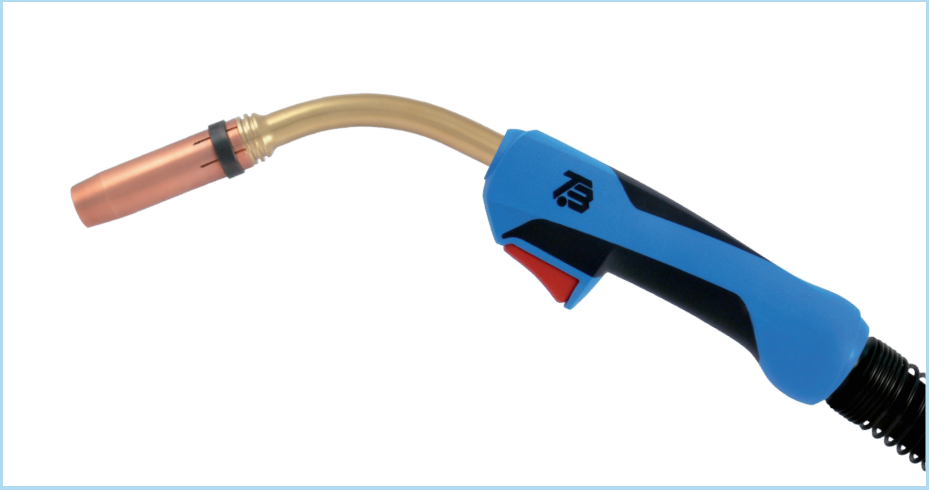
TBi Industries

MIG/MAG Welding Torches
Core Selection



CONTENTS

Gas cooled MIG/MAG welding torches	**4 ... 13**
TBi 150	4 ... 5
TBi 240	6 ... 7
TBi 250	8 ... 9
TBi 260	10 ... 11
TBi 360	12 ... 13
Liquid cooled MIG/MAG welding torches	**14 ... 17**
TBi 241	14 ... 15
TBi 411	16 ... 17
TBi 511	16 ... 17

TBi Industries GmbH

TBi Industries GmbH is a German provider of high quality welding equipment specialized on development and production of MIG/MAG and TIG Torches for industrial use.

TBi Industries is part of the ESAB group, a world leading manufcturer of welding consumables and welding and cutting equipment. ESAB, operating in almost all countries worldwide, has more than 8.700 employees and production facilities on 4 continents.

This Core Selection catalogue highlights the most commonly used MIG/MAG Torches in the TBi Expert series and corresponding wearparts.

TBi Expert series has been designed with perfect ergonomics and appealing looks. The soft rubber areas directly integrated in the handle assure comfortable and slip-proof handling.

For our full assortment of MIG/MAG, TIG and Fume Extraction Torches please check the catalogues below

TBi 150 Expert

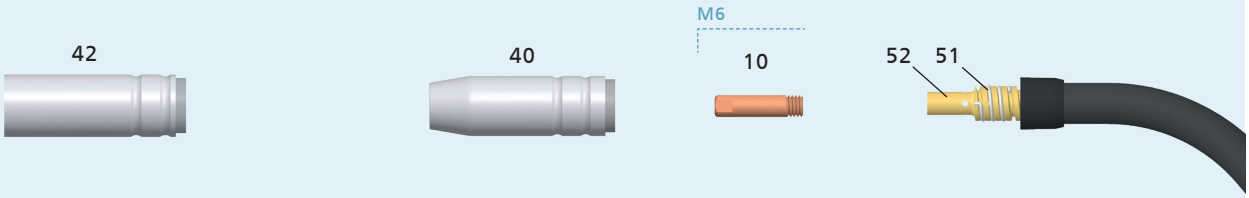
Technical data

Cooling method	Gas cooled
Recommended wire diameter	0.6 - 1.0 mm
Gas flow	10 l/min
Technical specification	According to IEC 60974-7

Ordering information

Model	Rating at 60% duty cycle (10 min. cycle) Mix gas (M21)	CO_2	Length	TBi part no.
TBi 150 Expert	150	170	3 m.	102P321030
TBi 150 Expert	150	170	4 m.	102P321040

Supplied equipped for Ø 0.8 mm steel wire. Liner blue (Ø 0.8 -1.0) mm.



