



TW - Serie

TIG

Toches and spare parts

Catalogue

CERTIFICATE

No. 490860-3



This is to certify the Quality Management System of

VDS - Verband der Schweissfachhaendler e.V.,
Ahornweg 5a
34621 Frielendorf
Germany

Operational site:



Holch Schweissbrenner GmbH, Buehlstr. 14, 57080 Siegen

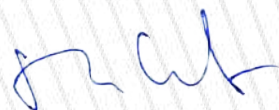
has been assessed and found to be in compliance with the Standard

ISO 9001:2015

applicable to

**Sales of machines, equipment and accessories for everyone
welding applications with the related services.**

The certificate has been issued under No. **490860-3** for the registration period
from 16 December 2022 to 15 December 2025.

Approved by

Printed by

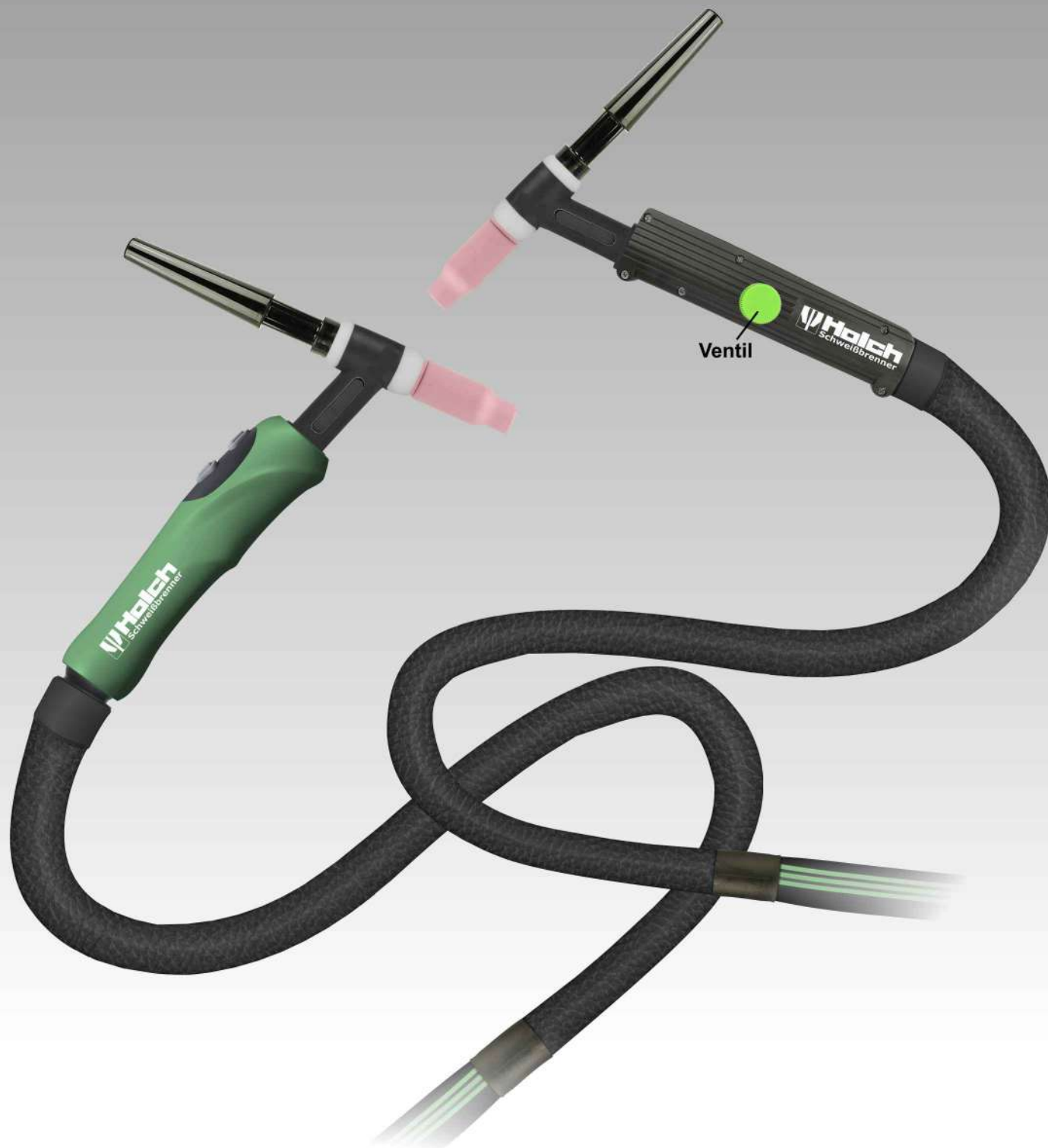


validity code **F3C526E4-F13-3**

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WIG-Schweißbrenner mit TW - Brennerkörpern



HSN 807

WIG Brennerkörper



12-1-TW



9-TW



AS-18-TW



AS-17-TW



SR-18-TW



SR-17-TW



wp-18SC-TW



ABL-220-TW



20-TW



SR 26-TW



20F-TW



SR 26F-TW

HSN 829-1

Maschinenseitige Anschlüsse WIG SK25 und SK35



Schweißkabelstecker SK 25



Art.Nr.: 91918201



Schweißkabelstecker SK 25 sep. Gasführung



Art.Nr.: 91918321



Schweißkabelstecker SK 35



Art.Nr.: 91918301



Schweißkabelstecker SK 35 sep. Gasführung



Art.Nr.: 91918311



SK 35 gasgeköhlt



Art.Nr.: 91918322



SK 35 wassergeköhlt



Art.Nr.: 91918312

HSN 812-2

Forma - Griffschale mit Kugelgelenk



Art.Nr.: 91914601



(DD)

Art.Nr.: 91914621



up/down

Art.Nr.: 91914641



(ED)

Art.Nr.: 91914611



(ED) Poti

Art.Nr.: 91914631



Art.Nr.:
91914603

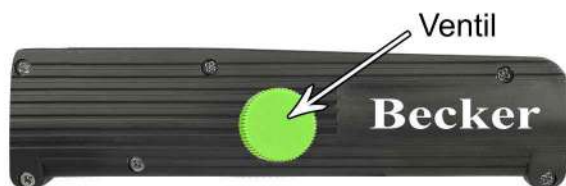
MG - Griffschale mit und ohne Kugelgelenk



Art.Nr.: 91914031



Art.Nr.:
91915001



Art.Nr.: 91914033



Art.Nr.:
91915001



Art.Nr.: 91914061



Art.Nr.:
91914603

HSN 832

Steuerleistungsstecker

1-pol. Bananen-Stecker 91904185 passend Oerlikon, SAF 	1-pol. Amphenol für Plasma-Schweißbrenner 91904191 	2-pol. Cloos-Stecker 91903701 
2-pol. Cannon-Stecker 91904151 passend ESAB 	2-pol. Redel-Mini-Stecker 91904152 passend ESAB 	3-pol. Weipu-Stecker 91904154 
3-pol. Stecker R3D3 metall. 91904196 passend diverse chinesische Maschinen 	3-pol. Klinkenstecker 6,3mm 91904182 passend Lorch, Oerlikon 	3-pol. Tuchel-Stecker 91904101 passend versch. Hersteller 
3-pol. Alcatel-Stecker 91904173 passend Cloos-Herborn Esseti, Variamp, Woltersdorf 	3-pol. Gys / Preh-Stecker 91904174 passend Ess, Jäckle 	3-pol. Amphenol-Stecker 91904183 passend TOP 
3-pol. Amphenol-Stecker für Plasma-Schweißbrenner 91904181 	3-pol. Klinkenstecker 3,5mm 91904186 passend Lorch, Oerlikon 	4-pol. Amphenol-Stecker 91904131 passend Kempfi, UTP, Zeuna 
4-pol. Amphenol-Stecker 91904138 passend Ford, alt 	4-pol. Selco-Stecker 91904134 	4-pol. Harting-Stecker 91904123 
5-pol. Tuchel-Stecker mit Bajonettverschluß 91904111 passend versch. Hersteller 	5-pol. Tuchel-Stecker, schraubbar 91904112 passend Hermann 	5-pol. Cebora-Stecker 91904172 
5-pol. Amphenol-Tuchel-Stecker mit Rundkontakten, schraubbar 91904195 p. Cloos-Haiger / Weco 	5-pol. Weipu-Stecker 91904117 passend Iskraver, Schweisskraft, Awelco-Industrie 	6-pol. Amphenol-Stecker 91904169 passend CEA / OTC / Weco / Cloos 

HSN 815A-5

Steuerleistungsstecker

6-pol. Harting-Stecker 91904121 passend Migatronic 	6-pol. Schaltbau-Stecker 91904163 passend Elektro-Beckum, Metabo 	6-pol.(A-F) Amphenol-Stecker 91904171 passend Oerlikon MIG-MAG 
6-pol. Amphenol-Stecker 91904139 passend Lincoln 	7-pol. Tuchel-Stecker 91904113 passend Castolin, Dalex, Fronius, Kjellberg 	7-pol. Rehm-Stecker 91904161 passend Erfi, Hydro Tech, Migatronic 
7-pol. Cebora-Stecker 91904165 passend Cloos mit Poti 	7-pol. Cemont-Stecker 91904176 	7-pol. Amphenol-Stecker 91904178 passend Kemppi 
7-pol. Amphenol-Tuchel-Stecker mit Rundkontakten, schraubbar 91904194 passend Selco, Weco, Stel 	7-pol. Stecker 91904114 passend Fimer 	7-pol. Stecker 91944162 passend Selco, Böhler 
8-pol. Stecker 91944161 passend Fronius 	8-pol. Burndy-Stecker 91904189 passend EWM 	8-pol. Rebel-Stecker 91904115 passend ESAB 
9-pol. Fronius-Flachstecker 91904164 	9-pol. Computer-Stecker für Plasma-Schweißbrenner 91904177 passend Lorch 	9-pol. Weipu-Stecker 91904180 passend Jasic 
10-pol. Cebora-Stecker 91904175 	10-pol. Amphenol-Stecker 91904188 	12-pol. Weipu-Stecker 91904153 passend Flame 
12-pol. Stecker 91904166 passend Rehm 	12-pol. Burndy-Stecker 91904167 passend EWM Tetrix 	14-pol. Stecker 91904135 passend Miller 

HSN 815B-7

Component-drawings with spare parts

Welding torches TIG gas-cooled	page
Torch 9-TW	11 – 18
Torch AS 17-TW	19 – 26
Torch SR 17-TW	27 – 34
Torch SR 26-TW	35 – 42
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Torch 12-1-TW	51 – 58
Torch AS 18-TW	59 – 66
Torch SR 18-TW	67 – 76
Torch wp-18SC-TW	77 – 84
Torch 20-TW	85 – 94
AUT-welding torches gas-cooled	
Torch AUT 230-S	95 – 102
AUT-welding torches water-cooled	
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Tungsten-electrodes	appendix A
Sundries, parts and tools	appendix B
Custom made products	appendix C
Control line plugs and jacks	appendix D

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 9-TW gas-cooled



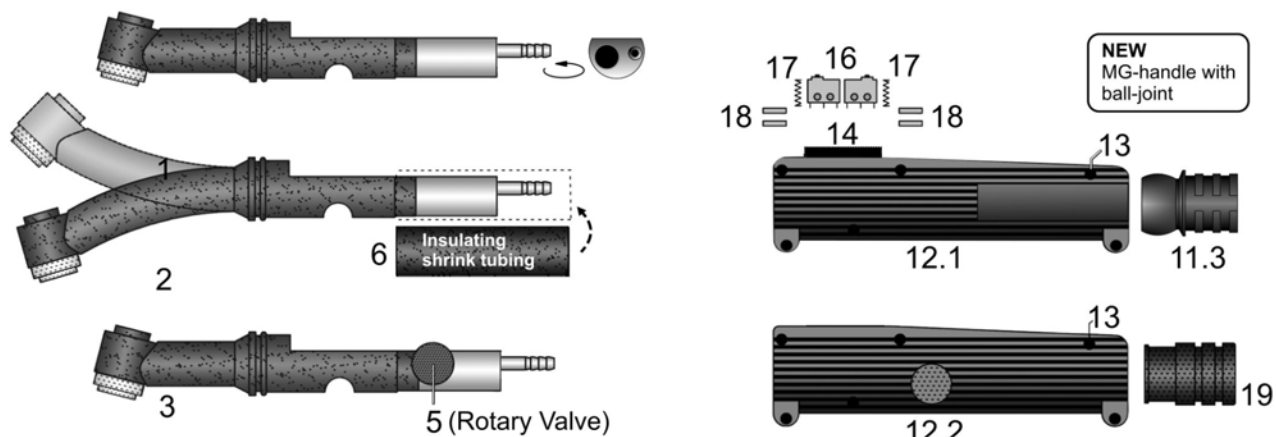
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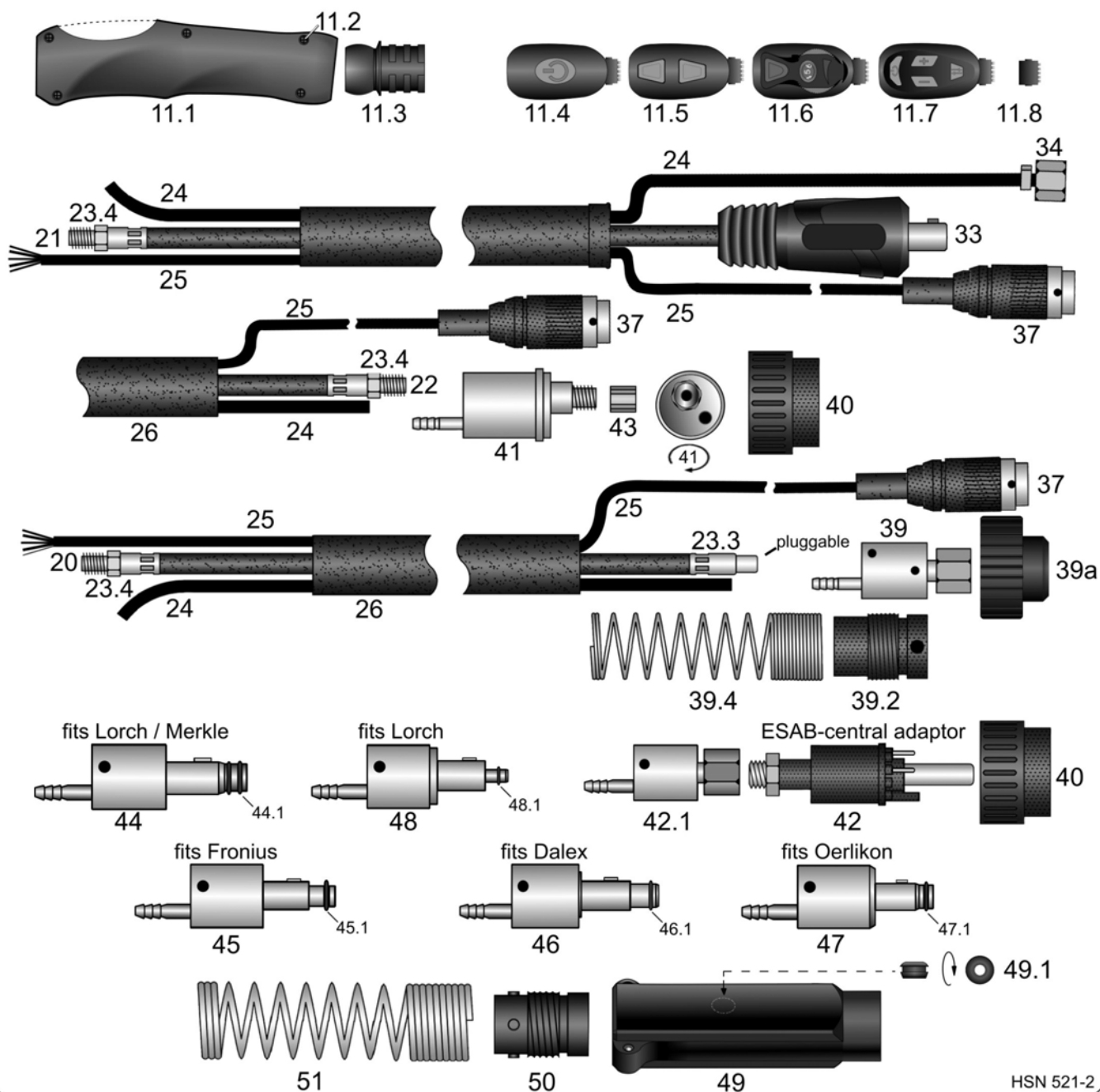
9-TW gas-cooled



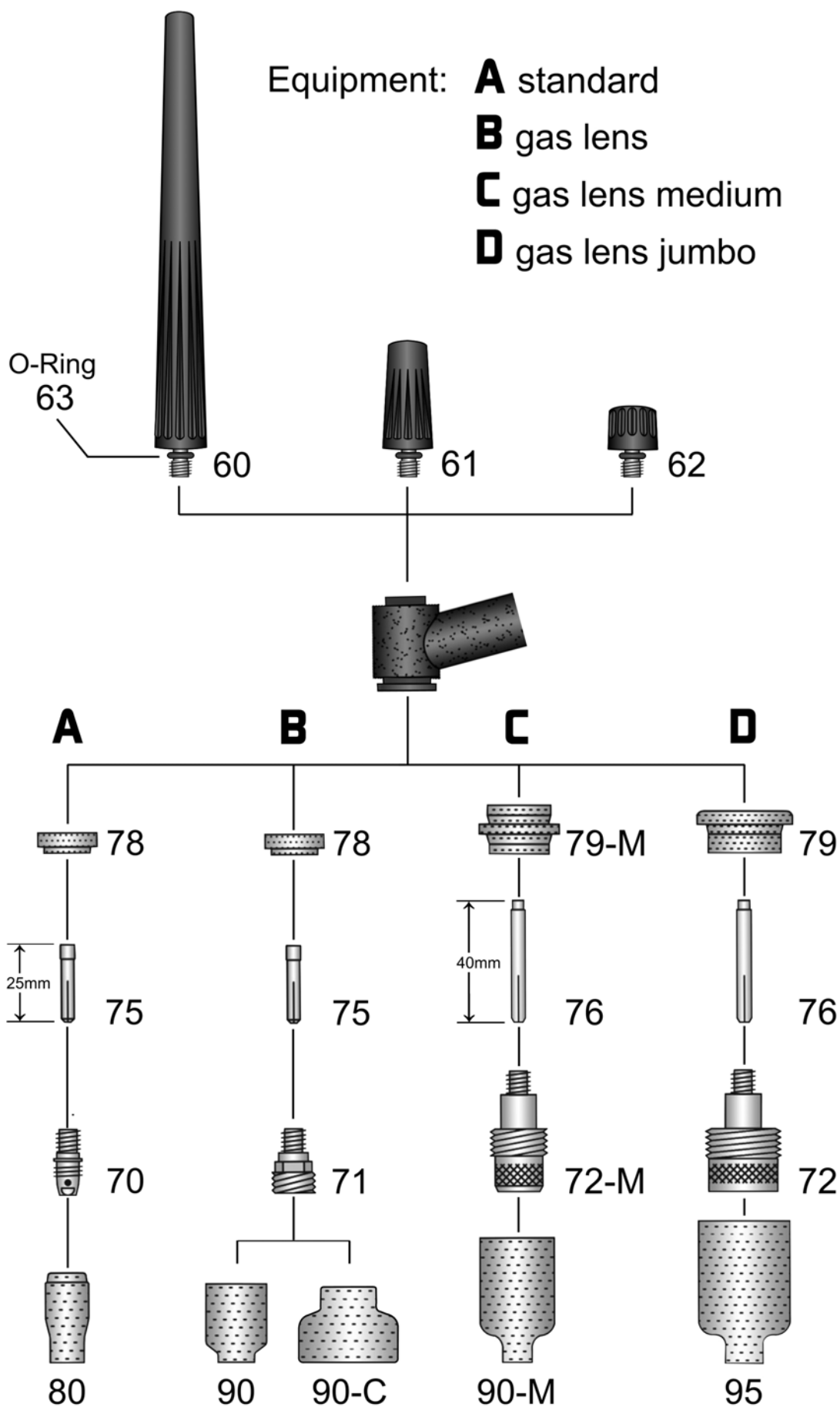
110 Ampere at 100% duty cycle (DC) - 95 Ampere at 100% duty cycle (AC)



Forma WIG-handle with ball joint - different modular switch units - special switching modules on request



HSN 521-2



Welding-torch TIG gas-cooled**110A at 100 % duty cycle (DC) - 95A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections.

Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

90500401 Torch 9-TW / 4m 25mm²90500801 Torch 9-TW / 8m 25mm²90600401 FLEX-torch 9F-TW / 4m 25mm² neck flexible90600801 FLEX-torch 9F-TW / 8m 25mm² neck flexible90700401 Valve torch 9V-TW / 4m 25mm²90700801 Valve torch 9V-TW / 8m 25mm²

TIG-spares cable assemblies in different qualities, machine side with separate connections and Tüchel plug, or, if ordered so, with the following connection systems:

wig92401 TIG-spares cable assembly gas-cooled 4m - please state desired design!

wig92801 TIG-spares cable assembly gas-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29000101 Surcharge: machine side with EURO central adapter

29002005 Surcharge: machine side power/gas plug fits Lorch/Merkle with 2 O-rings

29002004 Surcharge: machine side power/gas plug fits Fronius with 1 O-ring

29002006 Surcharge: machine side power/gas plug fits Dalex with 1 O-ring

29002107 Surcharge: machine side power/gas plug fits Oerlikon with 1 O-ring

29002002 Surcharge: machine side power/gas plug fits Lorch SK35 + gas-nipple

29000112 Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

Please note that there might be additional charges for special control line plugs. See appendix

1 90591001 Torch body 9-TW

2 90691001 Torch body 9F-TW neck flexible (FLEX)

3 90791001 Torch body with valve 9V-TW

5 90789001 Rotary valve TW complete with O-rings

N.i. 17389013 O-ring ID3-W1,5mm fits rotary valve TW inside (material hephtho 951)

N.i. 17389012 O-ring ID4,6-W2mm fits rotary valve TW outside (material hephtho 951)

6 18050002 Ignition insulating hose L75mm / ID32mm down to ID16mm

11.1 91914601 Forma TIG handle with screws, ball joint, without modular switch unit

11.2 91914602 Forma screw for handle

11.3 91914603 Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)

11.4 91914611 Forma modular switch unit: 1 button with connecting adapter

11.5 91914621 Forma modular switch unit: 2 buttons with connecting adapter

11.6 91914631 Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter

11.7 91914641 Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter

11.8 91914651 Forma connecting adapter fits control line to modular switch unit

N.i. 91914661 Forma switch module safety nipple

N.i. 91914671 TW-steadying adapter, anti turn locking for TW-torch bodies

12.1 91914061 MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins

12.2 91914033 MG-handle fits TW valve torch

Welding-torch TIG gas-cooled**110A at 100 % duty cycle (DC) - 95A at 100 % duty cycle (AC)**

Art.-No.		
13	91914421	MG-tapping screw
14	91915002	MG-push button
16	91914121	MG-microswitch
17	91914221	MG-return spring
18	91914321	MG-cylindrical pin
19	91915001	MG-hose bracket without ball joint ID19,5mm
20	17942403	Power cable 25mm ² 9/17-TW / 4m fits power/gas plugs + power gas junction (pgj)
20	17942803	Power cable 25mm ² 9/17-TW / 8m fits power/gas plugs + power gas junction (pgj)
21	17942402	Power cable 25mm ² 9/17-TW / 4m with SK25 or SK35 <--- please state!
21	17942802	Power cable 25mm ² 9/17-TW / 8m with SK25 or SK35 <--- please state!
22	17942404	Power cable 25mm ² 9/17-TW / 4m fits EURO central adapter (OT-M10x1)
22	17942804	Power cable 25mm ² 9/17-TW / 8m fits EURO central adapter (OT-M10x1)
23.3	22089056	TIG-Power cable connector pluggable ID7,2mm fits 25mm ² for power/gas plugs + pgj
23.4	22089053	TIG-Power cable connector OT-M10x1 ID7,2mm fits 25mm ²
Reel goods: Prices are per meter and only applicable for purchasing of complete rolls		
24	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
24	41500005	Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m)
N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	20150002	Meter neoprene protective hose ID20mm black (40m)
N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves
33	91918201	Powercable-plug SK-25 bayonet connection AD8mm
33	91918301	Powercable-plug SK-35 bayonet connection AD13mm
34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
37	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
39	91918521	TIG power gas junction (pgj) with connection: IT-G1/8"
39	91918522	TIG power gas junction (pgj) with connection: IT-G1/4"
39	91918523	TIG power gas junction (pgj) with connection: IT-G3/8"
39a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
N.i.	91918551	Attachment screw (plastic) M5x12mm for power gas junction (pgj)
N.i.	91918552	3 grommets for attachment screws M5x12mm power gas junction (pgj)
N.i.	91918542	Section of insulating hose ID35-L80mm power gas junction (pgj)
39.2	91918541	TIG spring socket small (without knobs)
39.4	91918531	Cable support spring L125mm for power gas junction (pgj)

Welding-torch TIG gas-cooled**110A at 100 % duty cycle (DC) - 95A at 100 % duty cycle (AC)**

Art.-No.		
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900122	TIG central adapter EURO (fits separate lines)
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918561	TIG power gas junction (pgj) fits ESAB central adapter
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
44	9190411n	Power/gas plug fits Lorch / Merkle with 2 O-rings / power connection like pgj
44.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
45	91918326	Power/gas plug fits Fronius with 1 O-ring / power connection like pgj
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190416e	Power/gas plug fits Dalex with 1 O-ring / power connection like pgj
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190422n	Power/gas plug fits Oerlikon with 1 O-ring / power connection like pgj
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190421n	Power/gas plug fits Lorch Sk35 + gas-nipple / power connection like pgj
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
N.i.	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900556	TIG cable support short with screws (fits gas-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
N.i.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyellet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
60	20091321	Holch back cap long 9-20 41V24/41V24-D
61	20091311	Holch back cap medium 9-20 41V35/41V35-D
62	20091301	Holch back cap short 9-20 41V33/41V33-D
63	20089001	O-ring ID4,6-W2mm for back cap black
70	20961002	Collet body 9-20 / 1,0 13N26
70	20961602	Collet body 9-20 / 1,6 13N27
71	20961011	Gas lens 9-20 / 1,0 45V42
71	20961611	Gas lens 9-20 / 1,6 45V43
72-M	20961031	Gas lens medium 9-20 / 1,0
72-M	20961631	Gas lens medium 9-20 / 1,6
72	20961021	Jumbo-Gas lens 9-20 / 1,0 45V0204S
72	20961621	Jumbo-Gas lens 9-20 / 1,6 45V116S
Brazen collets L-25mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens		
75	20102502	Collet L25mm 9-20 / 1,0 13N21
75	20162502	Collet L25mm 9-20 / 1,6 13N22

Welding-torch TIG gas-cooled**110A at 100 % duty cycle (DC) - 95A at 100 % duty cycle (AC)****Art.-No.**
Brazen collets L-40mm
suitable equipment line (C) gas lens midsize
suitable equipment line (D) gas lens jumbo

76 20104011

76 20164011 Collet L40mm 9-20 / 1,6 13N22L

78 20089011 PTFE-isolator gasket 9-20

79-M 20089031 PTFE-gas lens isolator medium 9-20

79 20089021 PTFE-gas lens isolator Jumbo 9-20 54N63-20

Ceramic gas nozzles in different lengths
suitable equipment line (A) standard collet body

80 20930401 Ceramic gas nozzle L30mm / Gr. 4 13N08 (pu=10pieces)

80 20930501 Ceramic gas nozzle L30mm / Gr. 5 13N09 (pu=10pieces)

80 20930601 Ceramic gas nozzle L30mm / Gr. 6 13N10 (pu=10pieces)

80 20930701 Ceramic gas nozzle L30mm / Gr. 7 13N11 (pu=10pieces)

80 20930801 Ceramic gas nozzle L30mm / Gr. 8 13N12 (pu=10pieces)

80 20930101 Ceramic gas nozzle L30mm / Gr.10 13N13 (pu=10pieces)

N.i. 20930304 Ceramic gas nozzle L48mm / Gr. 3 796F70 (pu=10pieces)

N.i. 20930404 Ceramic gas nozzle L48mm / Gr. 4 796F71 (pu=10pieces)

N.i. 20930504 Ceramic gas nozzle L48mm / Gr. 5 796F72 (pu=10pieces)

N.i. 20930604 Ceramic gas nozzle L48mm / Gr. 6 796F73 (pu=10pieces)

N.i. 20930306 Ceramic gas nozzle L63mm / Gr. 3 796F74 (pu=10pieces)

N.i. 20930406 Ceramic gas nozzle L63mm / Gr. 4 796F75 (pu=10pieces)

N.i. 20930506 Ceramic gas nozzle L63mm / Gr. 5 796F76 (pu=10pieces)

N.i. 20930606 Ceramic gas nozzle L63mm / Gr. 6 796F77 (pu=10pieces)

N.i. 20930408 Ceramic gas nozzle L89mm / Gr. 4 796F79 (pu=10pieces)

Ceramic gas nozzles in different lengths
suitable equipment line (B) gas lens

90 20931401 Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.4 53N58 (pu=10pieces)

90 20931501 Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.5 53N59 (pu=10pieces)

90 20931601 Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.6 53N60 (pu=10pieces)

90 20931701 Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.7 53N61 (pu=10pieces)

90 20931801 Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.8 53N61-S (pu=10pieces)

N.i. 20931404 Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.4 53N58L (pu=10pieces)

N.i. 20931504 Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.5 53N59L (pu=10pieces)

N.i. 20931604 Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.6 53N60L (pu=10pieces)

N.i. 20931704 Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.7 53N61L (pu=10pieces)

N.i. 20931804 Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.8 53N61SL (pu=10pieces)

N.i. 20931406 Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.4 53N58XL (pu=10pieces)

N.i. 20931506 Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.5 53N59XL (pu=10pieces)

N.i. 20931606 Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.6 53N60XL (pu=10pieces)

N.i. 20931706 Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.7 53N61XL (pu=10pieces)

N.i. 20931806 Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.8 53N61SXL (pu=10pieces)

90-C 20930016 Ceramic nozzle for gas lens Kir Royal 9-20 / fits tungsten electrode up to 3,2mm

Welding-torch TIG gas-cooled**110A at 100 % duty cycle (DC) - 95A at 100 % duty cycle (AC)****Art.-No.****Ceramic gas nozzles in different lengths
suitable equipment line (C) midsize gas lens**

90-M	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90-M	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90-M	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90-M	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90-M	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90-M	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90-M	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)

N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)

**Ceramic gas nozzles jumbo in different lengths
suitable equipment line (D) gas lens jumbo**

95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)

N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)

Top quality tungsten electrodes in 8 different qualities, see appendix A.

