

MIG/MAG Welding torches

TBi Classic



Gas cooled torches

 TBi 140 / 145 60% (10 min.) Mix: 140 A CO₂: 160 A Ø 0.6-1.0 mm Page 4-5	 TBi 150 (FX, DR) 60% (10 min.) Mix: 150 A CO₂: 180 A Ø 0.6-1.0 mm Page 6-7	 TBi 230 60% (10 min.) Mix: 200 A CO₂: 230 A Ø 0.8-1.2 mm Page 8-9
 TBi 240 (DR) 60% (10 min.) Mix: 210 A (DR: 200 A) CO₂: 240 A (DR: 230 A) Ø 0.8-1.2 mm Page 10-11	 TBi 250 (FX, DR) 60% (10 min.) Mix: 200 A CO₂: 230 A Ø 0.8-1.2 mm Page 12-13	
 TBi 260 60% (10 min.) Mix: 240 A CO₂: 270 A Ø 1.0-1.2 mm Page 14-15	 TBi 360 (DR) 60% (10 min.) Mix: 300 A (DR: 260 A) CO₂: 330 A (DR: 290 A) Ø 1.0-1.6 mm Page 16-17	 TBi 380 60% (10 min.) Mix: 360 A CO₂: 380 A Ø 1.2-1.6 mm Page 18-19

Water cooled torches

 TBi 241 100% (10 min.) Mix: 270 A CO₂: 300 A Ø 0.8-1.2 mm Page 20-21	 TBi 351 100% (10 min.) Mix: 270 A CO₂: 300 A Ø 0.8-1.2 mm Page 22-23	 TBi 411 100% (10 min.) Mix: 350 A CO₂: 400 A Ø 1.0-1.6 mm Page 24-25	 TBi 511 100% (10 min.) Mix: 450 A CO₂: 500 A Ø 1.0-1.6 mm Page 24-25
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Wire guides

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Remote Control Modules

Page 27

Technical Data

Rating at 60% duty cycle
(10 min. cycle)

- Mixed gas: 140 A
- CO₂: 160 A

Cooling method Gas cooling

Wire diameter 0.6 - 1.0 mm

Gas flow 6 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.	Part no.
M6	► 10 ECu, M6x25	340P__1073*
	CuCrZr, M6x25	340P__3073*
	Alu, ECu, M6x25	341P__1073*

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

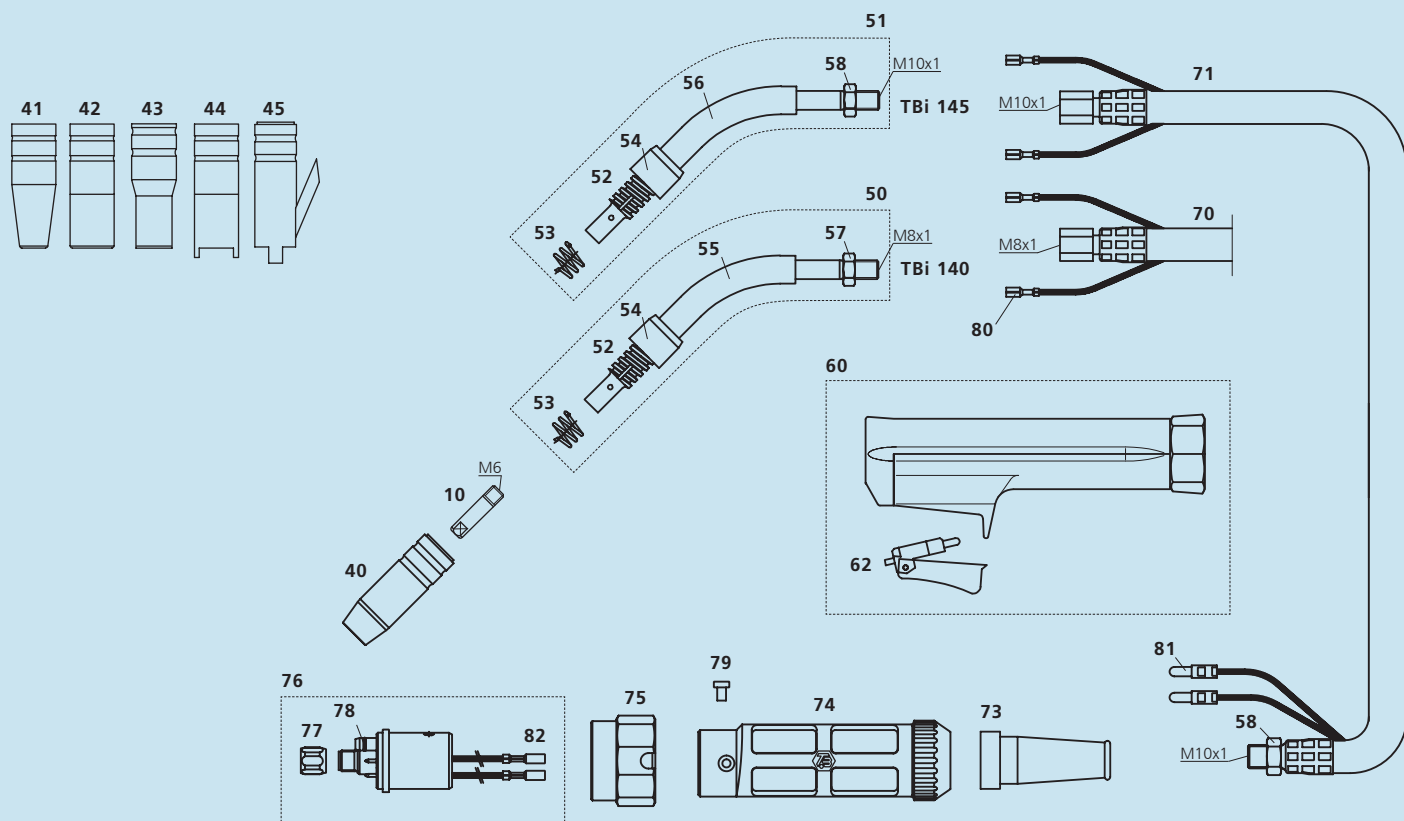
Ordering information for torches

Supplied equipped for steel wire Ø 0.8 mm

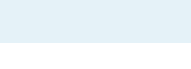
TBi 140	Euro central connector, torch neck 45° bent	3 m	106P311330
		4 m	106P311340
		5 m	106P311350
TBi 145	Euro central connector, torch neck 45° bent	3 m	101P311330
		4 m	101P311340
		5 m	101P311350

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 140, 45°	106P001022
51	Torch neck TBi 145, 45°	101P001001
52	Nozzle support TBi 150 w/o spring	102P002037
53	Nozzle spring TBi 140/145/150	102P002011
54	Head insulator TBi 140/145/150	102P002003
55	Rubber hose 8x2.0 mm	310P082002
56	Rubber hose 10x2.0 mm	310P102102
57	Hex nut M8x1	106P002023
58	Hex nut M10x1	101P002005
60	Handle small, blue, cpl. (TBi 140)	380P212005
60	Handle small, blue, cpl. (TBi 145)	380P220001
62	Trigger, red, 2 poles	385P021016



Gas nozzle

	Pos.	Description	Part no.
	40	conical, NW 12 mm L= 54 mm	345P012002
	41	conical, NW 12 mm long insulation L= 53 mm	345P012402
	42	conical, NW 9.5 mm L= 53 mm	345P013002
	43	cylindrical, NW 16 mm long insulation L= 53 mm	345P011402

	Pos.	Description	Part no.
	44	spot welding nozzle, NW 16 mm, long insulation L= 60 mm	345P015402
	45	nozzle for nails, NW 16 mm L= 60 mm	345P015502

Pos.	Description	Part no.
70	Coaxial cable (TBi 140)	359P1441_0*
71	Coaxial cable (TBi 145)	359P1451_0*
73	Cable support 16-50 sqmm	600P002106
74	Cable support cpl. (2 pieces)	701P001045
75	PVC adaptor nut	701P002081
76	Central adaptor ESG cpl., 2 poles, moveable pins	701P001048
77	Sleeve nut M10x1	701P002005
78	O-ring 4.0x1.0 mm (gas nipple)	365P100040
79	Slotted screw M4x6	100P008401

Pos.	Description	Part no.
80	Cable lug, flat	375P000023
81	Insulated connector, male, round	375P000004
82	Insulated connector, female, round	375P000003

Technical Data

Rating at 60% duty cycle
(10 min. cycle)

- Mixed gas: 150 A
- CO₂: 180 A

Cooling method Gas cooling

Wire diameter 0.6 - 1.0 mm

Gas flow 8 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.	Part no.
M6	► 10 ECu, M6x25	340P__1073*
	CuCrZr, M6x25	340P__3073*
	Alu, ECu, M6x25	341P__1073*

