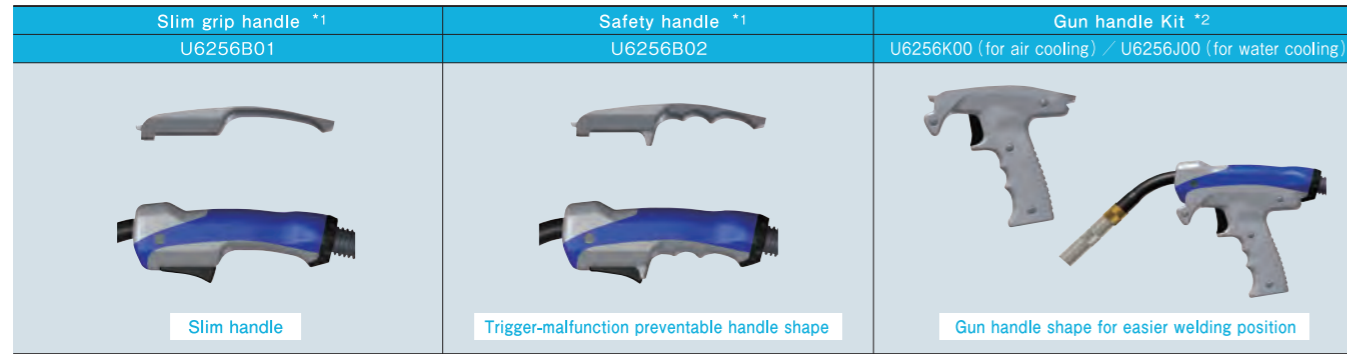
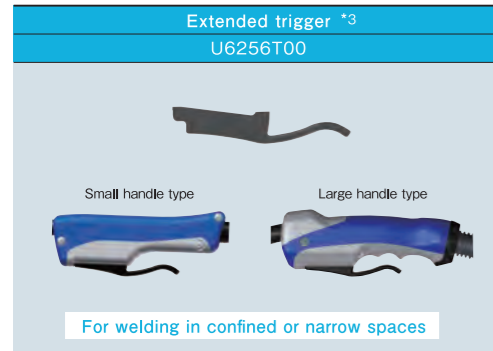


Optional parts for Blue Torch III A extensive lineup of replacement parts for high quality welding.

■ **Handle** Applicable torch : BT3510·3520·5000/BTW450·500/BTA400/BTAW400·500



■ **Trigger**

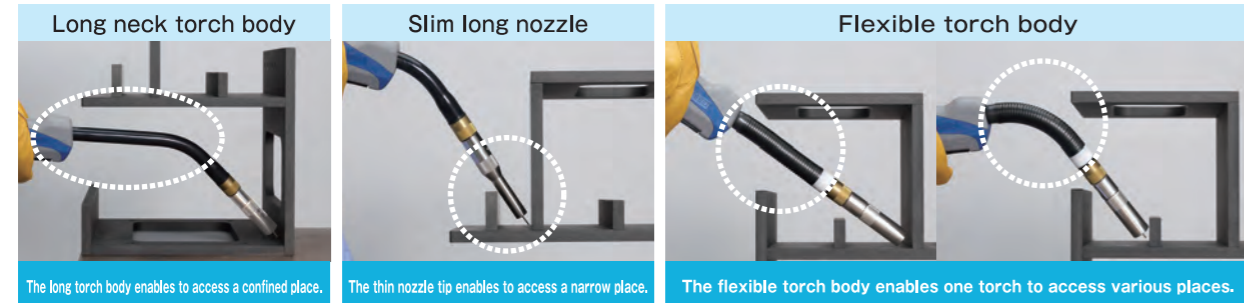


■ **Heat Shield** Applicable torch : BT3510·3520·5000/BTW450·500/BTA400/BTAW400·500



*1. It contains a handle only. No trigger switch is attached. *2. Trigger switch is included in the gun handle kit.
*3. It contains a trigger only. No switch is attached. It cannot be combined with safety handle and gun handle.

■ **Optional parts for various applications to make welding easier**



In accordance with DAIHEN's policy of make continuing improvements, design and/or specifications are subject to change without notice and without any obligation on the part of manufacturer.

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Environmentally friendly item, such as "Vegetable oil ink", is used for this catalogue.

Oct.2023 CAT.NO.B222003



CO₂ / MAG / MIG Welding Torch **BLUE TORCH III**



The cutting edge CO₂/MAG/MIG welding torch that minimizes the burden on the operators

- **Relieving fatigue of operation**
 - Easy-to-grip torch handle
 - Flexible cables with excellent usability
- **Hard-to-get-heated torch handle**
- **Easy-to-use welding torch**
 - Easily customizable according to the work environment and application
 - Greatly improved maintainability
- **Extensive lineup of models for 180A to 500A**

DAIHEN Corporation

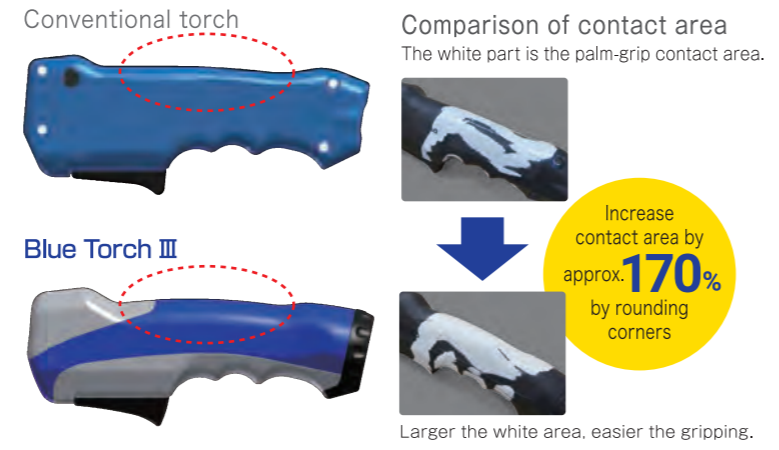
The welding torch developed through in-depth research to make welding work *easier* for operator.

Relieving fatigue

An ergonomic handle developed for better fitting to hands.

Easy-to-grip torch handle (large-handle type)

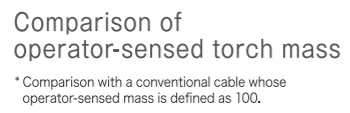
The palm-grip contact area has largely been expanded. This disperses the gripping pressure, thereby improving the gripping stability. A rounded shape that can be gripped stably with a weak force relieves fatigue of operators. That enables easier and stable welding even for a long time.



More flexible torch cable than that of conventional Blue Torch

Flexible torch cable (large-handle type)

The rigidity of torch cable has been lessened to reduce the burden on the welding operators. This makes it effortless to take a welding position, thereby making the welding work easier at the all welding positions.

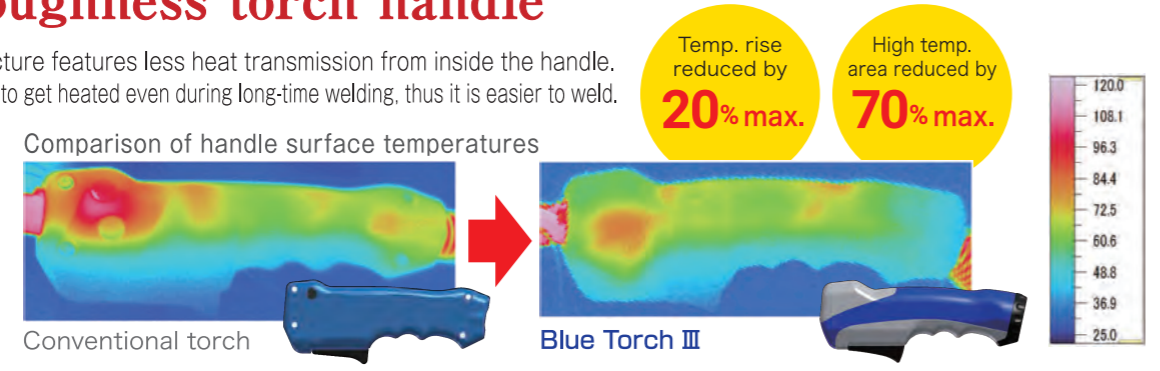


Hard to get heated

Handle structure characterized by less torch temperature rise.