	Pos.	Description	TBi part no.
Contact tip	10	NW 0.6 mm, M6 x 25, ECu	340P061073
	10	NW 0.8 mm, M6 x 25, ECu	340P081073
	10	NW 1.0 mm, M6 x 25, ECu	340P101073
Gas nozzle	▶ 40	NW 12 mm, standard, L= 54 mm	345P012002
	42	NW 16 mm, cylindrical, L= 53 mm, long insulation	345P011402
Spare parts	51	Nozzle spring TBi 150	102P002011
	52	Nozzle holder TBi 150 without nozzle spring	102P002037

Wire guides	Ø	Colour	Length	TBi part no.
Liners for steel wire	0.6 - 0.9	white	3 m.	324P133834
	0.6 - 0.9	white	4 m.	324P133844
	0.8 - 1.0	blue	3 m.	324P154534
	0.8 - 1.0	blue	4 m.	324P154544
PTFE liner for aluminium and stainless steel wire	0.8 - 1.0	blue	3 m.	326P154035
	0.8 - 1.0	blue	4 m.	326P154045

▶ = Standard

TBi 240 Expert

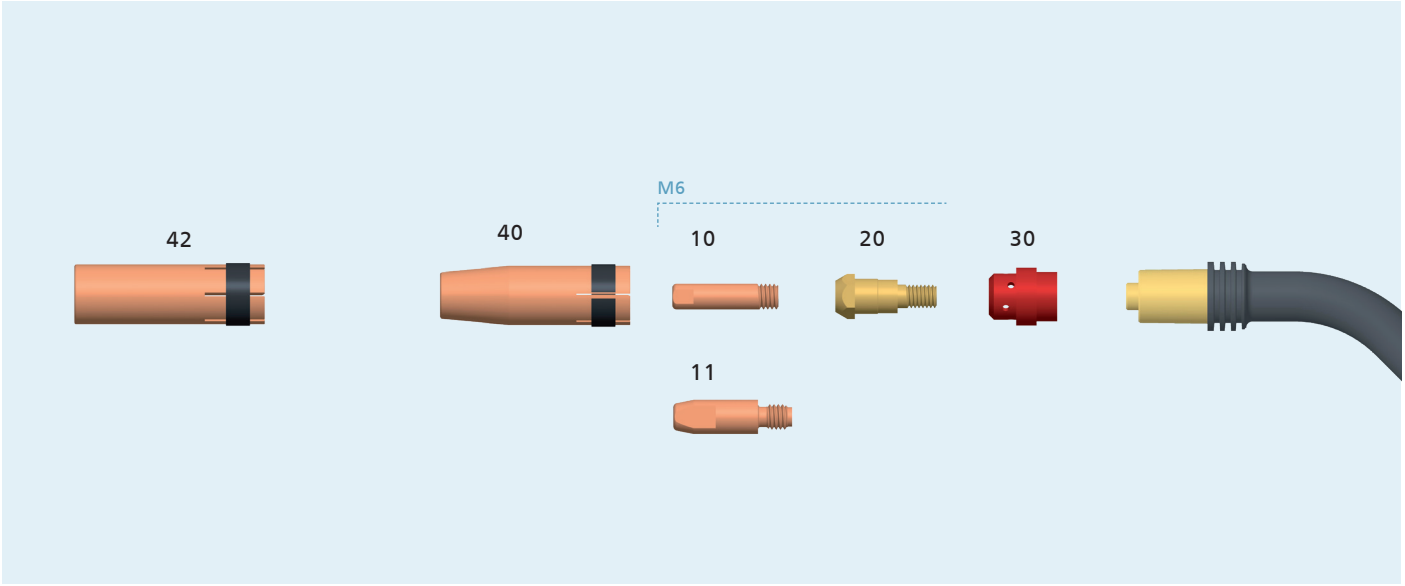
Technical data

Cooling method	Gas cooled
Recommended wire diameter	0.8 - 1.2 mm
Gas flow	12 l/min
Technical specification	According to IEC 60974-7

Ordering information

Model	Rating at 60% duty cycle (10 min. cycle) Mix gas (M21)	CO_2	Length	TBi part no.
TBi 240 Expert	210	220	3 m.	112P321030
TBi 240 Expert	210	220	4 m.	112P321040

Supplied equipped for Ø 1.0 mm steel wire. Liner red (Ø 1.0 -1.2 mm).