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

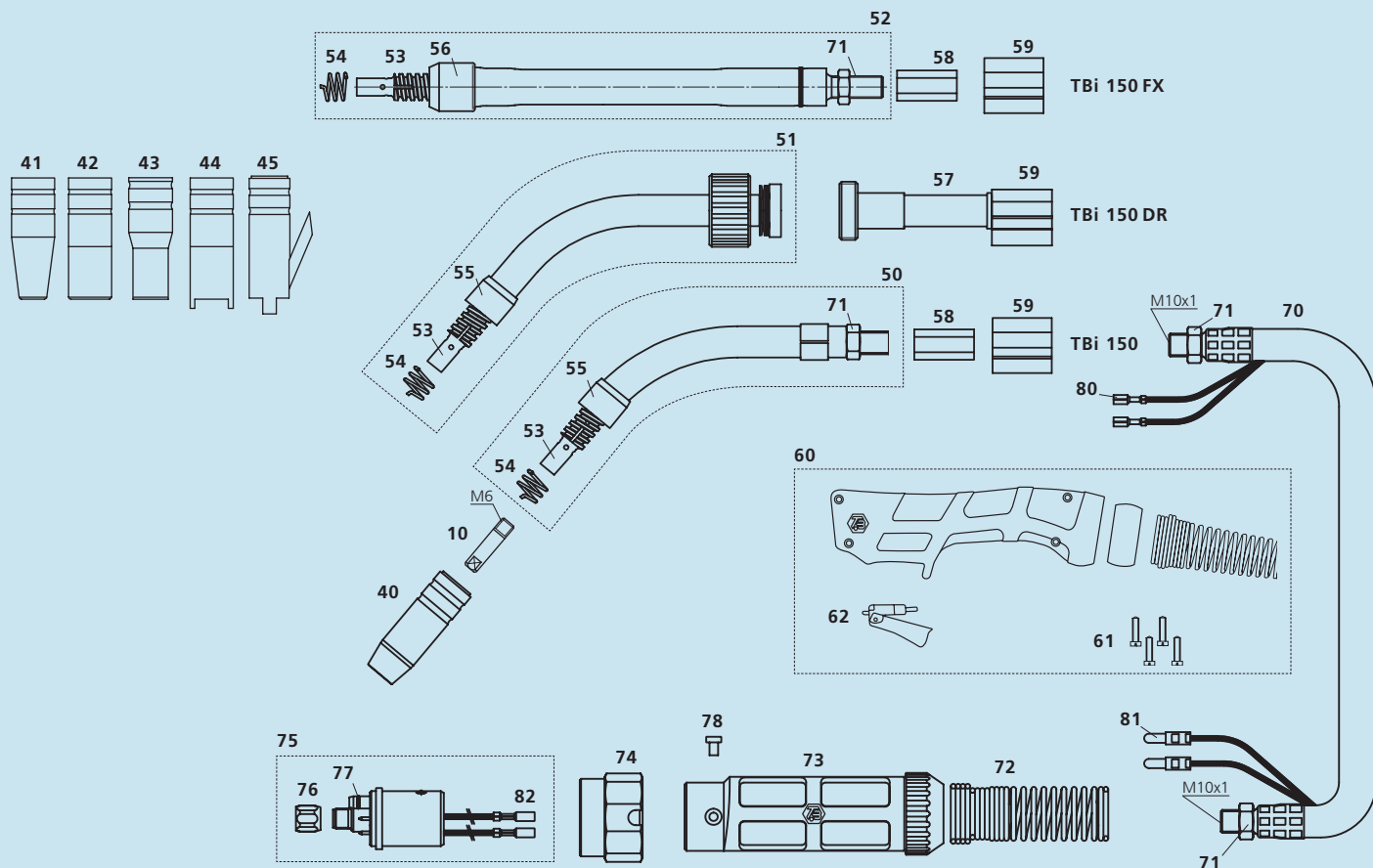
Ordering information for torches

Supplied equipped for steel wire Ø 0.8 mm

TBi 150	Euro central connector, torch neck 50° bent	3 m	102P341330
		4 m	102P341340
		5 m	102P341350
TBi 150 FX	Euro central connector, flexible torch neck	3 m	102P34133F
		4 m	102P34134F
		5 m	102P34135F
TBi 150 DR	Euro central connector, changeable swivel neck, torch neck 45° bent	3 m	102P34133D
		4 m	102P34134D
		5 m	102P34135D

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 150, 50°	102P001002
51	Torch neck TBi 150 DR (swivel), 45°	102P001029
52	Torch neck TBi 150 FX (flexible)	102P001021
53	Nozzle support TBi 150 w/o spring	102P002037
54	Nozzle spring TBi 140/145/150	102P002011
55	Head insulator TBi 140/145/150	102P002003
56	Head insulator TBi 150 FX	102P002036
57	Support for DR necks	600P101045
58	Hex brass body M10x1	600P002126
59	PVC body	600P002017
60	Handle blue, aircooled, cpl. kit	380P220400
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016



Gas nozzle



Pos. **40** conical, NW 12 mm
L= 54 mm Part no. **345P012002**

40 conical, NW 12 mm
long insulation
L= 53 mm Part no. 345P012402



41 conical, NW 9.5 mm
L= 53 mm Part no. 345P013002



42 cylindrical, NW 16 mm
long insulation
L= 53 mm Part no. 345P011402



Pos. **43** bottle form, NW 12.5 mm
L= 53 mm Part no. **345P014002**



44 spot welding nozzle,
NW 16 mm, long insulation
L= 60 mm Part no. 345P015402



45 nozzle for nails,
NW 16 mm
L= 60 mm Part no. 345P015502

Pos.	Description	Part no.
70	Coaxial cable TBi ProFlex S	361P0S11_0*
71	Hex nut M10x1	101P002005
72	Spring support small 16-50 sqmm	600P102099
73	Cable support cpl. (2 pieces)	701P001045
74	PVC adaptor nut	701P002081
75	Central adaptor ESG cpl., 2 poles, moveable pins	701P001048
76	Sleeve nut M10x1	701P002005
77	O-ring 4.0x1.0 mm (gas nipple)	365P100040
78	Slotted screw M4x6	100P008401

Pos.	Description	Part no.
80	Cable lug, flat	375P000023
81	Insulated connector, male, round	375P000004
82	Insulated connector, female, round	375P000003

Technical Data

Rating at 60% duty cycle
(10 min. cycle)

- Mixed gas: 200 A
- CO₂: 230 A

Cooling method Gas cooling

Wire diameter 0.8 - 1.2 mm

Gas flow 10 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.		Part no.
M6	► 10	ECu, M6 x 25	340P__1073*
		CuCrZr, M6 x 25	340P__3073*
		Alu, ECu, M6 x 25	341P__1073*

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

Tip holder

	Pos.		Part no.
	► 20	for contact tip M6	342P006012

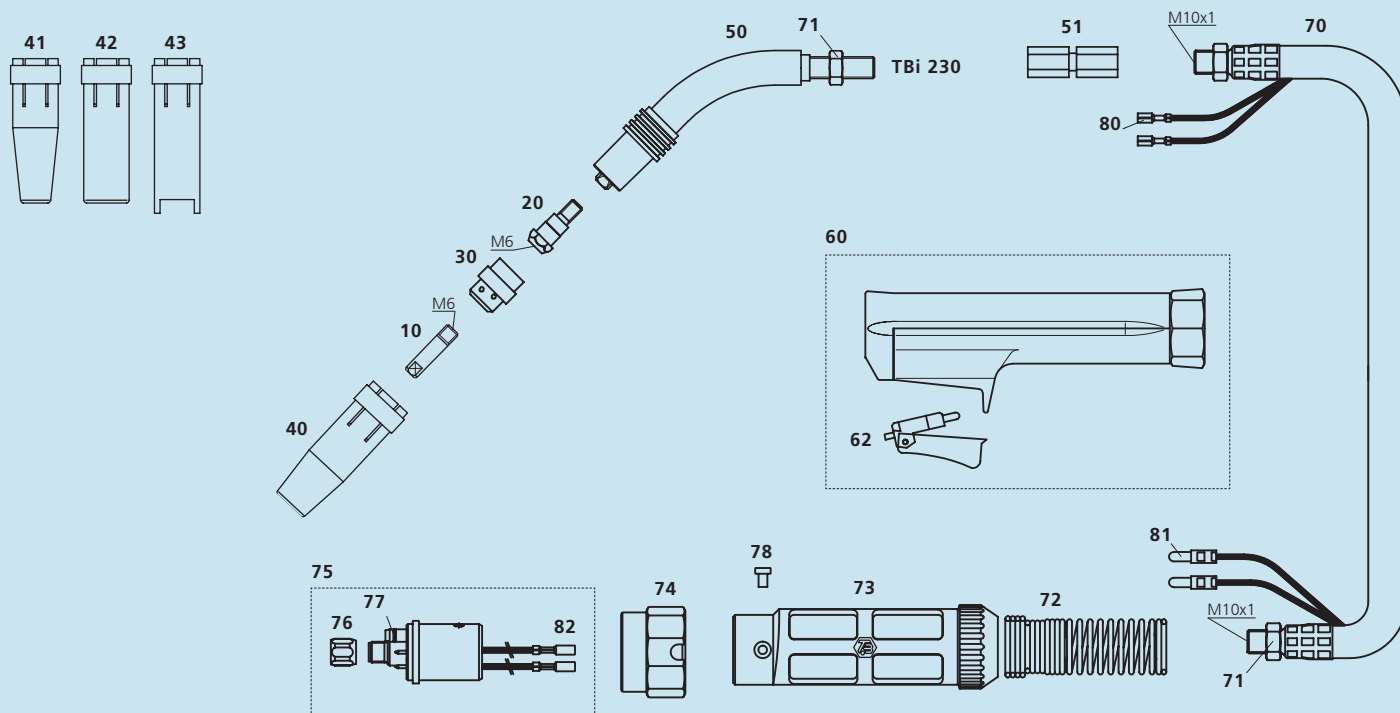
Ordering information for torches

Supplied equipped for steel wire Ø 1.0 mm

TBi 230	Euro central connector, torch neck 50° bent	3 m	105P311330
		4 m	105P311340
		5 m	105P311350