Heat toughness torch handle

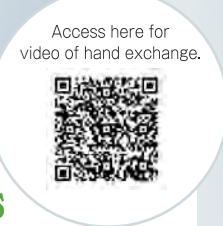
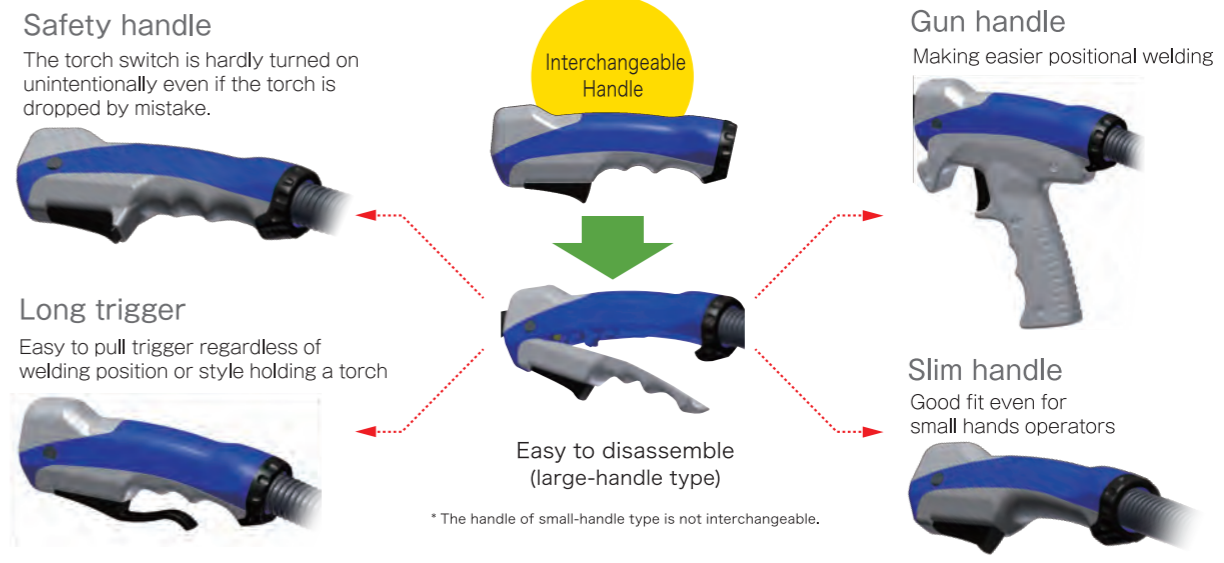
The handle structure features less heat transmission from inside the handle. The handle is hard to get heated even during long-time welding, thus it is easier to weld.



Easy to use

Handle can easily be disassembled and rearranged.

Customizable torch according to work environments and applications

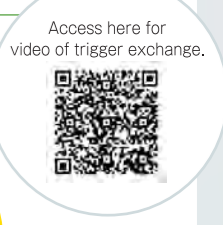


Trouble-free replacement work

Excellent maintainability

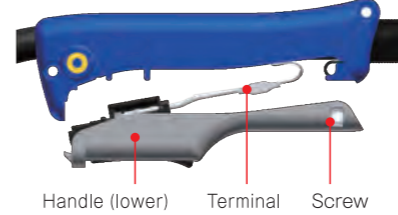
Effortless triggers changing

- The torch switch can easily be detached or attached with the split handle structure.
- The trigger switch consists of assembled parts and thus easier to exchange.
- Parts of small-handle type and large-handle type are in common.



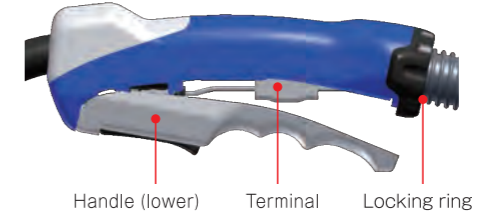
Small-handle type

Remove the screw (in lower handle) and then the trigger terminal.

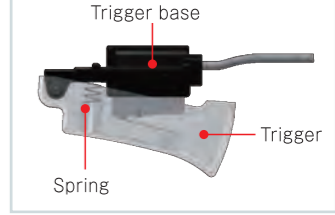


Large-handle type

Remove the locking ring and then the trigger terminal.



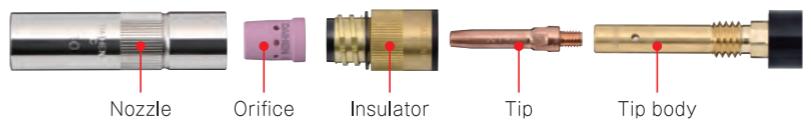
Trigger switch is made of assembly.



Reliable compatibility







Consumable parts compatible with Blue Torch II






Consumable parts such as nozzles, orifices, and tips are compatible with Blue Torch II, those of Blue Torch II can also be utilized for Blue Torch III.












Extensive lineup

for various applications: selectable from 21 types such as 180A to 500A air/water-cooled, and standard/flexible torch body.

For CO ₂ /MAG	Small handle type			Large handle type		
Rated current	180A(CO ₂) 130A(MAG)	200A(CO ₂) 160A(MAG)	350A(CO ₂) 200A(MAG)	350A(CO ₂) 300A(MAG)	350A(CO ₂) 350A(MAG)	500A(CO ₂) 450A(MAG)
Model	BT1800-30	BT2000-30(40)	BT3500-30(45·60)	BT3510-30(45·60)	BT3520-30(45·60)	BT5000-30(45·60)
						
Duty cycle	40% (CO ₂) 30% (MAG)	50% (CO ₂) 30% (MAG)	30% (CO ₂) 30% (MAG)	60% (CO ₂) 30% (MAG)	80% (CO ₂) 30% (MAG)	60% (CO ₂) 30% (MAG)
Wire diameter	(0.6) 0.8 mm	(0.8) 0.9 (1.0) (1.2) mm	(0.9) (1.0) 1.2 mm	(0.9) (1.0) 1.2 (1.4) mm	1.2 (1.4) (1.6) mm	(1.2) 1.4 (1.6) mm
Cable length	3 m	3, 4 m	3, 4.5, 6 m	3, 4.5, 6 m	3, 4.5, 6 m	3, 4.5, 6 m
Cooling system	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling	Air cooling

For CO ₂ /MAG	For Water cooling		For Low spatter welding		
Rated current	450A(CO ₂) 450A(MAG) 350A(パルスMAG)	500A(CO ₂) 450A(MAG) 400A(パルスMAG)	200A(CO ₂) 160A(MAG)	350A(CO ₂) 200A(MAG)	350A(CO ₂) 300A(MAG)
Model	BTW450-30(50)	BTW500-30(50)	BT2000V-30(40)	BT3500V-30(45·60)	BT3510V-30(45·60)
					
Duty cycle	100%	100%	50% (CO ₂) 30% (MAG)	30% (CO ₂) 30% (MAG)	60% (CO ₂) 30% (MAG)
Wire diameter	1.2 (1.4) (1.6) mm	(1.2) (1.4) 1.6 mm	(0.8) 0.9 (1.0) (1.2) mm	(0.9) (1.0) 1.2 mm	(0.9) (1.0) 1.2 (1.4) mm
Cable length	3, 5 m	3, 5 m	3, 4 m	3, 4.5, 6 m	3, 4.5, 6 m
Cooling system	Water cooling	Water cooling	Air cooling	Air cooling	Air cooling

For CO ₂ /MAG	Flexible type			
Rated current	200A(CO ₂) 160A(MAG)	350A(CO ₂) 200A(MAG)	350A(CO ₂) 300A(MAG)	350A(CO ₂) 350A(MAG)
Model	BT2000F-30(40)	BT3500F-30(45·60)	BT3510F-30(45·60)	BT3520F-30(45·60)
				
Duty cycle	50% (CO ₂) / 30% (MAG)	30% (CO ₂) / 30% (MAG)	60% (CO ₂) / 30% (MAG)	80% (CO ₂) / 30% (MAG)
Wire diameter	(0.8) 0.9 (1.0) (1.2) mm	(0.9) (1.0) 1.2 mm	(0.9) (1.0) 1.2 (1.4) mm	1.2 (1.4) (1.6) mm
Cable length	3, 4 m	3, 4.5, 6 m	3, 4.5, 6 m	3, 4.5, 6 m
Cooling system	Air cooling	Air cooling	Air cooling	Air cooling