Torch AS 17-TW gas-cooled



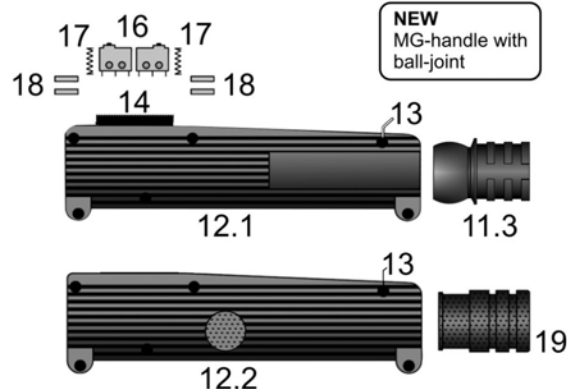
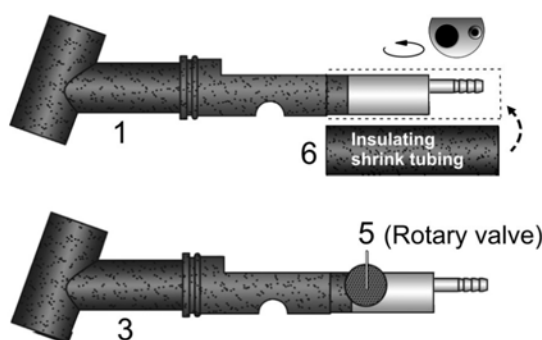
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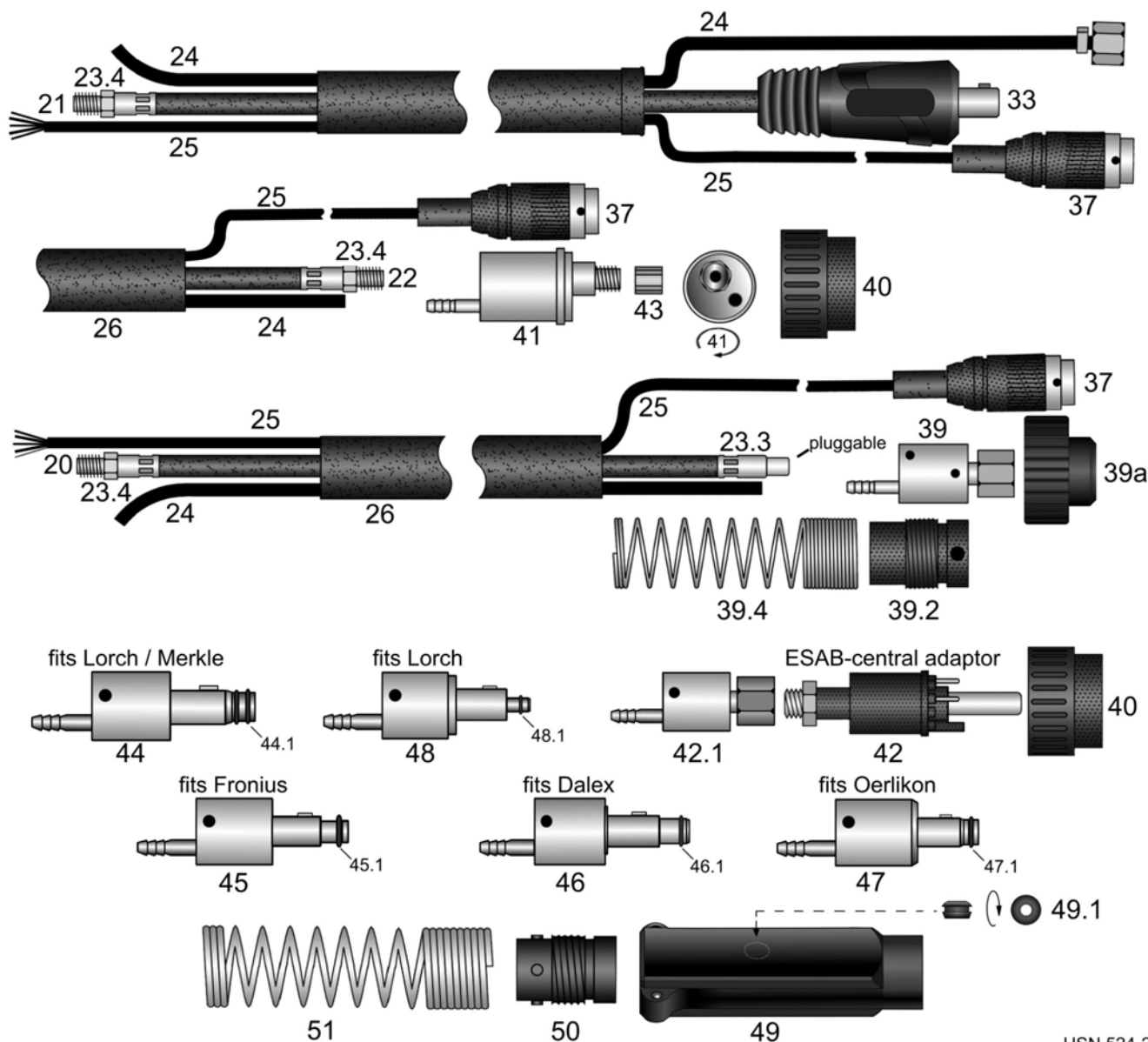
AS 17-TW gas-cooled



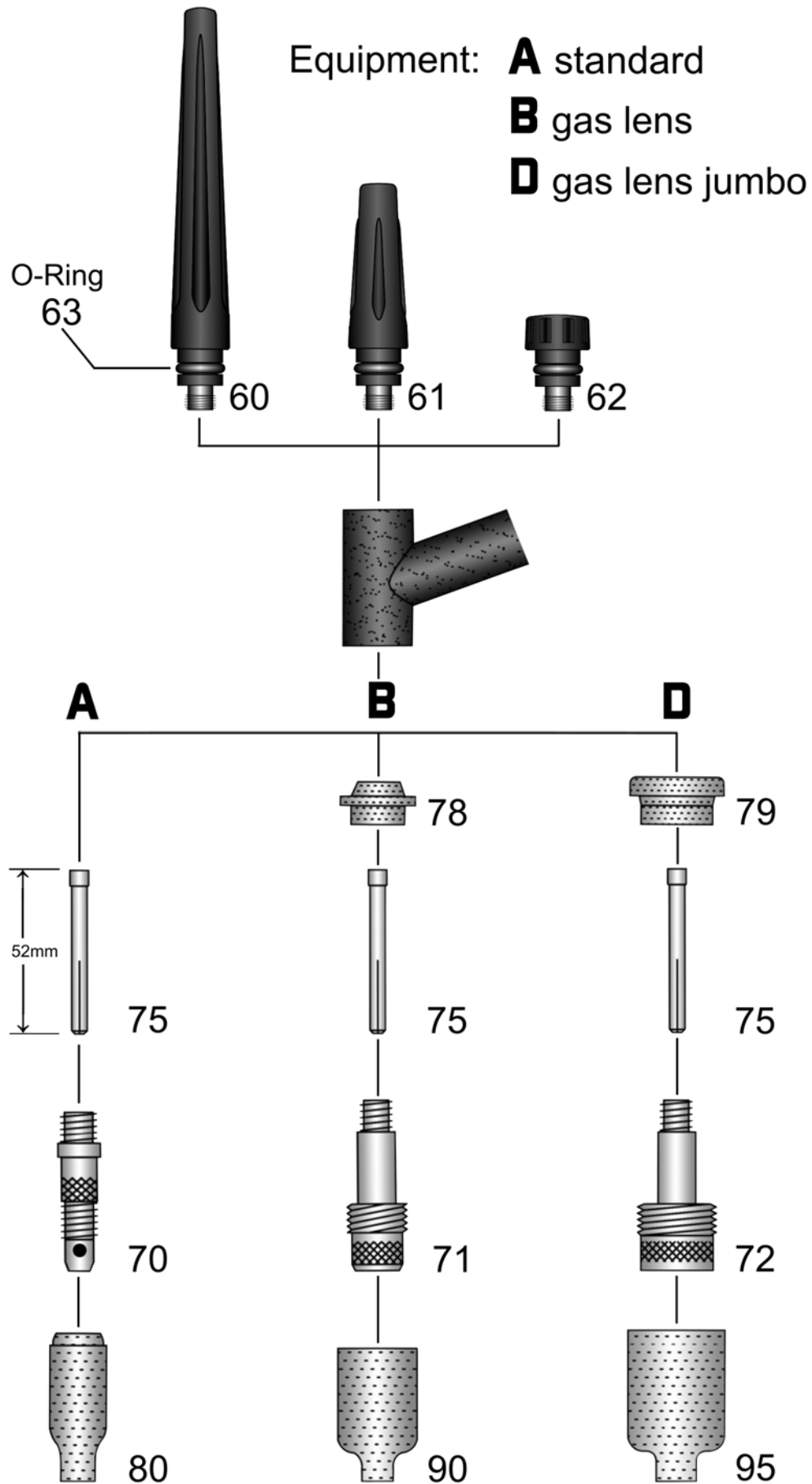
140 Ampere at 100% duty cycle (DC) - 125 Ampere at 100% duty cycle (AC)



Forma WIG-handle with ball joint - different modular switch units - special switching modules on request



HSN 524-2



Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections.

Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

17800401 Torch AS 17-TW / 4m 25mm²17800801 Torch AS 17-TW / 8m 25mm²17130401 Valve torch AS 17V-TW / 4m 25mm²17130801 Valve torch AS 17V-TW / 8m 25mm²

TIG-spares cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92401 TIG-spares cable assembly gas-cooled 4m - please state desired design!

wig92801 TIG-spares cable assembly gas-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29000101 Surcharge: machine side with EURO central adapter

29002005 Surcharge: machine side power/gas plug fits Lorch/Merkle with 2 O-rings

29002004 Surcharge: machine side power/gas plug fits Fronius with 1 O-ring

29002006 Surcharge: machine side power/gas plug fits Dalex with 1 O-ring

29002107 Surcharge: machine side power/gas plug fits Oerlikon with 1 O-ring

29002002 Surcharge: machine side power/gas plug fits Lorch SK35 + gas-nipple

29000112 Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

Please note that there might be additional charges for special control line plugs. See appendix

1 17891001 Torch body AS 17-TW

3 17139101 Torch body with valve AS 17V-TW

5 90789001 Rotary valve TW complete with O-rings

N.i. 17389013 O-ring ID3-W1,5mm fits rotary valve TW inside (material hepthon 951)

N.i. 17389012 O-ring ID4,6-W2mm fits rotary valve TW outside (material hepthon 951)

6 18050002 Ignition insulating hose L75mm / ID32mm down to ID16mm

11.1 91914601 Forma TIG handle with screws, ball joint, without modular switch unit

11.2 91914602 Forma screw for handle

11.3 91914603 Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)

11.4 91914611 Forma modular switch unit: 1 button with connecting adapter

11.5 91914621 Forma modular switch unit: 2 buttons with connecting adapter

11.6 91914631 Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter

11.7 91914641 Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter

11.8 91914651 Forma connecting adapter fits control line to modular switch unit

N.i. 91914661 Forma switch module safety nipple

N.i. 91914671 TW-steadying adapter, anti turn locking for TW-torch bodies

12.1 91914061 MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins

12.2 91914033 MG-handle fits TW valve torch

13 91914421 MG-tapping screw

14 91915002 MG-push button

16 91914121 MG-microswitch

17 91914221 MG-return spring

Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)**

Art.-No.		
18	91914321	MG-cylindrical pin
19	91915001	MG-hose bracket without ball joint ID19,5mm
20	17942403	Power cable 25mm ² 9/17-TW / 4m fits power/gas plugs + power gas junction (pgj)
20	17942803	Power cable 25mm ² 9/17-TW / 8m fits power/gas plugs + power gas junction (pgj)
21	17942402	Power cable 25mm ² 9/17-TW / 4m with SK25 or SK35 <--- please state!
21	17942802	Power cable 25mm ² 9/17-TW / 8m with SK25 or SK35 <--- please state!
22	17942404	Power cable 25mm ² 9/17-TW / 4m fits EURO central adapter (OT-M10x1)
22	17942804	Power cable 25mm ² 9/17-TW / 8m fits EURO central adapter (OT-M10x1)
23.3	22089056	TIG-Power cable connector pluggable ID7,2mm fits 25mm ² for power/gas plugs + pgj
23.4	22089053	TIG-Power cable connector OT-M10x1 ID7,2mm fits 25mm ²
Reel goods:		
Prices are per meter and only applicable for purchasing of complete rolls		
24	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
24	41500005	Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m)
N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	20150002	Meter neoprene protective hose ID20mm black (40m)
N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves
33	91918201	Powercable-plug SK-25 bayonet connection AD8mm
33	91918301	Powercable-plug SK-35 bayonet connection AD13mm
34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
37	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
39	91918521	TIG power gas junction (pgj) with connection: IT-G1/8"
39	91918522	TIG power gas junction (pgj) with connection: IT-G1/4"
39	91918523	TIG power gas junction (pgj) with connection: IT-G3/8"
39a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
N.i.	91918551	Attachment screw (plastic) M5x12mm for power gas junction (pgj)
N.i.	91918552	3 grommets for attachment screws M5x12mm power gas junction (pgj)
N.i.	91918542	Section of insulating hose ID35-L80mm power gas junction (pgj)
39.2	91918541	TIG spring socket small (without knobs)
39.4	91918531	Cable support spring L125mm for power gas junction (pgj)
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900122	TIG central adapter EURO (fits separate lines)
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918561	TIG power gas junction (pgj) fits ESAB central adapter

Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)**

Art.-No.		
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
44	9190411n	Power/gas plug fits Lorch / Merkle with 2 O-rings / power connection like pgj
44.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
45	91918326	Power/gas plug fits Fronius with 1 O-ring / power connection like pgj
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190416e	Power/gas plug fits Dalex with 1 O-ring / power connection like pgj
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190422n	Power/gas plug fits Oerlikon with 1 O-ring / power connection like pgj
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190421n	Power/gas plug fits Lorch Sk35 + gas-nipple / power connection like pgj
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
N.i.	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900556	TIG cable support short with screws (fits gas-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
60	17091311	Holch back cap long (german version with black O-ring) AS17-AS18-ABL220 57Y02-D
61	17091321	Holch back cap medium (german version with black O-ring) AS17-AS18-ABL220 57Y03-D
62	17091301	Holch back cap short (german version with black O-ring) AS17-AS18-ABL220 57Y04-D
63	17089011	O-ring black ID9-W2,5mm for back cap
70	17961002	Collet body 17-18-26-220 / 1,0 10N30
70	17961602	Collet body 17-18-26-220 / 1,6 10N31
70	17962402	Collet body 17-18-26-220 / 2,4 10N32
71	17961011	Gas lens 17-18-26-220 / 1,0 45V24
71	17961611	Gas lens 17-18-26-220 / 1,6 45V25
71	17962411	Gas lens 17-18-26-220 / 2,4 45V26
72	17961021	Jumbo-Gas lens 17-18-26-220 / 1,0 45V0204
72	17961621	Jumbo-Gas lens 17-18-26-220 / 1,6 45V116
72	17962421	Jumbo-Gas lens 17-18-26-220 / 2,4 45V64
Brazen collets L-52mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
75	17105202	Collet L52mm AS17-AS18-ABL220 / 1,0 10N22-D
75	17165202	Collet L52mm AS17-AS18-ABL220 / 1,6 10N23-D
75	17245202	Collet L52mm AS17-AS18-ABL220 / 2,4 10N24-D
78	17089021	PTFE-Gas-lens insulator 17-18-26-220 54N01
79	17089031	PTFE-Gas-lens insulator Jumbo 17-18-26-220 54N63

Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)****Art.-No.****Ceramic gas nozzles in different lengths
suitable equipment line (A) standard collet body**

80	17930401	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.4 10N50 (pu=10pieces)
80	17930501	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.5 10N49 (pu=10pieces)
80	17930601	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.6 10N48 (pu=10pieces)
80	17930701	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.7 10N47 (pu=10pieces)
80	17930801	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.8 10N46 (pu=10pieces)
80	17930101	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.10 10N45 (pu=10pieces)
80	17930121	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.12 10N44 (pu=10pieces)

N.i.	17930404	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.4 10N50L (pu=10pieces)
N.i.	17930504	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.5 10N49L (pu=10pieces)
N.i.	17930604	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.6 10N48L (pu=10pieces)
N.i.	17930704	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.7 10N47L (pu=10pieces)

**Ceramic gas nozzles in different lengths
suitable equipment line (B) gas lens**

90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)

N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)

**Ceramic gas nozzles jumbo in different lengths
suitable equipment line (D) gas lens jumbo**

95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)

N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)

Top quality tungsten electrodes in 8 different qualities, see appendix A.

Torch SR 17-TW gas-cooled



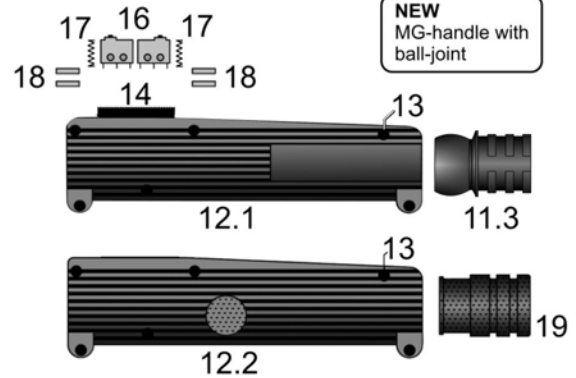
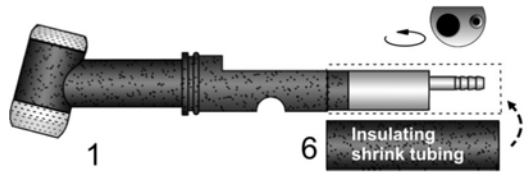
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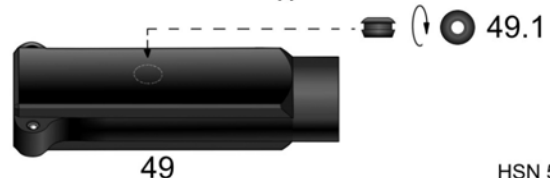
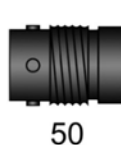
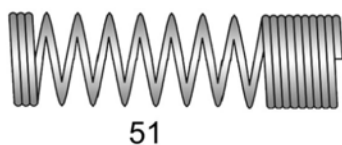
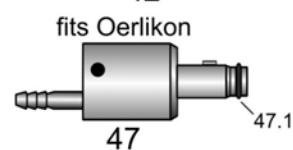
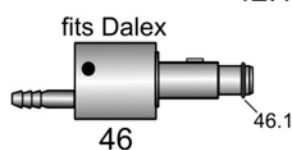
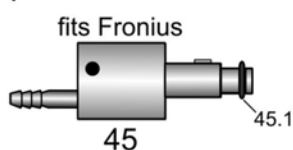
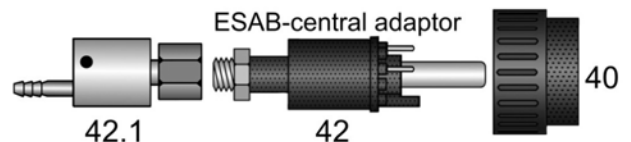
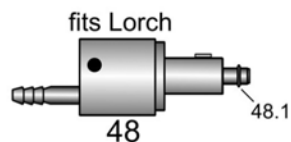
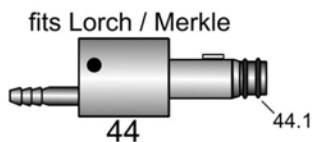
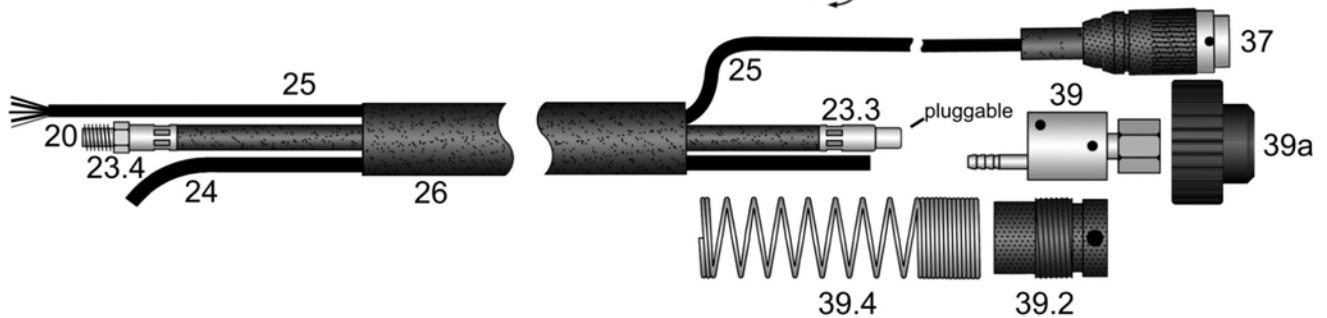
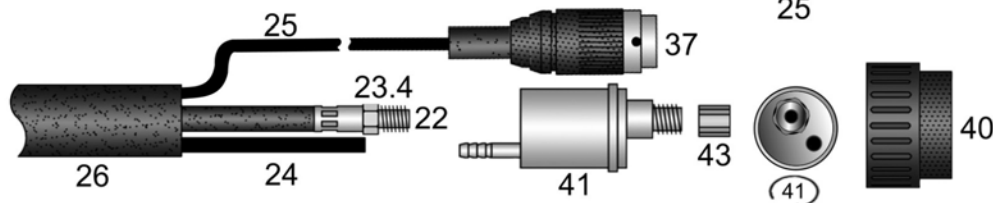
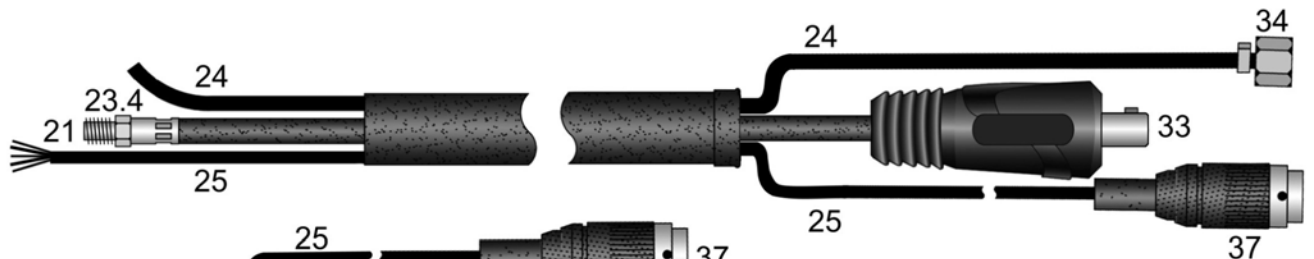
SR 17-TW gas-cooled



140 Ampere at 100% duty cycle (DC) - 125 Ampere at 100% duty cycle (AC)



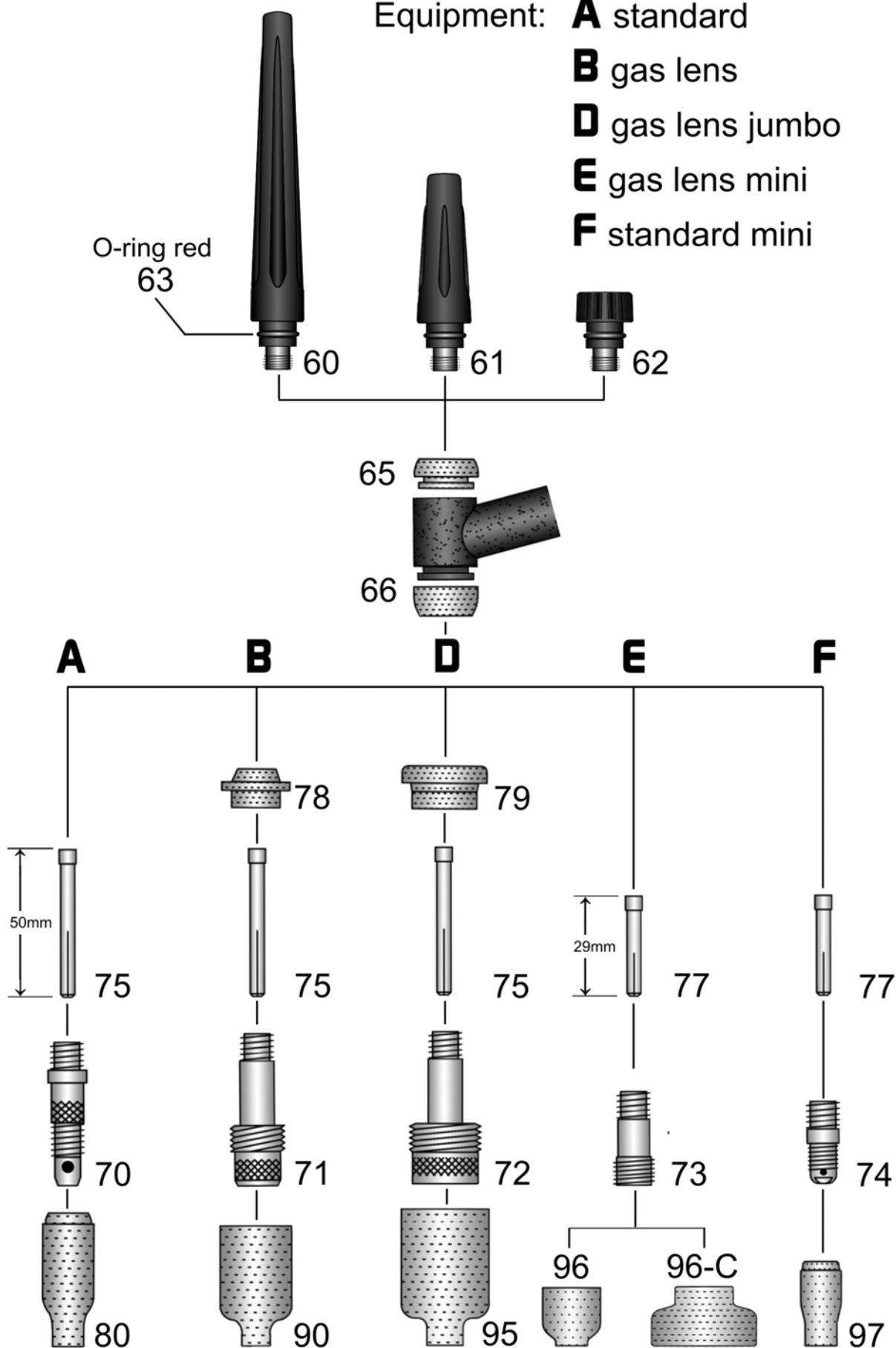
Forma WIG-handle with ball joint - different modular switch units - special switching modules on request



HSN 529-2



Equipment: **A** standard
B gas lens
D gas lens jumbo
E gas lens mini
F standard mini



Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections.

Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

17900401 Torch SR 17-TW / 4m 25mm²17900801 Torch SR 17-TW / 8m 25mm²17140401 Valve torch SR 17V-TW / 4m 25mm²17140801 Valve torch SR 17V-TW / 8m 25mm²

TIG-spares cable assemblies in different qualities, machine side with separate connections and Tüchel plug, or, if ordered so, with the following connection systems:

wig92401 TIG-spares cable assembly gas-cooled 4m - please state desired design!

wig92801 TIG-spares cable assembly gas-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29000101 Surcharge: machine side with EURO central adapter

29002005 Surcharge: machine side power/gas plug fits Lorch/Merkle with 2 O-rings

29002004 Surcharge: machine side power/gas plug fits Fronius with 1 O-ring

29002006 Surcharge: machine side power/gas plug fits Dalex with 1 O-ring

29002107 Surcharge: machine side power/gas plug fits Oerlikon with 1 O-ring

29002002 Surcharge: machine side power/gas plug fits Lorch SK35 + gas-nipple

29000112 Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

Please note that there might be additional charges for special control line plugs. See appendix

1 17991001 Torch body SR 17-TW

3 17149101 Torch body with valve SR 17V-TW

5 90789001 Rotary valve TW complete with O-rings

N.i. 17389013 O-ring ID3-W1,5mm fits rotary valve TW inside (material hepthon 951)

N.i. 17389012 O-ring ID4,6-W2mm fits rotary valve TW outside (material hepthon 951)

6 18050002 Ignition insulating hose L75mm / ID32mm down to ID16mm

11.1 91914601 Forma TIG handle with screws, ball joint, without modular switch unit

11.2 91914602 Forma screw for handle

11.3 91914603 Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)

11.4 91914611 Forma modular switch unit: 1 button with connecting adapter

11.5 91914621 Forma modular switch unit: 2 buttons with connecting adapter

11.6 91914631 Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter

11.7 91914641 Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter

11.8 91914651 Forma connecting adapter fits control line to modular switch unit

N.i. 91914661 Forma switch module safety nipple

N.i. 91914671 TW-steadying adapter, anti turn locking for TW-torch bodies

12.1 91914061 MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins

12.2 91914033 MG-handle fits TW valve torch

13 91914421 MG-tapping screw

14 91915002 MG-push button

16 91914121 MG-microswitch

17 91914221 MG-return spring

Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)**

Art.-No.		
18	91914321	MG-cylindrical pin
19	91915001	MG-hose bracket without ball joint ID19,5mm
20	17942403	Power cable 25mm ² 9/17-TW / 4m fits power/gas plugs + power gas junction (pgj)
20	17942803	Power cable 25mm ² 9/17-TW / 8m fits power/gas plugs + power gas junction (pgj)
21	17942402	Power cable 25mm ² 9/17-TW / 4m with SK25 or SK35 <--- please state!
21	17942802	Power cable 25mm ² 9/17-TW / 8m with SK25 or SK35 <--- please state!
22	17942404	Power cable 25mm ² 9/17-TW / 4m fits EURO central adapter (OT-M10x1)
22	17942804	Power cable 25mm ² 9/17-TW / 8m fits EURO central adapter (OT-M10x1)
23.3	22089056	TIG-Power cable connector pluggable ID7,2mm fits 25mm ² for power/gas plugs + pgj
23.4	22089053	TIG-Power cable connector OT-M10x1 ID7,2mm fits 25mm ²
Reel goods:		
Prices are per meter and only applicable for purchasing of complete rolls		
24	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
24	41500005	Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m)
N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	20150002	Meter neoprene protective hose ID20mm black (40m)
N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves
33	91918201	Powercable-plug SK-25 bayonet connection AD8mm
33	91918301	Powercable-plug SK-35 bayonet connection AD13mm
34	91901501	Coupling nut IT-G1/4"
34	91901211	Hose connector 4mm fits coupling nut R1/4"
37	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
39	91918521	TIG power gas junction (pgj) with connection: IT-G1/8"
39	91918522	TIG power gas junction (pgj) with connection: IT-G1/4"
39	91918523	TIG power gas junction (pgj) with connection: IT-G3/8"
39a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
N.i.	91918551	Attachment screw (plastic) M5x12mm for power gas junction (pgj)
N.i.	91918552	3 grommets for attachment screws M5x12mm power gas junction (pgj)
N.i.	91918542	Section of insulating hose ID35-L80mm power gas junction (pgj)
39.2	91918541	TIG spring socket small (without knobs)
39.4	91918531	Cable support spring L125mm for power gas junction (pgj)
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900122	TIG central adapter EURO (fits separate lines)
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918561	TIG power gas junction (pgj) fits ESAB central adapter

Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)**

Art.-No.		
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
44	9190411n	Power/gas plug fits Lorch / Merkle with 2 O-rings / power connection like pgj
44.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
45	91918326	Power/gas plug fits Fronius with 1 O-ring / power connection like pgj
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190416e	Power/gas plug fits Dalex with 1 O-ring / power connection like pgj
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190422n	Power/gas plug fits Oerlikon with 1 O-ring / power connection like pgj
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190421n	Power/gas plug fits Lorch Sk35 + gas-nipple / power connection like pgj
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
N.i.	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900556	TIG cable support short with screws (fits gas-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
60	17191311	Holch back cap long (USA version with red O-ring) SR 17-18-26 57Y02
61	17191321	Holch back cap medium (USA version with red O-ring) SR 17-18-26 57Y03
62	17191301	Holch back cap short (USA version with red O-ring) SR 17-18-26 57Y04
63	17189001	O-ring red ID8-W2mm for back cap
65	17289001	PTFE-back-cap gasket ring SR 17-18-26 18-7
66	17289021	PTFE-isolator SR 17-18-26 18CG
70	17961002	Collet body 17-18-26-220 / 1,0 10N30
70	17961602	Collet body 17-18-26-220 / 1,6 10N31
70	17962402	Collet body 17-18-26-220 / 2,4 10N32
71	17961011	Gas lens 17-18-26-220 / 1,0 45V24
71	17961611	Gas lens 17-18-26-220 / 1,6 45V25
71	17962411	Gas lens 17-18-26-220 / 2,4 45V26
72	17961021	Jumbo-Gas lens 17-18-26-220 / 1,0 45V0204
72	17961621	Jumbo-Gas lens 17-18-26-220 / 1,6 45V116
72	17962421	Jumbo-Gas lens 17-18-26-220 / 2,4 45V64
73	17961031	Gas lens "Mini" SR 17-18-26 / 1,0 conversion kit
73	17961631	Gas lens "Mini" SR 17-18-26 / 1,6 conversion kit
73	17962431	Gas lens "Mini" SR 17-18-26 / 2,4 conversion kit
74	18961003	Collet body "Mini" SR 17-18-26 1,0 conversion kit
74	18961603	Collet body "Mini" SR 17-18-26 1,6 conversion kit
74	18962403	Collet body "Mini" SR 17-18-26 2,4 conversion kit
74	18963203	Collet body "Mini" SR 17-18-26 / 1,0 - 3,2 17CB20 conversion kit

Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)****Art.-No.**

Brazen collets L-50mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
75	17105002	Collet L50mm SR 17-18-26 wp-18SC / 1,0 10N22
75	17165002	Collet L50mm SR 17-18-26 wp-18SC / 1,6 10N23
75	17245002	Collet L50mm SR 17-18-26 wp-18SC / 2,4 10N24
Copper-collets L-29mm suitable equipment line (E) gas lens mini suitable equipment line (F) standard collet body mini		
77	17103002	Collet L29mm SR 17-18-26 "Mini" 1,0 10N22S
77	17163002	Collet L29mm SR 17-18-26 "Mini" 1,6 10N23S
77	17243002	Collet L29mm SR 17-18-26 "Mini" 2,4 10N24S
78	17089021	PTFE-Gas-lens insulator 17-18-26-220 54N01
79	17089031	PTFE-Gas-lens insulator Jumbo 17-18-26-220 54N63
Ceramic gas nozzles in different lengths suitable equipment line (A) standard collet body		
80	17930401	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.4 10N50 (pu=10pieces)
80	17930501	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.5 10N49 (pu=10pieces)
80	17930601	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.6 10N48 (pu=10pieces)
80	17930701	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.7 10N47 (pu=10pieces)
80	17930801	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.8 10N46 (pu=10pieces)
80	17930101	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.10 10N45 (pu=10pieces)
80	17930121	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.12 10N44 (pu=10pieces)
N.i.	17930404	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.4 10N50L (pu=10pieces)
N.i.	17930504	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.5 10N49L (pu=10pieces)
N.i.	17930604	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.6 10N48L (pu=10pieces)
N.i.	17930704	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.7 10N47L (pu=10pieces)
Ceramic gas nozzles in different lengths suitable equipment line (B) gas lens		
90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)
N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)
Ceramic gas nozzles jumbo in different lengths suitable equipment line (D) gas lens jumbo		
95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)

Welding-torch TIG gas-cooled**140A at 100 % duty cycle (DC) - 125A at 100 % duty cycle (AC)**

Art.-No.		
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)
N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)
Ceramic gas nozzles L-20 mm suitable equipment line (E) gas lens mini		
96	17930502	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.5 fits gas lens "Mini" 53N59MS (pu=10pieces)
96	17930602	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.6 fits gas lens "Mini" 53N60MS (pu=10pieces)
96	17930702	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.7 fits gas lens "Mini" 53N61MS (pu=10pieces)
96-C	17930006	Ceramic nozzle for gas lens Kir Royal 17-18-26 / fits tungsten electrodes up to 3,2mm
Ceramic gas nozzles suitable equipment line (F) collet body standard mini		
97	20930401	Ceramic gas nozzle L30mm / Gr. 4 13N08 (pu=10pieces)
97	20930501	Ceramic gas nozzle L30mm / Gr. 5 13N09 (pu=10pieces)
97	20930601	Ceramic gas nozzle L30mm / Gr. 6 13N10 (pu=10pieces)
97	20930701	Ceramic gas nozzle L30mm / Gr. 7 13N11 (pu=10pieces)
97	20930801	Ceramic gas nozzle L30mm / Gr. 8 13N12 (pu=10pieces)
97	20930101	Ceramic gas nozzle L30mm / Gr.10 13N13 (pu=10pieces)
N.i.	20930304	Ceramic gas nozzle L48mm / Gr. 3 796F70 (pu=10pieces)
N.i.	20930404	Ceramic gas nozzle L48mm / Gr. 4 796F71 (pu=10pieces)
N.i.	20930504	Ceramic gas nozzle L48mm / Gr. 5 796F72 (pu=10pieces)
o.A	20930604	Ceramic gas nozzle L48mm / Gr. 6 796F73 (pu=10pieces)
N.i.	20930306	Ceramic gas nozzle L63mm / Gr. 3 796F74 (pu=10pieces)
N.i.	20930406	Ceramic gas nozzle L63mm / Gr. 4 796F75 (pu=10pieces)
N.i.	20930506	Ceramic gas nozzle L63mm / Gr. 5 796F76 (pu=10pieces)
N.i.	20930606	Ceramic gas nozzle L63mm / Gr. 6 796F77 (pu=10pieces)
N.i.	20930408	Ceramic gas nozzle L89mm / Gr. 4 796F79 (pu=10pieces)

Top quality tungsten electrodes in 8 different qualities, see appendix A.

