

TBi Expert Series MIG Torches

Water-cooled Industrial Series



411 Expert

511 Expert



The TBi Expert handle has been designed to offer perfect ergonomics and appealing aesthetics. The soft rubber areas are directly integrated into the handle and assure comfortable, non-slip handling.

All models offer excellent performance in industrial applications, and are compatible with standard Euro style consumables.

- Modern 2-component handle
- Extremely slim design for effortless use
- Ball joint with defined panning and rotation range prevents twisted hoses in the cable assembly
- Effort-saving weight distribution
- Gripping area is more distanced from weld pool than with our other handles, less heat input on the hand

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Industry

- Ship and Offshore Yards
- Repair and Maintenance
- Steel Industry
- Industrial and General Fabrication
- Automotive



With an ergonomic and well balanced handle, the TBi Expert Series ensures best comfort for the welder.

Specifications		
Description	411 Expert	511 Expert
Cooling	Water	
Welding Output Mixed Gas	350 A at 100%	450 A at 100%
Welding Output CO ₂	400 A at 100%	500 A at 100%
Wire Diameter	1.0 – 1.6 mm	
Certification Mark (Standards)	CE (IEC 60974-7)	
Operating Temperature	-10 to +40 °C	
Cable Length	3 m, 4 m, 5 m	

Ordering Information			
Description	3 m	4 m	5 m
TBi 411 Expert with Euro Connection	133P421030	133P421040	133P421050
Tbi 511 Expert with Euro Connection	134P421030	134P421040	134P421050

Wear Parts – Liners			
Description	Part Number	411 Expert	511 Expert
Steel liner			
0.8 – 1.0, Blue, 3 m	324P154534	x	x
0.8 – 1.0, Blue, 4 m	324P154544	x	x
0.8 – 1.0, Blue, 5 m	324P154554	x	x
1.0 – 1.2, Red, 3 m	324P204534	x	x
1.0 – 1.2, Red, 4 m	324P204544	x	x
1.0 – 1.2, Red, 5 m	324P204554	x	x
1.2 – 1.6, Yellow, 3 m	324P254534	x	x
1.2 – 1.6, Yellow, 4 m	324P254544	x	x
1.2 – 1.6, Yellow, 5 m	324P254554	x	x
PTFE liner (for Aluminium)			
1.0 – 1.2, Red, 3 m	326P204035	x	x
1.0 – 1.2, Red, 4 m	326P204045	x	x
1.0 – 1.2, Red, 5 m	326P204055	x	x
1.2 – 1.6, Yellow, 3 m	326P274735	x	x
1.2 – 1.6, Yellow, 4 m	326P274745	x	x
1.2 – 1.6, Yellow, 5 m	326P274755	x	x
PA/Bronze-Liner (for aluminium and stainless steel)			
0.8 – 1.0, Anthracite 3 m	328P20403A	x	x
0.8 – 1.0, Anthracite 4 m	328P20404A	x	x
0.8 – 1.0, Anthracite 5 m	328P20405A	x	x
1.2 – 1.6, Anthracite 3 m	328P23473A	x	x
1.2 – 1.6, Anthracite 4 m	328P23474A	x	x
1.2 – 1.6, Anthracite 5 m	328P23475A	x	x

* Supplied as standard

*For complete list of wear and spare parts please see separate manual or spare parts list.

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Wear Parts				
No.	Description	Part Number	411 Expert	511 Expert
1	Gas Nozzle Conical	345P012030 (Ø 16 mm)*	x	x
1	Gas Nozzle Tapered	345P013030 (Ø 14 mm)	x	x
1	Gaz Nozzle Cylindrical	345P011030 (Ø 20 mm)	x	x
1	Gas Nozzle Tapered M6	345P016030 (Ø 12 mm)	x	x
3	Gas Diffusor Black	112P002024*	x	x
3B	Gas Diffusor Ceramic	112P002021	x	x
4B	Tip Adaptor M6	342P006033	x	x
4	Tip Adaptor M8	342P008033*	x	x

