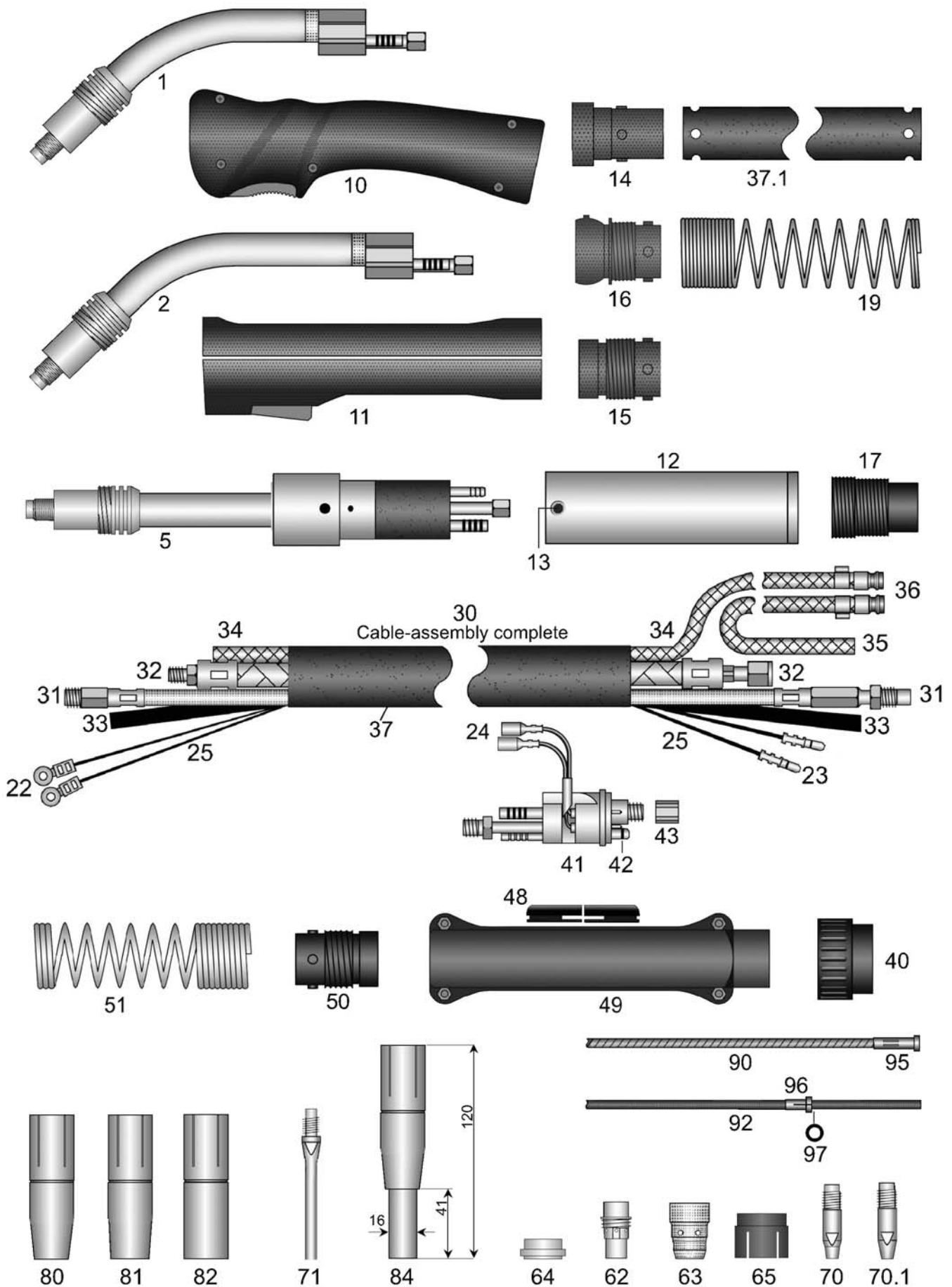
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MHS FRX-5000ws
MHS FRX-5000w