	Pos.	Description	TBi part no.
Contact tip	10	NW 0.8 mm, M6 x 25, ECu	340P081073
	10	NW 1.0 mm, M6 x 25, ECu	340P101073
	10	NW 1.2 mm, M6 x 25, ECu	340P121073
	11	NW 0.8 mm, M6 x 28, ECu	340P081069
	11	NW 1.0 mm, M6 x 28, ECu	340P101069
	11	NW 1.2 mm, M6 x 28, ECu	340P121069
Tip adapter	20	for contact tip M6	342P006012
Gas diffuser	30	Rubber, red	112P002019
	—	Thermoset, black	112P002024
Gas nozzle	▶ 40	NW 12.5 mm, standard, L= 63.5 mm	345P012012
	42	NW 17 mm, cylindrical, L= 63.5 mm	345P011012

Wire guides	Ø	Colour	Length	TBi part no.
Liners for steel wire	0.8 - 1.0	blue	3 m.	324P154534
	0.8 - 1.0	blue	4 m.	324P154544
	1.0 - 1.2	red	3 m.	324P204534
	1.0 - 1.2	red	4 m.	324P204544
PTFE liner for aluminium and stainless steel wire	0.8 - 1.0	blue	3 m.	326P154035
	0.8 - 1.0	blue	4 m.	326P154045
	1.0 - 1.2	red	3 m.	326P204035
	1.0 - 1.2	red	4 m.	326P204045

▶ = Standard

TBi 250 Expert

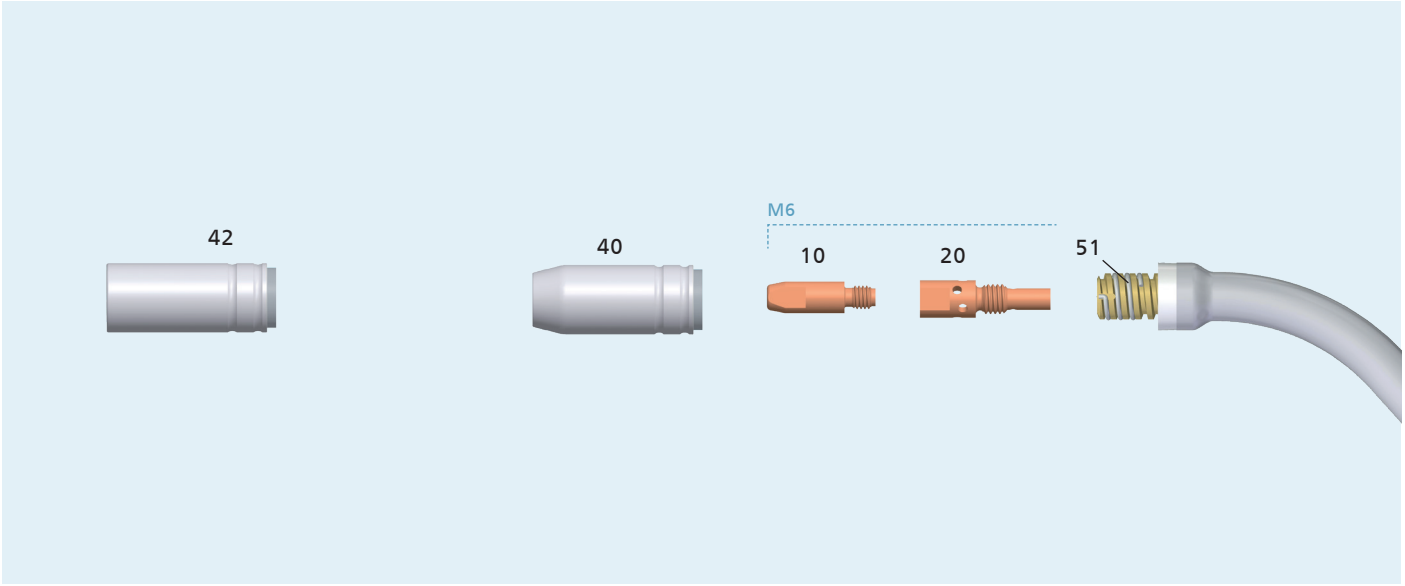
Technical data

Cooling method	Gas cooled
Recommended wire diameter	0.8 - 1.2 mm
Gas flow	12 l/min
Technical specification	According to IEC 60974-7

Ordering information

Model	Rating at 60% duty cycle (10 min. cycle) Mix gas (M21)	CO_2	Length	TBi part no.
TBi 250 Expert	200	230	3 m.	104P321030
TBi 250 Expert	200	230	4 m.	104P321040

Supplied equipped for Ø 1.0 mm steel wire. Liner red (Ø 1.0 -1.2 mm).