Torch SR 26-TW gas-cooled



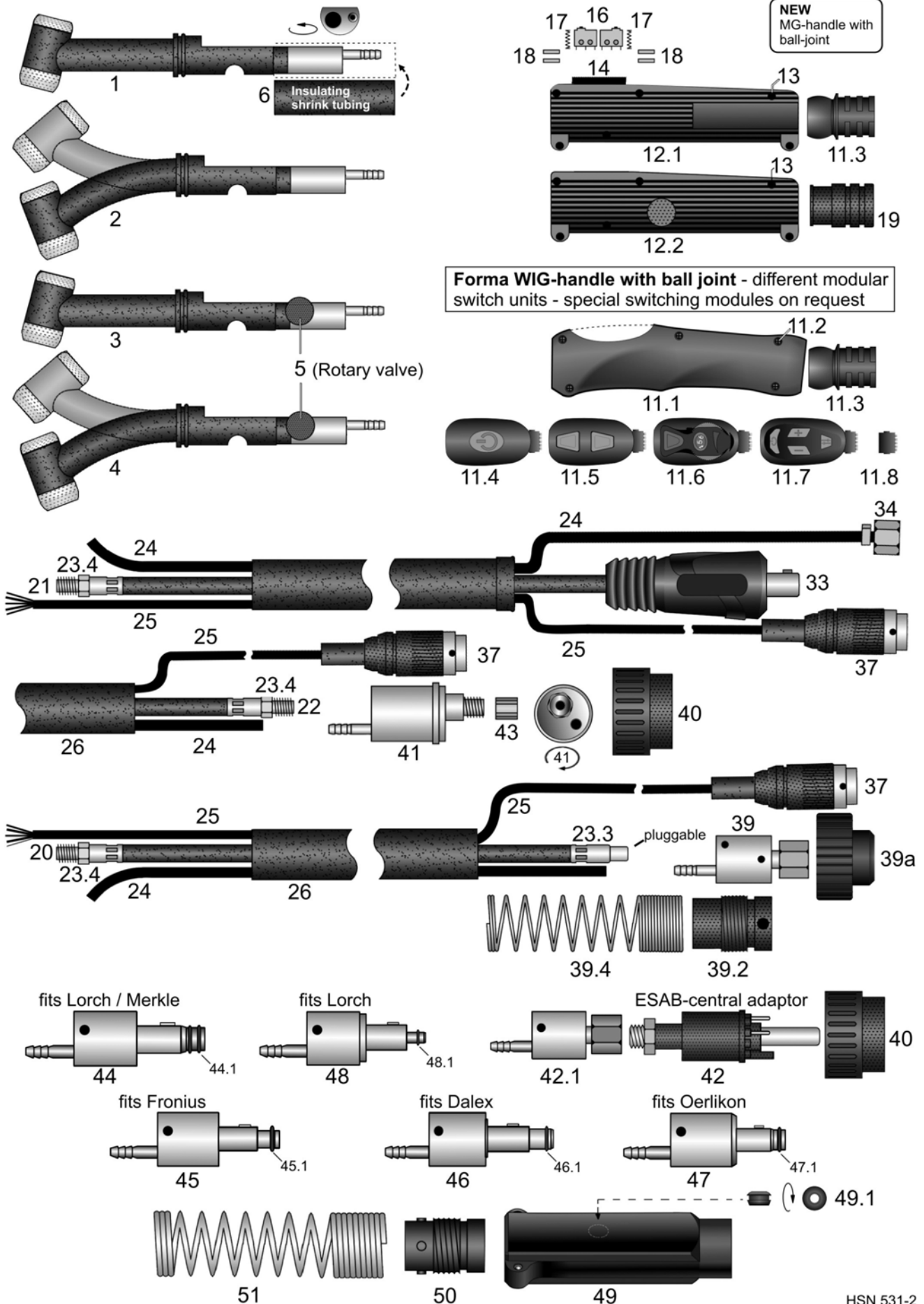
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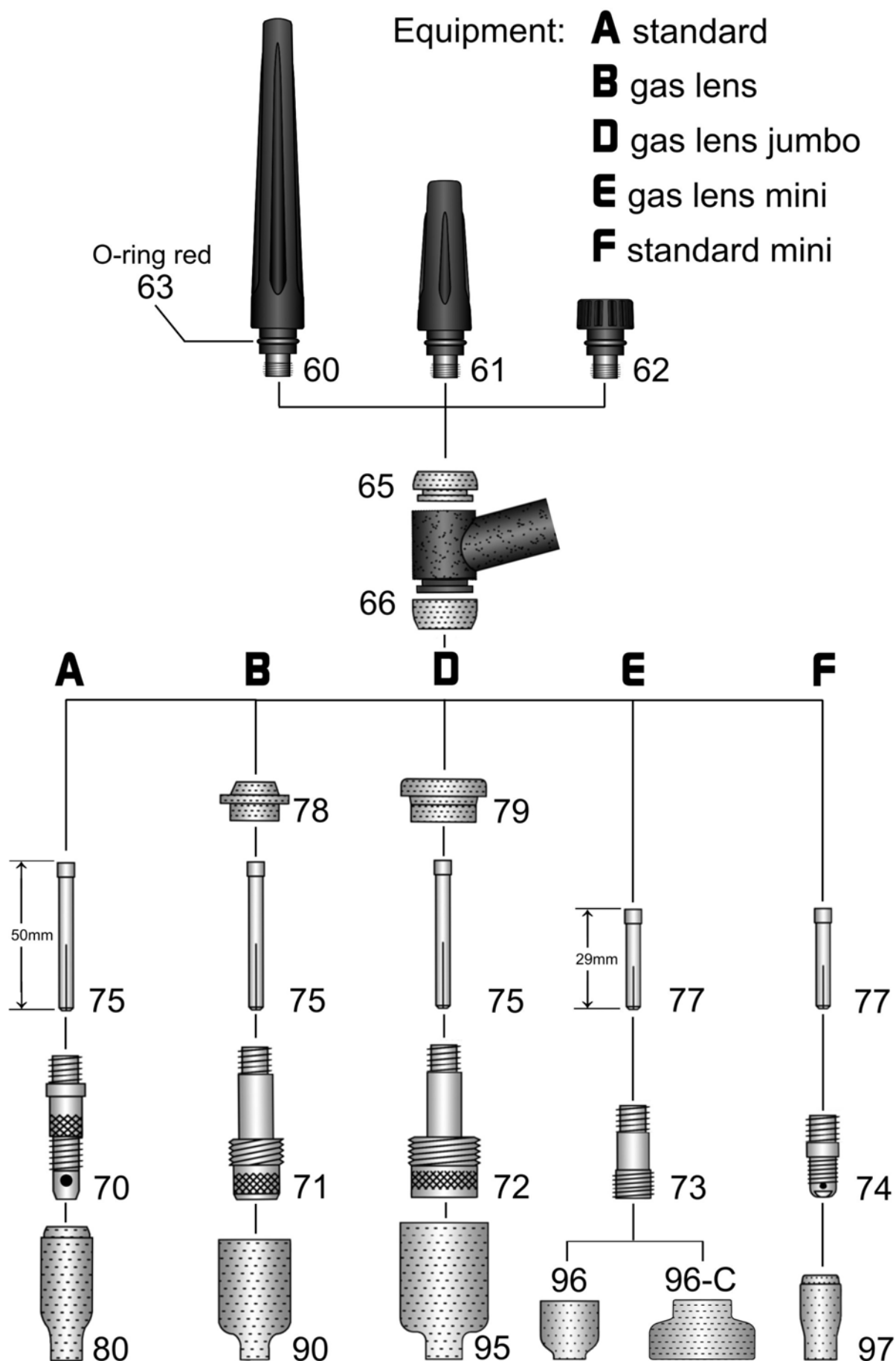
SR 26-TW gas-cooled



240 Ampere at 100% duty cycle (DC) - 200 Ampere at 100% duty cycle (AC)



HSN 531-2



Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections.

Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

26600401 Torch SR 26-TW / 4m 35mm²26600801 Torch SR 26-TW / 8m 35mm²26700401 FLEX-torch SR 26F-TW / 4m 35mm² neck flexible26700801 FLEX-torch SR 26F-TW / 8m 35mm² neck flexible26800401 Valve torch SR 26V-TW / 4m 35mm²26800801 Valve torch SR 26V-TW / 8m 35mm²26900401 FLEX-Valve torch SR 26FV-TW / 4m 35mm² neck flexible26900801 FLEX-Valve torch SR 26FV-TW / 8m 35mm² neck flexible

TIG-spares cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92401 TIG-spares cable assembly gas-cooled 4m - please state desired design!

wig92801 TIG-spares cable assembly gas-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29000101 Surcharge: machine side with EURO central adapter

29002005 Surcharge: machine side power/gas plug fits Lorch/Merkle with 2 O-rings

29002004 Surcharge: machine side power/gas plug fits Fronius with 1 O-ring

29002006 Surcharge: machine side power/gas plug fits Dalex with 1 O-ring

29002107 Surcharge: machine side power/gas plug fits Oerlikon with 1 O-ring

29002002 Surcharge: machine side power/gas plug fits Lorch SK35 + gas-nipple

29000112 Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

Please note that there might be additional charges for special control line plugs. See appendix

1 26691001 Torch body SR 26-TW

2 26791001 Torch body SR 26F-TW neck flexible (FLEX)

3 26891001 Torch body with valve SR 26V-TW

4 26991001 Torch body with valve SR 26FV-TW neck flexible (FLEX)

5 90789001 Rotary valve TW complete with O-rings

N.i. 17389013 O-ring ID3-W1,5mm fits rotary valve TW inside (material hepthon 951)

N.i. 17389012 O-ring ID4,6-W2mm fits rotary valve TW outside (material hepthon 951)

6 18050002 Ignition insulating hose L75mm / ID32mm down to ID16mm

11.1 91914601 Forma TIG handle with screws, ball joint, without modular switch unit

11.2 91914602 Forma screw for handle

11.3 91914603 Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)

11.4 91914611 Forma modular switch unit: 1 button with connecting adapter

11.5 91914621 Forma modular switch unit: 2 buttons with connecting adapter

11.6 91914631 Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter

11.7 91914641 Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter

11.8 91914651 Forma connecting adapter fits control line to modular switch unit

N.i. 91914661 Forma switch module safety nipple

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	91914671	TW-steadying adapter, anti turn locking for TW-torch bodies
12.1	91914061	MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins
12.2	91914033	MG-handle fits TW valve torch
13	91914421	MG-tapping screw
14	91915002	MG-push button
16	91914121	MG-microswitch
17	91914221	MG-return spring
18	91914321	MG-cylindrical pin
19	91915001	MG-hose bracket without ball joint ID19,5mm
20	26942403	Power cable 35mm ² 26/220-TW / 4m fits power/gas plugs + power gas junction (pgj)
20	26942803	Power cable 35mm ² 26/220-TW / 8m fits power/gas plugs + power gas junction (pgj)
21	26942402	Power cable 35mm ² 26/220-TW / 4m with SK25 or SK35 <--- please state!
21	26942802	Power cable 35mm ² 26/220-TW / 8m with SK25 or SK35 <--- please state!
22	26942404	Power cable 35mm ² 26/220-TW / 4m EURO fits central adapter (OT-M10x1)
22	26942804	Power cable 35mm ² 26/220-TW / 8m EURO fits central adapter (OT-M10x1)
23.3	22089057	TIG-Power cable connector pluggable ID8,2mm fits 35mm ²
23.4	22089054	TIG-Power cable connector OT-M10x1 ID8,2mm fits 35mm ²
Reel goods: Prices are per meter and only applicable for purchasing of complete rolls		
24	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
24	41500005	Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m)
N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)
N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves
33	91918201	Powercable-plug SK-25 bayonet connection AD8mm
33	91918301	Powercable-plug SK-35 bayonet connection AD13mm
34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
37	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
39	91918521	TIG power gas junction (pgj) with connection: IT-G1/8"
39	91918522	TIG power gas junction (pgj) with connection: IT-G1/4"
39	91918523	TIG power gas junction (pgj) with connection: IT-G3/8"
39a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
N.i.	91918551	Attachment screw (plastic) M5x12mm for power gas junction (pgj)
N.i.	91918552	3 grommets for attachment screws M5x12mm power gas junction (pgj)
N.i.	91918542	Section of insulating hose ID35-L80mm power gas junction (pgj)

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
39.2	91918541	TIG spring socket small (without knobs)
39.4	91918531	Cable support spring L125mm for power gas junction (pgj)
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900122	TIG central adapter EURO (fits separate lines)
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918561	TIG power gas junction (pgj) fits ESAB central adapter
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
44	9190411n	Power/gas plug fits Lorch / Merkle with 2 O-rings / power connection like pgj
44.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
45	91918326	Power/gas plug fits Fronius with 1 O-ring / power connection like pgj
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190416e	Power/gas plug fits Dalex with 1 O-ring / power connection like pgj
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190422n	Power/gas plug fits Oerlikon with 1 O-ring / power connection like pgj
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190421n	Power/gas plug fits Lorch Sk35 + gas-nipple / power connection like pgj
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
N.i.	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900556	TIG cable support short with screws (fits gas-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
60	17191311	Holch back cap long (USA version with red O-ring) SR 17-18-26 57Y02
61	17191321	Holch back cap medium (USA version with red O-ring) SR 17-18-26 57Y03
62	17191301	Holch back cap short (USA version with red O-ring) SR 17-18-26 57Y04
63	17189001	O-ring red ID8-W2mm for back cap
65	17289001	PTFE-back-cap gasket ring SR 17-18-26 18-7
66	17289021	PTFE-isolator SR 17-18-26 18CG
70	17961002	Collet body 17-18-26-220 / 1,0 10N30
70	17961602	Collet body 17-18-26-220 / 1,6 10N31
70	17962402	Collet body 17-18-26-220 / 2,4 10N32
70	18963202	Collet body 17-18-26-220 / 3,2 10N28
71	17961011	Gas lens 17-18-26-220 / 1,0 45V24
71	17961611	Gas lens 17-18-26-220 / 1,6 45V25
71	17962411	Gas lens 17-18-26-220 / 2,4 45V26
71	18963211	Gas lens 17-18-26-220 / 3,2 45V27
72	17961021	Jumbo-Gas lens 17-18-26-220 / 1,0 45V0204
72	17961621	Jumbo-Gas lens 17-18-26-220 / 1,6 45V116
72	17962421	Jumbo-Gas lens 17-18-26-220 / 2,4 45V64
72	18963221	Jumbo-Gas lens 17-18-26-220 / 3,2 995795
73	17961031	Gas lens "Mini" SR 17-18-26 / 1,0 conversion kit

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
73	17961631	Gas lens "Mini" SR 17-18-26 / 1,6 conversion kit
73	17962431	Gas lens "Mini" SR 17-18-26 / 2,4 conversion kit
73	18963231	Gas lens "Mini" SR 17-18-26 / 3,2 conversion kit
74	18961003	Collet body "Mini" SR 17-18-26 1,0 conversion kit
74	18961603	Collet body "Mini" SR 17-18-26 1,6 conversion kit
74	18962403	Collet body "Mini" SR 17-18-26 2,4 conversion kit
74	18963203	Collet body "Mini" SR 17-18-26 / 1,0 - 3,2 17CB20 conversion kit
Brazen collets L-50mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
75	17105002	Collet L50mm SR 17-18-26 wp-18SC / 1,0 10N22
75	17165002	Collet L50mm SR 17-18-26 wp-18SC / 1,6 10N23
75	17245002	Collet L50mm SR 17-18-26 wp-18SC / 2,4 10N24
75	18325002	Collet L50mm SR 17-18-26 wp-18SC / 3,2 10N25
Copper-collets L-29mm suitable equipment line (E) gas lens mini suitable equipment line (F) standard collet body mini		
77	17103002	Collet L29mm SR 17-18-26 "Mini" 1,0 10N22S
77	17163002	Collet L29mm SR 17-18-26 "Mini" 1,6 10N23S
77	17243002	Collet L29mm SR 17-18-26 "Mini" 2,4 10N24S
77	18323002	Collet L29mm SR 17-18-26 "Mini" 3,2 10N25S
78	17089021	PTFE-Gas-lens insulator 17-18-26-220 54N01
79	17089031	PTFE-Gas-lens insulator Jumbo 17-18-26-220 54N63
Ceramic gas nozzles in different lengths suitable equipment line (A) standard collet body		
80	17930401	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.4 10N50 (pu=10pieces)
80	17930501	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.5 10N49 (pu=10pieces)
80	17930601	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.6 10N48 (pu=10pieces)
80	17930701	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.7 10N47 (pu=10pieces)
80	17930801	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.8 10N46 (pu=10pieces)
80	17930101	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.10 10N45 (pu=10pieces)
80	17930121	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.12 10N44 (pu=10pieces)
N.i.	17930404	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.4 10N50L (pu=10pieces)
N.i.	17930504	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.5 10N49L (pu=10pieces)
N.i.	17930604	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.6 10N48L (pu=10pieces)
N.i.	17930704	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.7 10N47L (pu=10pieces)
Ceramic gas nozzles in different lengths suitable equipment line (B) gas lens		
90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)
Ceramic gas nozzles jumbo in different lengths suitable equipment line (D) gas lens jumbo		
95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)
N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)
Ceramic gas nozzles L-20mm suitable equipment line (E) gas lens mini		
96	17930502	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.5 fits gas lens "Mini" 53N59MS (pu=10pieces)
96	17930602	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.6 fits gas lens "Mini" 53N60MS (pu=10pieces)
96	17930702	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.7 fits gas lens "Mini" 53N61MS (pu=10pieces)
96-C	17930006	Ceramic nozzle for gas lens Kir Royal 17-18-26 / fits tungsten electrodes up to 3,2mm
Ceramic gas nozzles suitable equipment line (F) collet body standard mini		
97	20930401	Ceramic gas nozzle L30mm / Gr. 4 13N08 (pu=10pieces)
97	20930501	Ceramic gas nozzle L30mm / Gr. 5 13N09 (pu=10pieces)
97	20930601	Ceramic gas nozzle L30mm / Gr. 6 13N10 (pu=10pieces)
97	20930701	Ceramic gas nozzle L30mm / Gr. 7 13N11 (pu=10pieces)
97	20930801	Ceramic gas nozzle L30mm / Gr. 8 13N12 (pu=10pieces)
97	20930101	Ceramic gas nozzle L30mm / Gr.10 13N13 (pu=10pieces)
N.i.	20930304	Ceramic gas nozzle L48mm / Gr. 3 796F70 (pu=10pieces)
N.i.	20930404	Ceramic gas nozzle L48mm / Gr. 4 796F71 (pu=10pieces)
N.i.	20930504	Ceramic gas nozzle L48mm / Gr. 5 796F72 (pu=10pieces)
o.A	20930604	Ceramic gas nozzle L48mm / Gr. 6 796F73 (pu=10pieces)
N.i.	20930306	Ceramic gas nozzle L63mm / Gr. 3 796F74 (pu=10pieces)
N.i.	20930406	Ceramic gas nozzle L63mm / Gr. 4 796F75 (pu=10pieces)
N.i.	20930506	Ceramic gas nozzle L63mm / Gr. 5 796F76 (pu=10pieces)
N.i.	20930606	Ceramic gas nozzle L63mm / Gr. 6 796F77 (pu=10pieces)
N.i.	20930408	Ceramic gas nozzle L89mm / Gr. 4 796F79 (pu=10pieces)

Top quality tungsten electrodes in 8 different qualities, see appendix A.

Torch ABL 220-TW gas-cooled



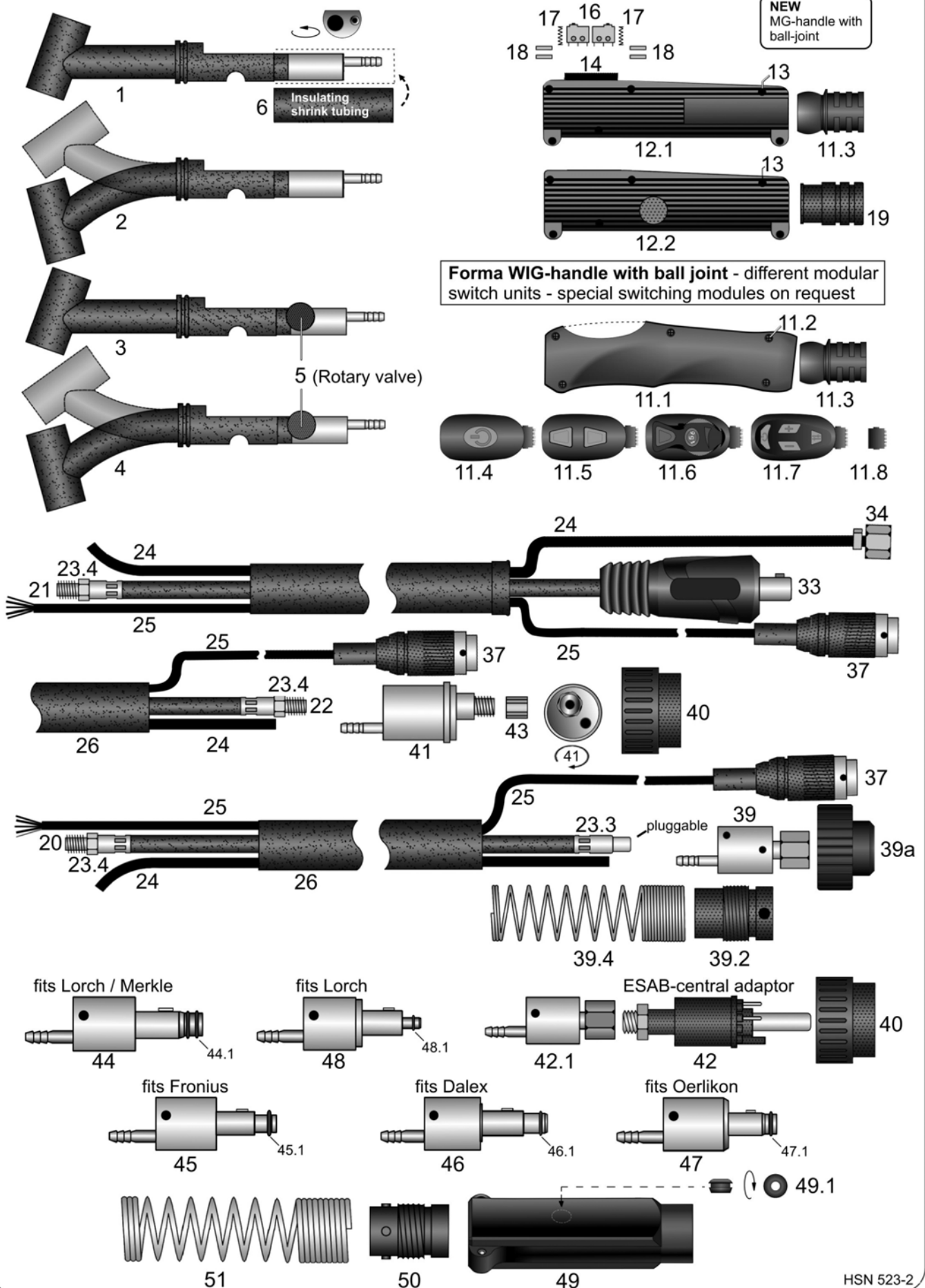
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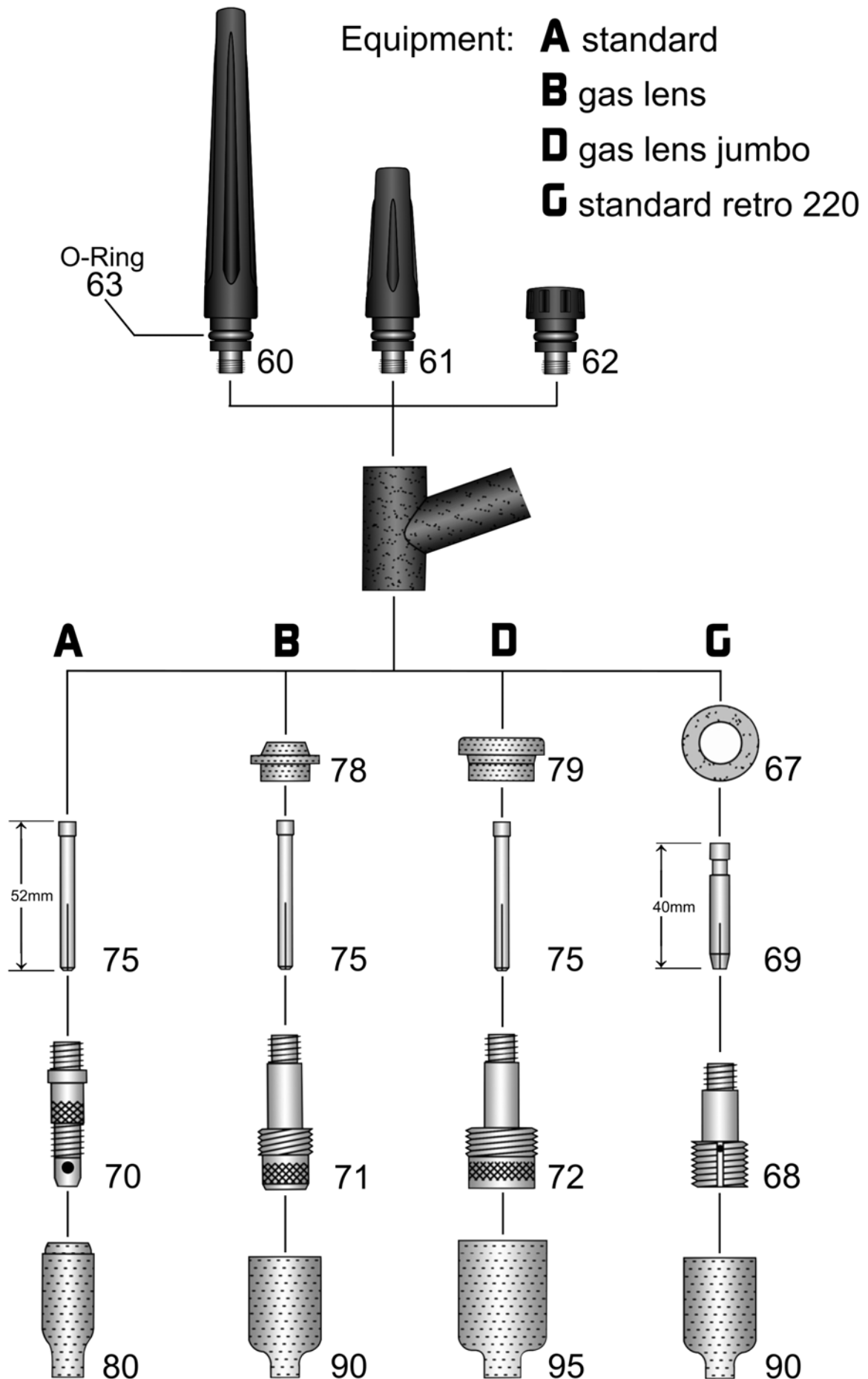
ABL 220-TW gas-cooled



240 Ampere at 100% duty cycle (DC) - 200 Ampere at 100% duty cycle (AC)



HSN 523-2



Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections.

Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

22060401 Torch ABL 220-TW / 4m 35mm²22060801 Torch ABL 220-TW / 8m 35mm²22070401 FLEX-torch ABL 220F-TW / 4m 35mm² neck flexible22070801 FLEX-torch ABL 220F-TW / 8m 35mm² neck flexible22080401 Valve torch ABL 220V-TW / 4m 35mm²22080801 Valve torch ABL 220V-TW / 8m 35mm²22090401 FLEX-Valve torch ABL 220FV-TW / 4m 35mm² neck flexible22090801 FLEX-Valve torch ABL 220FV-TW / 8m 35mm² neck flexible

TIG-spares cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92401 TIG-spares cable assembly gas-cooled 4m - please state desired design!

wig92801 TIG-spares cable assembly gas-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29000101 Surcharge: machine side with EURO central adapter

29002005 Surcharge: machine side power/gas plug fits Lorch/Merkle with 2 O-rings

29002004 Surcharge: machine side power/gas plug fits Fronius with 1 O-ring

29002006 Surcharge: machine side power/gas plug fits Dalex with 1 O-ring

29002107 Surcharge: machine side power/gas plug fits Oerlikon with 1 O-ring

29002002 Surcharge: machine side power/gas plug fits Lorch SK35 + gas-nipple

29000112 Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

Please note that there might be additional charges for special control line plugs. See appendix

1 22069101 Torch body ABL 220-TW

2 22079101 Torch body ABL 220F-TW neck flexible (FLEX)

3 22089101 Torch body with valve ABL 220V-TW

4 22099101 Torch body with valve ABL 220FV-TW neck flexible (FLEX)

5 90789001 Rotary valve TW complete with O-rings

N.i. 17389013 O-ring ID3-W1,5mm fits rotary valve TW inside (material hepthon 951)

N.i. 17389012 O-ring ID4,6-W2mm fits rotary valve TW outside (material hepthon 951)

6 18050002 Ignition insulating hose L75mm / ID32mm down to ID16mm

11.1 91914601 Forma TIG handle with screws, ball joint, without modular switch unit

11.2 91914602 Forma screw for handle

11.3 91914603 Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)

11.4 91914611 Forma modular switch unit: 1 button with connecting adapter

11.5 91914621 Forma modular switch unit: 2 buttons with connecting adapter

11.6 91914631 Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter

11.7 91914641 Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter

11.8 91914651 Forma connecting adapter fits control line to modular switch unit

N.i. 91914661 Forma switch module safety nipple

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	91914671	TW-steadying adapter, anti turn locking for TW-torch bodies
12.1	91914061	MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins
12.2	91914033	MG-handle fits TW valve torch
13	91914421	MG-tapping screw
14	91915002	MG-push button
16	91914121	MG-microswitch
17	91914221	MG-return spring
18	91914321	MG-cylindrical pin
19	91915001	MG-hose bracket without ball joint ID19,5mm
20	26942403	Power cable 35mm ² 26/220-TW / 4m fits power/gas plugs + power gas junction (pgj)
20	26942803	Power cable 35mm ² 26/220-TW / 8m fits power/gas plugs + power gas junction (pgj)
21	26942402	Power cable 35mm ² 26/220-TW / 4m with SK25 or SK35 <--- please state!
21	26942802	Power cable 35mm ² 26/220-TW / 8m with SK25 or SK35 <--- please state!
22	26942404	Power cable 35mm ² 26/220-TW / 4m EURO fits central adapter (OT-M10x1)
22	26942804	Power cable 35mm ² 26/220-TW / 8m EURO fits central adapter (OT-M10x1)
23.3	22089057	TIG-Power cable connector pluggable ID8,2mm fits 35mm ²
23.4	22089054	TIG-Power cable connector OT-M10x1 ID8,2mm fits 35mm ²
Reel goods: Prices are per meter and only applicable for purchasing of complete rolls		
24	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
24	41500005	Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m)
N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)
N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves
33	91918201	Powercable-plug SK-25 bayonet connection AD8mm
33	91918301	Powercable-plug SK-35 bayonet connection AD13mm
34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
37	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
39	91918521	TIG power gas junction (pgj) with connection: IT-G1/8"
39	91918522	TIG power gas junction (pgj) with connection: IT-G1/4"
39	91918523	TIG power gas junction (pgj) with connection: IT-G3/8"
39a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
N.i.	91918551	Attachment screw (plastic) M5x12mm for power gas junction (pgj)
N.i.	91918552	3 grommets for attachment screws M5x12mm power gas junction (pgj)

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	91918542	Section of insulating hose ID35-L80mm power gas junction (pgj)
39.2	91918541	TIG spring socket small (without knobs)
39.4	91918531	Cable support spring L125mm for power gas junction (pgj)
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900122	TIG central adapter EURO (fits separate lines)
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918561	TIG power gas junction (pgj) fits ESAB central adapter
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
44	9190411n	Power/gas plug fits Lorch / Merkle with 2 O-rings / power connection like pgj
44.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
45	91918326	Power/gas plug fits Fronius with 1 O-ring / power connection like pgj
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190416e	Power/gas plug fits Dalex with 1 O-ring / power connection like pgj
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190422n	Power/gas plug fits Oerlikon with 1 O-ring / power connection like pgj
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190421n	Power/gas plug fits Lorch Sk35 + gas-nipple / power connection like pgj
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
N.i.	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900556	TIG cable support short with screws (fits gas-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
60	17091311	Holch back cap long (german version with black O-ring) AS17-AS18-ABL220 57Y02-D
61	17091321	Holch back cap medium (german version with black O-ring) AS17-AS18-ABL220 57Y03-D
62	17091301	Holch back cap short (german version with black O-ring) AS17-AS18-ABL220 57Y04-D
63	17089011	O-ring black ID9-W2,5mm for back cap
67	22089071	Ceramic gas nozzle gasket ABL 220
68	22096001	Copper collet body ABL 220 up to 3,2mm
Brazen collets L-40mm suitable equipment line (G) standard Retro 220		
69	22010402	Collet L40mm ABL 220 / 1,0
69	22016402	Collet L40mm ABL 220 / 1,6
69	22024402	Collet L40mm ABL 220 / 2,4
69	22032402	Collet L40mm ABL 220 / 3,2
70	17961002	Collet body 17-18-26-220 / 1,0 10N30
70	17961602	Collet body 17-18-26-220 / 1,6 10N31
70	17962402	Collet body 17-18-26-220 / 2,4 10N32
70	18963202	Collet body 17-18-26-220 / 3,2 10N28

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
71	17961011	Gas lens 17-18-26-220 / 1,0 45V24
71	17961611	Gas lens 17-18-26-220 / 1,6 45V25
71	17962411	Gas lens 17-18-26-220 / 2,4 45V26
71	18963211	Gas lens 17-18-26-220 / 3,2 45V27
72	17961021	Jumbo-Gas lens 17-18-26-220 / 1,0 45V0204
72	17961621	Jumbo-Gas lens 17-18-26-220 / 1,6 45V116
72	17962421	Jumbo-Gas lens 17-18-26-220 / 2,4 45V64
72	18963221	Jumbo-Gas lens 17-18-26-220 / 3,2 995795

Brazen collets L-52mm**suitable equipment line (A) standard collet body****suitable equipment line (B) gas lens****suitable equipment line (D) gas lens jumbo**

75	17105202	Collet L52mm AS17-AS18-ABL220 / 1,0 10N22-D
75	17165202	Collet L52mm AS17-AS18-ABL220 / 1,6 10N23-D
75	17245202	Collet L52mm AS17-AS18-ABL220 / 2,4 10N24-D
75	18325202	Collet L52mm AS17-AS18-ABL220 / 3,2 10N25-D
78	17089021	PTFE-Gas-lens insulator 17-18-26-220 54N01
79	17089031	PTFE-Gas-lens insulator Jumbo 17-18-26-220 54N63

Ceramic gas nozzles in different lengths**suitable equipment line (A) standard collet body**

80	17930401	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.4 10N50 (pu=10pieces)
80	17930501	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.5 10N49 (pu=10pieces)
80	17930601	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.6 10N48 (pu=10pieces)
80	17930701	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.7 10N47 (pu=10pieces)
80	17930801	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.8 10N46 (pu=10pieces)
80	17930101	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.10 10N45 (pu=10pieces)
80	17930121	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.12 10N44 (pu=10pieces)

N.i.	17930404	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.4 10N50L (pu=10pieces)
N.i.	17930504	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.5 10N49L (pu=10pieces)
N.i.	17930604	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.6 10N48L (pu=10pieces)
N.i.	17930704	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.7 10N47L (pu=10pieces)

Ceramic gas nozzles different lengths**suitable equipment line (B) gas lens****suitable equipment line (G) standard Retro 220**

90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)
N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)****Art.-No.**

Ceramic gas nozzles jumbo in different lengths suitable equipment line (D) gas lens jumbo		
95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)
N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)
Top quality tungsten electrodes in 8 different qualities, see appendix A.		

Torch 12-1-TW water-cooled



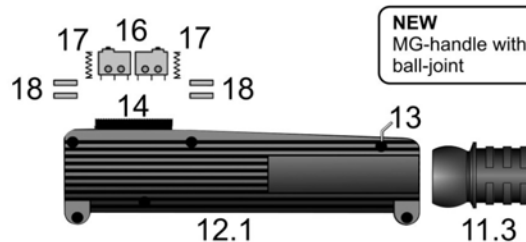
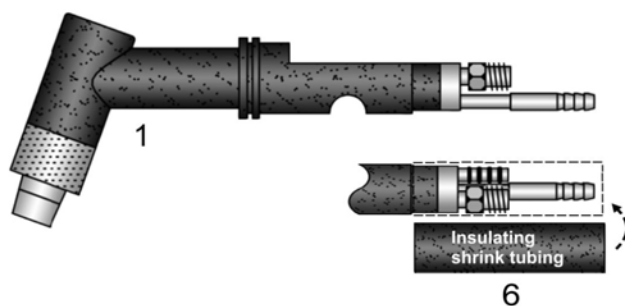
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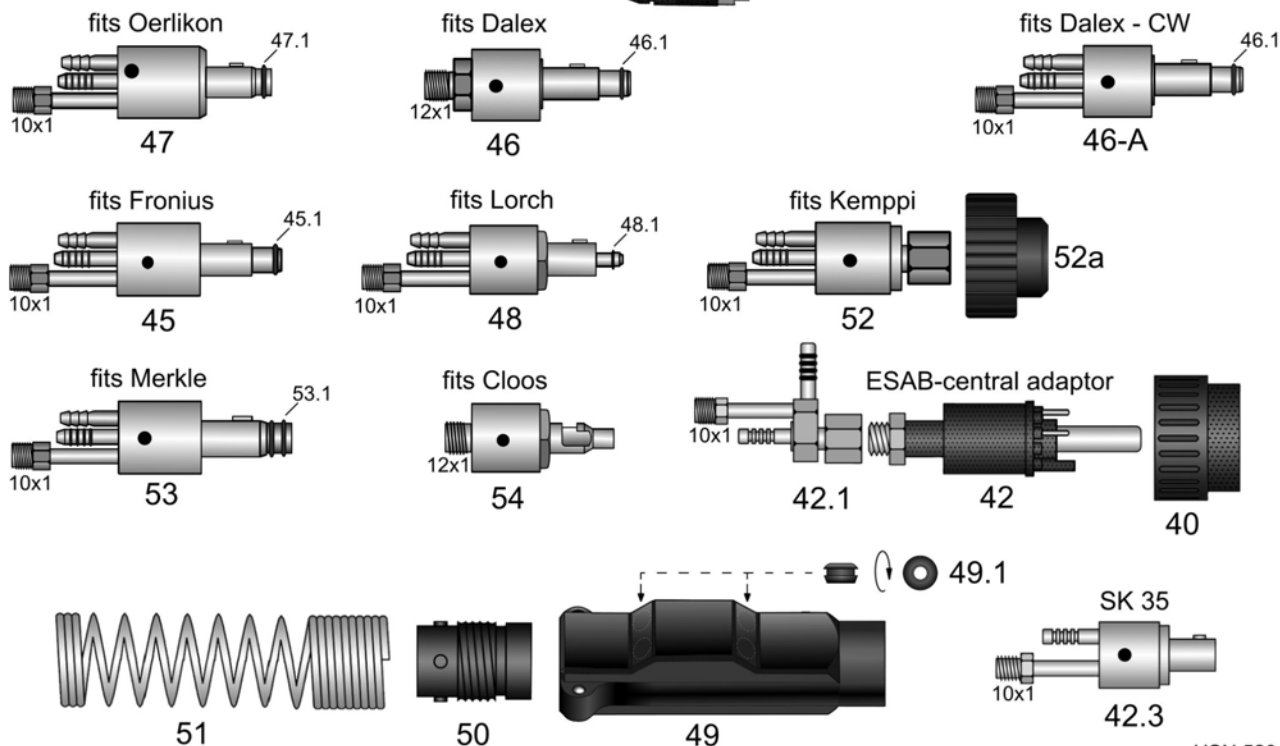
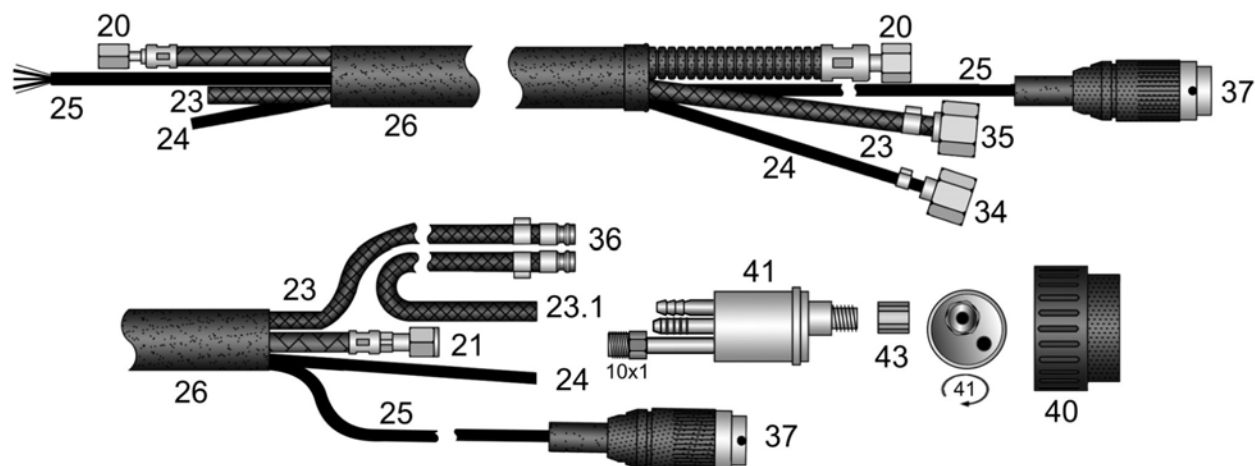
12-1-TW water-cooled



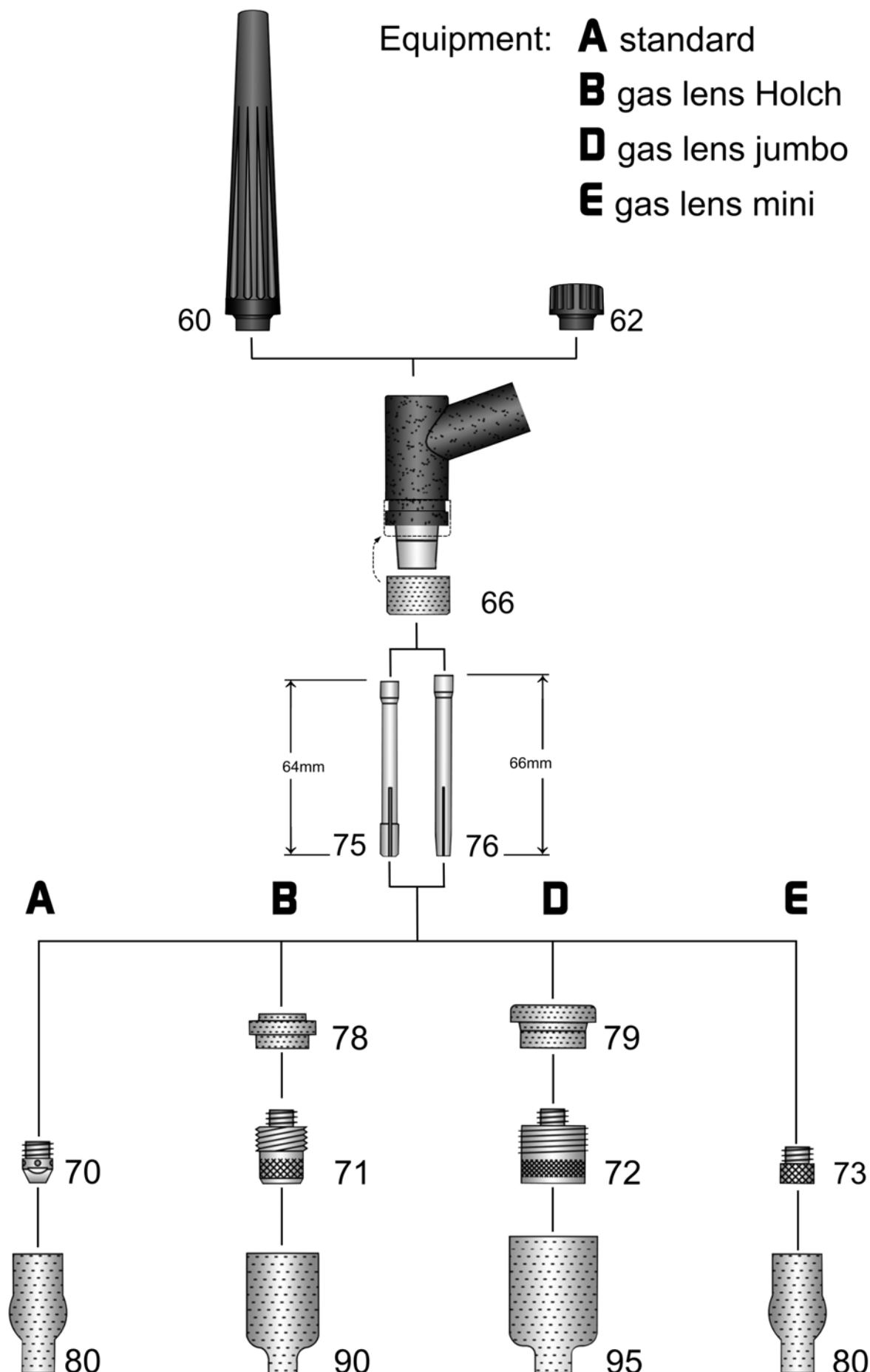
350 Ampere at 100% duty cycle (DC) - 260 Ampere at 100% duty cycle (AC)



Forma WIG-handle with ball joint - different modular switch units - special switching modules on request



HSN 520-2



Welding-torch TIG water-cooled**350A at 100 % duty cycle (DC) - 260A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections with Tuchel plug.

In variation to the torches listed below, the torches can also be produced with other power / water cables (e.g. HT 180 silicone superflexible). This can also be combined with hoses in a lot of different qualities. Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

12300401	Torch 12-1-TW / 4m cable assembly ST 80 PVC-NIT
12300801	Torch 12-1-TW / 8m cable assembly ST 80 PVC-NIT

The following torches are equipped with very flexible and heat resistant HT110 rubber fabric hoses.

1230040P	Torch 12-1-TW-PLUS / 4m cable assembly HT 110
1230080P	Torch 12-1-TW-PLUS / 8m cable assembly HT 110

TIG-spares cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92402	TIG-spares cable assembly water-cooled 4m - please state desired design!
wig92802	TIG-spares cable assembly water-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29002102	Surcharge: machine side power/water plug SK35 bayonet connection AD13mm
29000201	Surcharge: machine side with EURO central adapter
29002109	Surcharge: machine side power/water plug fits Merkle with 2 O-rings
29002106	Surcharge: machine side power/water plug fits Fronius with 1 O-ring
29002101	Surcharge: machine side power/water plug fits Dalex with 1 O-ring
29002108	Surcharge: machine side power/water plug fits Oerlikon with 1 O-ring
29002104	Surcharge: machine side power/water plug fits Lorch SK35 + gas-nipple
29002105	Surcharge: machine side power/water plug fits Kemppi IT-G1/4"
29002110	Surcharge: machine side power/water plug fits Cloos
29000212	Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

Please note that there might be additional charges for special control line plugs. See appendix

1	12391001	Torch body 12-1-TW
6	18050002	Ignition insulating hose L75mm / ID32mm down to ID16mm

11.1	91914601	Forma TIG handle with screws, ball joint, without modular switch unit
11.2	91914602	Forma screw for handle
11.3	91914603	Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)
11.4	91914611	Forma modular switch unit: 1 button with connecting adapter
11.5	91914621	Forma modular switch unit: 2 buttons with connecting adapter
11.6	91914631	Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter
11.7	91914641	Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter
11.8	91914651	Forma connecting adapter fits control line to modular switch unit
N.i.	91914661	Forma switch module safety nipple
N.i.	91914671	TW-steadying adapter, anti turn locking for TW-torch bodies

12.1	91914061	MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins
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Welding-torch TIG water-cooled**350A at 100 % duty cycle (DC) - 260A at 100 % duty cycle (AC)**

Art.-No.		
13	91914421	MG-tapping screw
14	91915002	MG-push button
16	91914121	MG-microswitch
17	91914221	MG-return spring
18	91914321	MG-cylindrical pin
Please state the machine side connection for the following power / water cables. For 4m long torches:		
20	12942401	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 4m
20	12942403	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 4m
20	12942405	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 4m
20	12942408	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 4m
For 8m long torches:		
20	12942801	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 8m
20	12942803	HT 110 Rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 8m
20	12942805	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 8m
20	12942808	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 8m
The following power / water cables are produced with M10x1 inner thread at the machine side for EURO central adapters. (fits to all Holch connection systems with outer thread M10x1). For 4m long torches:		
21	12942411	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 4m
21	12942413	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 4m
21	12942415	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 4m
21	12942418	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 4m
For 8m long torches:		
21	12942811	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 8m
21	12942813	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 8m
21	12942815	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 8m
21	12942818	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 8m
Reel goods: Prices are per meter and only applicable for purchasing of complete rolls		
23	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
23	51700002	Meter HT 110 rubber fabric hose ID5,0-W1,7mm blue for water (150m)
23.1	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
23.1	51700003	Meter HT 110 rubber fabric hose ID5,0-W1,7mm red for water (150m)
24	31000001	Meter ST 70 PVC hose ID3,0-W1,0mm black for gas (100m)
24	51700001	Meter HT 110 rubber fabric hose ID5,0-W1,7mm black for gas (150m)
24	31200002	Meter HT 130 TPE hose ID3-W1,2mm yellow for gas (100m)
N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)
N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves
34	91901501	Coupling nut IT-G1/4"

Welding-torch TIG water-cooled**350A at 100 % duty cycle (DC) - 260A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
35	91901601	Coupling nut IT-G3/8"
N.i.	91901301	Hose connector 5mm fits Coupling nut R3/8"
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	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900211	TIG central adapter EURO central adapter water cooled
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918571	TIG power/cooling liquid junction fits ESAB central adapter
42.3	91918312	TIG central adapter SK-35 bayonet connection AD13mm
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
45	91918327	Power/water plug fits Fronius with 1 O-ring (OT-M10x1 / like EURO central adapter)
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190417e	Power/water plug fits Dalex (1 O-ring) (OT-12x1)
46-A	9190418n	Power-/gasplug fits Dalex with waterdeviation to outside, CW-System with 1 O-ring
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190423n	Power/water plug fits Oerlikon with 1 O-ring (OT-M10x1 / like EURO central adapter)
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190420n	Power/water plug fits Lorch SK35 + gas-nipple (OT-10x1 / like EURO central adapter)
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
N.i.	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900557	TIG cable support short with screws (fits water-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyellet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
N.i.	91921701	PUR hose ID8,5-W1,0mm 150mm long fits leading water hoses into cable support
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
52	9190419n	Power/water plug fits Kemppi IT-G1/4" (AG-M10x1 / like EURO central adapter)
52a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
53	9190424n	Power/water plug fits Merkle with 2 O-rings (OT-M10x1 / like EURO central adapter)
53.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
54	9190415n	Powerplug fits Cloos (special-plug) (OT-12x1)
60	12391311	Back cap long 12-1-TW
62	12391301	Back cap short 12-1-TW
66	12389001	PTFE-isolator 12-1-TW 200NGR
70	12396161	Collet body 12-1-TW / 1,6

Welding-torch TIG water-cooled**350A at 100 % duty cycle (DC) - 260A at 100 % duty cycle (AC)**

Art.-No.		
70	12396241	Collet body 12-1-TW / 2,4
70	12396321	Collet body 12-1-TW / 3,2
70	12396401	Collet body 12-1-TW / 4,0
71	12396162	Gas lens large 12-1-TW / 1,6
71	12396242	Gas lens large 12-1-TW / 2,4
71	12396322	Gas lens large 12-1-TW / 3,2
71	12396402	Gas lens large 12-1-TW / 4,0
72	12396164	Jumbo-Gas lens 12-1-TW / 1,6
72	12396244	Jumbo-Gas lens 12-1-TW / 2,4
72	12396324	Jumbo-Gas lens 12-1-TW / 3,2
72	12396404	Jumbo-Gas lens 12-1-TW / 4,0
73	12396163	Mini-Gas lens 12-1-TW / 1,6
73	12396243	Mini-Gas lens 12-1-TW / 2,4
73	12396323	Mini-Gas lens 12-1-TW / 3,2
73	12396403	Mini-Gas lens 12-1-TW / 4,0
Brazen-collets L-64mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens Holch suitable equipment line (E) gas lens mini		
75	12166401	Collet L64mm 12-1-TW / 1,6 (triple dagged)
75	12246401	Collet L64mm 12-1-TW / 2,4 (triple dagged)
75	12326401	Collet L64mm 12-1-TW / 3,2 (triple dagged)
75	12406401	Collet L64mm 12-1-TW / 4,0 (triple dagged)
Brazen-collets L-66mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens Holch suitable equipment line (D) jumbo gas lens suitable equipment line (E) gas lens mini		
76	12166601	Collet L66mm 12-1-TW / 1,6 for Jumbo gas lens
76	12246601	Collet L66mm 12-1-TW / 2,4 for Jumbo gas lens
76	12326601	Collet L66mm 12-1-TW / 3,2 for Jumbo gas lens
76	12406601	Collet L66mm 12-1-TW / 4,0 for Jumbo gas lens
78	12389011	PTFE-Gas-lens insulator for gas lens large 12-1-TW
79	12389021	PTFE-Gas-lens insulator Jumbo 12-1-TW
Ceramic gas nozzles L-44mm suitable equipment line (A) standard collet body suitable equipment line (E) gas lens mini		
80	12393041	Ceramic gas nozzle L44mm 12-1-TW / Gr.4 130.00 (pu=10pieces)
80	12393051	Ceramic gas nozzle L44mm 12-1-TW / Gr.5 131.00 (pu=10pieces)
80	12393061	Ceramic gas nozzle L44mm 12-1-TW / Gr.6 132.00 (pu=10pieces)
80	12393071	Ceramic gas nozzle L44mm 12-1-TW / Gr.7 133.00 (pu=10pieces)
80	12393081	Ceramic gas nozzle L44mm 12-1-TW / Gr.8 134.00 (pu=10pieces)
80	12393091	Ceramic gas nozzle L44mm 12-1-TW / Gr.9 135.00 (pu=10pieces)
80	12393101	Ceramic gas nozzle L44mm 12-1-TW / Gr.10 136.00 (pu=10pieces)
80	12393121	Ceramic gas nozzle L44mm 12-1-TW / Gr.12 137.00 (pu=10pieces)

Welding-torch TIG water-cooled**350A at 100 % duty cycle (DC) - 260A at 100 % duty cycle (AC)****Art.-No.****Ceramic gas nozzles different lengths
suitable equipment line (B) gas lens Holch**

90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)

N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)

**Ceramic gas nozzles jumbo in different lengths
suitable equipment line (D) gas lens jumbo**

95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)

N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)

Top quality tungsten electrodes in 8 different qualities, see appendix A.

Torch AS 18-TW water-cooled



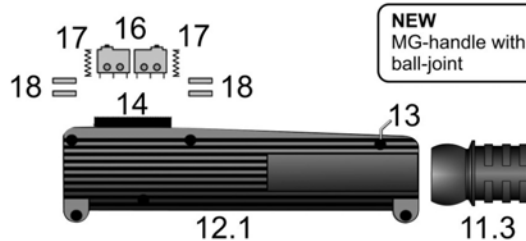
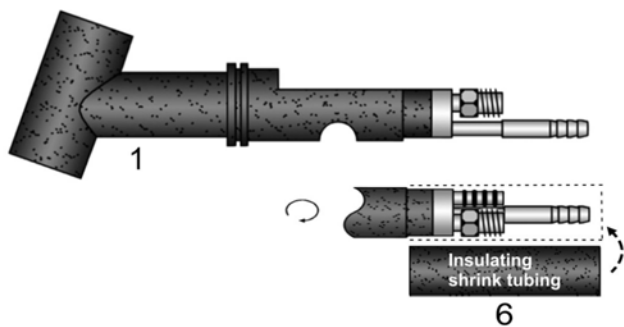
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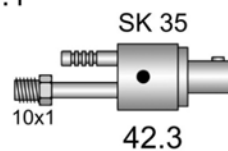
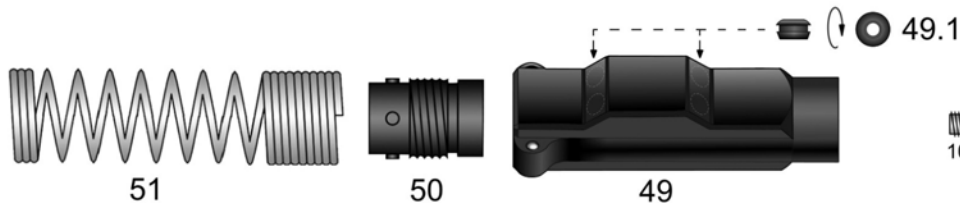
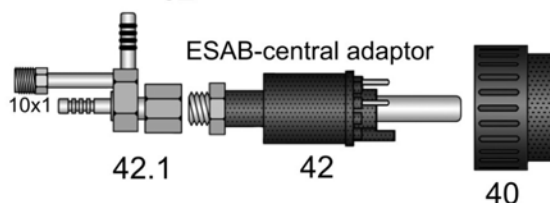
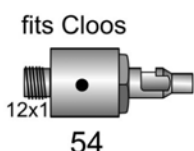
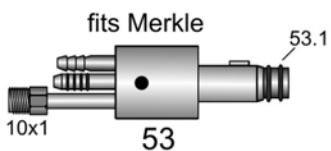
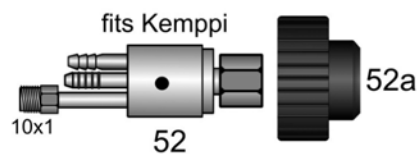
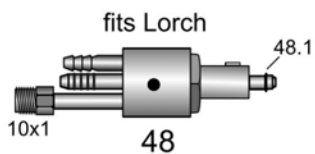
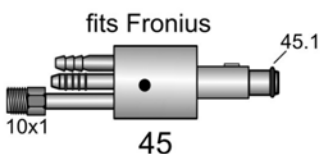
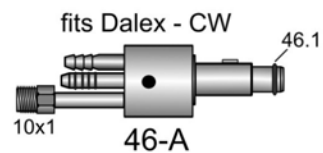
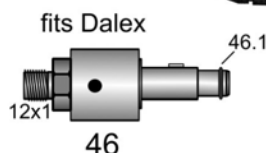
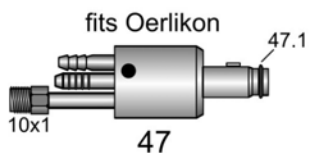
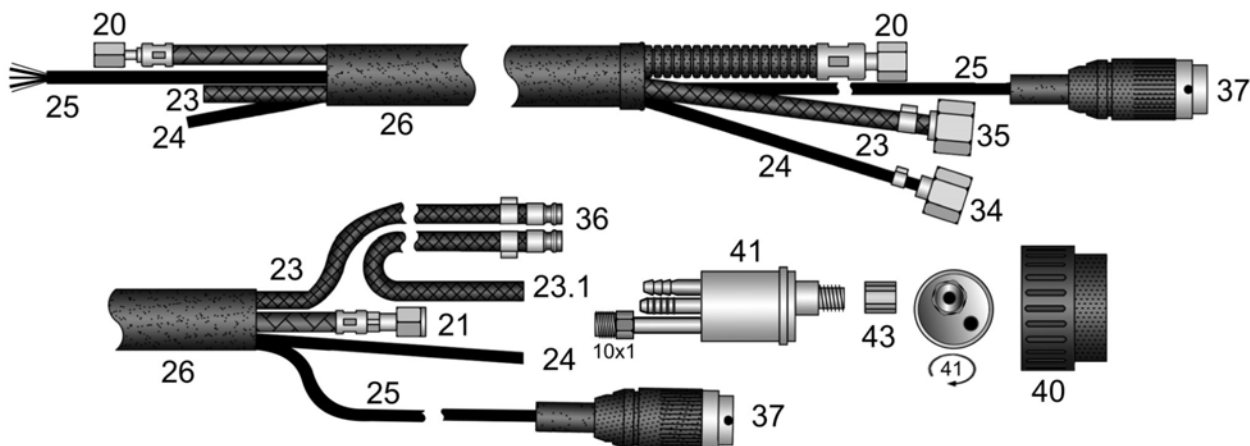
AS 18-TW water-cooled



320 Ampere at 100% duty cycle (DC) - 240 Ampere at 100% duty cycle (AC)



Forma WIG-handle with ball joint - different modular switch units - special switching modules on request



HSN 525-2



Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections with Tuchel plug.