water-cooled
water-cooled



500 Ampere at 100% duty cycle (CO₂) - 450 Ampere at 100% duty cycle (mixed gas)



HSN 134A

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.	
50002311	Torch MHS FRX-5000ws / 3m EURO central adapter (Torch body short)
50002411	Torch MHS FRX-5000ws / 4m EURO central adapter (Torch body short)
50002511	Torch MHS FRX-5000ws / 5m EURO central adapter (Torch body short)
50052311	AUTomatic-torch MHS FRX-5000ws / 3m EURO central adapter (Torch body short)
50001311	Torch MHS FRX-5000w / 3m EURO central adapter
50001411	Torch MHS FRX-5000w / 4m EURO central adapter
50001511	Torch MHS FRX-5000w / 5m EURO central adapter
50051311	AUTomatic-torch MHS FRX-5000w / 3m EURO central adapter
For torches without EURO central-adaptor the following prices apply. Please note that for some special machine side connections surcharges may arise, which you will find in the appendix "A" custom made products.	
50002301	Torch MHS FRX-5000ws / 3m (Torch body short)
50002401	Torch MHS FRX-5000ws / 4m (Torch body short)
50002501	Torch MHS FRX-5000ws / 5m (Torch body short)
50052301	AUTomatic-torch MHS FRX-5000ws / 3m (Torch body short)
50001301	Torch MHS FRX-5000w / 3m
50001401	Torch MHS FRX-5000w / 4m
50001501	Torch MHS FRX-5000w / 5m
50051301	AUTomatic-torch MHS FRX-5000w / 3m
Special lengths for hand- and AUTomatic-torches please notice appendix "B".	
Torches with flexible and highly heat resistant cable assemblies available for small surcharges! Please see appendix "B"	
pg000001	Surcharge: Pistol-shape-handle / stabilizer
N.i. 91912453	Heat protection shield for pistol handle, screws included
29004602	Surcharge: Torch body with custom bending
91900102	Adapter EURO central adapter fits power source with Dinse central adapter
All torch bodies and AUTomatic torch bodies with teflon insulation, nickel coated brazen outer tube with cooling ribs,max. cooling water conduits, very massive power conduit, complete with contact tip holder M8 and fixation sleeve.	
1	50002911 Torch body MHS FRX-5000ws (short)
2	50001911 Torch body MHS FRX-5000w
N.i.	30405001 Surcharge: with brazen inner tube ID3-AD4mm for aluminium wire
N.i.	50052911 AUTomatic-torch body MHS FRX-5000ws (short)
5	50051911 AUTomatic-torch body MHS FRX-5000w
Handles complete with switch, screws and ball joint	
10	91912535 Ratio-handle 18mm ball joint
10	91912435 Ratio-handle 18mm standard
N.i.	91912438 Ratio microswitch DC2 also fits RAUCH handle
N.i.	91912439 Push button red for Ratio handle also fits RAUCH handle
N.i.	91912441 Ratio spring for button
11	91912102 Industry-handle 18mm ball joint

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
11	91912331	Industry-handle 18mm standard
N.i.	91920411	Switch-set for industry-handle for 16/18/20mm (11 parts)
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
12	91912921	AUT handle tube, brass-cladded AD38mm for AUT-torch standard
13	91912911	Holding screw M4x6mm for AUT handle tube
14	50191251	Rubber cable-support RETRO
15	91912701	Spring socket pistol side standard
16	91912704	Spring socket pistol side ball joint
17	91912711	AUT spring socket
19	91912501	Cable support spring handle-side
N.i.	91912511	AUT cable support spring (long design)
N.i.	91912521	AUT suspension spring
N.i.	91912531	AUT carabiner
N.i.	10089001	Single stroke button (rubber)
22	91902811	Cable-plug for industry-handle
23	91902901	Male connector cable-plug for machine side EURO central adapter
24	91903001	Female connector cable-plug fits machine side EURO central adapter
25	91902502	Meter control line flat, 4x0,5mm ² (available on reels 200m)
Spare cable-assemblies complete with cable support spring and fittings. Standard or with ball joint - please specify!		
30	09200312	Spare cable assembly 3m / without EURO central adapter
30	09200412	Spare cable assembly 4m / without EURO central adapter
30	09200512	Spare cable assembly 5m / without EURO central adapter
Supply lines and thermo-hoses, superflexible and highly heat resistant please see appendix "C" and "D"		
31	0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
31	0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
31	0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
32	09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
32	09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
32	09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
Supply lines for AUTomatic torches.		
31	0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
32	09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
Reel goods: Prices are per meter and only applicable if a complete reel is purchased.		
33	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
34	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
35	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
36	91901001	Cooling liquid plug nipples EURO
N.i.	91901008	Closing cap blue fits cooling liquid plug nipples EURO