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 230, 50°	105P001030
51	Hex-connector M10x1	600P102002
60	Handle small, blue, cpl. (TBi 230)	380P220001
62	Trigger, red, 2 poles	385P021016



Gas diffuser



Pos.		Part no.
30	rubber, red long life	112P002019
	thermoset, black, very robust	112P002024
	ceramic, white, extremely heat resistant	112P002021

Gas nozzle



Pos.		Part no.
40	conical, NW 12.5 mm L= 63.5 mm	345P012012
40	conical, NW 12.5 mm, Heavy Duty L= 63.5 mm	345P012312
41	conical, NW 10 mm L= 63.5 mm	345P013012
42	cylindrical, NW 17 mm L= 63.5 mm	345P011012
42	cylindrical, NW 17 mm Heavy Duty L= 63.5 mm	345P011312
43	spot welding nozzle, NW 17 mm L= 68 mm	345P015012

Pos.	Description	Part no.
70	Coaxial cable TBi ProFlex M	361P0M11_0*
71	Hex nut M10x1	101P002005
72	Spring support small 16-50 sqmm	600P102099
73	Cable support cpl. (2 pieces)	701P001045
74	Adaptor nut	701P001013
75	Central adaptor ESG cpl., 2 poles, moveable pins	701P001048
76	Sleeve nut M10x1	701P002005
77	O-ring 4.0x1.0 mm (gas nipple)	365P100040
78	Slotted screw M4x6	100P008401

Pos.	Description	Part no.
80	Cable lug, flat	375P000023
81	Insulated connector, male, round	375P000004
82	Insulated connector, female, round	375P000003

Technical Data

Rating at 60% duty cycle
(10 min. cycle)

- Mixed gas: 210 A (DR: 200 A)
- CO₂: 240 A (DR: 230 A)

Cooling method Gas cooling

Wire diameter 0.8 - 1.2 mm

Gas flow 12 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.	Part no.
	► 10 ECu, M6 x 25	340P__1073*
	CuCrZr, M6 x 25	340P__3073*
	Alu, ECu, M6 x 25	341P__1073*
	Pos.	Part no.
	11 ECu, M6 x 28	340P__1069*
	CuCrZr, M6 x 28	340P__3069*
	Alu, ECu, M6 x 28	341P__1069*

M6

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

Tip holder

	Pos.	Part no.
	► 20 for contact tip M6	342P006012

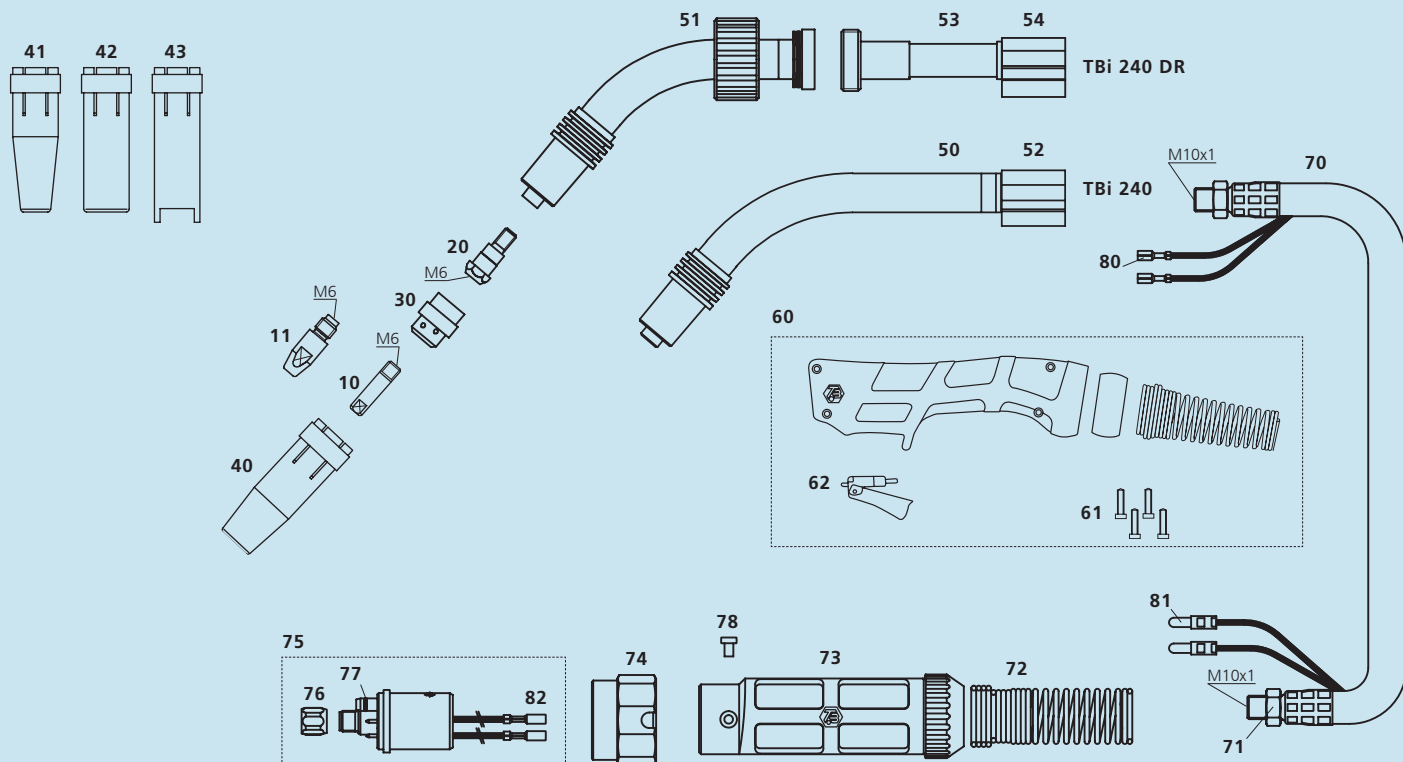
Ordering information for torches

Supplied equipped for steel wire Ø 1.0 mm

TBi 240	Euro central connector, torch neck 50° bent	3 m	112P341330
		4 m	112P341340
		5 m	112P341350
TBi 240 DR	Euro central connector, changeable swivel neck, torch neck 45° bent	3 m	112P34133D
		4 m	112P34134D
		5 m	112P34135D

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 240, 50°	112P001013
51	Torch neck TBi 240 DR (swivel), 45°	112P001024
52	PVC body	600P002018
53	Support for DR necks	600P101045
54	PVC body	600P002017
60	Handle blue, aircooled, cpl. kit	380P220400
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016



Gas diffuser



Pos.		Part no.
30	rubber, red long life	112P002019
	thermoset, black, very robust	112P002024
	ceramic, white, extremely heat resistant	112P002021
	thermoset HD, brown extremely heat resistant	112P002022

Gas nozzle



Pos.		Part no.
40	conical, NW 12.5 mm L= 63.5 mm	345P012012
40	conical, NW 12.5 mm, Heavy Duty L= 63.5 mm	345P012312
41	conical, NW 10 mm L= 63.5 mm	345P013012
42	cylindrical, NW 17 mm L= 63.5 mm	345P011012
42	cylindrical, NW 17 mm Heavy Duty L= 63.5 mm	345P011312
43	spot welding nozzle, NW 17 mm L= 68 mm	345P015012

Pos.	Description	Part no.
70	Coaxial cable TBi ProFlex M	361P0M11_0*
71	Hex nut M10x1	101P002005
72	Spring support small 16-50 sqmm	600P102099
73	Cable support cpl. (2 pieces)	701P001045
74	Adaptor nut	701P001013
75	Central adaptor ESG cpl., 2 poles, moveable pins	701P001048
76	Sleeve nut M10x1	701P002005
77	O-ring 4.0x1.0 mm (gas nipple)	365P100040
78	Slotted screw M4x6	100P008401

Pos.	Description	Part no.
80	Cable lug, flat	375P000023
81	Insulated connector, male, round	375P000004
82	Insulated connector, female, round	375P000003

Technical Data

Rating at 60% duty cycle
(10 min. cycle)

- Mixed gas: 200 A
- CO₂: 230 A

Cooling method Gas cooling

Wire diameter 0.8 - 1.2 mm

Gas flow 10 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

M6		Pos.	Part no.
		► 10 ECu, M6 x 28 CuCrZr, M6 x 28 Alu, ECu, M6 x 28	340P__1069* 340P__3069* 341P__1069*
M8		Pos.	Part no.
		11 ECu, M8 x 30 CuCrZr, M8 x 30 Alu, ECu, M8 x 30	340P__1262* 340P__3262* 341P__1262*