In variation to the torches listed below, the torches can also be produced with other power / water cables (e.g. HT 180 silicone superflexible). This can also be combined with hoses in a lot of different qualities. Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

18600401	Torch AS 18-TW / 4m cable assembly ST 80 PVC-NIT
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18600801	Torch AS 18-TW / 8m cable assembly ST 80 PVC-NIT
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The following torches are equipped with very flexible and heat resistant HT110 rubber fabric hoses.

1860040P	Torch AS 18-TW / 4m cable assembly HT 110
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1860080P	Torch AS 18-TW / 8m cable assembly HT 110
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TIG-spares cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92402	TIG-spares cable assembly water-cooled 4m - please state desired design!
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wig92802	TIG-spares cable assembly water-cooled 8m - please state desired design!
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The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29002102	Surcharge: machine side power/water plug SK35 bayonet connection AD13mm
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29000201	Surcharge: machine side with EURO central adapter
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29002109	Surcharge: machine side power/water plug fits Merkle with 2 O-rings
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29002106	Surcharge: machine side power/water plug fits Fronius with 1 O-ring
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29002101	Surcharge: machine side power/water plug fits Dalex with 1 O-ring
----------	---

29002108	Surcharge: machine side power/water plug fits Oerlikon with 1 O-ring
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29002104	Surcharge: machine side power/water plug fits Lorch SK35 + gas-nipple
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29002105	Surcharge: machine side power/water plug fits Kemppi IT-G1/4"
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29002110	Surcharge: machine side power/water plug fits Cloos
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29000212	Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6
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Please note that there might be additional charges for special control line plugs. See appendix

1	18691001	Torch body AS 18-TW
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6	18050002	Ignition insulating hose L75mm / ID32mm down to ID16mm
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11.1	91914601	Forma TIG handle with screws, ball joint, without modular switch unit
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11.2	91914602	Forma screw for handle
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11.3	91914603	Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)
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11.4	91914611	Forma modular switch unit: 1 button with connecting adapter
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11.5	91914621	Forma modular switch unit: 2 buttons with connecting adapter
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11.6	91914631	Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter
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11.7	91914641	Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter
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11.8	91914651	Forma connecting adapter fits control line to modular switch unit
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N.i.	91914661	Forma switch module safety nipple
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N.i.	91914671	TW-steadying adapter, anti turn locking for TW-torch bodies
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12.1	91914061	MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins
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13	91914421	MG-tapping screw
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Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
14	91915002	MG-push button
16	91914121	MG-microswitch
17	91914221	MG-return spring
18	91914321	MG-cylindrical pin

Please state the machine side connection for the following power / water cables.**For 4m long torches:**

20	12942401	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 4m
20	12942403	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 4m
20	12942405	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 4m
20	12942408	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 4m

For 8m long torches:

20	12942801	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 8m
20	12942803	HT 110 Rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 8m
20	12942805	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 8m
20	12942808	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 8m

The following power / water cables are produced with M10x1 inner thread at the machine side for EURO central adapters. (fits to all Holch connection systems with outer thread M10x1).**For 4m long torches:**

21	12942411	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 4m
21	12942413	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 4m
21	12942415	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 4m
21	12942418	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 4m

For 8m long torches:

21	12942811	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 8m
21	12942813	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 8m
21	12942815	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 8m
21	12942818	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 8m

Reel goods:**Prices are per meter and only applicable for purchasing of complete rolls**

23	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
23	51700002	Meter HT 110 rubber fabric hose ID5,0-W1,7mm blue for water (150m)
23.1	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
23.1	51700003	Meter HT 110 rubber fabric hose ID5,0-W1,7mm red for water (150m)
24	31000001	Meter ST 70 PVC hose ID3,0-W1,0mm black for gas (100m)
24	51700001	Meter HT 110 rubber fabric hose ID5,0-W1,7mm black for gas (150m)
24	31200002	Meter HT 130 TPE hose ID3-W1,2mm yellow for gas (100m)

N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)

N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves

34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"

Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
35	91901601	Coupling nut IT-G3/8"
N.i.	91901301	Hose connector 5mm fits Coupling nut R3/8"
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	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900211	TIG central adapter EURO central adapter water cooled
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918571	TIG power/cooling liquid junction fits ESAB central adapter
42.3	91918312	TIG central adapter SK-35 bayonet connection AD13mm
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
45	91918327	Power/water plug fits Fronius with 1 O-ring (OT-M10x1 / like EURO central adapter)
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190417e	Power/water plug fits Dalex (1 O-ring) (OT-12x1)
46-A	9190418n	Power-/gasplug fits Dalex with waterdeviation to outside, CW-System with 1 O-ring
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190423n	Power/water plug fits Oerlikon with 1 O-ring (OT-M10x1 / like EURO central adapter)
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190420n	Power/water plug fits Lorch SK35 + gas-nipple (OT-10x1 / like EURO central adapter)
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
o.A	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900557	TIG cable support short with screws (fits water-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
N.i.	91921701	PUR hose ID8,5-W1,0mm 150mm long fits leading water hoses into cable support
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
52	9190419n	Power/water plug fits Kemppi IT-G1/4" (AG-M10x1 / like EURO central adapter)
52a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
53	9190424n	Power/water plug fits Merkle with 2 O-rings (OT-M10x1 / like EURO central adapter)
53.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
54	9190415n	Powerplug fits Cloos (special-plug) (OT-12x1)
60	17091311	Holch back cap long (german version with black O-ring) AS17-AS18-ABL220 57Y02-D
61	17091321	Holch back cap medium (german version with black O-ring) AS17-AS18-ABL220 57Y03-D
62	17091301	Holch back cap short (german version with black O-ring) AS17-AS18-ABL220 57Y04-D
63	17089011	O-ring black ID9-W2,5mm for back cap
70	17961002	Collet body 17-18-26-220 / 1,0 10N30
70	17961602	Collet body 17-18-26-220 / 1,6 10N31

Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
70	17962402	Collet body 17-18-26-220 / 2,4 10N32
70	18963202	Collet body 17-18-26-220 / 3,2 10N28
70	18964002	Collet body 17-18-26-220 / 4,0 406488
71	17961011	Gas lens 17-18-26-220 / 1,0 45V24
71	17961611	Gas lens 17-18-26-220 / 1,6 45V25
71	17962411	Gas lens 17-18-26-220 / 2,4 45V26
71	18963211	Gas lens 17-18-26-220 / 3,2 45V27
71	18964011	Gas lens 17-18-26-220 / 4,0 45V28
72	17961021	Jumbo-Gas lens 17-18-26-220 / 1,0 45V0204
72	17961621	Jumbo-Gas lens 17-18-26-220 / 1,6 45V116
72	17962421	Jumbo-Gas lens 17-18-26-220 / 2,4 45V64
72	18963221	Jumbo-Gas lens 17-18-26-220 / 3,2 995795
72	18964021	Jumbo-Gas lens 17-18-26-220 / 4,0 45V63
Brazen collets L-52mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
75	17105202	Collet L52mm AS17-AS18-ABL220 / 1,0 10N22-D
75	17165202	Collet L52mm AS17-AS18-ABL220 / 1,6 10N23-D
75	17245202	Collet L52mm AS17-AS18-ABL220 / 2,4 10N24-D
75	18325202	Collet L52mm AS17-AS18-ABL220 / 3,2 10N25-D
75	18405202	Collet L52mm AS17-AS18-ABL220 / 4,0 10N20-D
78	17089021	PTFE-Gas-lens insulator 17-18-26-220 54N01
79	17089031	PTFE-Gas-lens insulator Jumbo 17-18-26-220 54N63
Ceramic gas nozzles in different lengths suitable equipment line (A) standard collet body		
80	17930401	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.4 10N50 (pu=10pieces)
80	17930501	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.5 10N49 (pu=10pieces)
80	17930601	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.6 10N48 (pu=10pieces)
80	17930701	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.7 10N47 (pu=10pieces)
80	17930801	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.8 10N46 (pu=10pieces)
80	17930101	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.10 10N45 (pu=10pieces)
80	17930121	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.12 10N44 (pu=10pieces)
N.i.	17930404	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.4 10N50L (pu=10pieces)
N.i.	17930504	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.5 10N49L (pu=10pieces)
N.i.	17930604	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.6 10N48L (pu=10pieces)
N.i.	17930704	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.7 10N47L (pu=10pieces)
Ceramic gas nozzles in different lengths suitable equipment line (B) gas lens		
90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)

Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)
Ceramic gas nozzles jumbo in different lengths suitable equipment line (D) gas lens jumbo		
95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)
N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)
Top quality tungsten electrodes in 8 different qualities, see appendix A.		

Torch SR 18-TW water-cooled



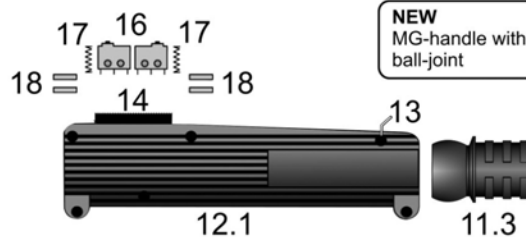
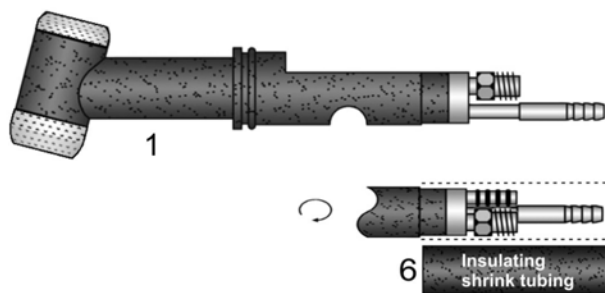
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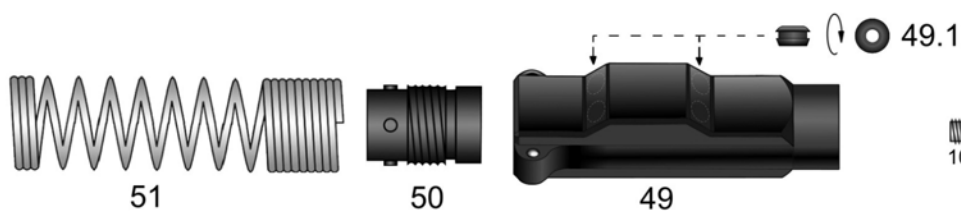
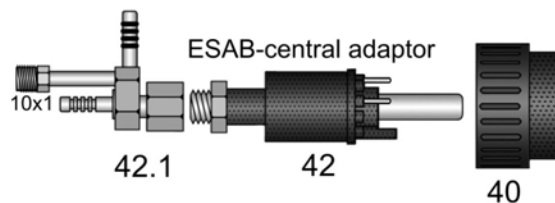
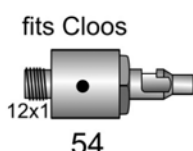
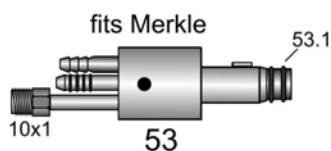
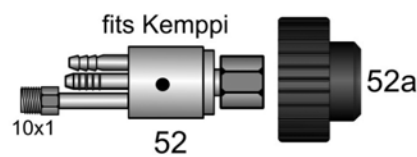
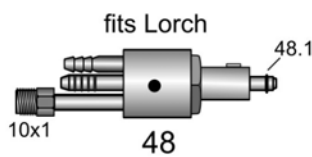
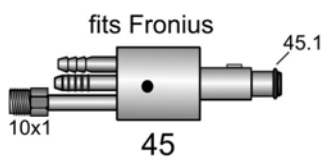
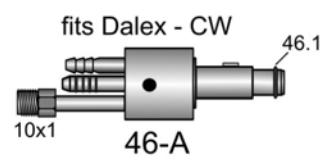
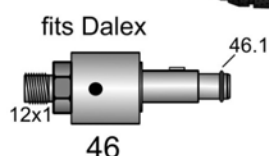
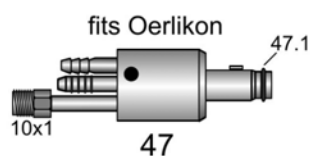
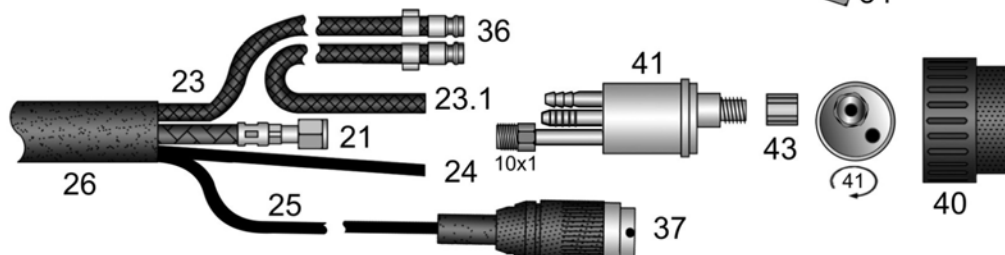
SR 18-TW water-cooled



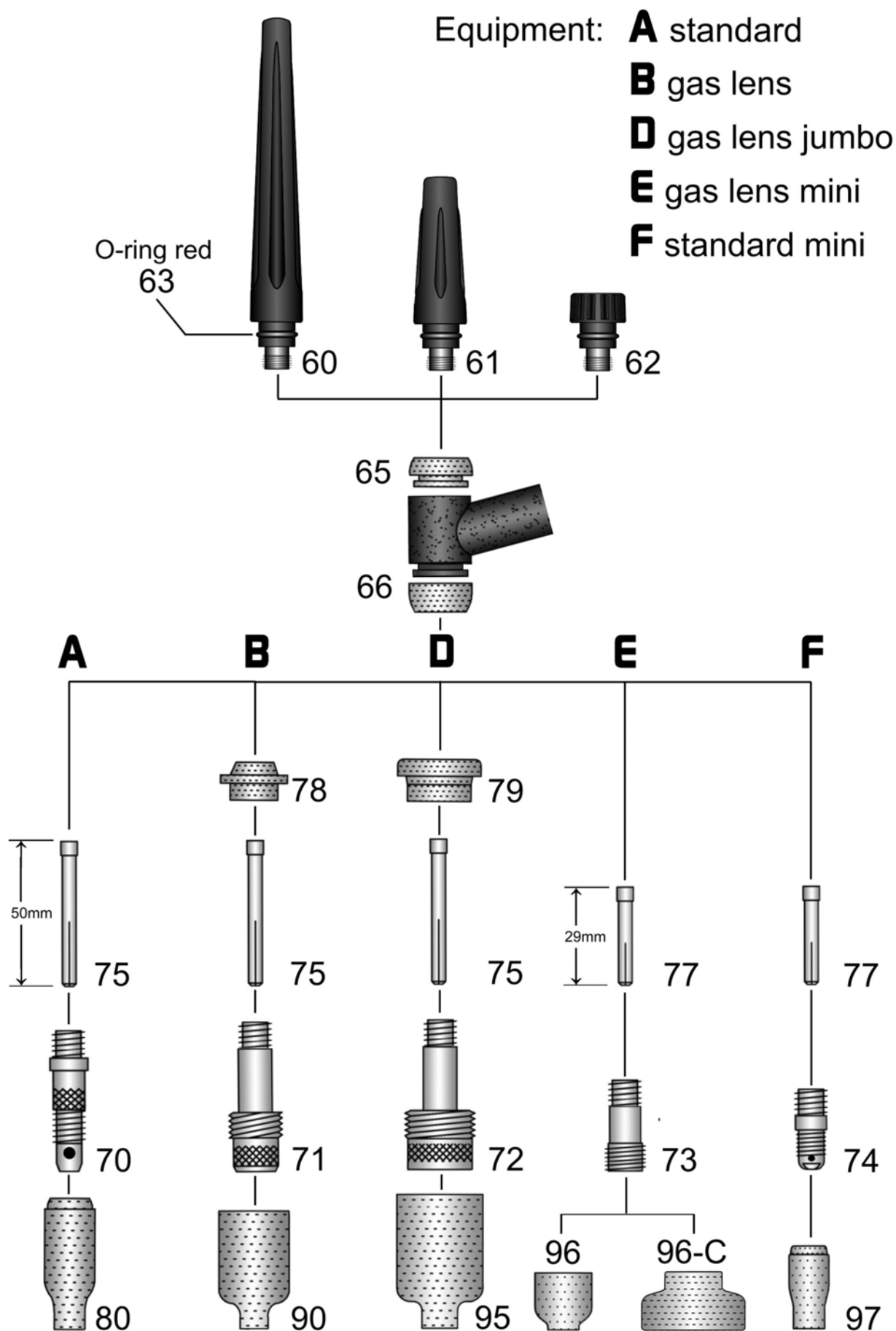
320 Ampere at 100% duty cycle (DC) - 240 Ampere at 100% duty cycle (AC)



Forma WIG-handle with ball joint - different modular switch units - special switching modules on request



HSN 530-2



Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections with Tuchel plug.

In variation to the torches listed below, the torches can also be produced with other power / water cables (e.g. HT 180 silicone superflexible). This can also be combined with hoses in a lot of different qualities. Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

18700401 Torch SR 18-TW / 4m cable assembly ST 80 PVC-NIT

18700801 Torch SR 18-TW / 8m cable assembly ST 80 PVC-NIT

The following torches are equipped with very flexible and heat resistant HT110 rubber fabric hoses.

1870040P Torch SR 18-TW-PLUS / 4m cable assembly HT 110

1870080P Torch SR 18-TW-PLUS / 8m cable assembly HT 110

TIG-spare cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92402 TIG-spare cable assembly water-cooled 4m - please state desired design!

wig92802 TIG-spare cable assembly water-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29002102 Surcharge: machine side power/water plug SK35 bayonet connection AD13mm

29000201 Surcharge: machine side with EURO central adapter

29002109 Surcharge: machine side power/water plug fits Merkle with 2 O-rings

29002106 Surcharge: machine side power/water plug fits Fronius with 1 O-ring

29002101 Surcharge: machine side power/water plug fits Dalex with 1 O-ring

29002108 Surcharge: machine side power/water plug fits Oerlikon with 1 O-ring

29002104 Surcharge: machine side power/water plug fits Lorch SK35 + gas-nipple

29002105 Surcharge: machine side power/water plug fits Kemppi IT-G1/4"

29002110 Surcharge: machine side power/water plug fits Cloos

29000212 Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

Please note that there might be additional charges for special control line plugs. See appendix

1 18791001 Torch body SR 18-TW

6 18050002 Ignition insulating hose L75mm / ID32mm down to ID16mm

11.1 91914601 Forma TIG handle with screws, ball joint, without modular switch unit

11.2 91914602 Forma screw for handle

11.3 91914603 Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)

11.4 91914611 Forma modular switch unit: 1 button with connecting adapter

11.5 91914621 Forma modular switch unit: 2 buttons with connecting adapter

11.6 91914631 Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter

11.7 91914641 Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter

11.8 91914651 Forma connecting adapter fits control line to modular switch unit

N.i. 91914661 Forma switch module safety nipple

N.i. 91914671 TW-steadying adapter, anti turn locking for TW-torch bodies

12.1 91914061 MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins

13 91914421 MG-tapping screw

Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
14	91915002	MG-push button
16	91914121	MG-microswitch
17	91914221	MG-return spring
18	91914321	MG-cylindrical pin

Please state the machine side connection for the following power / water cables.**For 4m long torches:**

20	12942401	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 4m
20	12942403	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 4m
20	12942405	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 4m
20	12942408	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 4m

For 8m long torches:

20	12942801	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 8m
20	12942803	HT 110 Rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 8m
20	12942805	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 8m
20	12942808	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 8m

The following power / water cables are produced with M10x1 inner thread at the machine side for EURO central adapters. (fits to all Holch connection systems with outer thread M10x1).**For 4m long torches:**

21	12942411	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 4m
21	12942413	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 4m
21	12942415	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 4m
21	12942418	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 4m

For 8m long torches:

21	12942811	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 8m
21	12942813	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 8m
21	12942815	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 8m
21	12942818	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 8m

Reel goods:**Prices are per meter and only applicable for purchasing of complete rolls**

23	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
23	51700002	Meter HT 110 rubber fabric hose ID5,0-W1,7mm blue for water (150m)
23.1	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
23.1	51700003	Meter HT 110 rubber fabric hose ID5,0-W1,7mm red for water (150m)
24	31000001	Meter ST 70 PVC hose ID3,0-W1,0mm black for gas (100m)
24	51700001	Meter HT 110 rubber fabric hose ID5,0-W1,7mm black for gas (150m)
24	31200002	Meter HT 130 TPE hose ID3-W1,2mm yellow for gas (100m)

N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)

N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves

34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"

Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
35	91901601	Coupling nut IT-G3/8"
N.i.	91901301	Hose connector 5mm fits Coupling nut R3/8"
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	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900211	TIG central adapter EURO central adapter water cooled
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918571	TIG power/cooling liquid junction fits ESAB central adapter
42.3	91918312	TIG central adapter SK-35 bayonet connection AD13mm
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
45	91918327	Power/water plug fits Fronius with 1 O-ring (OT-M10x1 / like EURO central adapter)
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190417e	Power/water plug fits Dalex (1 O-ring) (OT-12x1)
46-A	9190418n	Power-/gasplug fits Dalex with waterdeviation to outside, CW-System with 1 O-ring
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190423n	Power/water plug fits Oerlikon with 1 O-ring (OT-M10x1 / like EURO central adapter)
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190420n	Power/water plug fits Lorch SK35 + gas-nipple (OT-10x1 / like EURO central adapter)
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
o.A	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900557	TIG cable support short with screws (fits water-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
N.i.	91921701	PUR hose ID8,5-W1,0mm 150mm long fits leading water hoses into cable support
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
52	9190419n	Power/water plug fits Kemppi IT-G1/4" (AG-M10x1 / like EURO central adapter)
52a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
53	9190424n	Power/water plug fits Merkle with 2 O-rings (OT-M10x1 / like EURO central adapter)
53.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
54	9190415n	Powerplug fits Cloos (special-plug) (OT-12x1)
60	17191311	Holch back cap long (USA version with red O-ring) SR 17-18-26 57Y02
61	17191321	Holch back cap medium (USA version with red O-ring) SR 17-18-26 57Y03
62	17191301	Holch back cap short (USA version with red O-ring) SR 17-18-26 57Y04
63	17189001	O-ring red ID8-W2mm for back cap
65	17289001	PTFE-back-cap gasket ring SR 17-18-26 18-7
66	17289021	PTFE-isolator SR 17-18-26 18CG

Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
70	17961002	Collet body 17-18-26-220 / 1,0 10N30
70	17961602	Collet body 17-18-26-220 / 1,6 10N31
70	17962402	Collet body 17-18-26-220 / 2,4 10N32
70	18963202	Collet body 17-18-26-220 / 3,2 10N28
70	18964002	Collet body 17-18-26-220 / 4,0 406488
71	17961011	Gas lens 17-18-26-220 / 1,0 45V24
71	17961611	Gas lens 17-18-26-220 / 1,6 45V25
71	17962411	Gas lens 17-18-26-220 / 2,4 45V26
71	18963211	Gas lens 17-18-26-220 / 3,2 45V27
71	18964011	Gas lens 17-18-26-220 / 4,0 45V28
72	17961021	Jumbo-Gas lens 17-18-26-220 / 1,0 45V0204
72	17961621	Jumbo-Gas lens 17-18-26-220 / 1,6 45V116
72	17962421	Jumbo-Gas lens 17-18-26-220 / 2,4 45V64
72	18963221	Jumbo-Gas lens 17-18-26-220 / 3,2 995795
72	18964021	Jumbo-Gas lens 17-18-26-220 / 4,0 45V63
73	17961031	Gas lens "Mini" SR 17-18-26 / 1,0 conversion kit
73	17961631	Gas lens "Mini" SR 17-18-26 / 1,6 conversion kit
73	17962431	Gas lens "Mini" SR 17-18-26 / 2,4 conversion kit
73	18963231	Gas lens "Mini" SR 17-18-26 / 3,2 conversion kit
74	18961003	Collet body "Mini" SR 17-18-26 1,0 conversion kit
74	18961603	Collet body "Mini" SR 17-18-26 1,6 conversion kit
74	18962403	Collet body "Mini" SR 17-18-26 2,4 conversion kit
74	18963203	Collet body "Mini" SR 17-18-26 / 1,0 - 3,2 17CB20 conversion kit
Brazen collets L-50mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
75	17105002	Collet L50mm SR 17-18-26 wp-18SC / 1,0 10N22
75	17165002	Collet L50mm SR 17-18-26 wp-18SC / 1,6 10N23
75	17245002	Collet L50mm SR 17-18-26 wp-18SC / 2,4 10N24
75	18325002	Collet L50mm SR 17-18-26 wp-18SC / 3,2 10N25
75	18405002	Collet L50mm SR 17-18-26 / 4,0 10N20
Copper-collets L-29mm suitable equipment line (F) standard collet body mini		
77	17103002	Collet L29mm SR 17-18-26 "Mini" 1,0 10N22S
77	17163002	Collet L29mm SR 17-18-26 "Mini" 1,6 10N23S
77	17243002	Collet L29mm SR 17-18-26 "Mini" 2,4 10N24S
77	18323002	Collet L29mm SR 17-18-26 "Mini" 3,2 10N25S
78	17089021	PTFE-Gas-lens insulator 17-18-26-220 54N01
79	17089031	PTFE-Gas-lens insulator Jumbo 17-18-26-220 54N63
Ceramic gas nozzles in different lengths suitable equipment line (A) standard collet body		
80	17930401	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.4 10N50 (pu=10pieces)
80	17930501	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.5 10N49 (pu=10pieces)

Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
80	17930601	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.6 10N48 (pu=10pieces)
80	17930701	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.7 10N47 (pu=10pieces)
80	17930801	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.8 10N46 (pu=10pieces)
80	17930101	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.10 10N45 (pu=10pieces)
80	17930121	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.12 10N44 (pu=10pieces)
N.i.	17930404	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.4 10N50L (pu=10pieces)
N.i.	17930504	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.5 10N49L (pu=10pieces)
N.i.	17930604	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.6 10N48L (pu=10pieces)
N.i.	17930704	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.7 10N47L (pu=10pieces)

**Ceramic gas nozzles in different lengths
suitable equipment line (B) gas lens**

90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)

N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)

**Ceramic gas nozzles jumbo in different lengths
suitable equipment line (D) gas lens jumbo**

95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)

N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)

**Ceramic gas nozzles L-20mm
suitable equipment line (E) gas lens mini**

96	17930502	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.5 fits gas lens "Mini" 53N59MS (pu=10pieces)
96	17930602	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.6 fits gas lens "Mini" 53N60MS (pu=10pieces)
96	17930702	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.7 fits gas lens "Mini" 53N61MS (pu=10pieces)

96-C	17930006	Ceramic nozzle for gas lens Kir Royal 17-18-26 / fits tungsten electrodes up to 3,2mm
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**Ceramic gas nozzles
suitable equipment line (F) collet body standard mini**

97	20930401	Ceramic gas nozzle L30mm / Gr. 4 13N08 (pu=10pieces)
97	20930501	Ceramic gas nozzle L30mm / Gr. 5 13N09 (pu=10pieces)
97	20930601	Ceramic gas nozzle L30mm / Gr. 6 13N10 (pu=10pieces)
97	20930701	Ceramic gas nozzle L30mm / Gr. 7 13N11 (pu=10pieces)
97	20930801	Ceramic gas nozzle L30mm / Gr. 8 13N12 (pu=10pieces)

Welding-torch TIG water-cooled**320A at 100 % duty cycle (DC) - 240A at 100 % duty cycle (AC)**

Art.-No.		
97	20930101	Ceramic gas nozzle L30mm / Gr.10 13N13 (pu=10pieces)
o.A	20930304	Ceramic gas nozzle L48mm / Gr. 3 796F70 (pu=10pieces)
o.A	20930404	Ceramic gas nozzle L48mm / Gr. 4 796F71 (pu=10pieces)
o.A	20930504	Ceramic gas nozzle L48mm / Gr. 5 796F72 (pu=10pieces)
o.A	20930604	Ceramic gas nozzle L48mm / Gr. 6 796F73 (pu=10pieces)
o.A	20930306	Ceramic gas nozzle L63mm / Gr. 3 796F74 (pu=10pieces)
o.A	20930406	Ceramic gas nozzle L63mm / Gr. 4 796F75 (pu=10pieces)
o.A	20930506	Ceramic gas nozzle L63mm / Gr. 5 796F76 (pu=10pieces)
o.A	20930606	Ceramic gas nozzle L63mm / Gr. 6 796F77 (pu=10pieces)
o.A	20930408	Ceramic gas nozzle L89mm / Gr. 4 796F79 (pu=10pieces)
Top quality tungsten electrodes in 8 different qualities, see appendix A.		