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
N.i.	91901009	Closing cap red fits cooling liquid plug nipples EURO
37	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
37.1	25151311	Rubberized fabric protective hose ID25-W1,5mm perforated 3m / EURO central adapter
37.1	25151411	Rubberized fabric protective hose ID25-W1,5mm perforated 4m / EURO central adapter
37.1	25151511	Rubberized fabric protective hose ID25-W1,5mm perforated 5m / EURO central adapter
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900201	Central adapter fixed contact-pins EURO central adapter
41	91900206	Central adapter spring contact-pins EURO central adapter
42	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
43	91900901	Coupling nut IT-M10x1 (rounded edges) fits EURO central adapter
48	91901011	Rubber-hose-fence for cable support
49	91900561	Cable support machine side (screws included) EURO central adapter
N.i.	91920702	Screw M3x11,5mm for Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket for Ratio/Industry/RAUCH handle and cable support
N.i.	91900601	Attachment screw M4x6mm for cable support EURO central adapter
50	91912801	Spring-socket EURO central adapter
51	91912601	Cable support spring fits EURO / ESAB central adapter
62	fr980301	Contact tip holder
63	fr912303	Gas diffusor
64	fr912302	Insulating ring
65	fr931301	Fastening sleeve
70	10391001	Contact tip M10-L39mm 1,0
70	10391201	Contact tip M10-L39mm 1,2
70	10391401	Contact tip M10-L39mm 1,4
70	10391601	Contact tip M10-L39mm 1,6
70	10391041	Contact tip M10-L39mm 1,0 CuCrZr
70	10391241	Contact tip M10-L39mm 1,2 CuCrZr
70	10391441	Contact tip M10-L39mm 1,4 CuCrZr
70	10391641	Contact tip M10-L39mm 1,6 CuCrZr
70.1	10401241	Contact tip M10-L40mm 1,2 CuCrZr
70.1	10401441	Contact tip M10-L40mm 1,4 CuCrZr
71	10821241	Narrow-gap contact tip M10-L82mm 1,2 CuCrZr
80	fr930301	Gas nozzle conical-ID15mm
81	fr930302	Gas nozzle conical-ID17,2mm
82	fr930303	Gas nozzle cylindric-ID21mm
84	fr930305	Narrow-gap gas nozzle AD16-ID13-L41mm

Spirals and liners also available in other sizes on inquiry!

90	20450311	Guide spiral-line ID2,0-AD4,5 fits 3m / EURO central adapter
90	20450411	Guide spiral-line ID2,0-AD4,5 fits 4m / EURO central adapter
90	20450511	Guide spiral-line ID2,0-AD4,5 fits 5m / EURO central adapter

Welding-torch MIG-MAG water-cooled**500A at 100% duty cycle (CO2) - 450A at 100% duty cycle (mixed gas)**

Art.-No.		
90	25450311	Guide spiral-line ID2,5-AD4,5 fits 3m / EURO central adapter
90	25450411	Guide spiral-line ID2,5-AD4,5 fits 4m / EURO central adapter
90	25450511	Guide spiral-line ID2,5-AD4,5 fits 5m / EURO central adapter
92	20393311	PTFE-carbon core liner ID2,0-AD3,9 fits 3m / EURO central adapter
92	20393411	PTFE-carbon core liner ID2,0-AD3,9 fits 4m / EURO central adapter
92	20393511	PTFE-carbon core liner ID2,0-AD3,9 fits 5m / EURO central adapter
92	27473311	PTFE-carbon core liner ID2,7-AD4,7 fits 3m / EURO central adapter
92	27473411	PTFE-carbon core liner ID2,7-AD4,7 fits 4m / EURO central adapter
92	27473511	PTFE-carbon core liner ID2,7-AD4,7 fits 5m / EURO central adapter
92	20406311	PA-core liner black ID2,0-AD4,0 fits 3m / EURO central adapter
92	20406411	PA-core liner black ID2,0-AD4,0 fits 4m / EURO central adapter
92	20406511	PA-core liner black ID2,0-AD4,0 fits 5m / EURO central adapter
92	23476311	PA-core liner black ID2,3-AD4,7 fits 3m / EURO central adapter
92	23476411	PA-core liner black ID2,3-AD4,7 fits 4m / EURO central adapter
92	23476511	PA-core liner black ID2,3-AD4,7 fits 5m / EURO central adapter
92	29476311	PA-core liner black ID2,9-AD4,7 fits 3m / EURO central adapter
92	29476411	PA-core liner black ID2,9-AD4,7 fits 4m / EURO central adapter
92	29476511	PA-core liner black ID2,9-AD4,7 fits 5m / EURO central adapter
N.i.	20405002	Brass spiral liner blue L300mm IG fits AD3,9/4,0mm
N.i.	20405001	Brass spiral liner green L300mm IG fits AD4,7mm
95	91905721	Nipple fits spiral liner EURO central adapter AD 4,5mm
96	91906111	Nipple fits core liner EURO central adapter AD3,9/4,0mm
96	91906121	Nipple fits core liner EURO central adapter AD 4,7mm
97	91906131	O-ring ID3,5-W1,5 fits core liners
N.i.	91906112	Support tube, brass ID4,4 - AD5,0 - L200mm