	Pos.	Description	TBi part no.
Contact tip	10	NW 0.8 mm, M6 x 28, ECu	340P081069
	10	NW 1.0 mm, M6 x 28, ECu	340P101069
	10	NW 1.2 mm, M6 x 28, ECu	340P121069
	10	NW 0.8 mm, M8 x 30, CuCrZr	340P083069
	10	NW 1.0 mm, M8 x 30, CuCrZr	340P103069
	10	NW 1.2 mm, M8 x 30, CuCrZr	340P123069
Tip adapter	20	for contact tip M6	342P006003
Gas nozzle	▶ 40	NW 15 mm, standard, L= 56.8 mm	345P012003
	42	NW 20 mm, cylindrical, L= 56.2 mm, long insulation	345P011303
Spare parts	51	Nozzle spring TBi 250	103P002006

Wire guides	Ø	Colour	Length	TBi part no.
Liners for steel wire	0.8 - 1.0	blue	3 m.	324P154534
	0.8 - 1.0	blue	4 m.	324P154544
	1.0 - 1.2	red	3 m.	324P204534
	1.0 - 1.2	red	4 m.	324P204544
PTFE liner for aluminium and stainless steel wire	0.8 - 1.0	blue	3 m.	326P154035
	0.8 - 1.0	blue	4 m.	326P154045
	1.0 - 1.2	red	3 m.	326P204035
	1.0 - 1.2	red	4 m.	326P204045

▶ = Standard

TBi 260 Expert

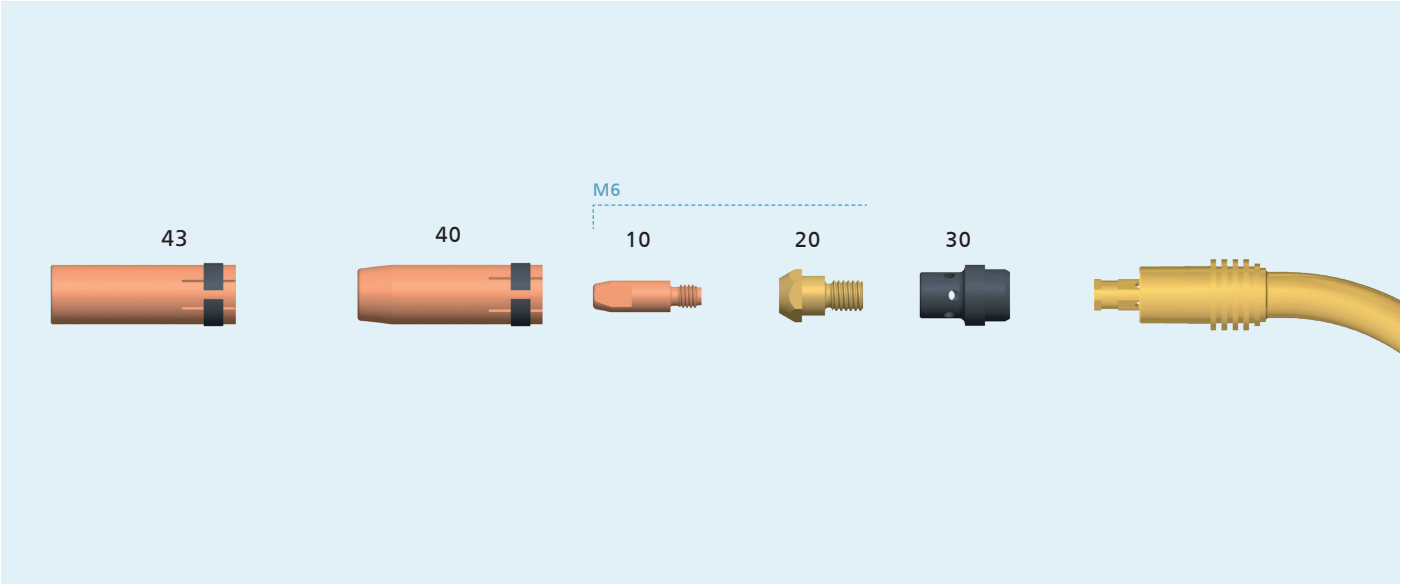
Technical data

Cooling method	Gas cooled
Recommended wire diameter	1.0 - 1.2 mm
Gas flow	12 l/min
Technical specification	According to IEC 60974-7

Ordering information

Model	Rating at 60% duty cycle (10 min. cycle) Mix gas (M21)	CO_2	Length	TBi part no.
TBi 260 Expert	230	250	3 m.	118P321030
TBi 260 Expert	230	250	4 m.	118P321040

Supplied equipped for Ø 1.0 mm steel wire. Liner red (Ø 1.0 -1.2 mm).