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

Tip holders

	Pos.	Part no.
	► 20 for contact tip M6	342P006003
	Pos.	Part no.
	21 for contact tip M8	342P008003

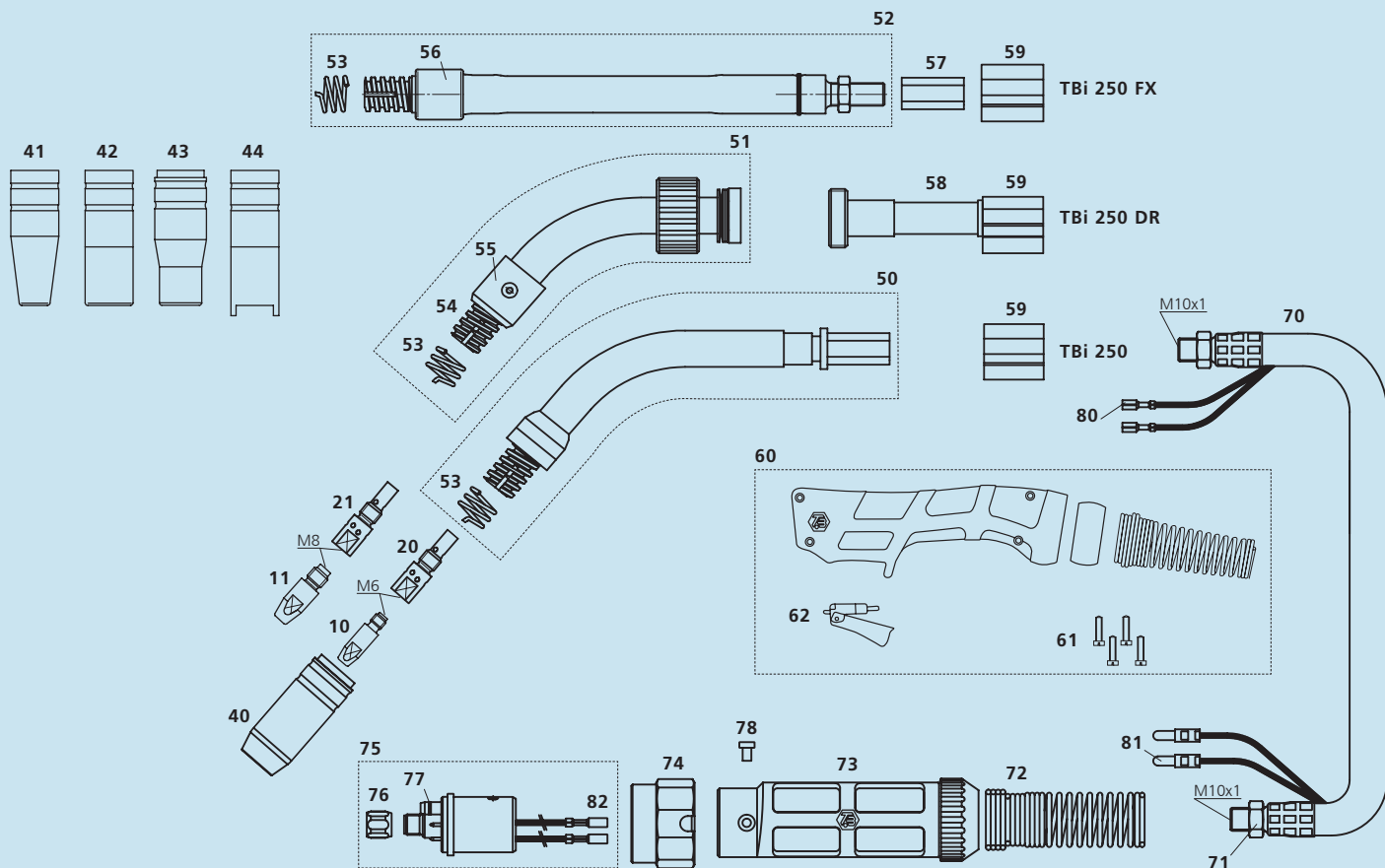
Ordering information for torches

Supplied equipped for steel wire Ø 1.0 mm

TBi 250	Euro central connector, torch neck 50° bent	3 m	104P341330
		4 m	104P341340
		5 m	104P341350
TBi 250 FX	Euro central connector, flexible torch neck	3 m	104P34133F
		4 m	104P34134F
		5 m	104P34135F
TBi 250 DR	Euro central connector, changeable swivel neck, torch neck 45° bent	3 m	104P34133D
		4 m	104P34134D
		5 m	104P34135D

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 250, 50°	104P001008
51	Torch neck TBi 250 DR (swivel), 45°	104P001038
52	Torch neck TBi 250 FX (flexible)	104P001031
53	Nozzle spring TBi 250/252/351	103P002006
54	Nozzle support TBi 250 DR	103P102031
55	Head insulator TBi 250 DR	103P002032
56	Head insulator TBi 250 FX	104P002018
57	Hex brass body M10x1	600P002126
58	Support for DR necks	600P101045
59	PVC body	600P002017
60	Handle blue, aircooled, cpl. kit	380P220400
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016



Gas nozzle

	Pos.	Description	Part no.
	40	conical, NW 15 mm L= 56.8 mm	345P012003
	40	conical, NW 15 mm long insulation L= 56.8 mm	345P012303
	41	conical, NW 11 mm only for M6 L= 56.2 mm	345P013003
	42	cylindrical, NW 20 mm long insulation L= 56.2 mm	345P011303

	Pos.	Description	Part no.
	43	bottle form, NW 14 mm L= 56.2 mm	345P014003
	43	bottle form, NW 11 mm only for M6 L= 56.2 mm	345P014303
	44	spot welding nozzle NW 19 mm, long insulation L= 66.7 mm	345P015503

Pos.	Description	Part no.
70	Coaxial cable TBi ProFlex M	361P0M11_0*
71	Hex nut M10x1	101P002005
72	Spring support small 16-50 sqmm	600P102099
73	Cable support cpl. (2 pieces)	701P001045
74	PVC adaptor nut	701P002081
75	Central adaptor ESG cpl., 2 poles, moveable pins	701P001048
76	Sleeve nut M10x1	701P002005
77	O-ring 4.0x1.0 mm (gas nipple)	365P100040
78	Slotted screw M4x6	100P008401

Pos.	Description	Part no.
80	Cable lug, flat	375P000023
81	Insulated connector, male, round	375P000004
82	Insulated connector, female, round	375P000003

Technical Data

Rating at 60% duty cycle
(10 min. cycle)

- Mixed gas: 240 A
- CO₂: 270 A

Cooling method Gas cooling

Wire diameter 1.0 - 1.2 mm

Gas flow 12 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.	Part no.
M6	▶ 10 ECu, M6 x 28	340P__1069*
	CuCrZr, M6x28	340P__3069*
	Alu, ECu, M6x28	341P__1069*
M8	11 ECu, M8x30	340P__1262*
	CuCrZr, M8x30	340P__3262*
	Alu, ECu, M8x30	341P__1262*

▶ = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

Tip holders

	Pos.	Part no.
20	for contact tip M6	342P006018
	for contact tip M6, 3 mm longer version	342P006118
21	for contact tip M8	342P008018