For MIG	Small handle type		Large handle type			
Rated current	180A	200A	300A	300A	400A	500A
Model	BTA180-20	BTA200-30	BTA300-30	BTS300-30	BTAW400-30	BTAW500-30
						
Duty cycle	20% (MIG)	60% (MIG) 30% (Pulse MIG)	50% (MIG) 30% (Pulse MIG)	50% (MIG/MAG) 30% (Pulse MIG)	100%	80%
Wire diameter	0.8 mm	(1.0) 1.2 mm	(1.0) 1.2 (1.6) mm	(0.9) (1.0) 1.2 mm	1.2 (1.6) mm	(1.2) 1.6 mm
Cable length	2 m	3 m	3 m	3 m	3 m	3 m
Cooling system	Air cooling	Air cooling	Air cooling	Air cooling	Water cooling	Water cooling

* If you use a wire diameter given in parentheses, an optional product is required.
 * With the torches for a rated current of 350A or more, 0.9-mm dia. wire cannot be used for a cable length of 4.5m, and 0.9- and 1.0-mm dia. wires for a cable length of 6m.
 * The low spatter welding torches are for the power sources of Welbee M350L, P500L (low-spatter model), and DL350.
 * The wire feeder to be combined with BTAW400 and 500 is CMAW-7403 (central connection).
 * The wire feeder to be combined with BTW450 and 500 is CMW-7403.

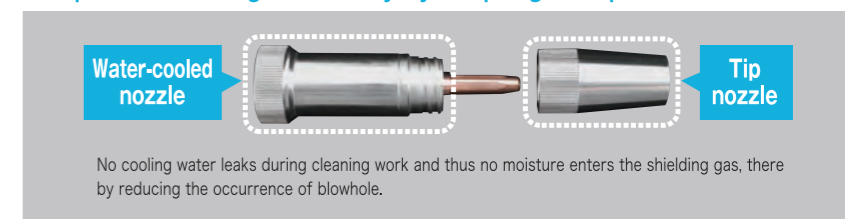
New water-cooled MIG welding torch (BTAW500) can achieve high-quality aluminum welding.

- High shielding performance
- Improved cleaning workability by adapting the split nozzle structure

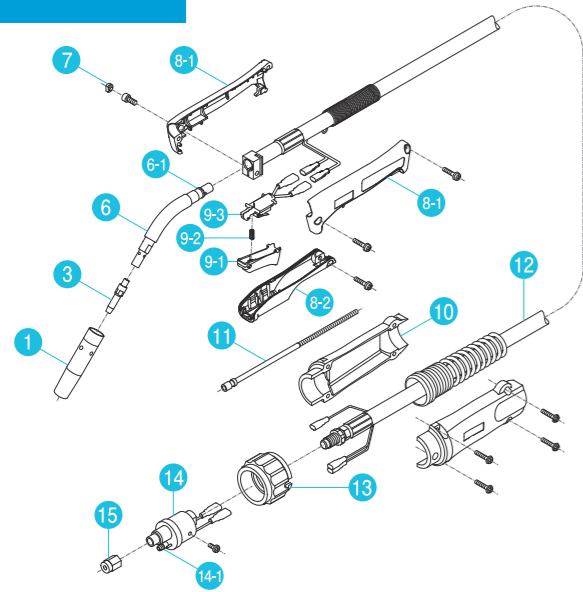
The path for shielding gas at the torch tip is optimized. Air entrapment has been reduced by 80% max by regulating the shielding gas flow (* in comparison with conventional torch).

Reduction of blowholes

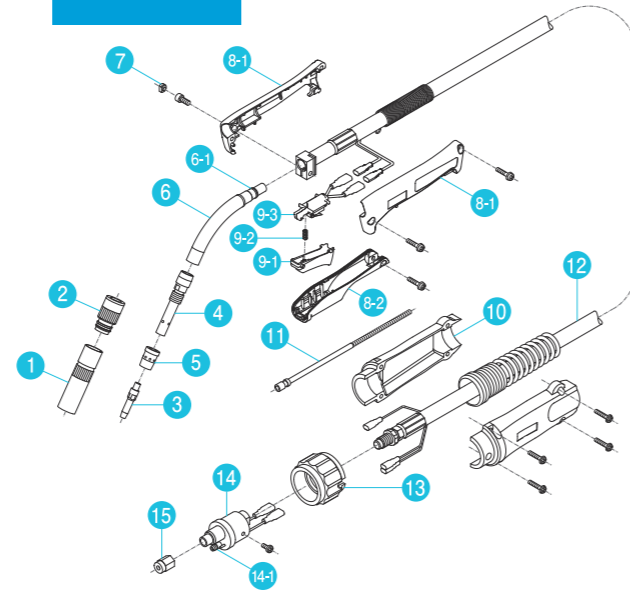
Dew point performance has been improved by 30% by using a hose that does not easily transmit moisture into the gas path of the torch.



**BT1800 (180A)
BT2000 (200A)**



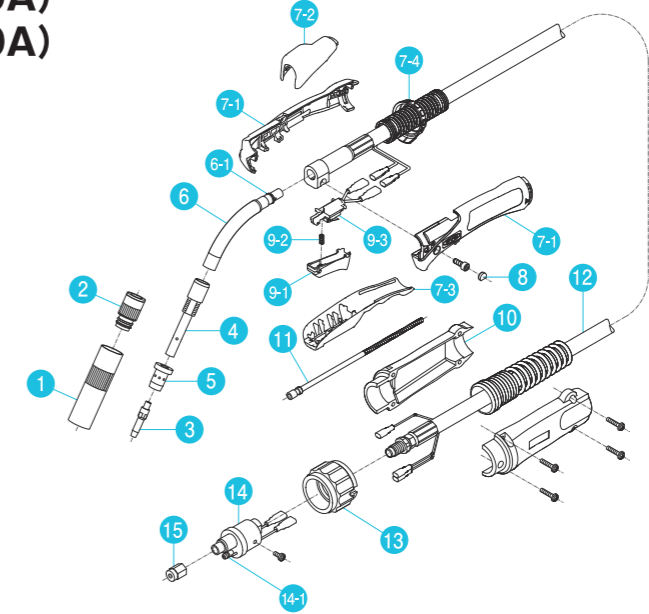
BT3500 (350A)



* [] : Optional parts

No.	Part description	BT1800		BT2000		BT3500		
		30	30	30	40	30	45	60
1	Nozzle	U4186L00	U5342N00		U4167G01			
2	Insulator	—		U4167L00				
3	Tip	K980C23	K980C24		K980C26			
4	Tip body	—		U4170G03				
5	Orifice	—		U4167G02				
6	Torch body	U5020C00		U6193B00				
6-1	O-Ring (S9-4D)	—		3574-001				
7	Cap	—		U5341G01				
8	Handle KIT (8-1 8-2), with screw, M4×16:3	—		U6257C00				
8-1	Handle (L/R)	—		U6257D00				
8-2	Handle (Lower)	—		U6190H03				
9	Trigger ASSY (9-1 9-2 9-3)	—		U6190T00				
9-1	Trigger	—		U6190T01				
9-2	Trigger spring	—		U6190T02				
9-3	Switch ASSY	—		U6190Q00				
10	Cable support (with screw, M4×16:4)	—		U6190S00				
11	Liner (3.0m) (0.6~0.9mm)	U4353G01	[U4353G01]	—	—	—	—	
	Liner (3.0m) (0.9~1.2mm)	—	U4186G01	—	U4170H02	—	—	
	Liner (4.0m) (0.8~0.9mm)	—	—	[U4187H01]	—	—	—	
	Liner (4.0m) (0.9~1.2mm)	—	—	U6192L00	—	—	—	
	Liner (4.5m) (1.0~1.2mm)	—	—	—	—	U6194L00	—	
12	Power cable (3.0m) (with screw, M5×12)	U6190D00	U6191D00	—	U6193D00	—	—	
	Power cable (4.0m) (with screw, M5×12)	—	—	U6192D00	—	—	—	
	Power cable (4.5m) (with screw, M5×12)	—	—	—	—	U6194D00	—	
	Power cable (6.0m) (with screw, M5×12)	—	—	—	—	—	U6195D00	
13	Adaptor nut	—		U4167F03				
14	Adaptor (with screw, M4×8)	—		U4167E00				
14-1	O-Ring	—		3570-125				
15	Liner nut	—		U4167G06				