	Pos.	Description	TBi part no.
Contact tip	10	NW 1.0 mm, M6 x 28, ECu	340P101069
	10	NW 1.2 mm, M6 x 28, ECu	340P121069
	10	NW 1.0 mm, M6 x 28, CuCrZr	340P103069
	10	NW 1.2 mm, M6 x 28, CuCrZr	340P123069
Tip adapter	20	for contact tip M6	342P006018
Gas diffuser	30	Thermoset, black	118P002021
Gas nozzle	▶ 40	NW 16 mm, standard, L=75.5 mm	345P012030
	43	NW 20 mm, cylindrical, L=75.5 mm	345P011030

Wire guides	Ø	Colour	Length	TBi part no.
Liners for steel wire	1.0 - 1.2	red	3 m.	324P204534
	1.0 - 1.2	red	4 m.	324P204544
PTFE liner for aluminium and stainless steel wire	1.0 - 1.2	red	3 m.	326P204035
	1.0 - 1.2	red	4 m.	326P204045

▶ = Standard

TBi 360 Expert

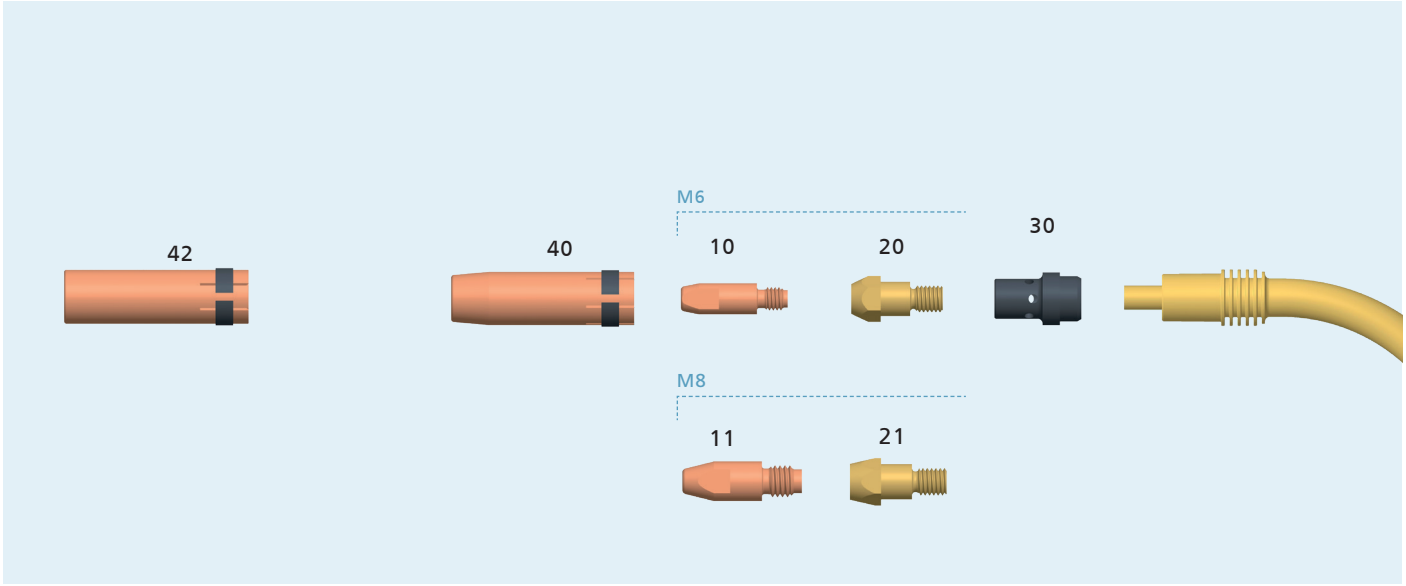
Technical data

Cooling method	Gas cooled
Recommended wire diameter	1.0 - 1.6 mm
Gas flow	16 l/min
Technical specification	According to IEC 60974-7

Ordering information

Model	Rating at 60% duty cycle (10 min. cycle) Mix gas (M21)	CO_2	Length	TBi part no.
TBi 360 Expert	300	330	3 m.	114P321030
TBi 360 Expert	300	330	4 m.	114P321040

Supplied equipped for Ø 1.2 mm steel wire. Liner red (Ø 1.0 -1.2 mm).



		Pos.	Description	TBi part no.
Contact tip		10	NW 1.0 mm, M6 x 28, ECu	340P101069
		10	NW 1.2 mm, M6 x 28, ECu	340P121069
		10	NW 1.0 mm, M6 x 28, CuCrZr	340P103069
		10	NW 1.2 mm, M6 x 28, CuCrZr	340P123069
		11	NW 1.0 mm, M8 x 30, ECu	340P101262
		11	NW 1.2 mm, M8 x 30, ECu	340P121262
		11	NW 1.0 mm, M8 x 30, CuCrZr	340P103262
		11	NW 1.2 mm, M8 x 30, CuCrZr	340P123262
Tip adapter		20	for contact tip M6	342P006014
		21	for contact tip M8	342P008014
Gas diffuser		30	Thermoset, black	114P002007
Gas nozzle	▶	40	NW 16 mm, standard, L=83.5 mm	345P012010
		42	NW 20 mm, cylindrical, L=83.5 mm	345P011010