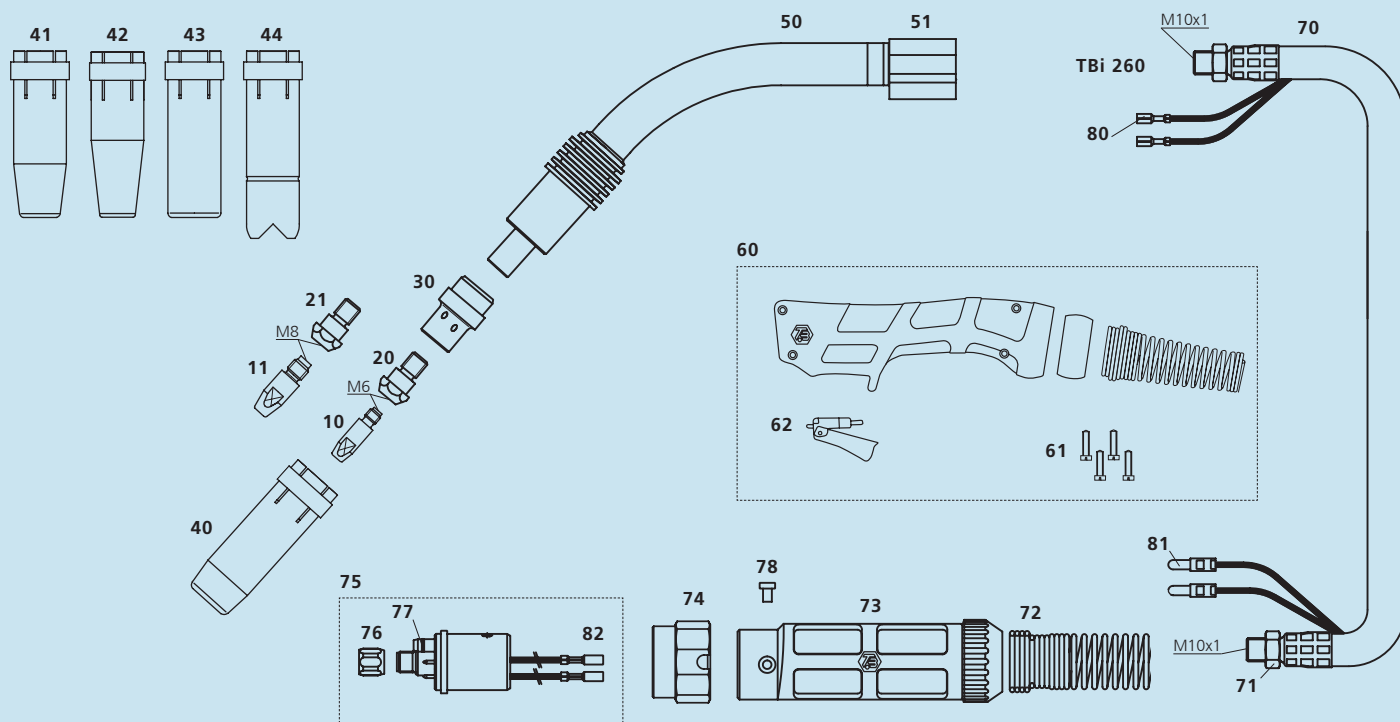
Ordering information for torches

Supplied equipped for steel wire Ø 1.0 mm

TBi 260	Euro central connector, torch neck 50° bent	3 m	118P341330
		4 m	118P341340
		5 m	118P341350

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 260, 50°	118P001020
51	PVC body	600P002018
60	Handle blue, aircooled, cpl. kit	380P220400
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016



Gas diffuser



Pos.	Description	Part no.
30	thermoset, black, very robust	118P002021
	thermoset HD, brown extremely heat resistant	118P002030

Gas nozzle



Pos.	Description	Part no.
40	conical, NW 16 mm L= 75.5 mm	345P012030
41	conical, NW 14 mm L= 75.5 mm	345P013030
42	conical, NW 12 mm only for M6 L= 75.5 mm	345P016030
43	cylindrical, NW 20 mm L= 75.5 mm	345P011030
44	spot welding nozzle NW 20 mm L= 85 mm	345P015030

Pos.	Description	Part no.
70	Coaxial cable TBi ProFlex ML	361PML11_0*
71	Hex nut M10x1	101P002005
72	Spring support small 16-50 sqmm	600P102099
73	Cable support cpl. (2 pieces)	701P001045
74	Adaptor nut	701P001013
75	Central adaptor ESG cpl., 2 poles, moveable pins	701P001048
76	Sleeve nut M10x1	701P002005
77	O-ring 4.0x1.0 mm (gas nipple)	365P100040
78	Slotted screw M4x6	100P008401

Pos.	Description	Part no.
80	Cable lug, flat	375P000023
81	Insulated connector, male, round	375P000004
82	Insulated connector, female, round	375P000003

Technical Data

Rating at 60% duty cycle
(10 min. cycle)

- Mixed gas: 300 A (DR: 260 A)
- CO₂: 330 A (DR: 290 A)

Cooling method Gas cooling

Wire diameter 1.0 - 1.6 mm

Gas flow 12 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

M6	Pos.	Part no.	
	► 10	ECu, M6x28	340P__1069*
		CuCrZr, M6x28	340P__3069*
		Alu, ECu, M6x28	341P__1069*
	Pos.	Part no.	
	11	ECu, M8x30	340P__1262*
		CuCrZr, M8x30	340P__3262*
		Alu, ECu, M8x30	341P__1262*

Tip holders

	Pos.	Part no.	
	► 20	for contact tip M6	342P006014
		for contact tip M6, 4 mm longer version	342P006114
	Pos.	Part no.	
	21	for contact tip M8	342P008014
		for contact tip M8, 6 mm longer version	342P008114

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

Ordering information for torches

Supplied equipped for steel wire Ø 1.2 mm

TBi 360	Euro central connector, torch neck 50° bent	3 m	114P341330
		4 m	114P341340
		5 m	114P341350
TBi 360 DR	Euro central connector, changeable swivel neck, torch neck 45° bent	3 m	114P34133D
		4 m	114P34134D
		5 m	114P34135D

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 360, 50°	114P001001
51	Torch neck TBi 360 DR (swivel), 45°	114P001015
52	PVC body	600P002018
53	Support for DR necks	600P101045
54	PVC body	600P002017
60	Handle blue, aircooled, cpl. kit	380P220400
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016

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Technical Data

Rating at 60% duty cycle
(10 min. cycle)

- Mixed gas: 360 A
- CO₂: 380 A

Cooling method Gas cooling

Wire diameter 1.2 - 1.6 mm

Gas flow 14 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.	Part no.
M8	► 10 ECu, M8 x 30	340P__1262*
	CuCrZr, M8x30	340P__3262*
	Alu, ECu, M8x30	341P__1262*
M6	11 ECu, M6x28	340P__1069*
	CuCrZr, M6x28	340P__3069*
	Alu, ECu, M6x28	341P__1069*

Tip holders

	Pos.	Part no.
►	20 for contact tip M8	342P054884

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

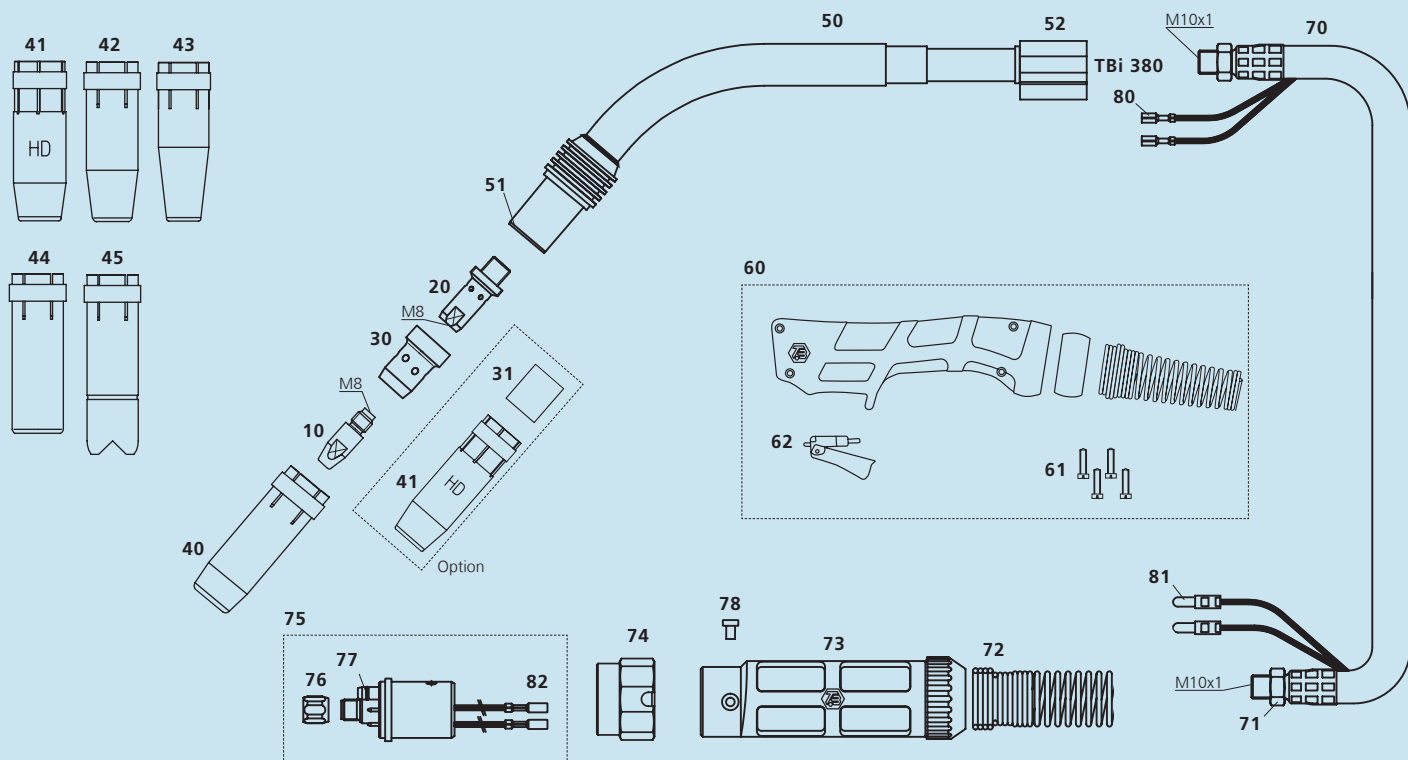
Ordering information for torches

Supplied equipped for steel wire Ø 1.2 mm

TBi 380	Euro central connector,	3 m	917P341330
	torch neck 50° bent	4 m	917P341340
		5 m	917P341350

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 380, 50°	917P001001
51	Insulating washer	130P002004
52	PVC body	600P002018
60	Handle blue, aircooled, cpl. kit	380P220400
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016