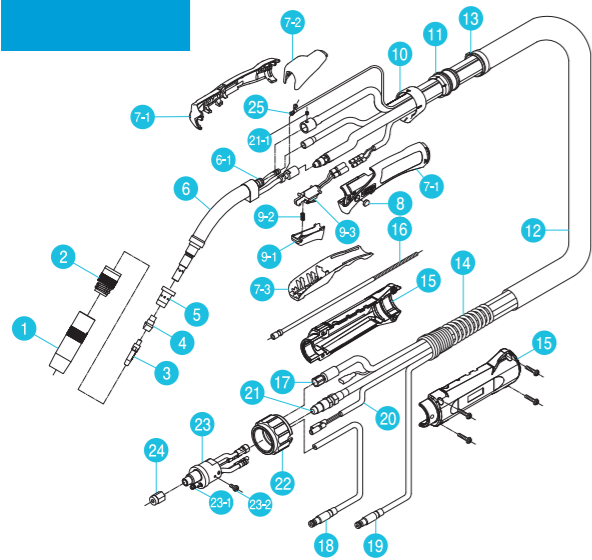
**BT3510 (350A)
BT3520 (350A)
BT5000 (500A)**



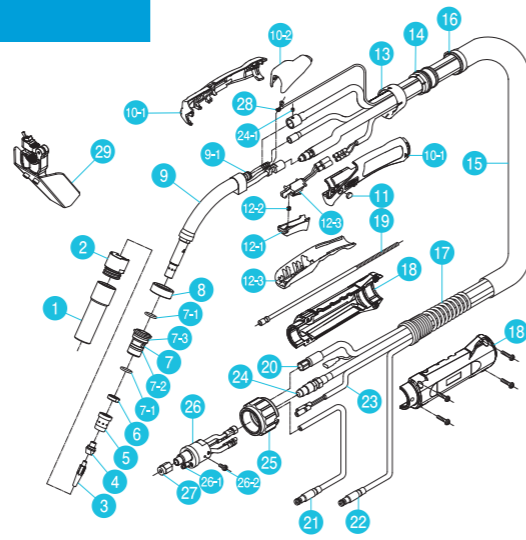
* [] : Optional parts

No.	Part description	BT3510			BT3520			BT5000		
		30	45	60	30	45	60	30	45	60
1	Nozzle	U4167G01			U4167H16			U4173G01		
2	Insulator	—			U4167L00			U4173L00		
3	Tip	K980C26			K980C73			K980C74		
4	Tip body	—			U4167G03			U4173G21		
5	Orifice	—			U4167G02			U4173G02		
6	Torch body	U6196B00			U6199B00			U6202B00		
6-1	O-Ring (S9-4D)	—			3574-001			—		
7	Handle KIT (7-1 7-2 7-3 7-4)	—			U6256C00			—		
7-1	Handle (L/R)	—			U6256D00			—		
7-2	Handle (Upper)	—			U6196H03			—		
7-3	Handle (Lower)	—			U6196H04			—		
7-4	Lock ring	—			U6196H05			—		
8	Cap	—			U5341G01			—		
9	Trigger ASSY (9-1 9-2 9-3)	—			U6190T00			—		
9-1	Trigger	—			U6190T01			—		
9-2	Trigger spring	—			U6190T02			—		
9-3	Switch ASSY	—			U6190Q00			—		
10	Cable support (with screw, M4×16:4)	—			U6190S00			—		
11	Liner (3.0m) (0.9~1.2mm)	U4170H02	—	—	—	—	—	—	—	—
	Liner (3.0m) (1.2~1.6mm)	[U6199L00]	—	—	U6199L00	—	—	U6199L00	—	—
	Liner (4.5m) (1.0~1.2mm)	—	U6194L00	—	—	—	—	—	—	—
	Liner (4.5m) (1.2~1.6mm)	—	[U6200L00]	—	—	U6200L00	—	—	U6200L00	—
	Liner (6.0m) (1.2mm)	—	—	U6195L00	—	—	—	—	—	—
	Liner (6.0m) (1.2~1.6mm)	—	—	[U6201L00]	—	—	U6201L00	—	—	U6201L00
12	Power cable (3.0m) (with screw, M5×14)	U6196D00	—	—	U6199D00	—	—	U6202D00	—	—
	Power cable (4.5m) (with screw, M5×14)	—	U6197D00	—	—	U6200D00	—	—	U6203D00	—
	Power cable (6.0m) (with screw, M5×14)	—	—	U6198D00	—	—	U6201D00	—	—	U6204D00
13	Adaptor nut	—			U4167F03			—		
14	Adaptor (with screw, M4×8)	—			U4167E00			—		
14-1	O-Ring	—			3570-125			—		
15	Liner nut	—			U4167G06			—		

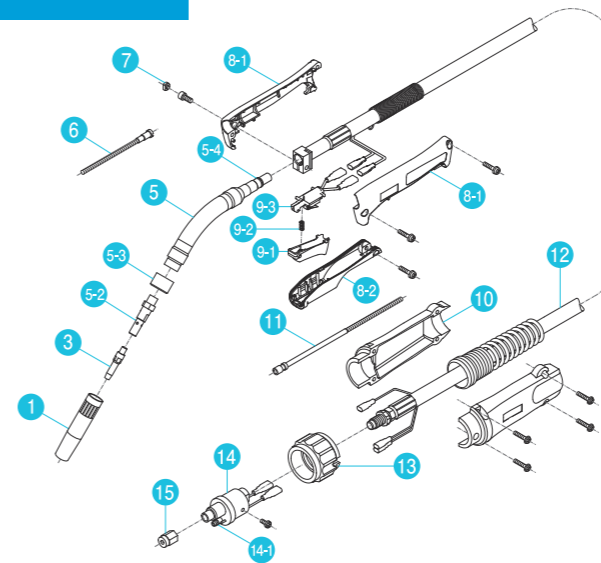
BTW450 (450A)



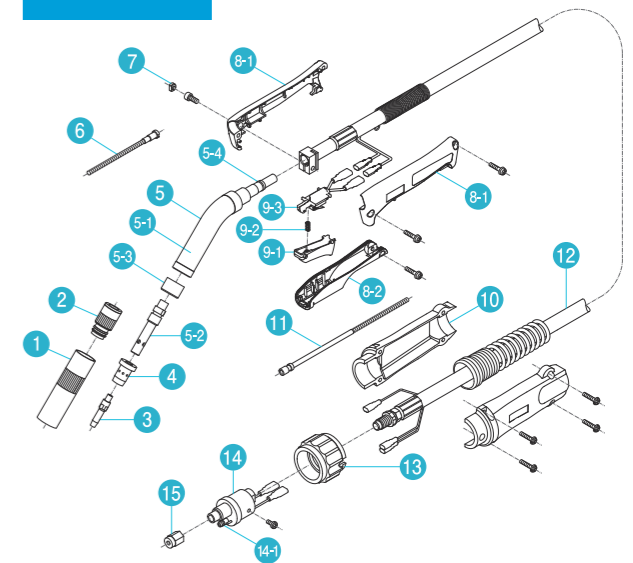
BTW500 (500A)



BT2000F (200A)



BT3500F (350A)