Torch wp-18SC-TW water-cooled



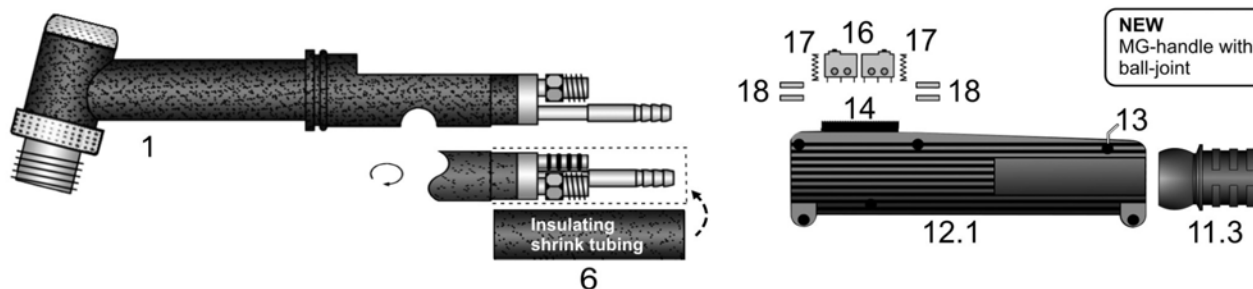
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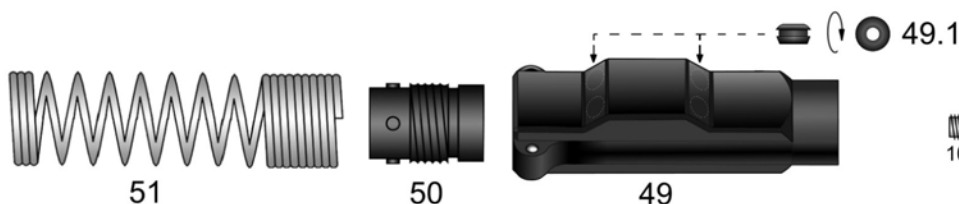
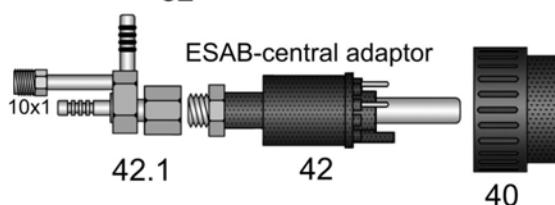
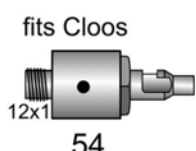
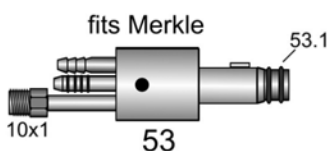
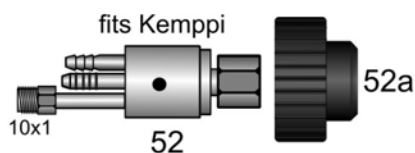
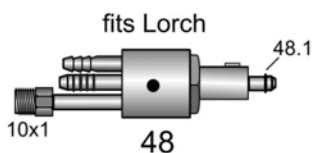
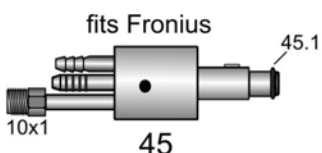
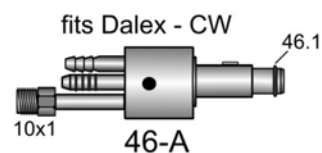
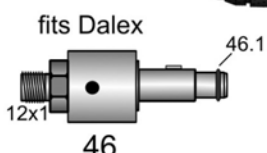
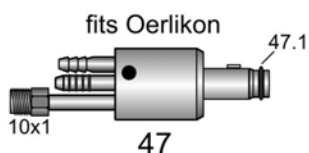
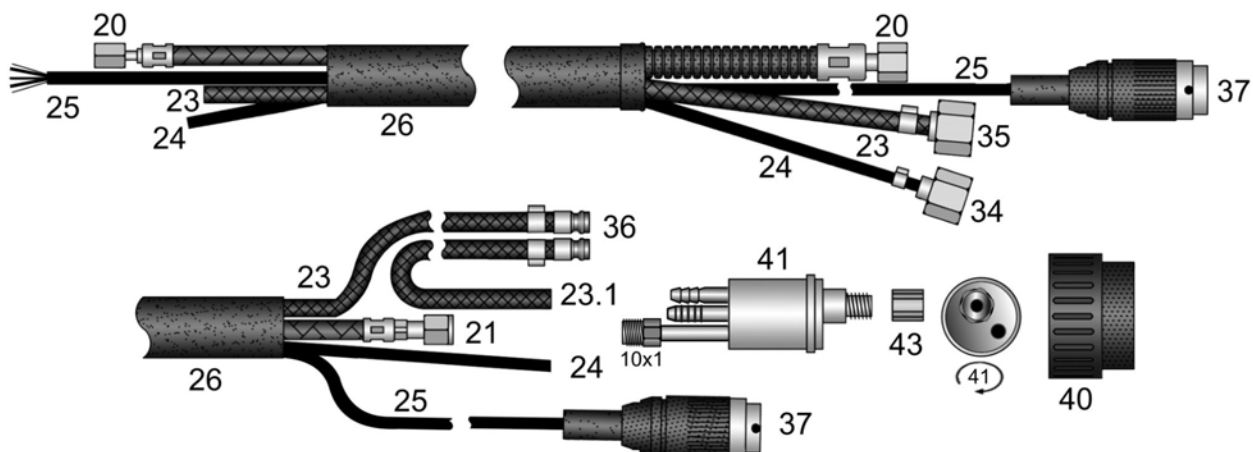
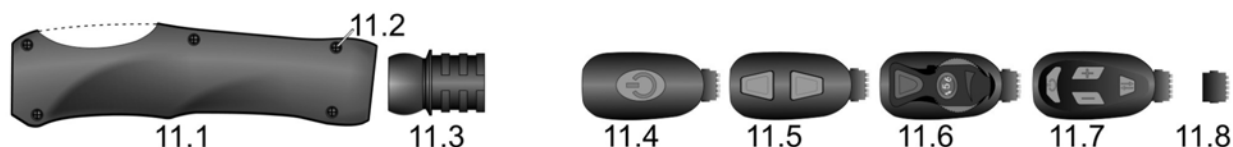
wp-18SC-TW water-cooled



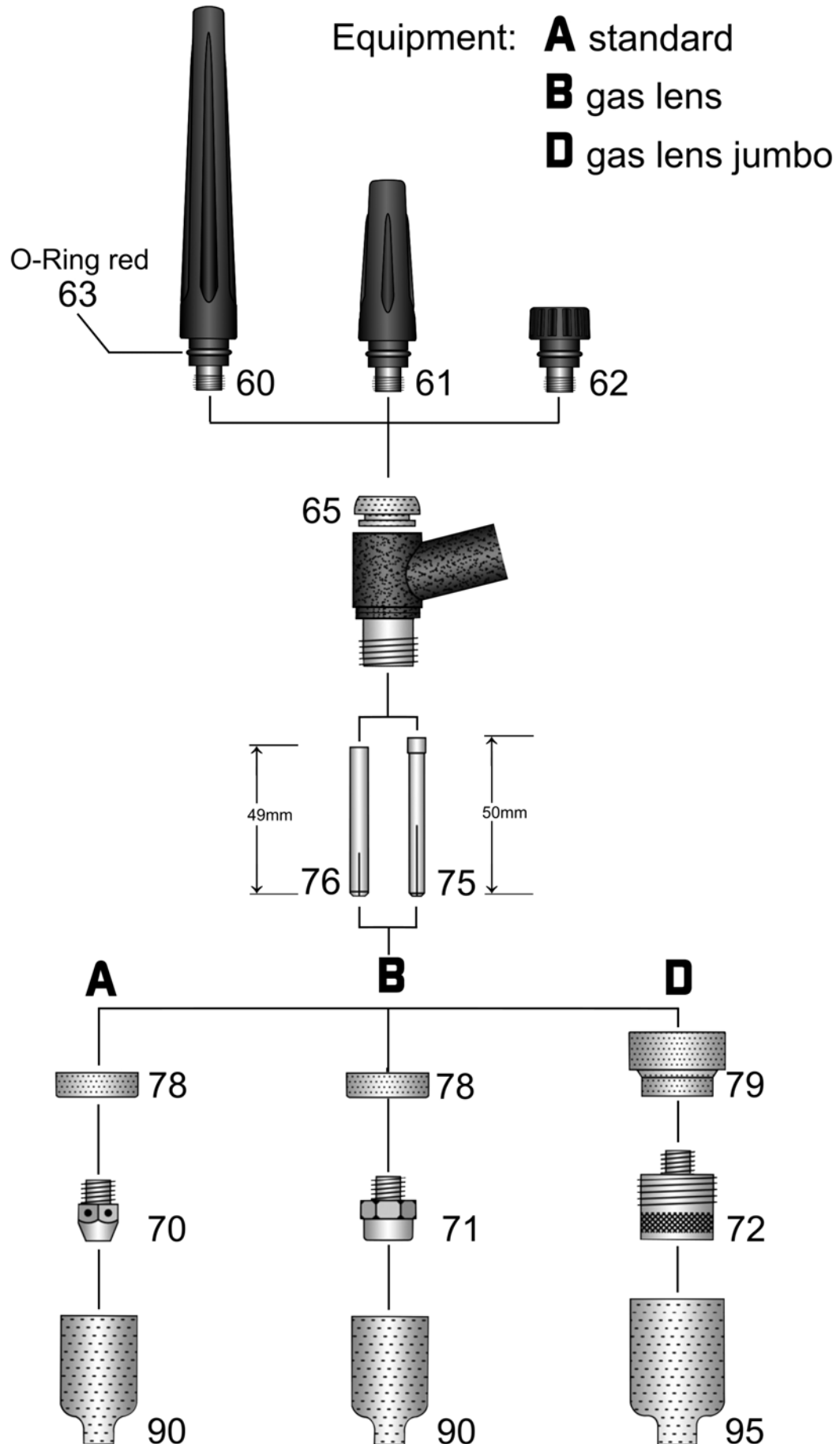
400 Ampere at 100% duty cycle (DC) - 320 Ampere at 100% duty cycle (AC)



Forma WIG-handle with ball joint - different modular switch units - special switching modules on request



HSN 532-2



Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections with Tuchel plug.

In variation to the torches listed below, the torches can also be produced with other power / water cables (e.g. HT 180 silicone superflexible). This can also be combined with hoses in a lot of different qualities. Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

18110401	Torch wp-18SC-TW / 4m cable assembly ST 80 PVC-NIT
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18110801	Torch wp-18SC-TW / 8m cable assembly ST 80 PVC-NIT
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The following torches are equipped with very flexible and heat resistant HT110 rubber fabric hoses.

1811040P	Torch wp-18SC-TW / 4m cable assembly HT 110
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1811080P	Torch wp-18SC-TW / 8m cable assembly HT 110
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TIG-spares cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92402	TIG-spares cable assembly water-cooled 4m - please state desired design!
----------	--

wig92802	TIG-spares cable assembly water-cooled 8m - please state desired design!
----------	--

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29002102	Surcharge: machine side power/water plug SK35 bayonet connection AD13mm
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29000201	Surcharge: machine side with EURO central adapter
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29002109	Surcharge: machine side power/water plug fits Merkle with 2 O-rings
----------	---

29002106	Surcharge: machine side power/water plug fits Fronius with 1 O-ring
----------	---

29002101	Surcharge: machine side power/water plug fits Dalex with 1 O-ring
----------	---

29002108	Surcharge: machine side power/water plug fits Oerlikon with 1 O-ring
----------	--

29002104	Surcharge: machine side power/water plug fits Lorch SK35 + gas-nipple
----------	---

29002105	Surcharge: machine side power/water plug fits Kemppi IT-G1/4"
----------	---

29002110	Surcharge: machine side power/water plug fits Cloos
----------	---

29000212	Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6
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Please note that there might be additional charges for special control line plugs. See appendix

1	18119101	Torch body wp-18SC-TW
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6	18050002	Ignition insulating hose L75mm / ID32mm down to ID16mm
---	----------	--

11.1	91914601	Forma TIG handle with screws, ball joint, without modular switch unit
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11.2	91914602	Forma screw for handle
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11.3	91914603	Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)
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11.4	91914611	Forma modular switch unit: 1 button with connecting adapter
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11.5	91914621	Forma modular switch unit: 2 buttons with connecting adapter
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11.6	91914631	Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter
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11.7	91914641	Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter
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11.8	91914651	Forma connecting adapter fits control line to modular switch unit
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N.i.	91914661	Forma switch module safety nipple
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N.i.	91914671	TW-steadying adapter, anti turn locking for TW-torch bodies
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12.1	91914061	MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins
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13	91914421	MG-tapping screw
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Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.		
14	91915002	MG-push button
16	91914121	MG-microswitch
17	91914221	MG-return spring
18	91914321	MG-cylindrical pin

Please state the machine side connection for the following power / water cables.**For 4m long torches:**

20	18943401	ST 80 PVC-NIT power/water cable 17,31mm ² wp-18SC-TW / 4m
20	18943404	
20	18943403	HT 110 rubber fabric hose power/water cable 17,31mm ² wp-18SC-TW / 4m
20	18943405	HT 130 TPE power/water cable 17,31mm ² wp-18SC-TW / 4m
20	18943408	HT 180 silicone super flexible power/water cable 17,31mm ² wp-18SC-TW / 4m

For 8m long torches:

20	18943801	ST 80 PVC-NIT power/water cable 17,31mm ² wp-18SC-TW / 8m
20	18943804	
20	18943803	HT 110 rubber fabric hose power/water cable 17,31mm ² wp-18SC-TW / 8m
20	18943805	HT 130 TPE power/water cable 17,31mm ² wp-18SC-TW / 8m
20	18943808	HT 180 silicone super flexible power/water cable 17,31mm ² wp-18SC-TW / 8m

The following power / water cables are produced with M10x1 inner thread at the machine side for EURO central adapters. (fits to all Holch connection systems with outer thread M10x1).**For 4m long torches:**

21	18943411	ST 80 PVC-NIT power/water cable 17,31mm ² wp-18SC-TW / 4m
21	18943414	
21	18943413	HT 110 rubber fabric hose power/water cable 17,31mm ² wp-18SC-TW / 4m
21	18943415	HT 130 TPE power/water cable 17,31mm ² wp-18SC-TW / 4m
21	18943418	HT 180 silicone super flexible power/water cable 17,31mm ² wp-18SC-TW / 4m

For 8m long torches:

21	18943811	ST 80 PVC-NIT power/water cable 17,31mm ² wp-18SC-TW / 8m
21	18943814	
21	18943813	HT 110 rubber fabric hose power/water cable 17,31mm ² wp-18SC-TW / 8m
21	18943815	HT 130 TPE power/water cable 17,31mm ² wp-18SC-TW / 8m
21	18943818	HT 180 silicone super flexible power/water cable 17,31mm ² wp-18SC-TW / 8m

Reel goods:**Prices are per meter and only applicable for purchasing of complete rolls**

23	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
23	51700002	Meter HT 110 rubber fabric hose ID5,0-W1,7mm blue for water (150m)
23.1	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
23.1	51700003	Meter HT 110 rubber fabric hose ID5,0-W1,7mm red for water (150m)
24	31000001	Meter ST 70 PVC hose ID3,0-W1,0mm black for gas (100m)
24	51700001	Meter HT 110 rubber fabric hose ID5,0-W1,7mm black for gas (150m)
24	31200002	Meter HT 130 TPE hose ID3-W1,2mm yellow for gas (100m)

N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)
N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves
34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
35	91901601	Coupling nut IT-G3/8"
N.i.	91901301	Hose connector 5mm fits Coupling nut R3/8"
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	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900211	TIG central adapter EURO central adapter water cooled
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918571	TIG power/cooling liquid junction fits ESAB central adapter
42.3	91918312	TIG central adapter SK-35 bayonet connection AD13mm
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
45	91918327	Power/water plug fits Fronius with 1 O-ring (OT-M10x1 / like EURO central adapter)
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190417e	Power/water plug fits Dalex (1 O-ring) (OT-12x1)
46-A	9190418n	Power-/gasplug fits Dalex with waterdeviation to outside, CW-System with 1 O-ring
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190423n	Power/water plug fits Oerlikon with 1 O-ring (OT-M10x1 / like EURO central adapter)
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190420n	Power/water plug fits Lorch SK35 + gas-nipple (OT-10x1 / like EURO central adapter)
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
o.A	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900557	TIG cable support short with screws (fits water-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
N.i.	91921701	PUR hose ID8,5-W1,0mm 150mm long fits leading water hoses into cable support
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
52	9190419n	Power/water plug fits Kemppi IT-G1/4" (AG-M10x1 / like EURO central adapter)
52a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
53	9190424n	Power/water plug fits Merkle with 2 O-rings (OT-M10x1 / like EURO central adapter)
53.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
54	9190415n	Powerplug fits Cloos (special-plug) (OT-12x1)
60	17191311	Holch back cap long (USA version with red O-ring) SR 17-18-26 57Y02
61	17191321	Holch back cap medium (USA version with red O-ring) SR 17-18-26 57Y03

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.		
62	17191301	Holch back cap short (USA version with red O-ring) SR 17-18-26 57Y04
63	17189001	O-ring red ID8-W2mm for back cap
65	17289001	PTFE-back-cap gasket ring SR 17-18-26 18-7
70	18496001	Collet body for collets L49mm and L50mm up to 3,2 NCB-53
70	18496011	Collet body for collets L49mm from 1,6 up to 4,8 NCB-36
71	18496161	Gas lens wp-18SC / 1,6 18GL16
71	18496241	Gas lens wp-18SC / 2,4 18GL32
71	18496321	Gas lens wp-18SC / 3,2 18GL18
71	18496401	Gas lens wp-18SC / 4,0 18GL53
71	18496481	Gas lens wp-18SC / 4,8 18GL36
72	18496162	Jumbo-Gas lens wp-18SC / 1,6 45V95
72	18496242	Jumbo-Gas lens wp-18SC / 2,4 45V96
72	18496322	Jumbo-Gas lens wp-18SC / 3,2 45V97
72	18496402	Jumbo-Gas lens wp-18SC / 4,0 45V98
72	18496482	Jumbo-Gas lens wp-18SC / 4,8 45V99
Brazen collets L-50mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
75	17105002	Collet L50mm SR 17-18-26 wp-18SC / 1,0 10N22
75	17165002	Collet L50mm SR 17-18-26 wp-18SC / 1,6 10N23
75	17245002	Collet L50mm SR 17-18-26 wp-18SC / 2,4 10N24
75	18325002	Collet L50mm SR 17-18-26 wp-18SC / 3,2 10N25
HL-Brazen collets L-49mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
76	18164901	HD-collet L49mm wp-18SC / 1,6
76	18244901	HD-collet L49mm wp-18SC / 2,4
76	18324901	HD-collet L49mm wp-18SC / 3,2 10N25HD
76	18404901	HD-collet L49mm wp-18SC / 4,0 10N20HD
76	18484901	HD-collet L49mm wp-18SC / 4,8 18C36
78	18489001	PTFE-Ceramic gas nozzle insulation wp-18SC 18NG
79	18489011	PTFE-Gas-lens insulator Jumbo wp-18SC 18NG-GL
Ceramic gas nozzles different lengths suitable equipment line (A) standard collet body suitable equipment line (B) gas lens		
90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)
N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)

Ceramic gas nozzles jumbo in different lengths
suitable equipment line (D) gas lens jumbo

95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)
N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)

Top quality tungsten electrodes in 8 different qualities, see appendix A.

Torch 20-TW water-cooled



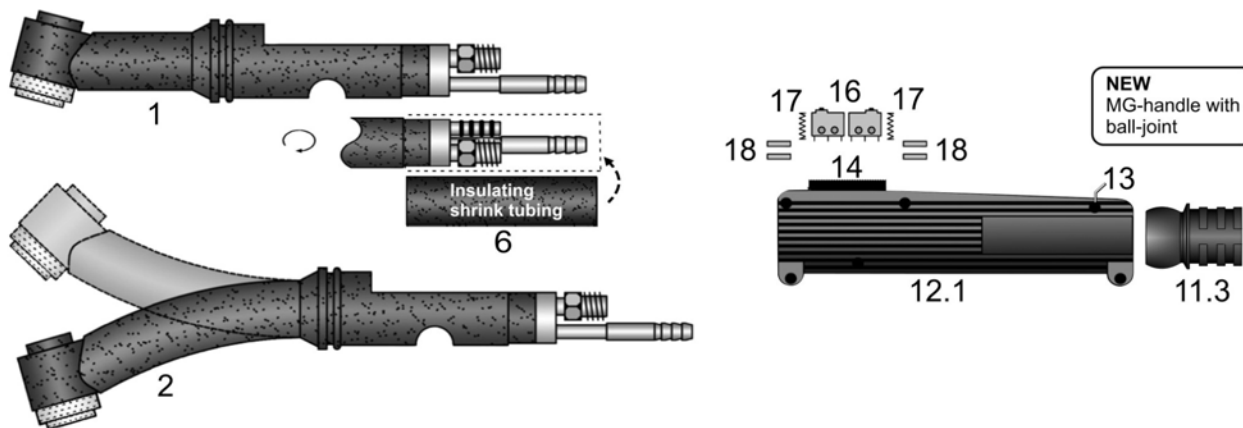
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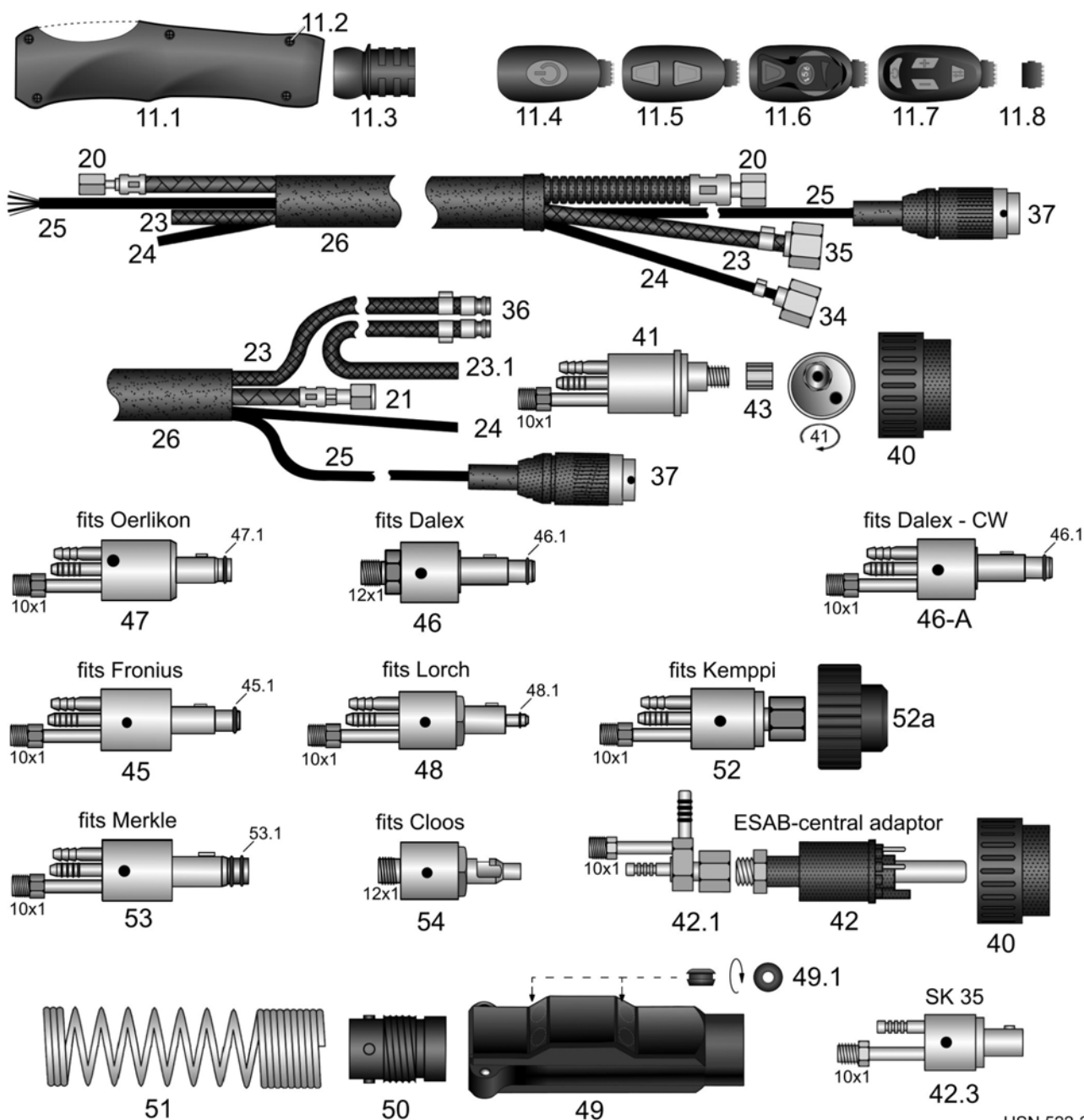
20-TW water-cooled



220 Ampere at 100% duty cycle (DC) - 200 Ampere at 100% duty cycle (AC)



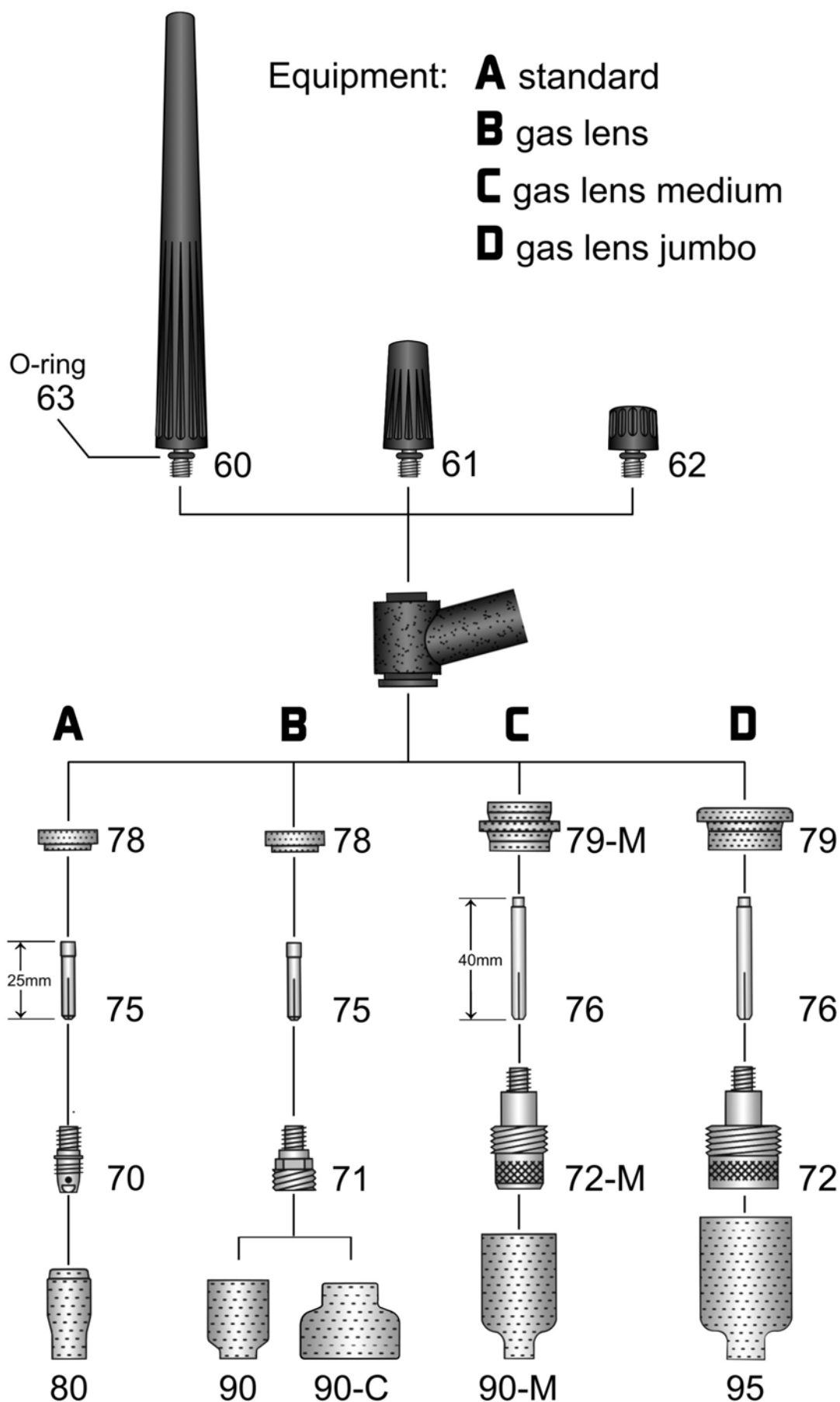
Forma WIG-handle with ball joint - different modular switch units - special switching modules on request



HSN 522-2



20 - TW water-cooled spare parts



HSN 104-1

Welding-torch TIG water-cooled**220A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)****Art.-No.**

Torches with first meter leather hose. Prices without leather on request. Machine side separate connections with Tuchel plug.

In variation to the torches listed below, the torches can also be produced with other power / water cables (e.g. HT 180 silicone superflexible). This can also be combined with hoses in a lot of different qualities. Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

20700401	Torch 20-TW / 4m 6mm ² cable assembly ST 80 PVC-NIT
20700801	Torch 20-TW / 8m 6mm ² cable assembly ST 80 PVC-NIT
20710401	Torch 20-TW-SUPER / 4m 10mm ² cable assembly ST 80 PVC-NIT
20710801	Torch 20-TW-SUPER / 8m 10mm ² cable assembly ST 80 PVC-NIT

20800401	FLEX-torch 20F-TW / 4m 6mm ² neck flexible cable assembly ST 80 PVC-NIT
20800801	FLEX-torch 20F-TW / 8m 6mm ² neck flexible cable assembly ST 80 PVC-NIT
20810401	FLEX-torch 20F-TW-SUPER / 4m 10mm ² neck flexible cable assembly ST 80 PVC-NIT
20810801	FLEX-torch 20F-TW-SUPER / 8m 10mm ² neck flexible cable assembly ST 80 PVC-NIT

The following torches are equipped with very flexible and heat resistant HT110 rubber fabric hoses.