Gas diffuser



Pos.		Part no.
30	thermoset, black, very robust	130P002026
	ceramic, white, extremely heat resistant	130P002019

Nozzle insulator (optional)



Pos.		Part no.
31	glass-fiber, white, only with Pos. 41!	346P054860

Gas nozzle



Pos.		Part no.
40	conical, NW 16 mm L= 75.5 mm	345P012030
41	conical, NW 16 mm Heavy Duty L= 75.5 mm	345P012032
42	conical, NW 14 mm L= 75.5 mm	345P013030
43	conical, NW 12 mm only for M6 L= 75.5 mm	345P016030
44	cylindrical, NW 20 mm L= 75.5 mm	345P011030
45	spot welding nozzle NW 20 mm L= 85 mm	345P015030

Pos.	Description	Part no.
70	Coaxial cable TBI ProFlex XL	361PXL11_0*
71	Hex nut M10x1	101P002005
72	Spring support small 16-50 sqmm	600P102099
73	Cable support cpl. (2 pieces)	701P001045
74	Adaptor nut	701P001013
75	Central adaptor ESG cpl., 2 poles, moveable pins	701P001048
76	Sleeve nut M10x1	701P002005
77	O-ring 4.0x1.0 mm (gas nipple)	365P100040
78	Slotted screw M4x6	100P008401

Pos.	Description	Part no.
80	Cable lug, flat	375P000023
81	Insulated connector, male, round	375P000004
82	Insulated connector, female, round	375P000003

Technical Data

Rating at 100% duty cycle
(10 min. cycle)

- Mixed gas: 270 A
- CO₂: 300 A

Cooling method Water cooling

Wire diameter 0.8 - 1.2 mm

Gas flow 14 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are
available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.	Part no.
	► 10 ECu, M6 x 25	340P__1073*
	CuCrZr, M6 x 25	340P__3073*
	Alu, ECu, M6 x 25	341P__1073*
	Pos.	Part no.
	11 ECu, M6 x 28	340P__1069*
	CuCrZr, M6 x 28	340P__3069*
	Alu, ECu, M6 x 28	341P__1069*

M6

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

Tip holder

	Pos.	Part no.
	► 20 for contact tip M6	342P006012

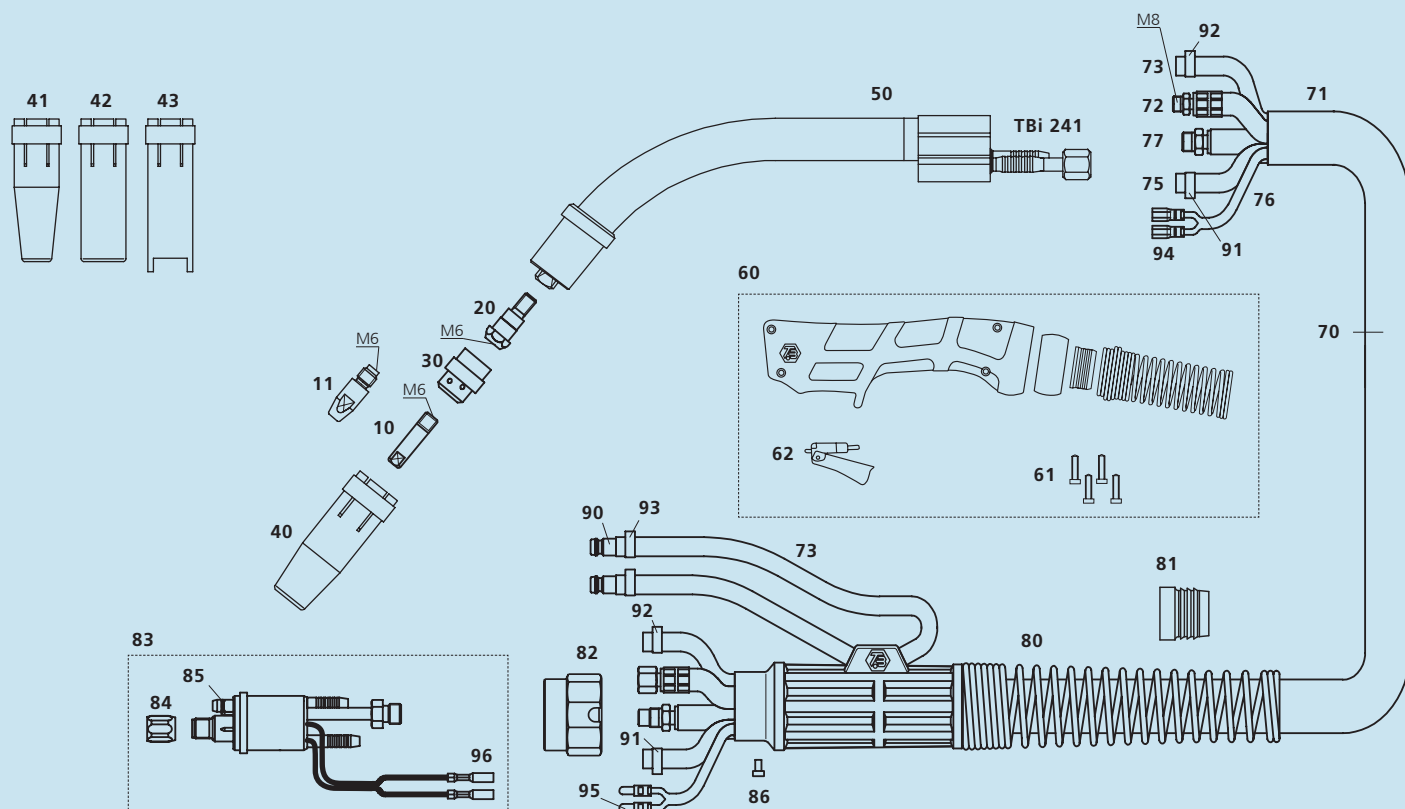
Ordering information for torches

Supplied equipped for steel wire Ø 1.0 mm

TBi 241	Euro central connector, torch neck 50° bent	3 m	123P441530
		4 m	123P441540
		5 m	123P441550

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 241, 50°	123P001001
60	Handle blue, watercooled, cpl. kit	380P220401
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016



Gas diffuser



Pos.		Part no.
30	rubber, red long life	112P002019
	thermoset, black, very robust	112P002024
	ceramic, white, extremely heat resistant	112P002021
	thermoset HD, brown extremely heat resistant	112P002022

Gas nozzle



Pos.		Part no.
40	conical, NW 12.5 mm L= 63.5 mm	345P012012
40	conical, NW 12.5 mm, Heavy Duty L= 63.5 mm	345P012312
41	conical, NW 10 mm L= 63.5 mm	345P013012
42	cylindrical, NW 17 mm L= 63.5 mm	345P011012
42	cylindrical, NW 17 mm Heavy Duty L= 63.5 mm	345P011312
43	spot welding nozzle, NW 17 mm L= 68 mm	345P015012

Pos.	Description	Part no.
70	Cable assembly Classic, 2-C	122P4045_0*
71	Fabric outer cover 25x1.5 mm, cpl.	307P2528_A*
72	Water-power cable Classic, blue, 2-C	316P1621_0*
73	PVC hose, braided, black, 5x1.5 mm	302P020000
75	PVC-Gas hose, black 4.5x1.5 mm	302P010000
76	Control cable x.30 m cpl.	301P2304_0*
77	Wire conduit yellow ,Classic'	356P0401_0*
80	Cable support 3 parts cpl. with spring	701P101071
81	Clamping ring for outer cover	600P102201
82	Adaptor nut	701P001013
83	Central adaptor ESW cpl., 2 poles, moveable pins	701P001049

Pos.	Description	Part no.
84	Sleeve nut M10x1	701P002005
85	O-ring 4.0x1.0 mm (gas nipple)	365P100040
86	Slotted screw M4x6	100P008401
90	Quick connector	701P002064
91	Hose clamp with ring Ø 8.7	373P000087
92	Hose clamp with ring Ø 9.5	373P000095
93	Hose clamp with ring Ø 9.0	373P100090
94	Cable lug, flat	375P000023
95	Insulated connector, male, round	375P000004
96	Insulated connector, female, round	375P000003

Technical Data

Rating at 100% duty cycle
(10 min. cycle)

- Mixed gas: 270 A
- CO₂: 300 A

Cooling method Water cooling

Wire diameter 0.8 - 1.2 mm

Gas flow 14 l/min

Technical specification according to IEC 60974-7

Connection Euro-Central connector
Other connectors are available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.	Part no.
M6	► 10 ECu, M6 x 28	340P__1069*
	CuCrZr, M6x28	340P__3069*
	Alu, ECu, M6x28	341P__1069*
M8	Pos. 11 ECu, M8 x 30	340P__1262*
	CuCrZr, M8x30	340P__3262*
	Alu, ECu, M8x30	341P__1262*

Tip holders

	Pos.	Part no.
M6	► 20 for contact tip M6	342P006003
M8	Pos. 21 for contact tip M8	342P008003