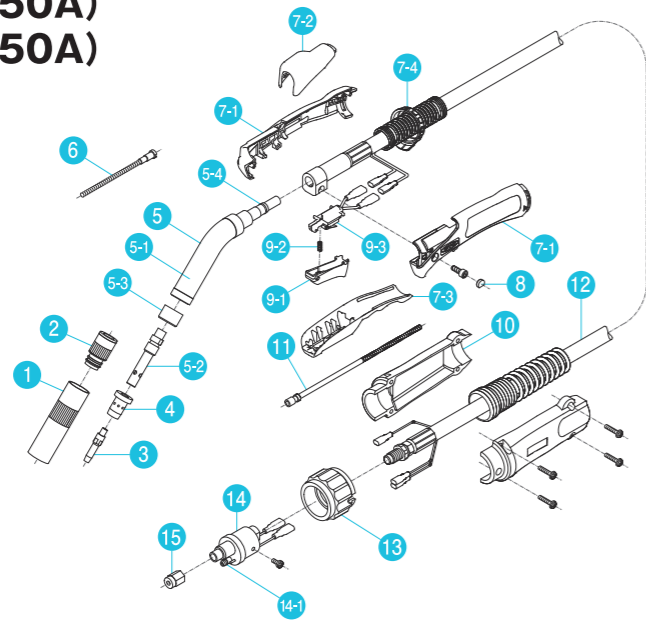
No.	Part description	BTW450-30	BTW450-50
1	Nozzle (I.D.17mm)		U5377G01
2	Insulator		U5626X00
3	Tip (1.2mm)		K980C32
4	Tip nut		U5626M01
5	Orifice		U4173G02
6	Torch body		U6205B00
6-1	O-Ring (S9-4D)		3574-001
7	Handle KIT (7-1 7-2 7-3)		U6256V00
7-1	Handle (L/R)		U6256D00
7-2	Handle (Upper)		U6196H03
7-3	Handle (Lower)		U6196H04
8	Cap		U5341G01
9	Trigger ASSY (9-1 9-2 9-3)		U6205T00
9-1	Trigger		U6190T01
9-2	Trigger spring		U6190T02
9-3	Switch ASSY		U6205Q00
10	Lock ring		U6205H05
11	End joint		U5626R01
12	Hose sheath	U6205R00	U6207R00
13	Binder (SKB-3MC black)		4739-606
14	Spring		U5626M04
15	Cable support (with screw, M4×18:4)		U6211S00
16	Liner (1.2~1.6mm)	U6199L00	U6207L00
17	Power cable	U6211D00	U6212D00
18	Water out hose		U6211E00
19	Water in hose	U6211F00	U6212F00
20	Switch cord	U6205G00	U6207G00
21	Conduit	U6205J00	U6207J00
21-1	Socket screw (M4×4)		100-1715
22	Adaptor nut		U6211X00
23	Adaptor		U6211V00
23-1	O-Ring		3570-125
23-2	Small screw (M4×8)		3361-677
24	Liner nut		U4167G06
25	Control cable	U6205P00	U6207P00

No.	Part description	BTW500-30	BTW500-50
1	Nozzle (I.D.19mm)		U6213X00
2	Front body		U6213M01
3	Tip (1.6mm)		K980C14
4	Tip nut		U6213M02
5	Orifice		U5685M02
6	Nut		U6369M04
7	Insulator		U6369N00
7-1	O-Ring (P14-4D)		3574-005
7-2	O-Ring (P16-4D)		3574-006
7-3	O-Ring (P20-4D)		6500-318
8	Cap nut		U6369M03
9	Torch body		U6213B00
9-1	O-Ring (S9-4D)		3574-001
10	Handle KIT (10-1 10-2 10-3)		U6256V00
10-1	Handle (L/R)		U6256D00
10-2	Handle (Upper)		U6196H03
10-3	Handle (Lower)		U6196H04
11	Cap		U5341G01
12	Trigger ASSY (12-1 12-2 12-3)		U6205T00
12-1	Trigger		U6190T01
12-2	Trigger spring		U6190T02
12-3	Switch ASSY		U6205Q00
13	Lock ring		U6205H05
14	End joint		U5626R01
15	Hose sheath	U2180D06	U6214M01
16	Binder (SKB-3MC black)		4739-189
17	Spring		U5626M04
18	Cable support (with screw, M4×18:4)		U6211S00
19	Liner (1.2~1.6mm)	U6199L00	U6207L00
20	Power cable	U6211D00	U6212D00
21	Water out hose		U6211E00
22	Water in hose	U6211F00	U6212F00
23	Switch cord	U6205G00	U6207G00
24	Conduit	U6205J00	U6207J00
24-1	Socket screw (M4×4)		100-1715
25	Adaptor nut		U6211X00
26	Adaptor		U6211V00
26-1	O-Ring		3570-125
26-2	Small screw (M4×8)		3361-677
27	Liner nut		U4167G06
28	Control cable	U6205P00	U6207P00
29	Heat shield (Standard)		U6257E00

No.	Part description	BT2000F		BT3500F		
		30	40	30	45	60
1	Nozzle	U5342N00		U4167G01		
2	Insulator	—		U4167L00		
3	Tip	K980C24		K980C26		
4	Orifice	—		U4167G02		
5	Flexible torch body	U5339S00		U5339K00		
5-1	Torch body guard	—		U5339L07		
5-2	Tip body	K5043C01		K4945C01		
5-3	Flexible cap	—		K4945C02		
5-4	O-Ring (S9-4D)	—		3574-001		
6	Inner liner (0.8~1.2mm)	—		U5003L82		
7	Cap	—		U5341G01		
8	Handle KIT (8-1 8-2, with screw, M4×16:3)	—		U6257C00		
8-1	Handle (L/R)	—		U6257D00		
8-2	Handle (Lower)	—		U6190H03		
9	Trigger ASSY (9-1 9-2 9-3)	—		U6190T00		
9-1	Trigger	—		U6190T01		
9-2	Trigger spring	—		U6190T02		
9-3	Switch ASSY	—		U6190Q00		
10	Cable support (with screw, M4×16:4)	—		U6190S00		
11	Liner (3.0m) (0.6~0.9mm)	[U4353G01]	—	—	—	—
	Liner (3.0m) (0.9~1.2mm)	U4186G01	—	U4170H02	—	—
	Liner (4.0m) (0.8~0.9mm)	—	[U4187H01]	—	—	—
	Liner (4.0m) (0.9~1.2mm)	—	U6192L00	—	—	—
	Liner (4.5m) (1.0~1.2mm)	—	—	—	U6194L00	—
	Liner (6.0m) (1.2mm)	—	—	—	—	U6195L00
12	Power cable (3.0m) (with screw, M5×12)	U6191D00	—	U6193D00	—	—
	Power cable (4.0m) (with screw, M5×12)	—	U6192D00	—	—	—
	Power cable (4.5m) (with screw, M5×12)	—	—	—	U6194D00	—
	Power cable (6.0m) (with screw, M5×12)	—	—	—	—	U6195D00
13	Adaptor nut	U4167F03				
14	Adaptor (with screw, M4×8)	U4167E00				
14-1	O-Ring	3570-125				
15	Liner nut	U4167G06				

* [] : Optional parts

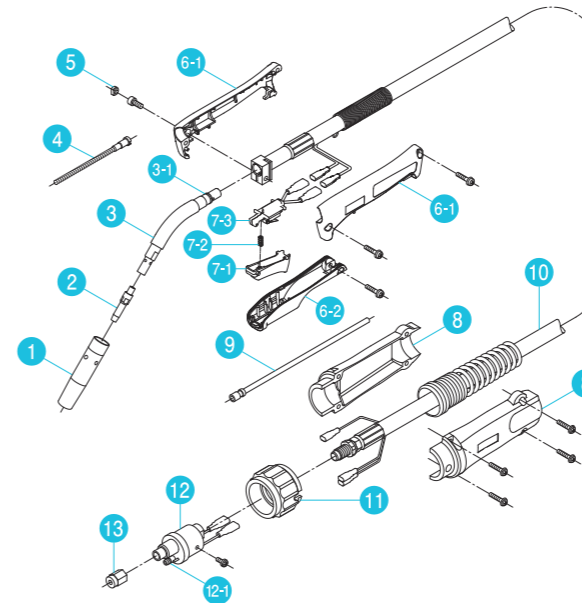
BT3510F (350A)
BT3520F (350A)