A

Custom made products machine side connections

Art.-No.	
for gas-cooled torches	
cl2	Surcharge: fits Cloos-central adapter gas-cooled
cl3	Surcharge: fits Cloos with swivel nut IT-G3/8" tapered sealing gas-cooled
da2	Surcharge: fits Dalex one on one connection gas-cooled
di2	Surcharge: fits Dinse-central adapter gas-cooled
fr1	Surcharge: fits Fronius-central adapter gas-cooled
mg2	Surcharge: fits Messer central adapter (2) gas-cooled
mg5	Surcharge: fits Messer one on one connection gas-cooled
for water-cooled torches	
cl4	Surcharge: fits Cloos-central adapter (Z) coolant conduct through adapter
cl5	Surcharge: fits Cloos central adapter (SZ) coolant conduct outside with snap closing
cl6	Surcharge: fits Cloos one on one connection water-cooled
da3	Surcharge: fits Dalex one on one connection water-cooled
fr2	Surcharge: fits Fronius central adapter coolant conduct through adapter
fr3	Surcharge: fits Fronius central adapter coolant conduct outside with snap closing nipples (EURO)
mg6	Surcharge: fits Messer central adapter (2) water-cooled
mg7	Surcharge: fits Messer one on one connection water-cooled
ni4	Surcharge: fits Nimak one on one connection water-cooled
Adapter for gas and water-cooled torches with EURO central adapter	
91900102	Adapter EURO central adapter fits power source with Dinse central adapter

B

MIG-MAG

Custom made products

Art.-No.**Excess length welding torches****Hand and AUTomatic torches gas-cooled**

2950040g	Surcharge: Torch with coaxial-cable 16mm ² per meter
2950041g	Surcharge: Torch with coaxial-cable 25mm ² per meter
2950042g	Surcharge: Torch with coaxial-cable 35mm ² per meter
2950043g	Surcharge: Torch with coaxial-cable 42mm ² per meter
2950044g	Surcharge: Torch with coaxial-cable 50mm ² per meter

Hand-Welding torches water-cooled

29000600	Surcharge: water-cooled torches (all models) per meter
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AUTomatic welding torches water-cooled

29500400	Surcharge: AUTomatic-welding torches water-cooled (all models) per Meter
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Highly heat resistant and flexible cable assemblies**HT 105 PVC-NIT fabric hose**

29000061	Surcharge: MIG-MAG water-cooled / 3m
29000062	Surcharge: MIG-MAG water-cooled / 4m
29000063	Surcharge: MIG-MAG water-cooled / 5m

HT 110 rubber-fabric hose

29000091	Surcharge: MIG-MAG water-cooled / 3m
29000092	Surcharge: MIG-MAG water-cooled / 4m
29000093	Surcharge: MIG-MAG water-cooled / 5m

HT 130 TPE fabric hose

29000071	Surcharge: MIG-MAG water-cooled / 3m
29000072	Surcharge: MIG-MAG water-cooled / 4m
29000073	Surcharge: MIG-MAG water-cooled / 5m

AUTomatic welding torch with control line

29000052	Surcharge: AUTomatic-torch additionally with switch & control line (without control line plug)
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Leather ID26mm high flexible black

29004013	Surcharge: MIG-MAG with leather protective hose (first meter)
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Custom made torch-bodies

29004602	Surcharge: Torch body with custom bending
29003201	Surcharge: Custom made torch bodies by inquiry

Info:

For torches and cable assemblies HT105, HT110 and HT130 rubber fabric hoses are used for gas and water. The wire conduit hose is available in several designs. Please state the required design in your order:

1A - Wire conduit (PE) ID6,5 - W1,75 mm	flexible	green
1B - Wire conduit (PE) ID6,0 - W2,0 mm	flexible	white
1C - Wire conduit (PE) ID6,0 - W1,5 mm	superflexible	white
1D - Wire conduit (PA) ID6,0 - W2,0 mm	hard	white
1E - Wire conduit (PA) ID6,0 - W1,0 mm	hard	black
1F - Wire conduit (PU) ID6,0 - W1,0 mm	superflexible	grey