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

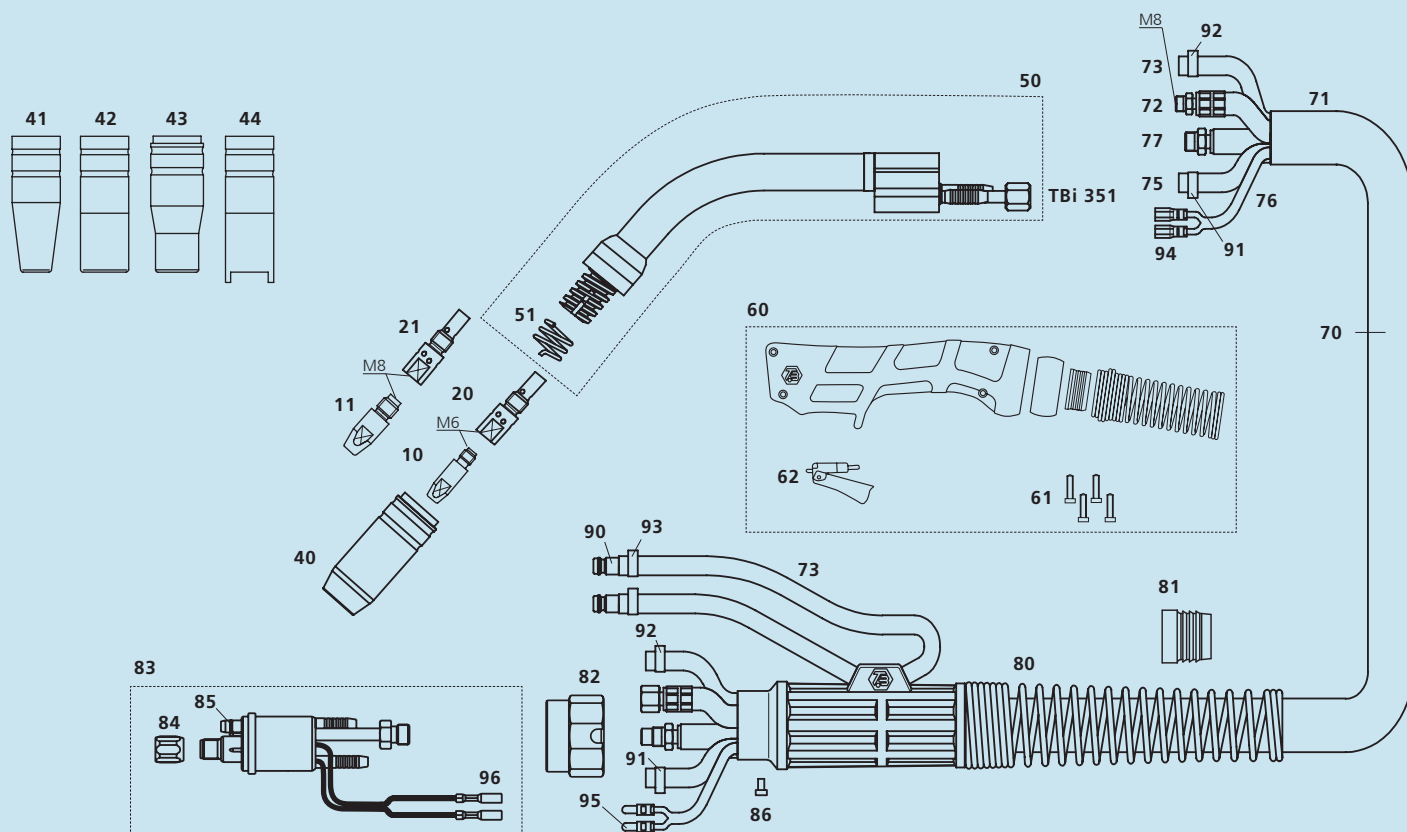
Ordering information for torches

Supplied equipped for steel wire Ø 1.0 mm

TBi 351	Euro central connector, torch neck 50° bent	3 m	122P441530
		4 m	122P441540
		5 m	122P441550

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 351, 50°	122P001001
51	Nozzle spring TBi 250/252/351	103P002006
60	Handle blue, watercooled, cpl. kit	380P220401
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016



Gas nozzle

	Pos.	Description	Part no.
	40	conical, NW 15 mm L= 56.8 mm	345P012003
	41	conical, NW 11 mm only for M6 L= 56.2 mm	345P013003
	42	cylindrical, NW 20 mm long insulation L= 56.2 mm	345P011303

	Pos.	Description	Part no.
	43	bottle form, NW 14 mm L= 56.2 mm	345P014003
	44	spot welding nozzle NW 19 mm, long insulation L= 66.7 mm	345P015503

Pos.	Description	Part no.
70	Cable assembly Classic, 2-C	122P4045_0*
71	Fabric outer cover 25x1.5 mm, cpl.	307P2528_A*
72	Water-power cable Classic, blue, 2-C	316P1621_0*
73	PVC hose, braided, black, 5x1.5 mm	302P020000
75	PVC-Gas hose, black 4.5x1.5 mm	302P010000
76	Control cable x.30 m cpl.	301P2304_0*
77	Wire conduit yellow ,Classic'	356P0401_0*

Pos.	Description	Part no.
80	Cable support 3 parts cpl. with spring	701P101071
81	Clamping ring for outer cover	600P102201
82	Adaptor nut	701P001013
83	Central adaptor ESW cpl., 2 poles, moveable pins	701P001049
84	Sleeve nut M10x1	701P002005
85	O-ring 4.0x1.0 mm (gas nipple)	365P100040
86	Slotted screw M4x6	100P008401
90	Quick connector	701P002064
91	Hose clamp with ring Ø 8.7	373P000087
92	Hose clamp with ring Ø 9.5	373P000095
93	Hose clamp with ring Ø 9.0	373P100090
94	Cable lug, flat	375P000023
95	Insulated connector, male, round	375P000004
96	Insulated connector, female, round	375P000003

Technical Data

Rating at 100% duty cycle
(10 min. cycle)

- Mixed gas:

- CO₂:

TBi 411: 350 A, TBi 511: 450 A

TBi 411: 400 A, TBi 511: 500 A

Cooling method

Water cooling

Wire diameter

1.0 - 1.6 mm

Gas flow

14 l/min

Technical specification

according to IEC 60974-7

Connection

Euro-Central connector

Other connectors are
available upon request.

Torch rating will be reduced when using pulsed-arc power sources.



Contact tips

	Pos.	Part no.
M8	► 10 ECu, M8x30	340P__1262*
	CuCrZr, M8x30	340P__3262*
	Alu, ECu, M8x30	341P__1262*

	Pos.	Part no.
M6	11 ECu, M6x28	340P__1069*
	CuCrZr, M6x28	340P__3069*
	Alu, ECu, M6x28	341P__1069*

Tip holders

	Pos.	Part no.
20	for contact tip M8	342P008033
	for contact tip M8, 4 mm longer version	342P008133

	Pos.	Part no.
21	for contact tip M6	342P006033
	for contact tip M6, 4 mm longer version	342P006133

► = Standard equipment

* At the blank, please insert suitable information for torch length or wire diameter, e.g. 3 for 3 m or 08 for 0.8 mm.

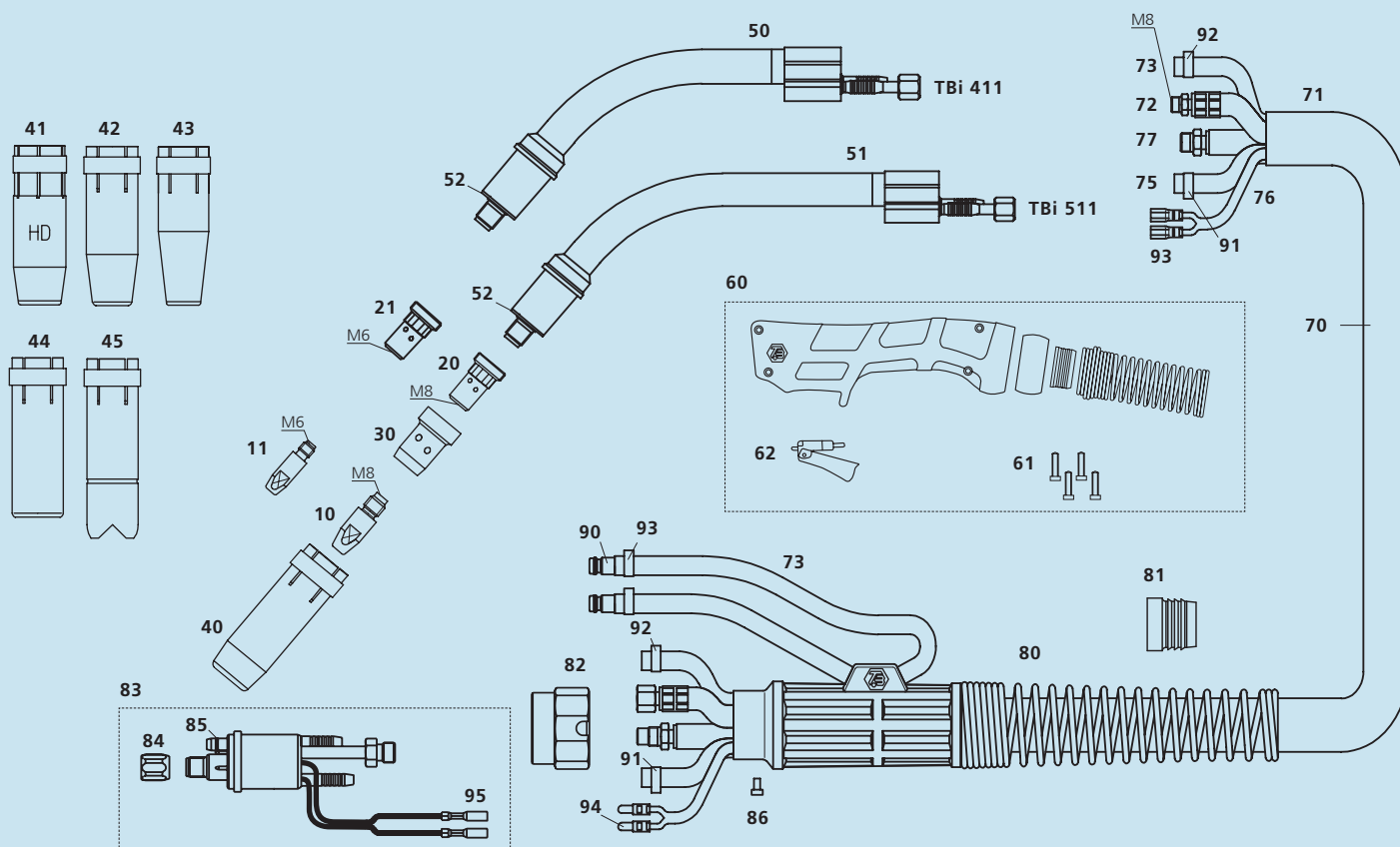
Ordering information for torches

Supplied equipped for steel wire Ø 1.0 mm

TBi 411	Euro central connector, torch neck 50° bent	3 m	133P441530
		4 m	133P441540
		5 m	133P441550
TBi 511	Euro central connector, torch neck 50° bent	3 m	134P441530
		4 m	134P441540
		5 m	134P441550

Spare parts

Pos.	Description	Part no.
50	Torch neck TBi 411, 50°	133P001001
51	Torch neck TBi 511, 50°	134P001001
52	Insulating washer	130P002004
60	Handle blue, watercooled, cpl. kit	380P220401
61	Cross recessed screw M 3.5x14	100P008413
62	Trigger, red, 2 poles	385P021016



Gas diffuser



Pos.		Part no.
30	thermoset, black, very robust	130P002026
	ceramic, white, extremely heat resistant	130P002019
	thermoset HD, brown, extremely heat resistant	130P002031

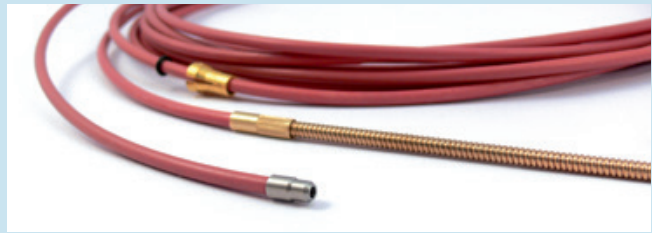
Gas nozzle



Pos.		Part no.
40	conical, NW 16 mm L= 75.5 mm	345P012030
41	conical, NW 16 mm Heavy Duty L= 75.5 mm	345P012032
42	conical, NW 14 mm L= 75.5 mm	345P013030
43	conical, NW 12 mm only for M6 L= 75.5 mm	345P016030
44	cylindrical, NW 20 mm L= 75.5 mm	345P011030
45	spot welding nozzle NW 20 mm L= 85 mm	345P015030

Pos.	Description	Part no.
70	Cable assembly Classic, 2-C	122P4045_0*
71	Fabric outer cover 25x1.5 mm, cpl.	307P2528_A*
72	Water-power cable Classic, blue, 2-C	316P1621_0*
73	PVC hose, braided, black, 5x1.5 mm	302P020000
75	PVC-Gas hose, black 4.5x1.5 mm	302P010000
76	Control cable x.30 m cpl.	301P2304_0*
77	Wire conduit yellow ,Classic'	356P0401_0*
80	Cable support 3 parts cpl. with spring	701P101071
81	Clamping ring for outer cover	600P102201
82	Adaptor nut	701P001013
83	Central adaptor ESW cpl., 2 poles, moveable pins	701P001049

Pos.	Description	Part no.
84	Sleeve nut M10x1	701P002005
85	O-ring 4.0x1.0 mm (gas nipple)	365P100040
86	Slotted screw M4x6	100P008401
90	Quick connector	701P002064
91	Hose clamp with ring Ø 8.7	373P000087
92	Hose clamp with ring Ø 9.5	373P000095
93	Hose clamp with ring Ø 9.0	373P100090
94	Cable lug, flat	375P000023
95	Insulated connector, male, round	375P000004
96	Insulated connector, female, round	375P000003



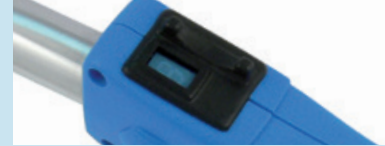
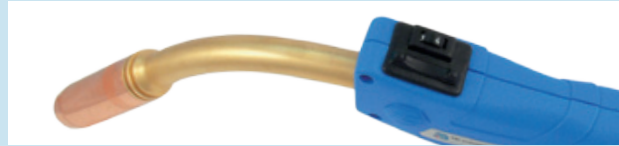
		gas cooled torches	water cooled torches	for wire	color	Part no.
for steel wire	insulated liners	☒	☒	0.6 - 0.9	white	324P1338_4*
		☒	☒	0.8 - 1.0	blue	324P1545_4*
		☒	☐	1.0 - 1.2	red	324P2045_4*
		☒	☐	1.2 - 1.6	yellow	324P2545_4*
	not insulated liners		☒	1.0 - 1.2	not insul.	322P2045_4*
			☒	1.2 - 1.6	not insul.	322P2545_4*
for stainless steel wire	not insulated liners		☐	0.8 - 1.2	not insul.	321P2250_4
			☐	1.6 - 2.0	not insul.	321P3550_4

		gas cooled torches	water cooled torches	for wire	color	Part no.
for aluminum and stainless steel wire	PA liners		☒	1.0 - 1.2	anthracite	328P2040_5*
			☒	1.2 - 1.6	anthracite	328P2347_5*
	PTFE liners		☐	0.8 - 1.0	blue	326P1540_5*
			☐	1.0 - 1.2	red	326P2040_5*
			☐	1.2 - 1.6	yellow	326P2747_5*
	Carbon-PTFE liners		☐	0.8 - 1.0	black	327P1540_5*
			☐	1.0 - 1.2	black	327P2040_5*
			☐	1.2 - 1.6	black	327P2747_5*
	CeraGlide with steel tip		☐	1.0 - 1.2	bordeaux	326P2040_K*
			☐	1.2 - 1.6	bordeaux	326P2347_K*

		gas cooled torches	water cooled torches	for wire	color	Part no.
for aluminum	PA liners with bronze liner	☒	☐	1.0 - 1.2	anthracite	328P2040_A*
		☒	☐	1.2 - 1.6	anthracite	328P2347_A*
	PTFE liners with bronze liner	☐	☐	0.8 - 1.0	blue	326P1540_A*
		☐	☐	1.0 - 1.2	red	326P2040_A*
		☐	☐	1.2 - 1.6	yellow	326P2747_A*
	CeraGlide with bronze liner	☐	☐	1.0 - 1.2	bordeaux	326P2040_H*
		☐	☐	1.2 - 1.6	bordeaux	326P2347_H*

☒ recommended ☐ optional

* At the blank, please insert suitable information for torch length, e.g. 3, 4 or 5 for 3 m, 4 m or 5 m long torches.

**FM1**

Double action switch
(Up / Down)

**Spare parts**

Module FM1 complete	600P101031
Control cable 3-pole with front connector, 6.5 m	301PFM0001
Module FM1 complete, for connection to Fronius	600P101038
Control cable 7-pole with front connector, 6.5 m	301PFM0002
Rubber cover FM1	600P102165

FM2

Two double
action switches
(Up / Down)

**Spare parts**

Module FM2 complete	600P101032
Control cable 7-pole with front connector, 6.5 m	301PFM0002
Rubber cover FM2	600P102166

FM3

4-way pushbutton

**Spare parts**

Module FM3 complete	600P101033
Control cable 7-pole with front connector, 6.5 m	301PFM0002
Rubber cover FM3	600P102167

FM4

Spin-wheel poti 10kΩ

**Spare parts**

Module FM4 complete	600P101041
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FM5

Double action switch
(Up / Down) with
potentiometer 10kΩ

**Spare parts**

Module FM5 complete	600P101035
Control cable 7-pole with front connector, 6.5 m	301PFM0002
Rubber cover FM5	600P102169

FM7

7-segment Display with
Double action switch
(Up / Down)

**Spare parts**

Module FM7 complete	600P101037
Rubber cover FM7	600P102170

All remote control modules are equipped with 7- or 12-pole connectors.
Custom built modules and bus-systems available on request.

Ready for Tomorrow.

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