* [] : Optional parts

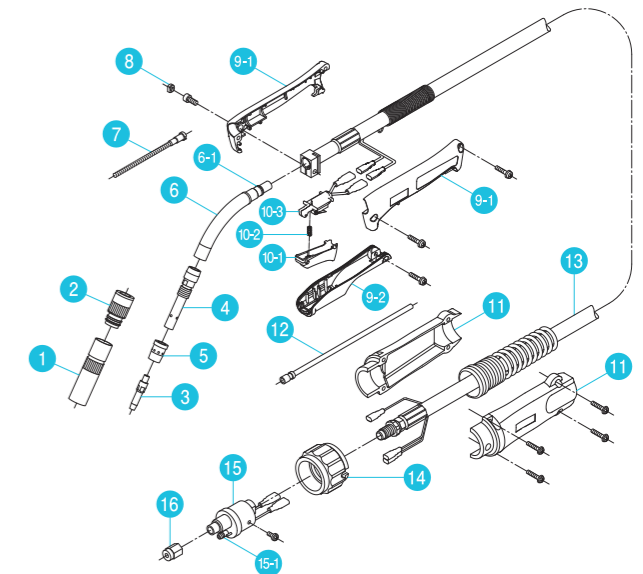
No.	Part description	BT3510F			BT3520F		
		30	45	60	30	45	60
1	Nozzle	U4167G01			U4167H16		
2	Insulator	U4167L00					
3	Tip	K980C26			K980C73		
4	Orifice	U4167G02					
5	Flexible torch body	U5339L00					
5-1	Torch body guard	K5461B04					
5-2	Tip body	K4945C01					
5-3	Flexible cap	K4945C02					
5-4	O-Ring (S9-4D)	3574-001					
6	Inner liner (0.8~1.2mm)	U5003L82			—		
	Inner liner (1.2~1.6mm)	[U5003L26]			U5003L26		
7	Handle KIT (7-1 7-2 7-3 7-4)	U6256C00					
7-1	Handle (L/R)	U6256D00					
7-2	Handle (Upper)	U6196H03					
7-3	Handle (Lower)	U6196H04					
7-4	Lock ring	U6196H05					
8	Cap	U5341G01					
9	Trigger ASSY (9-1 9-2 9-3)	U6190T00					
9-1	Trigger	U6190T01					
9-2	Trigger spring	U6190T02					
9-3	Switch ASSY	U6190Q00					
10	Cable support (with screw, M4×16:4)	U6190S00					
11	Liner (3.0m) (0.9~1.2mm)	U4170H02	—	—	—	—	
	Liner (3.0m) (1.2~1.6mm)	[U6199L00]	—	—	U6199L00	—	
	Liner (4.5m) (1.0~1.2mm)	—	U6194L00	—	—	—	
	Liner (4.5m) (1.2~1.6mm)	—	[U6200L00]	—	—	U6200L00	
	Liner (6.0m) (1.2mm)	—	—	U6195L00	—	—	
	Liner (6.0m) (1.2~1.6mm)	—	—	[U6201L00]	—	U6201L00	
12	Power cable (3.0m) (with screw, M5×14)	U6196D00	—	—	U6199D00	—	
	Power cable (4.5m) (with screw, M5×14)	—	U6197D00	—	—	U6200D00	
	Power cable (6.0m) (with screw, M5×14)	—	—	U6198D00	—	U6201D00	
13	Adaptor nut	U4167F03					
14	Adaptor (with screw, M4×8)	U4167E00					
14-1	O-Ring	3570-125					
15	Liner nut	U4167G06					

BTA180 (180A)



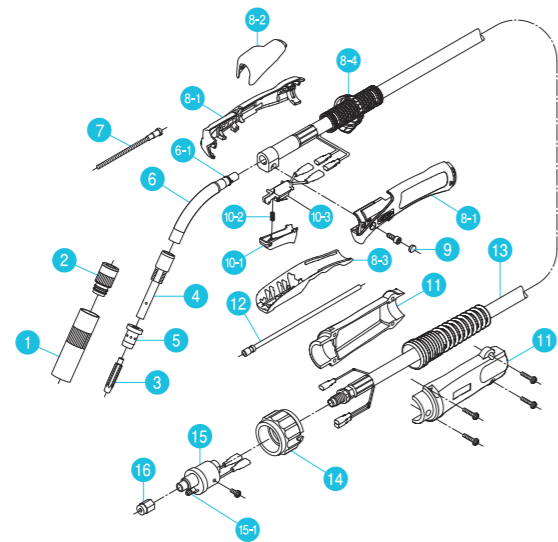
No.	Part description	BTA180-20
1	Nozzle (I.D.13mm)	U4356H00
2	Tip (0.8mm)	K980C23
3	Torch body	U5020C00
3-1	O-Ring (S9-4D)	3574-001
4	Inner liner	U5631G01
5	Cap	U5341G01
6	Handle KIT (6-1 6-2, with screw, M4×16:3)	U6257C00
6-1	Handle (L/R)	U6257D00
6-2	Handle (Lower)	U6190H03
7	Trigger ASSY (7-1 7-2 7-3)	U6190T00
7-1	Trigger	U6190T01
7-2	Trigger spring	U6190T02
7-3	Switch ASSY	U6190Q00
8	Cable support (with screw, M4×16:4)	U6190S00
9	Liner (0.8mm)	U4356G01
10	Power cable (with screw, M5×12)	U6312D00
11	Adaptor nut	U4167F03
12	Adaptor (with screw, M4×8)	U4167E00
12-1	O-Ring	3570-125
13	Liner nut	U4167G06

BTA200 (200A)



No.	Part description	BTA200-30
1	Nozzle (I.D.13mm)	U4544F01
2	Insulator	U4167L00
3	Tip (1.2mm)	K980C40
4	Tip body	U5632G01
5	Orifice	U4167G02
6	Torch body	U6313B00
6-1	O-Ring (S9-4D)	3574-001
7	Inner liner	U5632G02
8	Cap	U5341G01
9	Handle KIT (9-1 9-2, with screw, M4×16:3)	U6257C00
9-1	Handle (L/R)	U6257D00
9-2	Handle (Lower)	U6190H03
10	Trigger ASSY (10-1 10-2 10-3)	U6190T00
10-1	Trigger	U6190T01
10-2	Trigger spring	U6190T02
10-3	Switch ASSY	U6190Q00
11	Cable support (with screw, M4×16:4)	U6190S00
12	Liner (1.0~1.2mm)	U4432G02
13	Power cable (with screw, M5×12)	U6193D00
14	Adaptor nut	U4167F03
15	Adaptor (with screw, M4×8)	U4167E00
15-1	O-Ring	3570-125
16	Liner nut	U4167G06

BTA300 (300A)
BTS300 (300A)

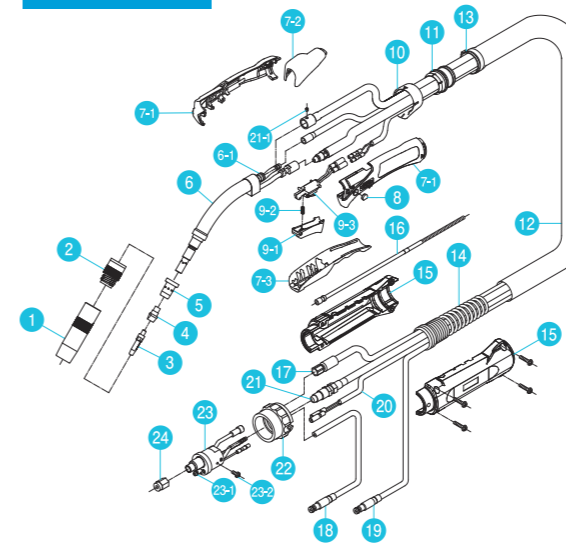


*[] : Optional parts

No.	Part description	BTA300-30
1	Nozzle (I.D.16mm)	U4432G01
2	Insulator	U5377L00
3	Tip (1.2mm)	K980C37
4	Tip body	U4400G01
5	Orifice	U4173G02
6	Torch body	U6314B00
6-1	O-Ring (S9-4D)	3574-001
7	Inner liner	U4432G03
8	Handle KIT (8-1 8-2 8-3 8-4)	U6256C00
8-1	Handle (L/R)	U6256D00
8-2	Handle (Upper)	U6196H03
8-3	Handle (Lower)	U6196H04
8-4	Lock ring	U6196H05
9	Cap	U5341G01
10	Trigger ASSY (10-1 10-2 10-3)	U6190T00
10-1	Trigger	U6190T01
10-2	Trigger spring	U6190T02
10-3	Switch ASSY	U6190Q00
11	Cable support (with screw, M4×16:4)	U6190S00
12	Liner (1.0~1.2mm)	U4432G02
	Liner (1.6mm)	[U4432G04]
13	Power cable (with screw, M5×14)	U6314D00
14	Adaptor nut	U4167F03
15	Adaptor (with screw, M4×8)	U4167E00
15-1	O-Ring	3570-125
16	Liner nut	U4167G06