Wire guides	Ø	Colour	Length	TBi part no.
Liners for steel wire	1.0 - 1.2	red	3 m.	324P204534
	1.0 - 1.2	red	4 m.	324P204544
	1.2 - 1.6	yellow	3 m.	324P254534
	1.2 - 1.6	yellow	4 m.	324P254544
PTFE liner for aluminium and stainless steel wire	1.0 - 1.2	red	3 m.	326P204035
	1.0 - 1.2	red	4 m.	326P204045
	1.2 - 1.6	yellow	3 m.	326P274735
	1.2 - 1.6	yellow	4 m.	326P274745

▶ = Standard

TBi 241 Expert

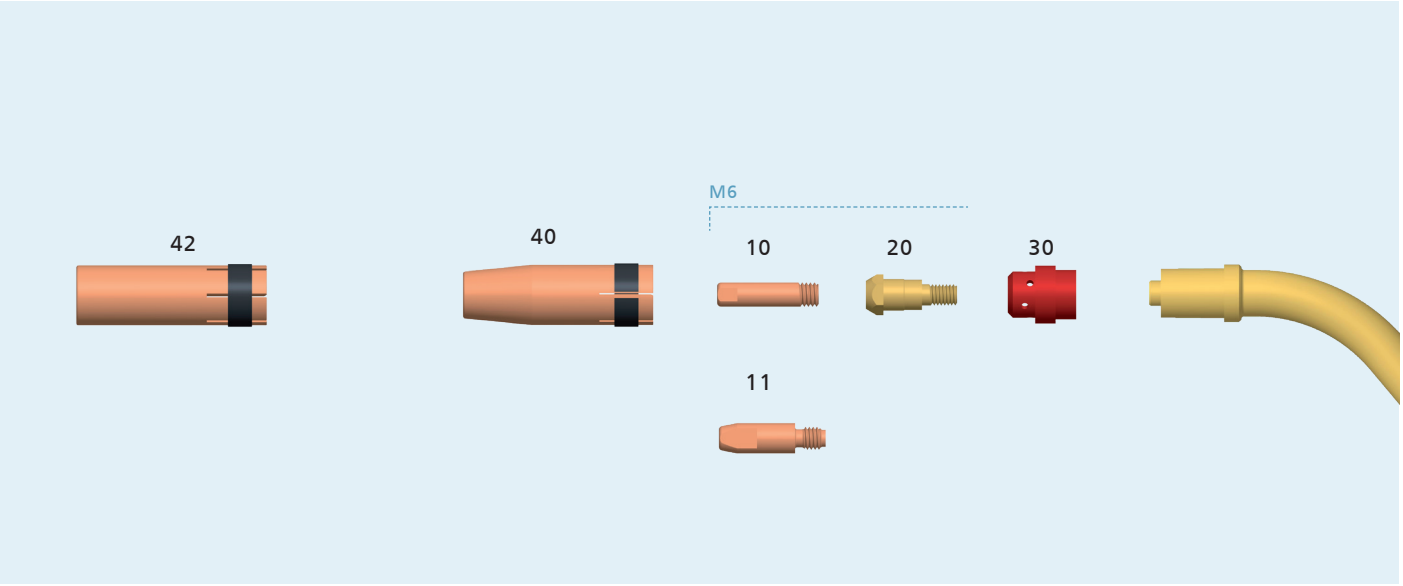
Technical data

Cooling method	Liquid cooled
Recommended wire diameter	0.8 - 1.2 mm
Gas flow	14 l/min
Technical specification	According to IEC 60974-7

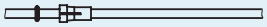
Ordering information

Model	Rating at 100% duty cycle (10 min. cycle) Mix gas (M21)	CO_2	Length	TBi part no.
TBi 241 Expert	270	300	3 m.	123P421030
TBi 241 Expert	270	300	4 m.	123P421040

Supplied equipped for Ø 1.0 mm steel wire. Liner not insul. (Ø 1.0 -1.2 mm).