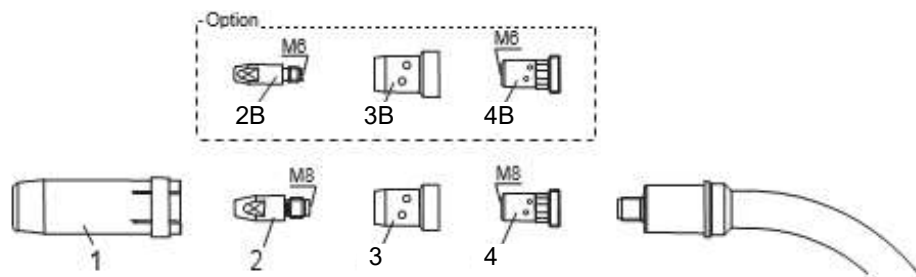
* Supplied as standard

Wear Parts – Contact Tips				
No.	Description	411 Expert / 511 Expert		
		Cu	CuCrZr	Alu Cu
2B	Contact Tip M6 x 28 Ø 0.8	340P081069	340P083069	341P091069
2B	Contact Tip M6 x 28 Ø 0.9	340P091069	340P093069	341P091069
2B	Contact Tip M6 x 28 Ø 1.0	340P101069	340P103069	341P101069
2B	Contact Tip M6 x 28 Ø 1.2	340P121069	340P123069	341P121069
2	Contact Tip M8 x 30 Ø 0.8	340P081262	340P083262	341P081262
2	Contact Tip M8 x 30 Ø 0.9	340P091262	340P093262	341P091262
2	Contact Tip M8 x 30 Ø 1.0	340P101262	340P103262	341P101262
2	Contact Tip M8 x 30 Ø 1.2	340P121262*	340P123262	341P121262
2	Contact Tip M8 x 30 Ø 1.4	340P141262	340P143262	341P121262
2	Contact Tip M8 x 30 Ø 1.6	340P161262	340P163262	341P161262

* Supplied as standard

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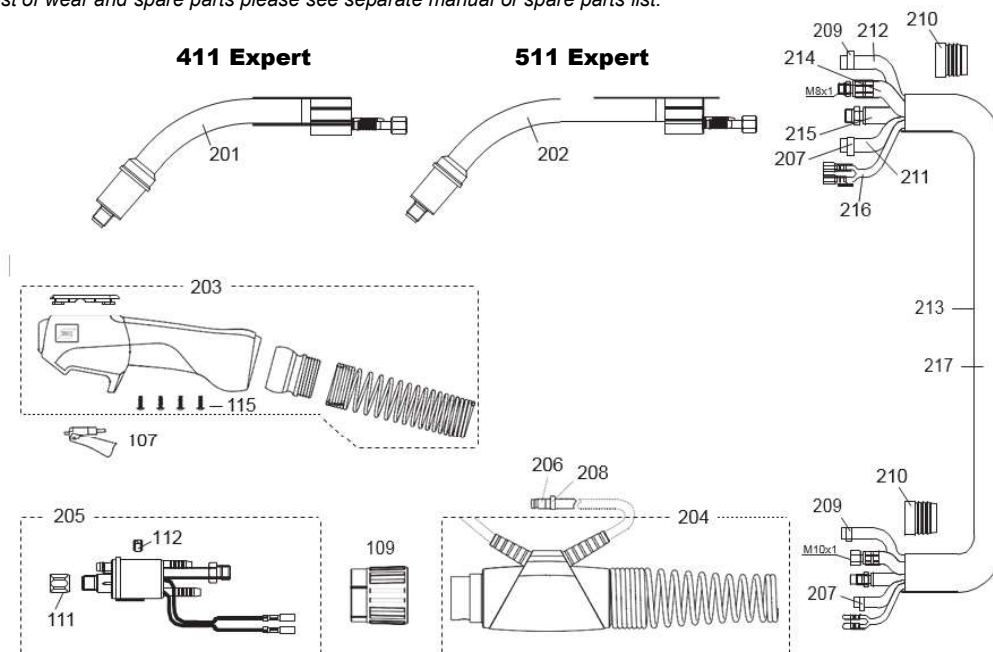
Spare Parts

No.	Description	Part Number	411 Expert	511 Expert
201	Torch Neck 411 Expert	133P001001	x	
202	Torch Neck 511 Expert	134P001001		x
203	Handle Complete Expert	380P230003	x	x
204	Cable Support cpl.	700P001066	x	x
205	Central Connector W	701P001049	x	x
206	Quick Connector	701P002064	x	x
207	Hose Clamp w/ Ring Ø 8.7	373P000087	x	x
208	Hose Clamp w/ Ring Ø 9.0	373P100090	x	x
209	Hose Clamp w/ Ring Ø 9.5	373P100095	x	x
210	Clamping Ring Outer Cover	600P102201	x	x
211	PVC-Gas Hose, Black, 4.5 x 1.5 mm	302P010000	x	x
212	PVC hose, Braided, Black, 5 x 1.5 mm	307P25285E	x	x
213	Fabric Outer Cover, 5 m	307P25285E	x	x
107	Trigger, Red, 2-poles	385P021016	x	x

Spare Parts – Cables

No.	Description	3 m	4 m	5 m
214	Water-power Cable, Blue	316P162130	316P162140	316P162150
215	Wire Conduit, Yellow	356P040130	356P040140	356P040150
216	Control Cable cpl.	301P230430	301P230440	301P230450
217	Cable Assembly cpl.	123P404030	123P404040	123P404050

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