No.	Part description	BTS300-30
1	Nozzle (I.D.16mm)	U2774E04
2	Insulator	U4173L00
3	Tip (1.2mm)	U4167H12
4	Tip body	U4400G01
5	Orifice	U4173G02
6	Torch body	U6199B00
6-1	O-Ring (S9-4D)	3574-001
8	Handle KIT (8-1 8-2 8-3 8-4)	U6256C00
8-1	Handle (L/R)	U6256D00
8-2	Handle (Upper)	U6196H03
8-3	Handle (Lower)	U6196H04
8-4	Lock ring	U6196H05
9	Cap	U5341G01
10	Trigger ASSY (10-1 10-2 10-3)	U6190T00
10-1	Trigger	U6190T01
10-2	Trigger spring	U6190T02
10-3	Switch ASSY	U6190Q00
11	Cable support (with screw, M4×16:4)	U6190S00
12	Liner (0.9~1.2mm)	U4170H02
13	Power cable (with screw, M5×14)	U6196D00
14	Adaptor nut	U4167F03
15	Adaptor (with screw, M4×8)	U4167E00
15-1	O-Ring	3570-125
16	Liner nut	U4167G06

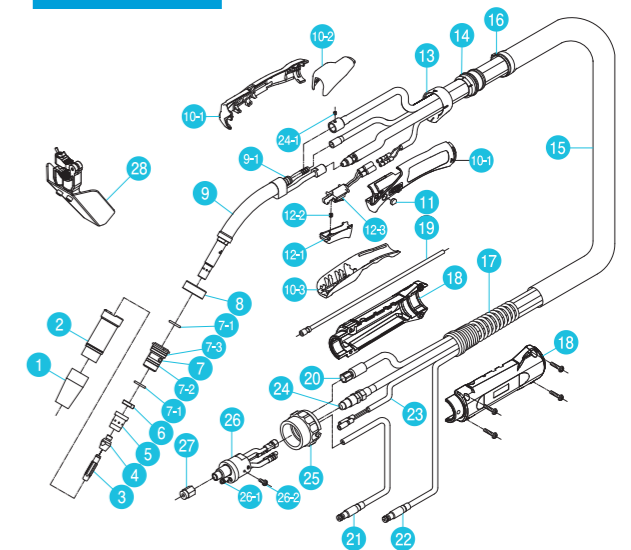
BTAW400 (400A)



*[] : Optional parts

No.	Part description	BTAW400-30
1	Nozzle (I.D.17mm)	U5377G01
2	Insulator	U5626X00
3	Tip (1.2mm) (M6)	K980B20
4	Tip Nut (M6)	U5626M01
5	Orifice	U4173G02
6	Torch body	U6315B00
6-1	O-Ring (S9-4D)	3574-001
7	Handle KIT (7-1 7-2 7-3)	U6256V00
7-1	Handle (L/R)	U6256D00
7-2	Handle (Upper)	U6196H03
7-3	Handle (Lower)	U6196H04
8	Cap	U5341G01
9	Trigger ASSY (9-1 9-2 9-3)	U6205T00
9-1	Trigger	U6190T01
9-2	Trigger spring	U6190T02
9-3	Switch ASSY	U6205Q00
10	Lock ring	U6205H05
11	End Joint	U5626R01
12	Hose sheath	U6205R00
13	Binder	4739-606
14	Spring	U5626M04
15	Cable support (with screw, M4×18:4)	U6205S00
16	MIG Liner (1.0~1.2mm)	U6315L00
	MIG Liner (1.6mm)	[U6315Q00]
17	Power cable	U5626D00
18	Water out hose	U5626F00
19	Water in hose	U5626G00
20	Switch cord	U6205G00
21	Conduit	U6205J00
21-1	Socket screw (M4×4)	100-1715
22	Adaptor nut	U4167F03
23	Adaptor	U6315V00
23-1	O-Ring	3570-125
23-2	Small screw (M4×8)	3361-677
24	Liner nut	U4167G06

BTAW500 (500A)



No.	Part description	BTAW500-30
1	Nozzle (I.D.17mm)	U6369M02
2	Nozzle ASSY	U6369X00
3	Tip (1.6mm) (M8)	K980D43
4	Tip nut (M8)	U6369M01
5	Orifice	U5685M02
6	Nut	U6369M04
7	Insulator	U6369N00
7-1	O-Ring (P14-4D)	3574-005
7-2	O-Ring (P16-4D)	3574-006
7-3	O-Ring (P20-4D)	6500-318
8	Cap nut	U6369M03
9	Torch body	U6369B00
9-1	O-Ring (S9-4D)	3574-001
10	Handle KIT (10-1 10-2 10-3)	U6256V00
10-1	Handle (L/R)	U6256D00
10-2	Handle (Upper)	U6196H03
10-3	Handle (Lower)	U6196H04
11	Cap	U5341G01
12	Trigger ASSY (12-1 12-2 12-3)	U6205T00
12-1	Trigger	U6190T01
12-2	Trigger spring	U6190T02
12-3	Switch ASSY	U6205Q00
13	Lock ring	U6205H05
14	End joint	U5626R01
15	Hose sheath	U2180D06
16	Binder (SKB-3MC black)	4739-189
17	Spring	U5626M04
18	Cable support (with screw, M4×18:4)	U6211S00
19	MIG liner (1.2~1.6mm)	U6315Q00
20	Power cable	U6211D00
21	Water out hose	U6211E00
22	Water in hose	U6211F00
23	Switch cord	U6205G00
24	Conduit	U6347J00
24-1	Socket Screw (M4×4)	100-1715
25	Adaptor nut	U6211X00
26	Adaptor	U6211V00
26-1	O-Ring	3570-125
26-2	Small screw (M4×8)	3361-677
27	Liner nut	U4167G06
28	Heat shield	U6257E00

CO₂/MAG/MIG welding DIGITAL RAKURAKU TORCH

BLUE TORCH III

Work efficiency is greatly improved with a torch cable length of **12m** max.

Consistent aluminum welding can be achieved.

Excellent wire feed performance enables welding with soft aluminum wire of 0.8mm diameter. The high shielding performance enables to create a beautiful bead appearance without weld defect such as blowhole.

The need for carrying the wire feeder can significantly be reduced.

The work envelope from a wire feeder can be expanded up to four times (12m) as compared to a 3m long conventional aluminum torch; this reduces the frequency of carrying the wire feeder and greatly improves work efficiency.



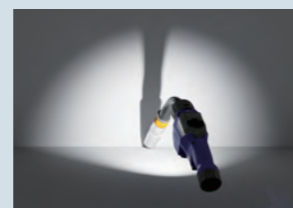
Work efficiency can be improved by operation at hand.

The remote control panel mounted on the torch handle enables to operate at hand for changing the welding parameters and inching the wire. This saves the trouble of returning to the wire feeder or welding power source, thereby improving work efficiency.

Display panel
Operating button

Equipped with LED illumination function.

You can access to a welding starting point easily even in a dark work area with this LED mounted torch, that can illuminate brightly in a wide area.



LED

Standard specifications

Handle shape	For Mild steel		For Aluminum	
	Standard handle	Gan grip handle	Standard handle	Gan grip handle
Model	BTP30D-12 (06, 08, 10) ^{*1}	BTPG30D-12 (06, 08, 10) ^{*1}	BTPA30D-12 (06, 08, 10) ^{*1}	BTPAG30D-12 (06, 08, 10) ^{*1}
Rated current Duty cycle	CO ₂ /MAG	300A 35%	—	
	Pulse MAG	250A 35%	—	
	MIG	—	280A 35%	—
	Pulse MIG	—	250A 35%	—
Cable length	12, (6, 8, 10) m ^{*1}			
Wire diameter ^{*2 *3}	Mild steel	(0.8), (0.9), (1.0), 1.2, (1.4), (1.6)mm		
	Mild steel cored	(1.2), (1.4), (1.6)mm		
	Hard/Soft aluminum	—		
Cooling system	Air cooling			
Welding power source ^{*4}	WB-M400, WB-M500, WB-P400, WB-P500L, WB-W400		WB-P400, WB-P500L, WB-W400	
Wire feeder	CM-7403		CMA-7403	

*. The use of Pull Torch requires separately Pull Torch KIT (for wire feeder and welding power source), and control cable.

*1. 6, 8, and 10m cables are build-to-order products.

*2. Stainless steel wires are not applicable.

*3. The standard tip installed is 1.2mm diameter. If you use a wire diameter given in parentheses, an optional product is required.

*4. The low-spatter mode cannot be used with WB-P500L.

CO₂ welding Wind resistance/semi-wind resistance torch system

BLUE TORCH

Your welding power source can immediately be changed to the wind resistant or semi-wind resistant.

This system is effective for all outdoor welding

This system is effective for all outdoor welding work such as pier reinforcement work, bridge construction, steel frame construction, and civil construction.