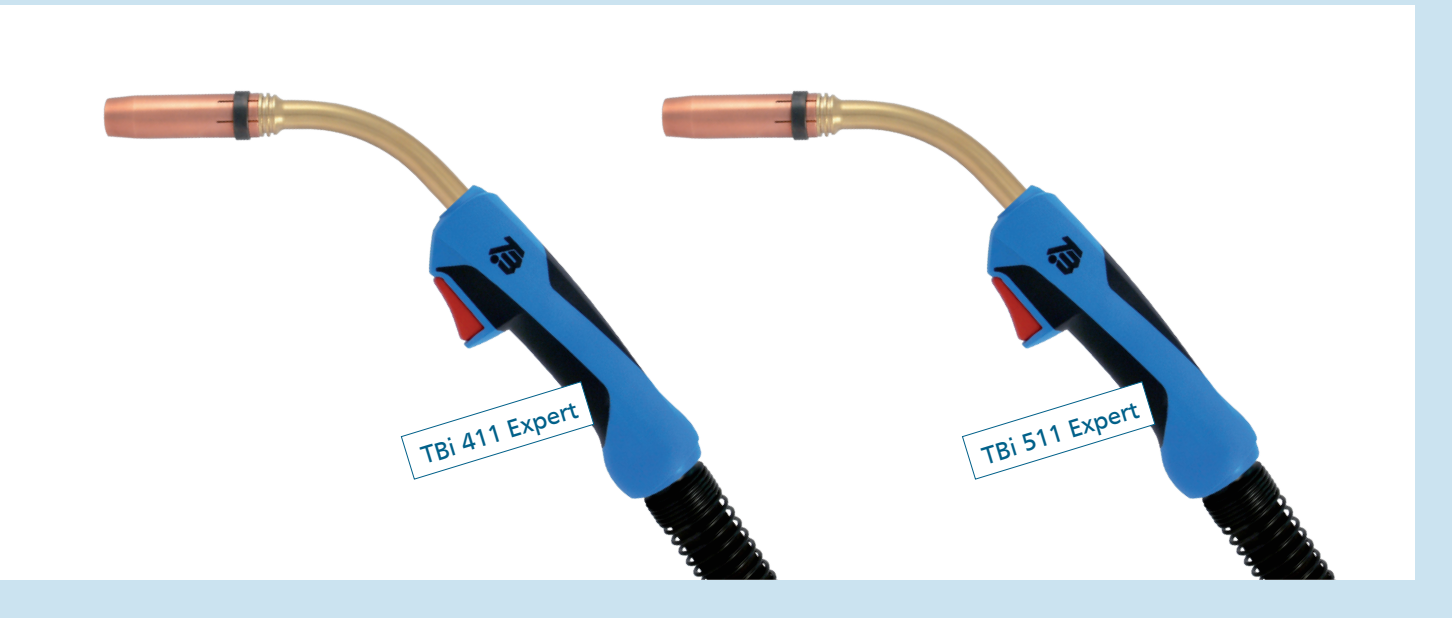


	Pos.	Description	TBi part no.
Contact tip	10	NW 0.8 mm, M6 x 25, ECu	340P081073
	10	NW 1.0 mm, M6 x 25, ECu	340P101073
	10	NW 1.2 mm, M6 x 25, ECu	340P121073
	11	NW 0.8 mm, M6 x 28, ECu	340P081069
	11	NW 1.0 mm, M6 x 28, ECu	340P101069
	11	NW 1.2 mm, M6 x 28, ECu	340P121069
Tip adapter	20	for contact tip M6	342P006012
Gas diffuser	30	Rubber, red	112P002019
	—	Thermoset, black	112P002024
Gas nozzle	▶ 40	NW 12.5 mm, standard, L= 63.5 mm	345P012012
	42	NW 17 mm, cylindrical, L= 63.5 mm	345P011012

Wire guides	Ø	Colour	Length	TBi part no.
Liners for steel wire	0.8 - 1.0	blue	3 m.	324P154534
	0.8 - 1.0	blue	4 m.	324P154544
	1.0 - 1.2	not insul.	3 m.	322P204534
	1.0 - 1.2	not insul.	4 m.	322P204544
PTFE liner for aluminium and stainless steel wire 	0.8 - 1.0	blue	3 m.	326P154035
	0.8 - 1.0	blue	4 m.	326P154045
	1.0 - 1.2	red	3 m.	326P204035
	1.0 - 1.2	red	4 m.	326P204045