C

Power/Water cables

Art.-No.**ST 80 PVC-NIT fabric hose ID9,0-W1,8mm**

09400311	ST 80 PVC-NIT power/water cable MHS / 3m EURO central adapter
09400411	ST 80 PVC-NIT power/water cable MHS / 4m EURO central adapter
09400511	ST 80 PVC-NIT power/water cable MHS / 5m EURO central adapter
09400301	ST 80 PVC-NIT power/water cable MHS / 3m please state machine side connection
09400401	ST 80 PVC-NIT power/water cable MHS / 4m please state machine side connection
09400501	ST 80 PVC-NIT power/water cable MHS / 5m please state machine side connection

HT 105 PVC-NIT fabric hose ID9,0-W1,8mm

09400314	HT 105 power/water cable MHS / 3m EURO central adapter
09400414	HT 105 power/water cable MHS / 4m EURO central adapter
09400514	HT 105 power/water cable MHS / 5m EURO central adapter
09400304	HT 105 PVC-NIT power/water cable MHS / 3m please state machine side connection
09400404	HT 105 PVC-NIT power/water cable MHS / 4m please state machine side connection
09400504	HT 105 PVC-NIT power/water cable MHS / 5m please state machine side connection

HT 110 rubber-fabric hose ID9,0-W1,8mm

09400313	HT 110 rubber fabric hose power/water cable MHS / 3m EURO central adapter
09400413	HT 110 rubber fabric hose power/water cable MHS / 4m EURO central adapter
09400513	HT 110 rubber fabric hose power/water cable MHS / 5m EURO central adapter
09400303	HT 110 rubber fabric hose power/water cable MHS / 3m please state machine side connection
09400403	HT 110 rubber fabric hose power/water cable MHS / 4m please state machine side connection
09400503	HT 110 rubber fabric hose power/water cable MHS / 5m please state machine side connection

HT 130 TPE fabric hose ID9,0-W2,0 mm

09400315	HT 130 TPE power/water cable MHS / 3m EURO central adapter
09400415	HT 130 TPE power/water cable MHS / 4m EURO central adapter
09400515	HT 130 TPE power/water cable MHS / 5m EURO central adapter
09400305	HT 130 TPE power/water cable MHS / 3m please state machine side connection
09400405	HT 130 TPE power/water cable MHS / 4m please state machine side connection
09400505	HT 130 TPE power/water cable MHS / 5m please state machine side connection

ST 80 PVC-NIT:

- Fabric hose 80° Shore
- Inner hose black, fine tension knit nylon-fabric
- best adhesion between inner- und outer hose, good pressure stability

HT 105 PVC-NIT:

- fabric hose inside 70°/outside 85° Shore
- Innerhose red, highly heat resistant
- Inner hose black, fine tension knit nylon-fabric
- best adhesion between inner- und outer hose, good pressure stability
- extremely flexible at 20°C and more due to its PVC-NIT inner- and outer hose

HT 110 Rubberfabric hose:

- Rubber hose black 75° Shore
- Very robust outer fabric, 100% covering outer weaving
- good adhesion of fabric due to fixation on the inner hose
- flexible at all temperatures, highly heat resistant

HT 130 TPE:

- Fabric hose
- Inner hose red fine tension knit nylon-fabric
- good pressure stability
- flexible at all temperatures, highly heat resistant

D

Wire conduits

Art.-No.	
ID6,5-W1,75 mm (PE) green (flexible)	
0950a311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
0950a411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
0950a511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
0950a301	Wire conduit MHS / 3m please state machine side connection green (flexible)
0950a401	Wire conduit MHS / 4m please state machine side connection green (flexible)
0950a501	Wire conduit MHS / 5m please state machine side connection green (flexible)
ID6,0-W2,0 mm (PE) white (flexible)	
0950b311	Wire conduit flexible MHS / 3m EURO central adapter (flexible)
0950b411	Wire conduit flexible MHS / 4m EURO central adapter (flexible)
0950b511	Wire conduit flexible MHS / 5m EURO central adapter (flexible)
0950b301	Wire conduit MHS / 3m please state machine side connection white (flexible)
0950b401	Wire conduit MHS / 4m please state machine side connection white (flexible)
0950b501	Wire conduit MHS / 5m please state machine side connection white (flexible)
ID6,0-W1,5 mm (PE) white (super flexible)	
0950c311	Wire conduit MHS / 3m EURO central adapter white (super flexible)
0950c411	Wire conduit MHS / 4m EURO central adapter white (super flexible)
0950c511	Wire conduit MHS / 5m EURO central adapter white (super flexible)
0950c301	Wire conduit MHS / 3m please state machine side connection white (super flexible)
0950c401	Wire conduit MHS / 4m please state machine side connection white (super flexible)
0950c501	Wire conduit MHS / 5m please state machine side connection white (super flexible)
ID6,0-W2,0 mm (PA) white (hard)	
0950d311	AUT wire conduit MHS / 3m EURO central adapter white (hard)
0950d411	AUT wire conduit MHS / 4m EURO central adapter white (hard)
0950d511	AUT wire conduit MHS / 5m EURO central adapter white (hard)
0950d301	AUT wire conduit MHS / 3m please state machine side connection white (hard)
0950d401	AUT wire conduit MHS / 4m please state machine side connection white (hard)
0950d501	AUT wire conduit MHS / 5m please state machine side connection white (hard)
ID6,0-W1,0 mm (PA) black (hard)	
0950e311	Wire conduit hard MHS / 3m EURO central adapter (hard)
0950e411	Wire conduit hard MHS / 4m EURO central adapter (hard)
0950e511	Wire conduit hard MHS / 5m EURO central adapter (hard)
0950e301	Wire conduit MHS / 3m please state machine side connection black (hard)
0950e401	Wire conduit MHS / 4m please state machine side connection black (hard)
0950e501	Wire conduit MHS / 5m please state machine side connection black (hard)
ID6,0-W1,0 mm (PU) grey (super flexible)	
0950f311	Wire conduit MHS / 3m EURO central adapter grey (super flexible)
0950f411	Wire conduit MHS / 4m EURO central adapter grey (super flexible)
0950f511	Wire conduit MHS / 5m EURO central adapter grey (super flexible)
0950f301	Wire conduit MHS / 3m please state machine side connection grey (super flexible)
0950f401	Wire conduit MHS / 4m please state machine side connection grey (super flexible)
0950f501	Wire conduit MHS / 5m please state machine side connection grey (super flexible)

E

Reel Goods



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Art.-No.**Reel goods:**

Prices are per meter and only applicable if a complete reel is purchased.

Reel goods for power/water cables - highly heat resistant and flexible

91800001	Meter ST 80 PVC-NIT fabric hose ID9,0-W1,8mm (100m)
91800002	Meter HT 105 PVC-NIT fabric hose ID9,0-W1,8mm (100m)
85180001	Meter HT 110 rubber fabric hose ID9,0-W1,8mm (100m)
92002005	Meter HT 130 TPE fabric hose ID9,0-W2,0mm "RAUCH" (100m)

Reel goods for wire conduits - hard, flexible and super flexible

65175001	Meter wire conduit (PE) ID6,5-W1,75mm / green flexible (100m)
60200011	Meter wire conduit (PE) ID6,0-W2,0mm / white flexible (100m)
60150001	Meter wire conduit (PE) ID6,0-W1,5 / white super flexible (100m)
60200001	Meter wire conduit (PA) ID6,0-W2,0mm / white hard (100m)
61000001	Meter wire conduit (PA) ID6,0-W1,0mm / black hard (100m)
61000002	Meter wire conduit (PU) ID6,0-W1,0 / grey super flexible (100m)

Reel goods for gas und water - highly heat resistant and flexible

51700001	Meter HT 110 rubber fabric hose ID5,0-W1,7mm black for gas (100m)
51700002	Meter HT 110 rubber fabric hose ID5,0-W1,7mm blue for water (100m)
51700003	Meter HT 110 rubber fabric hose ID5,0-W1,7mm red for water (100m)

F

Sundries and tools

Art.-No.	
75e00002	Hose clip 7,5-E
80e00001	Hose clip 8,0-E
87e00001	Hose clip 8,7-E
95e00001	Hose clip 9,5-E
100e0001	Hose clip 10,0-E
105e0001	Hose clip 10,5-E
9191730n	Instant glue VA-20 inviscid
9191740n	Instant glue VA-1500 viscous
9191720n	Contact tip wrench SW 8 massive, nickel plated with key ring
9191721n	Contact tip wrench flat-steel SW 5,6,8,10,12
91917211	Contact tip and contact tip holder wrench RAUCH SW8/SW11

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