CO₂ welding can be applied.

- High efficiency welding shortens construction time.
- High quality welding improves reliability.

Windbreak measures can be lightened.

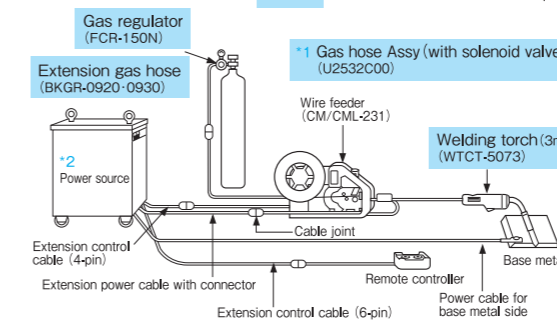
- It saves welding preparation work significantly.



Wind resistance torch system (Wind speed 10m / sec or less)

Connection diagram

This color indicates standard components.

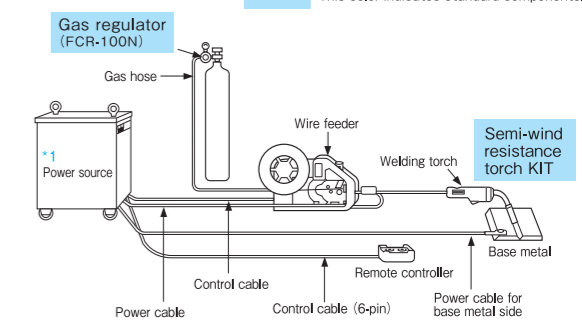


- *1. Detach the gas solenoid valve and gas hose from the standard wire feeder, and then install the gas hose assembly.
- *2. For the welding power source, refer to welding power source table.

Semi-wind resistance torch system (Wind speed 5m / sec or less)

Connection diagram

This color indicates standard components.



- *1. For the welding power source, refer to welding power source table.

Configuration (wind resistance)

Product name	Model (Parts No.)
Gas hose Assy (with solenoid valve)	U2532C00
Welding torch	WTCT-5073
Gas regulator (150ℓ/Min.)	FCR-150N
Wire feeder	CM-231, CML-231

Standard specifications (wind resistance)

Model	WTCT-5073
Maximum current	500A (CO ₂)
Duty cycle	70% (CO ₂)
Wire diameter	(1.0), 1.2, (1.4), 1.6 mm φ
Cooling system	Air cooling
Cable length	3m
Mass	5.5kg (including cable)

Extension gas hose (for wind resistance)

Product name	Model
Extension gas hose (20m)	BKGR-0920
Extension gas hose (30m)	BKGR-0930

* In the case of wind resistant specification, the standard extension gas hose cannot be used due to the gas flow rate. Please use a dedicated hose.

Configuration (semi-wind resistance)

Product name	Model (Parts No.)	
Semi-wind resistance torch KIT	Blue torch ZB type (for 40mm tip) ^{*1}	K1897U00
	Blue torch II-III (for 45mm tip) ^{*2}	K8071M00
Gas regulator (100ℓ/Min.)	FCR-100N	

- *1. The welding torches of WT3510-S(M/L) ZB and WT5000-S(M) ZB can be installed.
- *2. The welding torches of WT3510, WT3520, WT5000, BT3510, BT3520, and BT5000 can be installed.

Semi-wind resistance torch KIT



Parts details

Product name	Parts No.			
	Nozzle	Orifice	Nozzle body	Tip body
Blue torch ZB type (for 40mm tip)	U2557J01	U2526D03	U845R00	U2638H01
Blue torch II-III (for 45mm tip)	K8071M02	U2526D03	U845R00	K8071M01

Welding power source table

Model	Wind resistance	Semi-wind resistance
XD200-600	*1 ○	○
XD350 II-500 II	*1 ○	○
XD500G-600G	○	○
Welbee Inverter M400-M500 (G)	×	○
DM350-500	×	○
CPV600	○	○

- *1. The wind resistant specifications of DYNA AUTO XD200, 350II, 500II, and 600 are used with CM/CML-231, and thus an optional remote controller is needed. Please contact our sales office for details.

Optional remote controller	XD200	XD350 II	XD500 II	XD600
	K5321E00	K5321B00	K5321H00	K5321L00

Caution

The power supply for the heater of the wind resistant/semi-wind resistant CO₂ gas flow regulator cannot be taken from the standard built-in outlet of the welding power source (FCR-100N-6A, FCR-150N-8A).

CO₂/MAG welding torch for automatic machine

Four types of torch heads are available according to the work shape.

- | | |
|--|--|
| 1 Curved
Clump position fixed. | 3 Straight
Clump position fixed |
| 2 Curved
Clump position variable | 4 Straight
Clump position variable |

By using selectively the clamp position fixed type that has excellent positioning repeatability and the clamp position variable type that can be fixed at any position, work efficiency can be improved.

High-precision FA chip is equipped as standard.

- Wire-targeting deviation can be suppressed.
- The optimized shape of the tip end provides excellent gas shielding properties and suppresses spatter adhesion.

Consumable parts such as insulators, nozzles and orifices are shared with semi-automatic torches.

The efficiency of parts inventory management can be improved.

● Standard specifications

Model	350A type				500A type			
	WT350PD	WT350RD	WT350PA	WT350RA	WT500PD	WT500RD	WT500PA	WT500RA
Rated current	350A (CO ₂ /MAG)				500A (CO ₂) / 450A (MAG)			
Wire diameter	(0.9), (1.0), 1.2, (1.4)mm*1				(1.2), 1.4, (1.6) mm			
Duty cycle	60% (CO ₂) / 35% (MAG)				60% (CO ₂) / 30% (MAG)			
Cable length	10cm increments from 1m to 6m.*2				10cm increments from 1m to 6m.			
Cooling system	Air cooling				Air cooling			

*1. If you use a wire diameter given in parentheses, an optional product is required.

*2. 0.9mm diameter wires cannot be used for cable lengths of 3.1m to 4.5m, and 0.9 and 1.0mm dia. wires for cable lengths of 4.6m to 6m.

● Torch type

WT 350 P D - 15 D

BlueTorch II Series

Torch body
P: Straight type
R: Curved type

Rated current
350: 350A
500: 500A

Clamp position
D: Fixed type
A: Variable type

Cable length*2
15: 1.5m
20: 2.0m
25: 2.5m
30: 3.0m

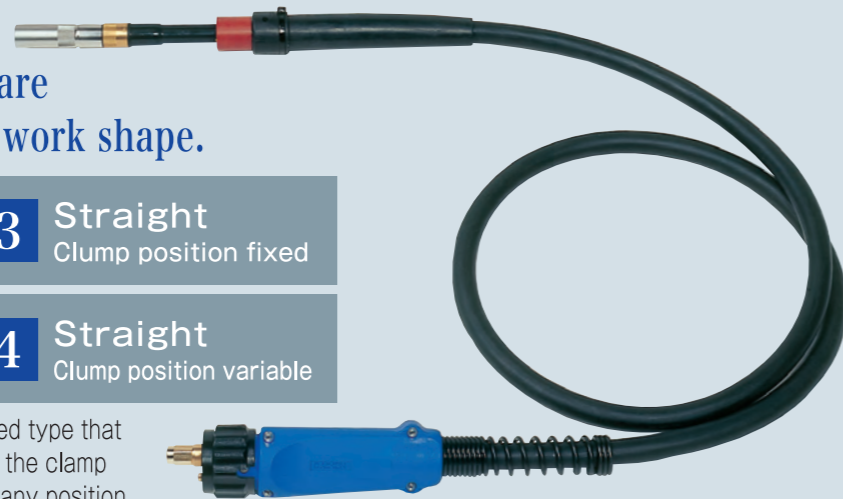
Direct plugs

- D: OTC Blue Torch
- DB: OTC Black Torch*1
- P: Panasonic
- E: Euro(Binzel)
- M: Miller
- MS: Miller(Separate Gas Hose)
- H: Hobart(Tweco)
- L: Lincoln
- FS: DAIDEN FS Series
- DM: DAIDEN MOVE Series
- HT: Hitachi

Power cable adppter	Outlet guide	Guide adppter
U2853G00	U69B34(0.9-1.2) U69B35(1.2-1.6)	U785C13

*1. Power cable adapter, guide adapter and outlet guide are not included. