

**Technical data**

Cooling method	water cooled
Wire diameter	1.0 - 1.6 mm
Gas flow	16 l/min
Technical specification	according to IEC 60974-7

**Ordering information for torches**

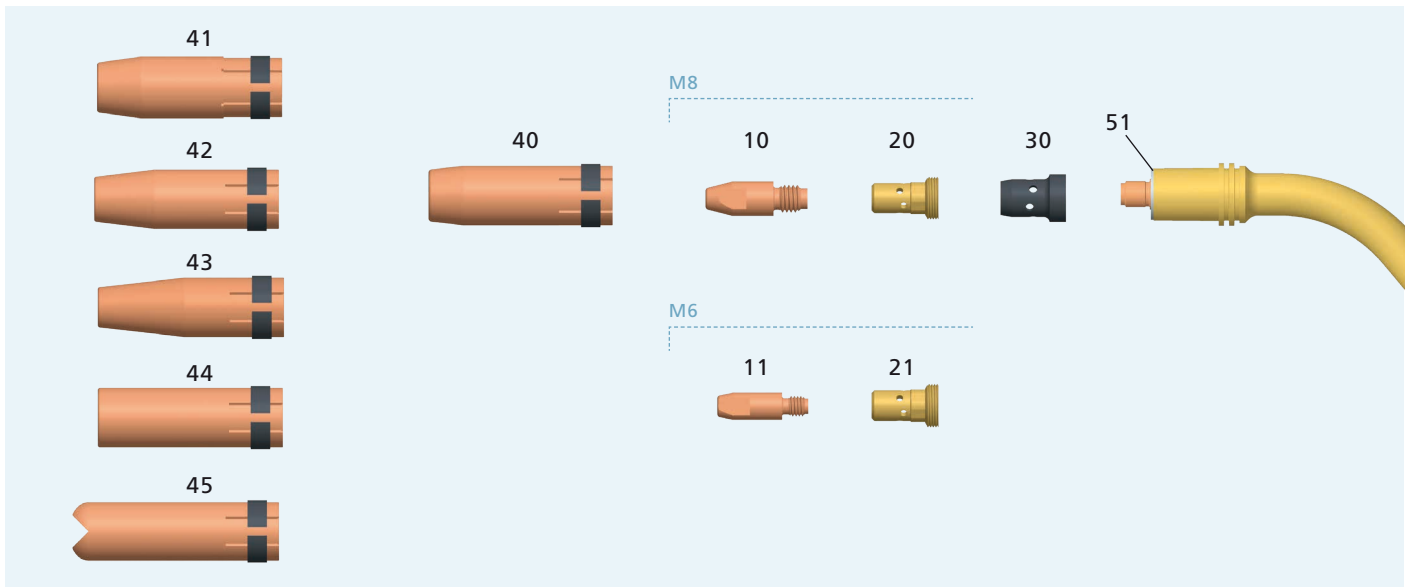
Modell	Rating at 100% duty cycle (10 min. cycle)		Torch with Euro connector	Torch neck
	Mixed gas (M21)	CO <sub>2</sub>		
▶ TBi 411 Expert	450	500	133P4210_0*	133P001001
▶ TBi 411 Expert Plus	350	400	133P4310_0*	133P001001
▶ TBi 511 Expert Plus	450	500	134P4310_0*	134P001001

Option: TBi Modules for Expert Plus version see page 56. Only for the torch length of 4 m.




TBi 411 Expert / TBi 411 Expert Plus equipped for steel wire Ø 1.0 mm. Liner not insulated (Ø 1.0 -1.2 mm).  
 TBi 511 Expert Plus equipped for steel wire Ø 1.2 mm. Liner not insulated (Ø 1.0 -1.2 mm).

▶ = Standard equipment

\* At the blank, please insert suitable information for torch length, e.g. 3 for 3 m.



	Pos.	Description	PU	Part no.
Contact tips	► 10	<b>M8x30, ECu</b>	50	<b>340P__1262*</b>
	10	M8x30, CuCrZr	50	340P__3262*
	10	M8x30, Alu, ECu	50	341P__1262*
	11	M6x28, ECu	50	340P__1069*
	11	M6x28, CuCrZr	50	340P__3069*
	11	M6x28, Alu, ECu	50	341P__1069*
Tip holder	► 20	<b>for contact tip M8</b>	50	<b>342P008033</b>
	20	for contact tip M8, 4 mm longer version	50	342P008133
	21	for contact tip M6	50	342P006033
	21	for contact tip M6, 4 mm longer version	50	342P006133
Gas diffusor	► 30	<b>Thermoset, black</b>	50	<b>130P002026</b>
	—	Ceramic	10	130P002019
Gas nozzles	► 40	<b>NW 16 mm, L= 75.5 mm, conical</b>	10	<b>345P012030</b>
	41	NW 16 mm, L= 75.5 mm, conical, Heavy Duty	10	345P012032
	42	NW 14 mm, L= 75.5 mm, conical	10	345P013030
	43	NW 12 mm, L= 75.5 mm, conical, for M6	10	345P016030
	44	NW 20 mm, L= 75.5 mm, cylindrical	10	345P011030
	45	NW 20 mm, L= 85 mm, spot welding nozzle	10	345P015030
Spare parts	51	Insulating washer	10	130P002004
	—	Insulating washer, glas fiber	10	130P002007

Wire guides	Ø	colour	3 m	4 m	5 m
Liners for steel wire 	1.0 - 1.2	not insul.	► <b>322P204534</b>	► <b>322P204544</b>	► <b>322P204554</b>
	1.2 - 1.6	not insul.	322P254534	322P254544	322P254554
PTFE liners for aluminum and stainless steel wire 	1.0 - 1.2	red	326P204035	326P204045	326P204055
	1.2 - 1.6	yellow	326P274735	326P274745	326P274755
PA liners with bronze liner for aluminium 	0.8 - 1.0	anthracite	328P20403A	328P20404A	328P20405A
	1.2 - 1.6	anthracite	328P23473A	328P23474A	328P23475A

► = Standard equipment

\* At the blank, please insert suitable information for wire diameter, e.g. 08 for 0.8 mm.