2070040P	Torch 20-TW-PLUS / 4m 6mm ² cable assembly HT 110
2070080P	Torch 20-TW-PLUS / 8m 6mm ² cable assembly HT 110
2071040P	Torch 20-TW-SUPER-PLUS / 4m 10mm ² cable assembly HT 110
2071080P	Torch 20-TW-SUPER-PLUS / 8m 10mm ² cable assembly HT 110
2080040P	FLEX-torch 20F-TW-PLUS / 4m 6mm ² neck flexible cable assembly HT 110
2080080P	FLEX-torch 20F-TW-PLUS / 8m 6mm ² neck flexible cable assembly HT 110
2081040P	FLEX-torch 20F-TW-SUPER-PLUS / 4m 10mm ² neck flexible cable assembly HT 110
2081080P	FLEX-torch 20F-TW-SUPER-PLUS / 8m 10mm ² neck flexible cable assembly HT 110

TIG-spares cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92402	TIG-spares cable assembly water-cooled 4m - please state desired design!
wig92802	TIG-spares cable assembly water-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29002102	Surcharge: machine side power/water plug SK35 bayonet connection AD13mm
29000201	Surcharge: machine side with EURO central adapter
29002109	Surcharge: machine side power/water plug fits Merkle with 2 O-rings
29002106	Surcharge: machine side power/water plug fits Fronius with 1 O-ring
29002101	Surcharge: machine side power/water plug fits Dalex with 1 O-ring
29002108	Surcharge: machine side power/water plug fits Oerlikon with 1 O-ring
29002104	Surcharge: machine side power/water plug fits Lorch SK35 + gas-nipple
29002105	Surcharge: machine side power/water plug fits Kemppi IT-G1/4"
29002110	Surcharge: machine side power/water plug fits Cloos
29000212	Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

Please note that there might be additional charges for special control line plugs. See appendix

1	20791001	Torch body 20-TW
2	20891001	Torch body 20F-TW neck flexible (FLEX)

Welding-torch TIG water-cooled**220A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
6	18050002	Ignition insulating hose L75mm / ID32mm down to ID16mm
11.1	91914601	Forma TIG handle with screws, ball joint, without modular switch unit
11.2	91914602	Forma screw for handle
11.3	91914603	Forma hose bracket with ball joint ID21,5mm (also fits MG-handle)
11.4	91914611	Forma modular switch unit: 1 button with connecting adapter
11.5	91914621	Forma modular switch unit: 2 buttons with connecting adapter
11.6	91914631	Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter
11.7	91914641	Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter
11.8	91914651	Forma connecting adapter fits control line to modular switch unit
N.i.	91914661	Forma switch module safety nipple
N.i.	91914671	TW-steadying adapter, anti turn locking for TW-torch bodies
12.1	91914061	MG-handle with ball joint, push-button, 2 return springs, 2 microswitches and 4 cylindrical pins
13	91914421	MG-tapping screw
14	91915002	MG-push button
16	91914121	MG-microswitch
17	91914221	MG-return spring
18	91914321	MG-cylindrical pin
Please state the machine side connection for the following power / water cables. For 4m long torches:		
20	20942401	ST 80 PVC-NIT power/water cable 6mm ² 20-TW / 4m
20	20942403	HT 110 rubber fabric hose power/water cable 6mm ² 20-TW / 4m
20	20942405	HT 130 TPE power/water cable 6mm ² 20-TW / 4m
20	20942408	HT 180 silicone super flexible power/water cable 6mm ² 20-TW / 4m
20	12942401	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 4m
20	12942403	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 4m
20	12942405	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 4m
20	12942408	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 4m
For 8m long torches:		
20	20942801	ST 80 PVC-NIT power/water cable 6mm ² 20-TW / 8m
20	20942803	HT 110 rubber fabric hose power/water cable 6mm ² 20-TW / 8m
20	20942805	HT 130 TPE power/water cable 6mm ² 20-TW / 8m
20	20942808	HT 180 silicone super flexible power/water cable 6mm ² 20-TW / 8m
20	12942801	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 8m
20	12942803	HT 110 Rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 8m
20	12942805	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 8m
20	12942808	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 8m
The following power / water cables are produced with M10x1 inner thread at the machine side for EURO central adapters. (fits to all Holch connection systems with outer thread M10x1). For 4m long torches:		
21	20942411	ST 80 PVC-NIT power/water cable 6mm ² 20-TW / 4m
21	20942413	HT 110 rubber fabric hose power/water cable 6mm ² 20-TW / 4m
21	20942415	HT 130 TPE power/water cable 6mm ² 20-TW / 4m
21	20942418	HT 180 silicone super flexible power/water cable 6mm ² 20-TW / 4m
21	12942411	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 4m
21	12942413	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 4m

Welding-torch TIG water-cooled**220A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
21	12942415	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 4m
21	12942418	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 4m
For 8m long torches:		
21	20942811	ST 80 PVC-NIT power/water cable 6mm ² 20-TW / 8m
21	20942813	HT 110 rubber fabric hose power/water cable 6mm ² 20-TW / 8m
21	20942815	HT 130 TPE power/water cable 6mm ² 20-TW / 8m
21	20942818	HT 180 silicone super flexible power/water cable 6mm ² 20-TW / 8m
21	12942811	ST 80 PVC-NIT power/water cable 10mm ² 12/18/20-TW / 8m
21	12942813	HT 110 rubber fabric hose power/water cable 10mm ² 12/18/20-TW / 8m
21	12942815	HT 130 TPE power/water cable 10mm ² 12/18/20-TW / 8m
21	12942818	HT 180 silicone super flexible power/water cable 10mm ² 12/18/20-TW / 8m
Reel goods:		
Prices are per meter and only applicable for purchasing of complete rolls		
23	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
23	51700002	Meter HT 110 rubber fabric hose ID5,0-W1,7mm blue for water (150m)
23.1	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
23.1	51700003	Meter HT 110 rubber fabric hose ID5,0-W1,7mm red for water (150m)
24	31000001	Meter ST 70 PVC hose ID3,0-W1,0mm black for gas (100m)
24	51700001	Meter HT 110 rubber fabric hose ID5,0-W1,7mm black for gas (150m)
24	31200002	Meter HT 130 TPE hose ID3-W1,2mm yellow for gas (100m)
N.i.	91902701	Meter control line 3x0,34mm ² shielded black (100m)
N.i.	91902711	Meter control line 3x0,5mm ² green (100m)
25	91902721	Meter control line 5x0,25mm ² grey (100m)
26	20150002	Meter neoprene protective hose ID20mm black (40m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)
N.i.	91915004	Leather protective hose ID22mm / 1 meter long
N.i.	91915007	Leather protective hose ID22mm / 1 meter long with ball joint and hose connector
N.i.	91915013	Hose connector leather protective hose / protection hose ID22,5mm (black) with slot, OD with grooves
34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
35	91901601	Coupling nut IT-G3/8"
N.i.	91901301	Hose connector 5mm fits Coupling nut R3/8"
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	91904101	Plug 3-poles Tuchel with bayonet-catch
37	91904111	Plug 5-poles Tuchel with bayonet-catch
More control line plugs see appendix D		
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900211	TIG central adapter EURO central adapter water cooled
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918571	TIG power/cooling liquid junction fits ESAB central adapter
42.3	91918312	TIG central adapter SK-35 bayonet connection AD13mm
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter

Welding-torch TIG water-cooled**220A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
45	91918327	Power/water plug fits Fronius with 1 O-ring (OT-M10x1 / like EURO central adapter)
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190417e	Power/water plug fits Dalex (1 O-ring) (OT-12x1)
46-A	9190418n	Power-/gasplug fits Dalex with waterdeviation to outside, CW-System with 1 O-ring
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190423n	Power/water plug fits Oerlikon with 1 O-ring (OT-M10x1 / like EURO central adapter)
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190420n	Power/water plug fits Lorch SK35 + gas-nipple (OT-10x1 / like EURO central adapter)
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
o.A	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900557	TIG cable support short with screws (fits water-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyellet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
N.i.	91921701	PUR hose ID8,5-W1,0mm 150mm long fits leading water hoses into cable support
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
52	9190419n	Power/water plug fits Kemppi IT-G1/4" (AG-M10x1 / like EURO central adapter)
52a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
53	9190424n	Power/water plug fits Merkle with 2 O-rings (OT-M10x1 / like EURO central adapter)
53.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
54	9190415n	Powerplug fits Cloos (special-plug) (OT-12x1)
60	20091321	Holch back cap long 9-20 41V24/41V24-D
61	20091311	Holch back cap medium 9-20 41V35/41V35-D
62	20091301	Holch back cap short 9-20 41V33/41V33-D
63	20089001	O-ring ID4,6-W2mm for back cap black
70	20961002	Collet body 9-20 / 1,0 13N26
70	20961602	Collet body 9-20 / 1,6 13N27
70	20962402	Collet body 9-20 / 2,4 13N28
70	20963202	Collet body 9-20 / 3,2 13N29
71	20961011	Gas lens 9-20 / 1,0 45V42
71	20961611	Gas lens 9-20 / 1,6 45V43
71	20962411	Gas lens 9-20 / 2,4 45V44
71	20963211	Gas lens 9-20 / 3,2 45V45
72-M	20961031	Gas lens medium 9-20 / 1,0
72-M	20961631	Gas lens medium 9-20 / 1,6
72-M	20962431	Gas lens medium 9-20 / 2,4
72-M	20963231	Gas lens medium 9-20 / 3,2
72	20961021	Jumbo-Gas lens 9-20 / 1,0 45V0204S
72	20961621	Jumbo-Gas lens 9-20 / 1,6 45V116S
72	20962421	Jumbo-Gas lens 9-20 / 2,4 45V64S
72	20963221	Jumbo-Gas lens 9-20 / 3,2 995795S

Welding-torch TIG water-cooled**220A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)****Art.-No.**
Brazen collets L-25mm
suitable equipment line (A) standard collet body
suitable equipment line (B) gas lens

75	20102502	Collet L25mm 9-20 / 1,0 13N21
75	20162502	Collet L25mm 9-20 / 1,6 13N22
75	20242502	Collet L25mm 9-20 / 2,4 13N23
75	20322502	Collet L25mm 9-20 / 3,2 13N24

Brazen collets L-40mm
suitable equipment line (C) gas lens midsize
suitable equipment line (D) gas lens jumbo

76	20104011	
76	20164011	Collet L40mm 9-20 / 1,6 13N22L
76	20244011	Collet L40mm 9-20 / 2,4 13N23L
76	20324011	Collet L40mm 9-20 / 3,2 13N24L

78	20089011	PTFE-isolator gasket 9-20
79-M	20089031	PTFE-gas lens isolator medium 9-20
79	20089021	PTFE-gas lens isolator Jumbo 9-20 54N63-20

Ceramic gas nozzles in different lengths
suitable equipment line (A) standard collet body

80	20930401	Ceramic gas nozzle L30mm / Gr. 4 13N08 (pu=10pieces)
80	20930501	Ceramic gas nozzle L30mm / Gr. 5 13N09 (pu=10pieces)
80	20930601	Ceramic gas nozzle L30mm / Gr. 6 13N10 (pu=10pieces)
80	20930701	Ceramic gas nozzle L30mm / Gr. 7 13N11 (pu=10pieces)
80	20930801	Ceramic gas nozzle L30mm / Gr. 8 13N12 (pu=10pieces)
80	20930101	Ceramic gas nozzle L30mm / Gr.10 13N13 (pu=10pieces)

N.i.	20930304	Ceramic gas nozzle L48mm / Gr. 3 796F70 (pu=10pieces)
N.i.	20930404	Ceramic gas nozzle L48mm / Gr. 4 796F71 (pu=10pieces)
N.i.	20930504	Ceramic gas nozzle L48mm / Gr. 5 796F72 (pu=10pieces)
o.A	20930604	Ceramic gas nozzle L48mm / Gr. 6 796F73 (pu=10pieces)

N.i.	20930306	Ceramic gas nozzle L63mm / Gr. 3 796F74 (pu=10pieces)
N.i.	20930406	Ceramic gas nozzle L63mm / Gr. 4 796F75 (pu=10pieces)
N.i.	20930506	Ceramic gas nozzle L63mm / Gr. 5 796F76 (pu=10pieces)
N.i.	20930606	Ceramic gas nozzle L63mm / Gr. 6 796F77 (pu=10pieces)

N.i.	20930408	Ceramic gas nozzle L89mm / Gr. 4 796F79 (pu=10pieces)
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Ceramic gas nozzles in different lengths
suitable equipment line (B) gas lens

90	20931401	Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.4 53N58 (pu=10pieces)
90	20931501	Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.5 53N59 (pu=10pieces)
90	20931601	Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.6 53N60 (pu=10pieces)
90	20931701	Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.7 53N61 (pu=10pieces)
90	20931801	Ceramic gas nozzle for gas lens L25,5mm 9-20 / Gr.8 53N61-S (pu=10pieces)

N.i.	20931404	Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.4 53N58L (pu=10pieces)
N.i.	20931504	Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.5 53N59L (pu=10pieces)
N.i.	20931604	Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.6 53N60L (pu=10pieces)

Welding-torch TIG water-cooled**220A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)****Art.-No.**

N.i.	20931704	Ceramic gas nozzle for gas lens L35mm 9-20 / Gr.7 53N61L (pu=10pieces)
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N.i.	20931406	Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.4 53N58XL (pu=10pieces)
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N.i.	20931506	Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.5 53N59XL (pu=10pieces)
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N.i.	20931606	Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.6 53N60XL (pu=10pieces)
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N.i.	20931706	Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.7 53N61XL (pu=10pieces)
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N.i.	20931806	Ceramic gas nozzle for gas lens L72mm 9-20 / Gr.8 53N61SXL (pu=10pieces)
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90-C	20930016	Ceramic nozzle for gas lens Kir Royal 9-20 / fits tungsten electrode up to 3,2mm
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**Ceramic gas nozzles in different lengths
suitable equipment line (C) midsize gas lens**

90-M	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)
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90-M	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)
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90-M	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)
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90-M	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)
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90-M	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)
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90-M	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)
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90-M	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)
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N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)
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N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)
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N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)
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N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)
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**Ceramic gas nozzles jumbo in different lengths
suitable equipment line (D) gas lens jumbo**

95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)
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95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)
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95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)
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95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)
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N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)
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N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)
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N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)
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N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)
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Top quality tungsten electrodes in 8 different qualities, see appendix A.

Torch AUT 230-S gas-cooled



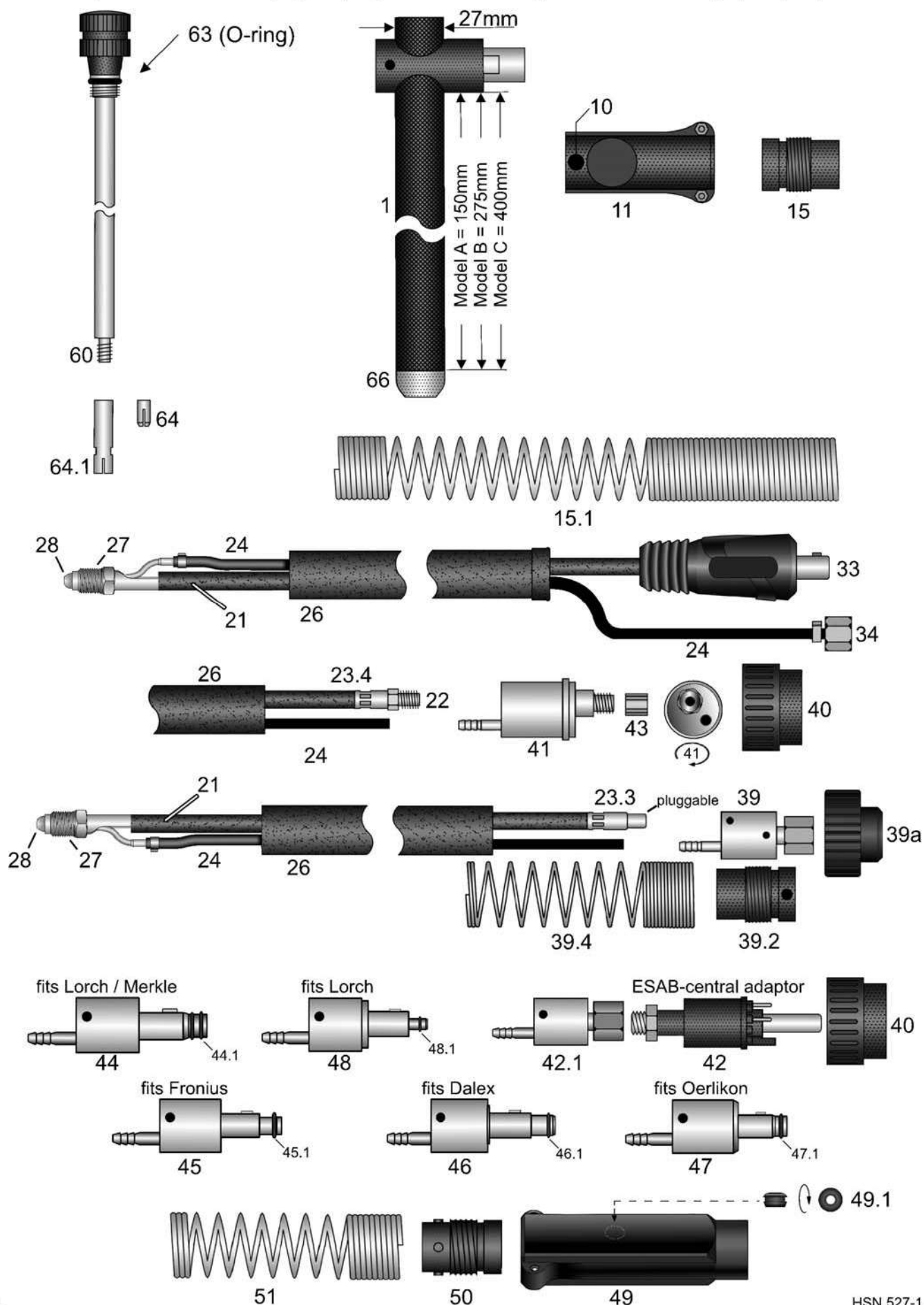
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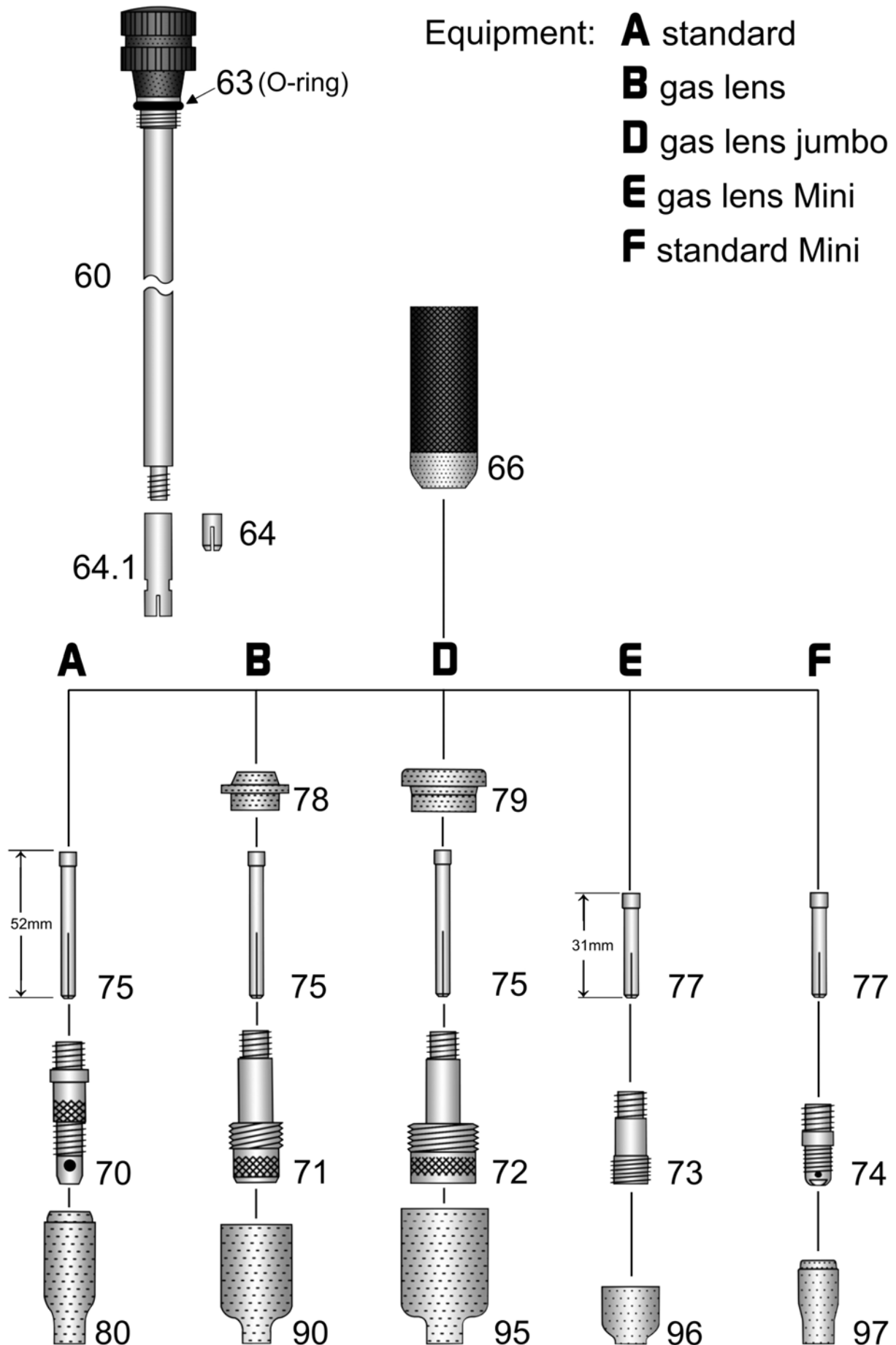
AUT 230-S gas-cooled



240 Ampere at 100% duty cycle (DC) - 200 Ampere at 100% duty cycle (AC)



HSN 527-1



Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)****Art.-No.****Torches without leatherhose. Machine side separate connections.****Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.**

26500401 AUTomatic-torch 230-S design "A" / 4m

26510401 AUTomatic-torch 230-S design "B" / 4m

26520401 AUTomatic-torch 230-S design "C" / 4m

26500801 AUTomatic-torch 230-S design "A" / 8m

26510801 AUTomatic-torch 230-S design "B" / 8m

26520801 AUTomatic-torch 230-S design "C" / 8m

TIG-sparg cable assemblies in different qualities, machine side with separate connections and Tichel plug, or, if ordered so, with the following connection systems:

wig92401 TIG-sparg cable assembly gas-cooled 4m - please state desired design!

wig92801 TIG-sparg cable assembly gas-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T"number which identifies a machine side connection system completely.

29000101 Surcharge: machine side with EURO central adapter

29002005 Surcharge: machine side power/gas plug fits Lorch/Merkle with 2 O-rings

29002004 Surcharge: machine side power/gas plug fits Fronius with 1 O-ring

29002006 Surcharge: machine side power/gas plug fits Dalex with 1 O-ring

29002107 Surcharge: machine side power/gas plug fits Oerlikon with 1 O-ring

29002002 Surcharge: machine side power/gas plug fits Lorch SK35 + gas-nipple

29000112 Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

1-A 26591001 AUTomatic-torch body design "A"

1-B 26519101 AUTomatic-torch body design "B"

1-C 26529101 AUTomatic-torch body design "C"

10 18588101 Attachment screw plastic M5x8mm 230-S / 410-S

11 18588001 AUT-cable support with 2 screws M3x11,5mm 230-S / 410-S

15 91918541 TIG spring socket small (without knobs)

15.1 91912511 AUT cable support spring (long design)

20 26940403 Power cable 35mm² SR 26 / 4m fits power/gas plugs + power gas junction (pgj)20 26940803 Power cable 35mm² SR 26 / 8m fits power/gas plugs + power gas junction (pgj)21 26940402 Power cable 35mm² SR 26 / 4m with SK25 or SK-35 <--- please state!21 26940802 Power cable 35mm² SR 26 / 8m with SK25 or SK-35 <--- please state!22 26940404 Power cable 35mm² SR 26 / 4m EURO fits central adapter (OT-M10x1)22 26940804 Power cable 35mm² SR 26 / 8m EURO fits central adapter (OT-M10x1)23.3 22089057 TIG-Power cable connector pluggable ID8,2mm fits 35mm²23.4 22089054 TIG-Power cable connector OT-M10x1 ID8,2mm fits 35mm²**Reel goods:****Prices are per meter and only applicable for purchasing of complete rolls**

24 41500001 Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
24	41500005	Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)
27	91907601	Power cable connector separate lines OT-5/8"UNF-right-hand thread
28	91907612	Hose connector L105mm SR 26 pistol side
33	91918201	Powercable-plug SK-25 bayonet connection AD8mm
33	91918301	Powercable-plug SK-35 bayonet connection AD13mm
34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
39	91918521	TIG power gas junction (pgj) with connection: IT-G1/8"
39	91918522	TIG power gas junction (pgj) with connection: IT-G1/4"
39	91918523	TIG power gas junction (pgj) with connection: IT-G3/8"
39a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
N.i.	91918551	Attachment screw (plastic) M5x12mm for power gas junction (pgj)
N.i.	91918552	3 grommets for attachment screws M5x12mm power gas junction (pgj)
N.i.	91918542	Section of insulating hose ID35-L80mm power gas junction (pgj)
39.2	91918541	TIG spring socket small (without knobs)
39.4	91918531	Cable support spring L125mm for power gas junction (pgj)
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900122	TIG central adapter EURO (fits separate lines)
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918561	TIG power gas junction (pgj) fits ESAB central adapter
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
44	9190411n	Power/gas plug fits Lorch / Merkle with 2 O-rings / power connection like pgj
44.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
45	91918326	Power/gas plug fits Fronius with 1 O-ring / power connection like pgj
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190416e	Power/gas plug fits Dalex with 1 O-ring / power connection like pgj
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190422n	Power/gas plug fits Oerlikon with 1 O-ring / power connection like pgj
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190421n	Power/gas plug fits Lorch Sk35 + gas-nipple / power connection like pgj
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
N.i.	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900556	TIG cable support short with screws (fits gas-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
60-A	17591302	AUTomatic-back cap design "A"

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.		
60-B	17519131	AUTomatic-back cap design "B"
60-C	17529131	AUTomatic-back cap design "C"
63	10089061	O-ring ID12-W3mm
64	17101401	Electrode fixation collet 1,0
64	17161401	Electrode fixation collet 1,6
64	17241401	Electrode fixation collet 2,4
64	18321401	Electrode fixation collet 3,2
64.1	17591303	Electrode fixation collet-body
66	17289022	PTFE-isolator AUT 230/410-S
70	17961002	Collet body 17-18-26-220 / 1,0 10N30
70	17961602	Collet body 17-18-26-220 / 1,6 10N31
70	17962402	Collet body 17-18-26-220 / 2,4 10N32
70	18963202	Collet body 17-18-26-220 / 3,2 10N28
71	17961011	Gas lens 17-18-26-220 / 1,0 45V24
71	17961611	Gas lens 17-18-26-220 / 1,6 45V25
71	17962411	Gas lens 17-18-26-220 / 2,4 45V26
71	18963211	Gas lens 17-18-26-220 / 3,2 45V27
72	17961021	Jumbo-Gas lens 17-18-26-220 / 1,0 45V0204
72	17961621	Jumbo-Gas lens 17-18-26-220 / 1,6 45V116
72	17962421	Jumbo-Gas lens 17-18-26-220 / 2,4 45V64
72	18963221	Jumbo-Gas lens 17-18-26-220 / 3,2 995795
73	17961031	Gas lens "Mini" SR 17-18-26 / 1,0 conversion kit
73	17961631	Gas lens "Mini" SR 17-18-26 / 1,6 conversion kit
73	17962431	Gas lens "Mini" SR 17-18-26 / 2,4 conversion kit
73	18963231	Gas lens "Mini" SR 17-18-26 / 3,2 conversion kit
74	18961003	Collet body "Mini" SR 17-18-26 1,0 conversion kit
74	18961603	Collet body "Mini" SR 17-18-26 1,6 conversion kit
74	18962403	Collet body "Mini" SR 17-18-26 2,4 conversion kit
74	18963203	Collet body "Mini" SR 17-18-26 / 1,0 - 3,2 17CB20 conversion kit
Brazen collets L-52mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
75	17105202	Collet L52mm AS17-AS18-ABL220 / 1,0 10N22-D
75	17165202	Collet L52mm AS17-AS18-ABL220 / 1,6 10N23-D
75	17245202	Collet L52mm AS17-AS18-ABL220 / 2,4 10N24-D
75	18325202	Collet L52mm AS17-AS18-ABL220 / 3,2 10N25-D
Brazen-collets L-31mm suitable equipment line (E) gas lens mini suitable equipment line (F) standard collet body mini		
77	17103101	Collet L31mm AUT-WIG 230-S / 410-S / 1,0
77	17163101	Collet L31mm AUT-WIG 230-S / 410-S / 1,6
77	17243101	Collet L31mm AUT-WIG 230-S / 410-S / 2,4

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)**

Art.-No.			
77	18323101	Collet L31mm AUT-WIG 230-S / 410-S / 3,2	
78	17089021	PTFE-Gas-lens insulator 17-18-26-220 54N01	
79	17089031	PTFE-Gas-lens insulator Jumbo 17-18-26-220 54N63	
Ceramic gas nozzles in different lengths suitable equipment line (A) standard collet body			
80	17930401	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.4 10N50 (pu=10pieces)	
80	17930501	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.5 10N49 (pu=10pieces)	
80	17930601	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.6 10N48 (pu=10pieces)	
80	17930701	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.7 10N47 (pu=10pieces)	
80	17930801	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.8 10N46 (pu=10pieces)	
80	17930101	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.10 10N45 (pu=10pieces)	
80	17930121	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.12 10N44 (pu=10pieces)	
N.i.	17930404	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.4 10N50L (pu=10pieces)	
N.i.	17930504	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.5 10N49L (pu=10pieces)	
N.i.	17930604	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.6 10N48L (pu=10pieces)	
N.i.	17930704	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.7 10N47L (pu=10pieces)	
Ceramic gas nozzles in different lengths suitable equipment line (B) gas lens			
90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)	
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)	
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)	
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)	
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)	
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)	
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)	
N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)	
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)	
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)	
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)	
Ceramic gas nozzles jumbo in different lengths suitable equipment line (D) gas lens jumbo			
95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)	
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)	
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)	
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)	
N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)	
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)	
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)	
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)	
Ceramic gas nozzles L-20mm suitable equipment line (E) gas lens mini			
96	17930502	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.5 fits gas lens "Mini" 53N59MS	(pu=10pieces)
96	17930602	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.6 fits gas lens "Mini" 53N60MS	(pu=10pieces)
96	17930702	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.7 fits gas lens "Mini" 53N61MS	(pu=10pieces)

Welding-torch TIG gas-cooled**240A at 100 % duty cycle (DC) - 200A at 100 % duty cycle (AC)****Art.-No.**

Ceramic gas nozzles suitable equipment line (F) collet body standard mini		
97	20930401	Ceramic gas nozzle L30mm / Gr. 4 13N08 (pu=10pieces)
97	20930501	Ceramic gas nozzle L30mm / Gr. 5 13N09 (pu=10pieces)
97	20930601	Ceramic gas nozzle L30mm / Gr. 6 13N10 (pu=10pieces)
97	20930701	Ceramic gas nozzle L30mm / Gr. 7 13N11 (pu=10pieces)
97	20930801	Ceramic gas nozzle L30mm / Gr. 8 13N12 (pu=10pieces)
97	20930101	Ceramic gas nozzle L30mm / Gr.10 13N13 (pu=10pieces)
N.i.	20930304	Ceramic gas nozzle L48mm / Gr. 3 796F70 (pu=10pieces)
N.i.	20930404	Ceramic gas nozzle L48mm / Gr. 4 796F71 (pu=10pieces)
N.i.	20930504	Ceramic gas nozzle L48mm / Gr. 5 796F72 (pu=10pieces)
o.A	20930604	Ceramic gas nozzle L48mm / Gr. 6 796F73 (pu=10pieces)
N.i.	20930306	Ceramic gas nozzle L63mm / Gr. 3 796F74 (pu=10pieces)
N.i.	20930406	Ceramic gas nozzle L63mm / Gr. 4 796F75 (pu=10pieces)
N.i.	20930506	Ceramic gas nozzle L63mm / Gr. 5 796F76 (pu=10pieces)
N.i.	20930606	Ceramic gas nozzle L63mm / Gr. 6 796F77 (pu=10pieces)
N.i.	20930408	Ceramic gas nozzle L89mm / Gr. 4 796F79 (pu=10pieces)
Top quality tungsten electrodes in 8 different qualities, see appendix A.		