▶ = Standard

TBi 411 / 511 Expert



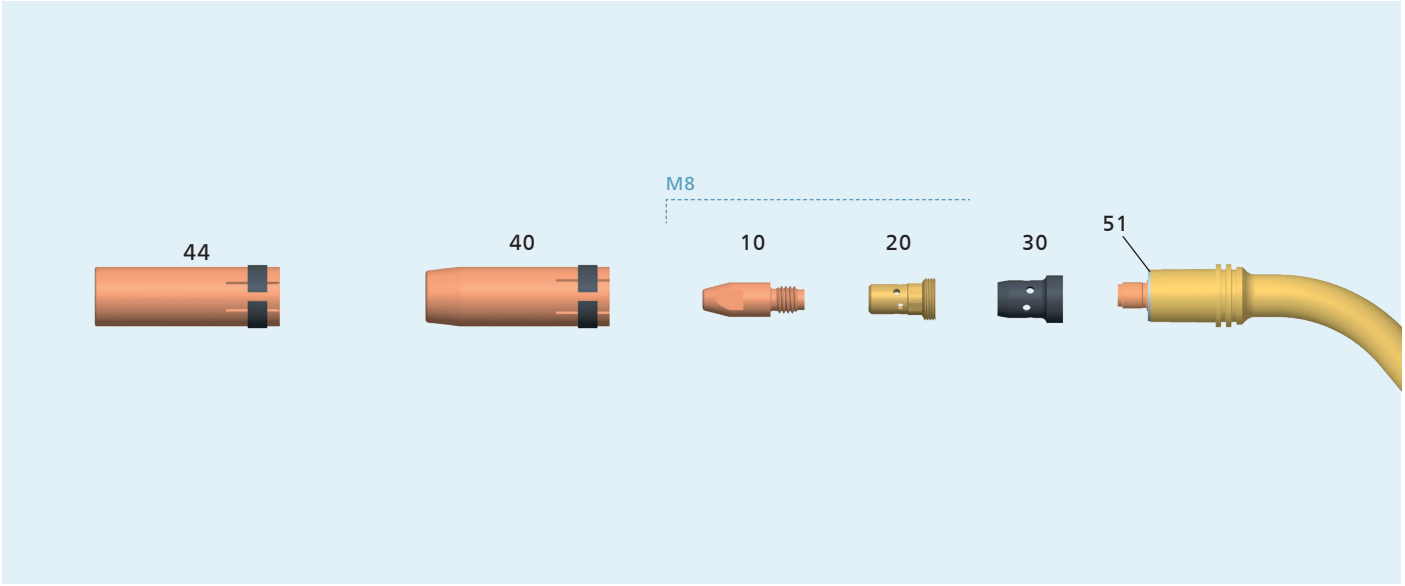
Technical data

Cooling method	Liquid cooled
Recommended wire diameter	1.0 - 1.6 mm
Gas flow	16 l/min
Technical specification	According to IEC 60974-7

Ordering information

Modell	Rating at 100% duty cycle (10 min. cycle) Mix gas (M21)	CO_2	Length	TBi part no.
TBi 411 Expert	450	500	4 m.	133P421040
TBi 411 Expert	450	500	5 m.	133P421050
TBi 511 Expert	450	500	4 m.	134P421040
TBi 511 Expert	450	500	5 m.	134P421050

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



	Pos.	Description	TBi part no.
Contact tip	10	NW 1.0 mm, M8 x 30, ECu	340P101262
	10	NW 1.2 mm, M8 x 30, ECu	340P121262
	10	NW 1.6 mm, M8 x 30, ECu	340P161262
	10	NW 1.0 mm, M8 x 30, CuCrZr	340P103262
	10	NW 1.2 mm, M8 x 30, CuCrZr	340P123262
	10	NW 1.6 mm, M8 x 30, CuCrZr	340P163262
Tip adapter	20	for contact tip M8	342P008033
Gas diffuser	30	Thermoset, black	130P002026
Gas nozzle	▶ 40	NW 16 mm, standard, L= 75.5 mm	345P012030
	44	NW 20 mm, cylindrical, L=75.5mm	345P011030
Spare parts	51	Insulation washer	130P002004

Wire guides	Ø	Colour	Length	TBi part no.
Liners for steel wire	1.0 - 1.2	not insul.	4 m.	322P204544
	1.0 - 1.2	not insul.	5 m.	322P204554
	1.2 - 1.6	not insul.	4 m.	322P254544
	1.2 - 1.6	not insul.	5 m.	322P254554
PTFE liner for aluminium and stainless steel wire	1.0 - 1.2	red	4 m.	326P204045
	1.0 - 1.2	red	5 m.	326P204055
	1.2 - 1.6	yellow	4 m.	326P274745
	1.2 - 1.6	yellow	5 m.	326P274755

▶ = Standard

NOTES

Ready for Tomorrow.

© 2021 **TBi** Industries GmbH. All rights reserved. Subject to change without notice. Excerpts and reprints not permitted. 05/2021.

TBi Industries GmbH
Ruhberg 14
35463 Fernwald-Steinbach
Germany

Tel. + 49 6404 9171-0
Fax. + 49 6404 9171-58
www.tbi-industries.com
info@tbi-industries.com