Torch AUT 410-S water-cooled



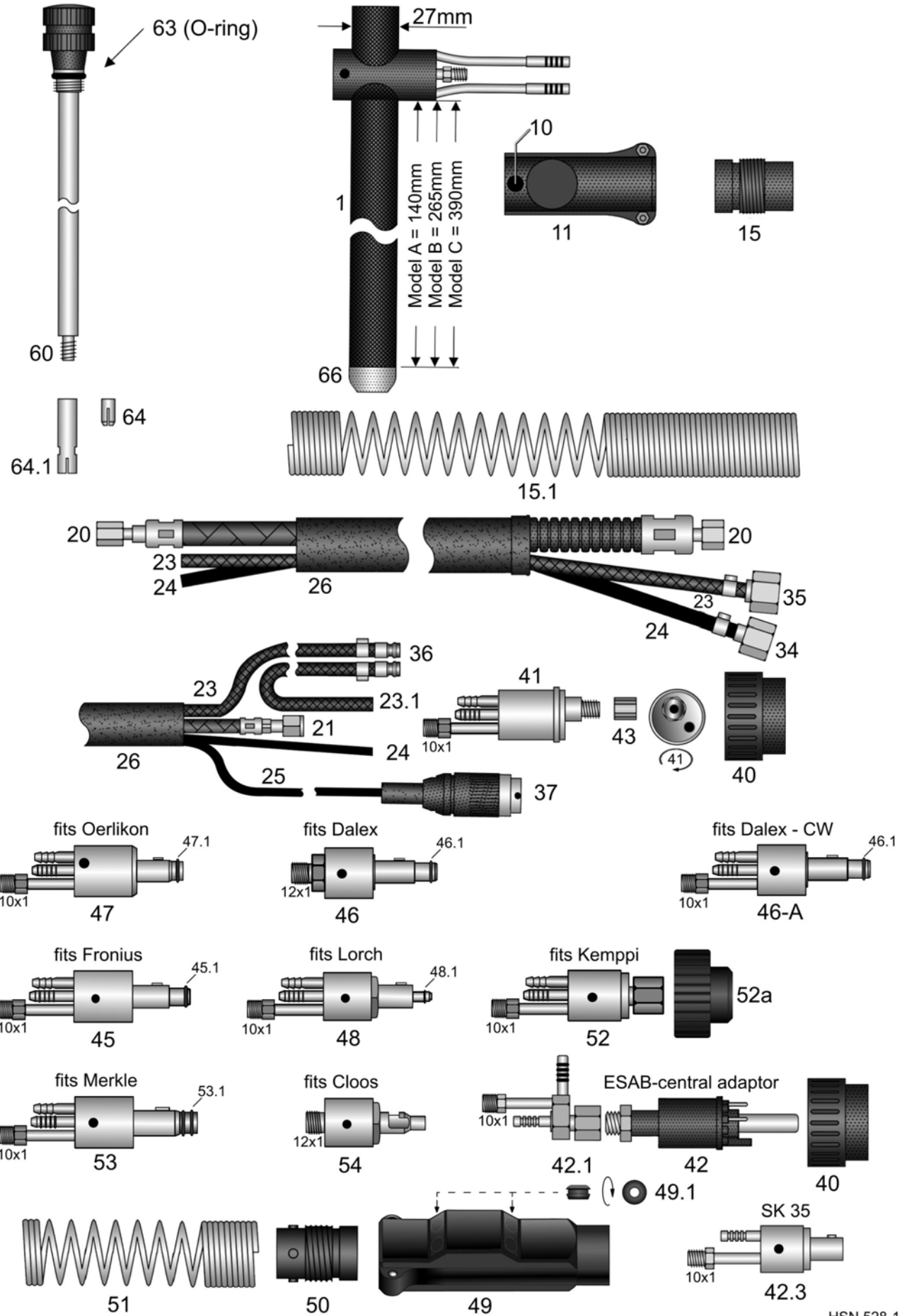
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AUT 410-S water-cooled



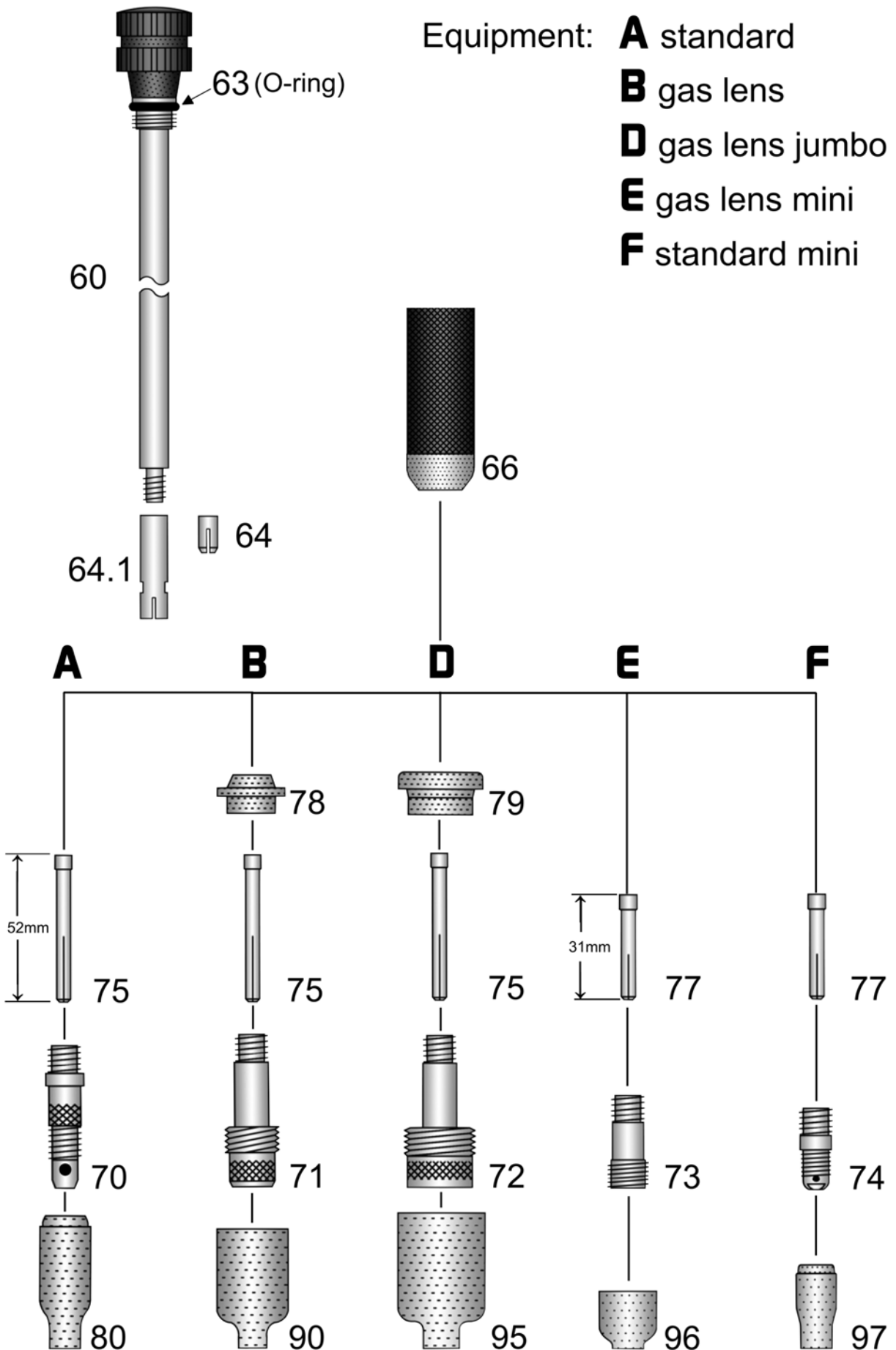
400 Ampere at 100% duty cycle (DC) - 320 Ampere at 100% duty cycle (AC)



HSN 528-1



AUT 410 - S water-cooled spare parts



HSN 110-1

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)****Art.-No.****Torches without leatherhose. Machine side separate connections.**

In variation to the torches listed below, the torches can also be produced with other power / water cables (e.g. HT 180 silicone superflexible). This can also be combined with hoses in a lot of different qualities. Torches and cable assemblies can be produced in excess lengths. Please find the different options and surcharges in the attachment "Custom made products" appendix C. We produce torches for more than 40 different brands of machines with different connection systems.

18500401	AUTomatic-torch 410-S design "A" / 4m cable assembly ST 80 PVC-NIT
18510401	AUTomatic-torch 410-S design "B" / 4m cable assembly ST 80 PVC-NIT
18520401	AUTomatic-torch 410-S design "C" / 4m cable assembly ST 80 PVC-NIT

18500801	AUTomatic-torch 410-S design "A" / 8m cable assembly ST 80 PVC-NIT
18510801	AUTomatic-torch 410-S design "B" / 8m cable assembly ST 80 PVC-NIT
18520801	AUTomatic-torch 410-S design "C" / 8m cable assembly ST 80 PVC-NIT

The following torches are equipped with very flexible and heat resistant HT110 rubber fabric hoses and protective fabric hose.

1850040P	AUTomatic-torch design "A" / 4m cable assembly HT 110
1851040P	AUTomatic torch design "B" / 4m cable assembly HT 110
1852040P	AUTomatic torch design "C" / 4m cable assembly HT 110

1850080P	AUTomatic torch design "A" / 8m cable assembly HT 110
1851080P	AUTomatic torch design "B" / 8m cable assembly HT 110
1852080P	AUTomatic torch design "C" / 8m cable assembly HT 110

TIG-spares cable assemblies in different qualities, machine side with separate connections and Tuchel plug, or, if ordered so, with the following connection systems:

wig92402	TIG-spares cable assembly water-cooled 4m - please state desired design!
wig92802	TIG-spares cable assembly water-cooled 8m - please state desired design!

The following surcharges for machine side connections are only to find prices quickly. Please use our catalogue "TIG machine side connections" to find a "T" number which identifies a machine side connection system completely.

29002102	Surcharge: machine side power/water plug SK35 bayonet connection AD13mm
29000201	Surcharge: machine side with EURO central adapter
29002109	Surcharge: machine side power/water plug fits Merkle with 2 O-rings
29002106	Surcharge: machine side power/water plug fits Fronius with 1 O-ring
29002101	Surcharge: machine side power/water plug fits Dalex with 1 O-ring
29002108	Surcharge: machine side power/water plug fits Oerlikon with 1 O-ring
29002104	Surcharge: machine side power/water plug fits Lorch SK35 + gas-nipple
29002105	Surcharge: machine side power/water plug fits Kemppi IT-G1/4"
29002110	Surcharge: machine side power/water plug fits Cloos
29000212	Surcharge: machine side fits ESAB central adapter, 4 pins installed at position 3,4,5,6

1-A	18591001	AUTomatic-torch body design "A"
1-B	18519101	AUTomatic-torch body design "B"
1-C	18529101	AUTomatic-torch body design "C"

10	18588101	Attachment screw plastic M5x8mm 230-S / 410-S
11	18588001	AUT-cable support with 2 screws M3x11,5mm 230-S / 410-S
15	91918541	TIG spring socket small (without knobs)

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.		
15.1	91912511	AUT cable support spring (long design)
Please state the machine side connection for the following power / water cables. For 4m long torches:		
20	18594401	Power/water cable 17,31mm ² 410-S / 4m MG
20	18594403	HT 110 rubber fabric hose power/water cable 17,31mm ² 410-S / 4m
20	18594405	HT 130 TPE power/water cable 17,31mm ² 410-S / 4m
20	18594408	HT 180 silicone super flexible power/water cable 17,31mm ² 410-S / 4m
For 8m long torches:		
20	18594801	Power/water cable 17,31mm ² 410-S / 8m MG
20	18594803	HT 110 rubber fabric hose power/water cable 17,31mm ² 410-S / 8m
20	18594805	HT 130 TPE power/water cable 17,31mm ² 410-S / 8m
20	18594808	HT 180 silicone super flexible power/water cable 17,31mm ² 410-S / 8m
The following power / water cables are produced with M10x1 inner thread at the machine side for EURO central adapters. (fits to all Holch connection systems with outer thread M10x1). For 4m long torches:		
21	18594411	Power/water cable 17,31mm ² 410-S / 4m EURO
21	18594413	HT 110 rubber fabric hose power/water cable 17,31mm ² 410-S / 4m
21	18594415	HT 130 TPE power/water cable 17,31mm ² 410-S / 4m
21	18594418	HT 180 silicone super flexible power/water cable 17,31mm ² 410-S / 4m
For 8m long torches:		
21	18594811	Power/water cable 17,31mm ² 410-S / 8m EURO
21	18594813	HT 110 rubber fabric hose power/water cable 17,31mm ² 410-S / 8m
21	18594815	HT 130 TPE power/water cable 17,31mm ² 410-S / 8m
21	18594818	HT 180 silicone super flexible power/water cable 17,31mm ² 410-S / 8m
Reel goods: Prices are per meter and only applicable for purchasing of complete rolls		
23	50150001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm blue for water (100m)
23	51700002	Meter HT 110 rubber fabric hose ID5,0-W1,7mm blue for water (150m)
23.1	50151001	Meter ST 80 PVC-NIT fabric hose ID5,0-W1,5mm red for water (100m)
23.1	51700003	Meter HT 110 rubber fabric hose ID5,0-W1,7mm red for water (150m)
24	41500001	Meter ST 70 PVC hose ID4,0-W1,5mm black for gas (100m)
24	41500005	Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m)
24	51700001	Meter HT 110 rubber fabric hose ID5,0-W1,7mm black for gas (150m)
24	41500005	Meter HT 130 TPE hose ID4,0-W1,5mm grey for gas (100m)
26	22150002	Meter neoprene protective hose ID22mm black (40m)
26	25151001	Meter rubberized fabric protective hose ID25-W1,5mm (40m)
34	91901501	Coupling nut IT-G1/4"
N.i.	91901211	Hose connector 4mm fits coupling nut R1/4"
35	91901601	Coupling nut IT-G3/8"
N.i.	91901301	Hose connector 5mm fits Coupling nut R3/8"
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
40	91900701	Terminal nut insulated fits EURO central adapter
41	91900211	TIG central adapter EURO central adapter water cooled

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.		
42	91900301	TIG central adapter identical ESAB, 4 contact pins at position 3,4,5,6
42.1	91918571	TIG power/cooling liquid junction fits ESAB central adapter
42.3	91918312	TIG central adapter SK-35 bayonet connection AD13mm
43	91900901	Swivel nut IT-M10x1 (rounded edges) fits EURO central adapter
45	91918327	Power/water plug fits Fronius with 1 O-ring (OT-M10x1 / like EURO central adapter)
45.1	62190001	O-ring ID6,2-W1,9mm fits Fronius
46	9190417e	Power/water plug fits Dalex (1 O-ring) (OT-12x1)
46-A	9190418n	Power-/gasplug fits Dalex with waterdeviation to outside, CW-System with 1 O-ring
46.1	63240001	O-ring ID6,3-W2,4mm fits Dalex
47	9190423n	Power/water plug fits Oerlikon with 1 O-ring (OT-M10x1 / like EURO central adapter)
47.1	60717801	O-ring ID6,07-W1,78mm fits Oerlikon
48	9190420n	Power/water plug fits Lorch SK35 + gas-nipple (OT-10x1 / like EURO central adapter)
48.1	91900801	O-ring ID4-W1mm fits gas-nipple EURO central adapter
o.A	91900552	TIG cable support long (like MIG-MAG) with screws fits ESAB central adapter
N.i.	91900554	Attachment screw M4x8mm fits ESAB central adapter
49	91900557	TIG cable support short with screws (fits water-cooled)
N.i.	91920702	Screw M3x11,5mm fits Ratio/Industry/RAUCH handle and cable support
N.i.	91920703	M3 mounting socket fits Ratio/Industry/RAUCH handle and cable support
o.A.	91900602	Screw M4x6mm fits TIG cable support short
49.1	91901012	Reduction-eyelet (rubber) from ID10,5mm to ID5mm fits TIG cable support short
N.i.	91921701	PUR hose ID8,5-W1,0mm 150mm long fits leading water hoses into cable support
50	91912801	Spring-socket fits cable support
51	91912601	Cable support spring
52	9190419n	Power/water plug fits Kemppi IT-G1/4" (AG-M10x1 / like EURO central adapter)
52a	91903503	Insulating sleeve with inner hexagonal shape A/F17 for TIG power-connection IT-G1/4"
53	9190424n	Power/water plug fits Merkle with 2 O-rings (OT-M10x1 / like EURO central adapter)
53.1	81600001	O-ring ID8-W1,6mm fits Lorch/Merkle
54	9190415n	Powerplug fits Cloos (special-plug) (OT-12x1)
60-A	17591302	AUTomatic-back cap design "A"
60-B	17519131	AUTomatic-back cap design "B"
60-C	17529131	AUTomatic-back cap design "C"
63	10089061	O-ring ID12-W3mm
64	17101401	Electrode fixation collet 1,0
64	17161401	Electrode fixation collet 1,6
64	17241401	Electrode fixation collet 2,4
64	18321401	Electrode fixation collet 3,2
64	18401401	Electrode fixation collet 4,0
64.1	17591303	Electrode fixation collet-body
66	17289022	PTFE-isolator AUT 230/410-S
70	17961002	Collet body 17-18-26-220 / 1,0 10N30
70	17961602	Collet body 17-18-26-220 / 1,6 10N31
70	17962402	Collet body 17-18-26-220 / 2,4 10N32
70	18963202	Collet body 17-18-26-220 / 3,2 10N28
70	18964002	Collet body 17-18-26-220 / 4,0 406488

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.		
71	17961011	Gas lens 17-18-26-220 / 1,0 45V24
71	17961611	Gas lens 17-18-26-220 / 1,6 45V25
71	17962411	Gas lens 17-18-26-220 / 2,4 45V26
71	18963211	Gas lens 17-18-26-220 / 3,2 45V27
71	18964011	Gas lens 17-18-26-220 / 4,0 45V28
72	17961021	Jumbo-Gas lens 17-18-26-220 / 1,0 45V0204
72	17961621	Jumbo-Gas lens 17-18-26-220 / 1,6 45V116
72	17962421	Jumbo-Gas lens 17-18-26-220 / 2,4 45V64
72	18963221	Jumbo-Gas lens 17-18-26-220 / 3,2 995795
72	18964021	Jumbo-Gas lens 17-18-26-220 / 4,0 45V63
73	17961031	Gas lens "Mini" SR 17-18-26 / 1,0 conversion kit
73	17961631	Gas lens "Mini" SR 17-18-26 / 1,6 conversion kit
73	17962431	Gas lens "Mini" SR 17-18-26 / 2,4 conversion kit
73	18963231	Gas lens "Mini" SR 17-18-26 / 3,2 conversion kit
74	18961003	Collet body "Mini" SR 17-18-26 1,0 conversion kit
74	18961603	Collet body "Mini" SR 17-18-26 1,6 conversion kit
74	18962403	Collet body "Mini" SR 17-18-26 2,4 conversion kit
74	18963203	Collet body "Mini" SR 17-18-26 / 1,0 - 3,2 17CB20 conversion kit
Brazen collets L-52mm suitable equipment line (A) standard collet body suitable equipment line (B) gas lens suitable equipment line (D) gas lens jumbo		
75	17105202	Collet L52mm AS17-AS18-ABL220 / 1,0 10N22-D
75	17165202	Collet L52mm AS17-AS18-ABL220 / 1,6 10N23-D
75	17245202	Collet L52mm AS17-AS18-ABL220 / 2,4 10N24-D
75	18325202	Collet L52mm AS17-AS18-ABL220 / 3,2 10N25-D
75	18405202	Collet L52mm AS17-AS18-ABL220 / 4,0 10N20-D
Brazen-collets L-31mm suitable equipment line (E) gas lens mini suitable equipment line (F) standard collet body mini		
77	17103101	Collet L31mm AUT-WIG 230-S / 410-S / 1,0
77	17163101	Collet L31mm AUT-WIG 230-S / 410-S / 1,6
77	17243101	Collet L31mm AUT-WIG 230-S / 410-S / 2,4
77	18323101	Collet L31mm AUT-WIG 230-S / 410-S / 3,2
78	17089021	PTFE-Gas-lens insulator 17-18-26-220 54N01
79	17089031	PTFE-Gas-lens insulator Jumbo 17-18-26-220 54N63
Ceramic gas nozzles in different lengths suitable equipment line (A) standard collet body		
80	17930401	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.4 10N50 (pu=10pieces)
80	17930501	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.5 10N49 (pu=10pieces)
80	17930601	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.6 10N48 (pu=10pieces)
80	17930701	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.7 10N47 (pu=10pieces)
80	17930801	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.8 10N46 (pu=10pieces)
80	17930101	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.10 10N45 (pu=10pieces)
80	17930121	Ceramic gas nozzle L47mm 17-18-26-220 / Gr.12 10N44 (pu=10pieces)

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.			
N.i.	17930404	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.4 10N50L (pu=10pieces)	
N.i.	17930504	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.5 10N49L (pu=10pieces)	
N.i.	17930604	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.6 10N48L (pu=10pieces)	
N.i.	17930704	Ceramic gas nozzle L76mm 17-18-26-220 / Gr.7 10N47L (pu=10pieces)	
Ceramic gas nozzles in different lengths suitable equipment line (B) gas lens			
90	22093041	Gas nozzle for gas lens L42mm / Gr.4 54N18 (pu=10pieces)	
90	22093051	Gas nozzle for gas lens L42mm / Gr.5 54N17 (pu=10pieces)	
90	22093061	Gas nozzle for gas lens L42mm / Gr.6 54N16 (pu=10pieces)	
90	22093071	Gas nozzle for gas lens L42mm / Gr.7 54N15 (pu=10pieces)	
90	22093081	Gas nozzle for gas lens L42mm / Gr.8 54N14 (pu=10pieces)	
90	22093111	Gas nozzle for gas lens L42mm / Gr.11 54N19-11 (pu=10pieces)	
90	22093121	Gas nozzle for gas lens L42mm / Gr.12 54N19 (pu=10pieces)	
N.i.	22093054	Gas nozzle for gas lens L76mm / Gr.5 54N17L (pu=10pieces)	
N.i.	22093064	Gas nozzle for gas lens L76mm / Gr.6 54N16L (pu=10pieces)	
N.i.	22093074	Gas nozzle for gas lens L76mm / Gr.7 54N15L (pu=10pieces)	
N.i.	22093084	Gas nozzle for gas lens L76mm / Gr.8 54N14L (pu=10pieces)	
Ceramic gas nozzles jumbo in different lengths suitable equipment line (D) gas lens jumbo			
95	22093066	Jumbo gas nozzle L48mm / Gr.6 57N75 (pu=10pieces)	
95	22093086	Jumbo gas nozzle L48mm / Gr.8 57N74 (pu=10pieces)	
95	22093106	Jumbo gas nozzle L48mm / Gr.10 53N88 (pu=10pieces)	
95	22093126	Jumbo gas nozzle L48mm / Gr.12 53N87 (pu=10pieces)	
N.i.	22093067	Jumbo gas nozzle L73mm / Gr.6 57N75L (pu=10pieces)	
N.i.	22093087	Jumbo gas nozzle L73mm / Gr.8 57N74L (pu=10pieces)	
N.i.	22093107	Jumbo gas nozzle L73mm / Gr.10 53N88L (pu=10pieces)	
N.i.	22093127	Jumbo gas nozzle L73mm / Gr.12 53N87L (pu=10pieces)	
Ceramic gas nozzles L-20mm suitable equipment line (E) gas lens mini			
96	17930502	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.5 fits gas lens "Mini" 53N59MS	(pu=10pieces)
96	17930602	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.6 fits gas lens "Mini" 53N60MS	(pu=10pieces)
96	17930702	Ceramic gas nozzle L20mm SR 17-18-26 / Gr.7 fits gas lens "Mini" 53N61MS	(pu=10pieces)
Ceramic gas nozzles suitable equipment line (F) collet body standard mini			
97	20930401	Ceramic gas nozzle L30mm / Gr. 4 13N08 (pu=10pieces)	
97	20930501	Ceramic gas nozzle L30mm / Gr. 5 13N09 (pu=10pieces)	
97	20930601	Ceramic gas nozzle L30mm / Gr. 6 13N10 (pu=10pieces)	
97	20930701	Ceramic gas nozzle L30mm / Gr. 7 13N11 (pu=10pieces)	
97	20930801	Ceramic gas nozzle L30mm / Gr. 8 13N12 (pu=10pieces)	
97	20930101	Ceramic gas nozzle L30mm / Gr.10 13N13 (pu=10pieces)	
N.i.	20930304	Ceramic gas nozzle L48mm / Gr. 3 796F70 (pu=10pieces)	
N.i.	20930404	Ceramic gas nozzle L48mm / Gr. 4 796F71 (pu=10pieces)	
N.i.	20930504	Ceramic gas nozzle L48mm / Gr. 5 796F72 (pu=10pieces)	
o.A	20930604	Ceramic gas nozzle L48mm / Gr. 6 796F73 (pu=10pieces)	

Welding-torch TIG water-cooled**400A at 100 % duty cycle (DC) - 320A at 100 % duty cycle (AC)**

Art.-No.		
N.i.	20930306	Ceramic gas nozzle L63mm / Gr. 3 796F74 (pu=10pieces)
N.i.	20930406	Ceramic gas nozzle L63mm / Gr. 4 796F75 (pu=10pieces)
N.i.	20930506	Ceramic gas nozzle L63mm / Gr. 5 796F76 (pu=10pieces)
N.i.	20930606	Ceramic gas nozzle L63mm / Gr. 6 796F77 (pu=10pieces)
N.i.	20930408	Ceramic gas nozzle L89mm / Gr. 4 796F79 (pu=10pieces)

Top quality tungsten electrodes in 8 different qualities, see appendix A.

A

Tungsten-electrodes

Available only in packaging units (PU)

1PU = 10 pieces (Sizes 1,0 – 4,0)

1PU = 5 pieces (Size 4,8)

Art.-No.	
Tungsten electrodes blue	
10175901	Tungsten-electrode WL20 1,0x175 blue
16175901	Tungsten-electrode WL20 1,6x175 blue
20175901	Tungsten-electrode WL20 2,0x175 blue
24175901	Tungsten-electrode WL20 2,4x175 blue
32175901	Tungsten-electrode WL20 3,2x175 blue
40175901	Tungsten-electrode WL20 4,0x175 blue
48175901	Tungsten-electrode WL20 4,8x175 blue
Tungsten electrodes yellow	
10175501	Tungsten-electrode 1,0x175 WT10 yellow
16175501	Tungsten-electrode 1,6x175 WT10 yellow
20175501	Tungsten-electrode 2,0x175 WT10 yellow
24175501	Tungsten-electrode 2,4x175 WT10 yellow
32175501	Tungsten-electrode WT10 3,2x175 yellow
40175501	Tungsten-electrode WT10 4,0x175 yellow
48175501	Tungsten-electrode WT10 4,8x175 yellow
Tungsten electrodes gold	
10175801	Tungsten-electrode WL15 1,0x175 gold
16175801	Tungsten-electrode WL15 1,6x175 gold
20175801	Tungsten-electrode WL15 2,0x175 gold
24175801	Tungsten-electrode WL15 2,4x175 gold
32175801	Tungsten-electrode WL15 3,2x175 gold
40175801	Tungsten-electrode WL15 4,0x175 gold
48175801	Tungsten-electrode WL15 4,8x175 gold
Tungsten electrodes grey	
10175211	Tungsten-electrode WC20 1,0x175 grey
16175211	Tungsten-electrode WC20 1,6x175 grey
20175211	Tungsten-electrode WC20 2,0x175 grey
24175211	Tungsten-electrode WC20 2,4x175 grey
32175211	Tungsten-electrode WC20 3,2x175 grey
40175211	Tungsten-electrode WC20 4,0x175 grey
48175211	Tungsten-electrode WC20 4,8x175 grey
Tungsten electrodes green	
10175001	Tungsten-electrode 1,0x175 WP green
16175001	Tungsten-electrode 1,6x175 WP green
20175001	Tungsten-electrode 2,0x175 WP green
24175001	Tungsten-electrode 2,4x175 WP green
32175001	Tungsten-electrode 3,2x175 WP green
40175001	Tungsten-electrode 4,0x175 WP green
48175001	Tungsten-electrode 4,8x175 WP green
Tungsten electrodes black	
10175701	Tungsten-electrode WL10 1,0x175 black
16175701	Tungsten-electrode WL10 1,6x175 black
20175701	Tungsten-electrode WL10 2,0x175 black
24175701	Tungsten-electrode WL10 2,4x175 black
32175701	Tungsten-electrode WL10 3,2x175 black
40175701	Tungsten-electrode WL10 4,0x175 black
48175701	Tungsten-electrode WL10 4,8x175 black

Art.-No.	
Tungsten electrodes turquoise	
10175002	Tungsten-electrode WR2 1,0x175 cyan
16175002	Tungsten-electrode WR2 1,6x175 cyan
20175002	Tungsten-electrode WR2 2,0x175 cyan
24175002	Tungsten-electrode WR2 2,4x175 cyan
32175002	Tungsten-electrode WR2 3,2x175 cyan
40175002	Tungsten-electrode WR2 4,0x175 cyan
48175002	Tungsten-electrode WR2 4,8x175 cyan
Tungsten electrodes white	
10175401	Tungsten-electrode WZ8 1,0x175 white
16175401	Tungsten-electrode WZ8 1,6x175 white
20175401	Tungsten-electrode WZ8 2,0x175 white
24175401	Tungsten-electrode WZ8 2,4x175 white
32175401	Tungsten-electrode WZ8 3,2x175 white
40175401	Tungsten-electrode WZ8 4,0x175 white
48175401	Tungsten-electrode WZ8 4,8x175 white

B

Sundries, parts and tools

Art.-No.	
70e00001	Hose clip 7,0-E
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
9191721n	Contact tip wrench flat-steel SW 5,6,8,10,12

C

Custom made products

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

29100011	Surcharge: TIG torch or spare-cable-assembly gas-cooled length: 10m
29100012	Surcharge: TIG torch or spare-cable-assembly gas-cooled length: 12m
29100016	Surcharge: TIG torch or spare-cable-assembly gas-cooled length: 16m
29100020	Surcharge: TIG torch or spare-cable-assembly gas-cooled length: 20m
29100024	Surcharge: TIG torch or spare-cable-assembly gas-cooled length: 24m

Hand and AUTomatic welding torches water-cooled

29200011	Surcharge: TIG torch or spare-cable-assembly water-cooled length: 10m
29200012	Surcharge: TIG torch or spare-cable-assembly water-cooled length: 12m
29200016	Surcharge: TIG torch or spare-cable-assembly water-cooled length: 16m
29200020	Surcharge: TIG torch or spare-cable-assembly water-cooled length: 20m
29200024	Surcharge: TIG torch or spare-cable-assembly water-cooled length: 24m

Highly heat resistant and flexible cable-assemblies**HT 110 rubber fabric hose**

29000043	Surcharge: TIG gas- and water-cooled / 4m
29000083	Surcharge: TIG gas- and water-cooled / 8m

HT 180 Silicone-fabric hose (superflexible)

29000048	Surcharge: TIG gas- and water-cooled / 4m
29000088	Surcharge: TIG gas- and water-cooled / 8m

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 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

HT 180 Silicone:

- Fabric hose 65° Shore
- Very robust outer fabric, 100% covering outer weaving
- Extremely high heat resistant, up to 180°C
- flexible at all temperatures due high quality silicone-inner hose

D

Control line plugs, jacks and switch units

Art.-No.	
Control line plugs	
91904185	Plug 1-pole banana plug fits SAF
91904191	Plug 1-pole Amphenol (MG-Plasma)
91903701	Plug 2-poles fits Cloos
91904151	Plug 2-poles Cannon fits ESAB
91904152	Plug 14-poles fits Miller
91904154	Plug 3-poles fits Cloos Qineo MicroPulse200
91904196	Plug 3-poles R3D3 "red dragon"
91904182	Headphone jack plug 3-poles 6,3mm fits Oerlikon
91904101	Plug 3-poles Tuchel with bayonet-catch
91904173	Plug 3-poles Alcatel fits Cloos-Herborn / Esseti / Variamp / Woltersdorf
91904174	Plug 3-poles Preh fits Ess / Jäckle / Gys
91904183	Plug 3-poles Amphenol fits TOP
91904181	Plug 3-poles Amphenol (MG-Plasma)
91904186	Headphone jack plug 3-poles 3,5mm fits Lorch
91904131	Plug 4-poles Amphenol fits Kemppi / UTP / Zeuna
91904138	Plug 4-poles Amphenol fits Ford old
91904134	Plug 4-poles fits Selco
91904123	Plug 4-poles Harting
91904111	Plug 5-poles Tuchel with bayonet-catch
91904112	Plug 5-poles Tuchel screwable
91904117	Plug 5-poles Weipu fits Iskraver, Awelco-Industrie and Schweisskraft
91904172	Plug 5-poles fits Cebora
91904195	Plug 5-poles fits Selco / WECO / Cloos GL/GLW 202/222/30
91904139	Plug 6-poles Amphenol fits Lincoln
91904169	Plug 6-poles fits CEA / WECO / Cloos with Poti / OTC
91904121	Plug 6-poles Harting fits Migatronik
91904163	Plug 6-poles Schaltbau fits Elektra Beckum / Metabo
91904171	Plug 6-poles (A-F) Amphenol fits Oerlikon MIG-MAG
91904113	Plug 7-poles Tuchel with bayonet-catch fits Castolin / Fronius / Dalex
91904161	Plug 7-poles fits Rehm / Migatronik / Hydrotech / Erfi
91904165	Plug 7-poles fits Cloos with Poti
91904176	Plug 7-poles fits Cemont
91904178	Plug 7-poles fits Kemppi (encoding Z)
91904194	Plug 7-poles fits STEL / Selco / WECO
91904114	Plug 7-poles fits Fimer
91944161	Plug 8-poles round fits Fronius
91904189	Plug 8-poles Burndy fits EWM with Poti or up/down
91904115	Plug 8-poles Rebel fits ESAB
91904164	Plug 9-poles flat connector fits Fronius
91904177	Plug 9-poles computer fits Lorch
91904175	Plug 10-poles fits Cebora
91904188	Plug 10-poles fits Kemppi with Poti
91904153	Plug 12-poles fits Flame
91904166	Plug 12-poles fits Rehm / HydroTech
91904167	Plug 12-poles Burndy fits EWM Tetrix
91904135	Plug 14-poles fits Miller
91904136	Plug 14-poles AMP fits Telwin / Alphaforce
91904137	Plug 18-poles Amphenol fits Rehm
91944166	Plug 19-poles Rehm / Tiger2

Art.-No.	
Jacks	
91904149	Socket 2-poles Cannon
91904197	Socket 2-poles R2D2 "red dragon"
91904215	Socket 2-poles fits OTC
91904201	Socket 3-poles Tuchel with bayonet-catch
91904198	Socket 3-poles fits Alcatel
91904132	Socket 4-poles Amphenol fits Kemppi / UTP
91904216	Socket 4-poles fits OTC
91904211	Socket 5-poles Tuchel with bayonet-catch
91904214	Socket 5-poles Cloos GL/GLW 202/222/302 also fits Selco / Weco
91904119	Socket 6-poles Amphenol fits CEA / OTC / Weco / Cloos
91904162	Socket 7-poles fits Rehm
91904271	Socket 7-poles Tuchel fits Castolin
91904272	Socket 7-poles Amphenol fits Kemppi
91904263	Socket 8-poles round fits Fronius
91904264	Socket 9-poles flat fits Fronius
91904273	Socket 12-poles fits Rehm
Switch units for Forma handles	
91914611	Forma modular switch unit: 1 button with connecting adapter
91914621	Forma modular switch unit: 2 buttons with connecting adapter
91914631	Forma modular switch unit: 1 button + potentiometer (10k) with connecting adapter
91914641	Forma modular switch unit: 2 buttons + up/down (4 switches) with connecting adapter
91914651	Forma connecting adapter fits control line to modular switch unit
91914661	Forma switch module safety nipple
Custom made switch units for Forma handles	
91914612	Forma modular switch unit: 1 button with connecting Adapter fits ESS
91914642	Forma modular switch unit: 2 buttons + up/down connecting Adapter fits Lorch
91914643	Forma modular switch unit: 1 button + up/down connecting Adapter fits Jäckle

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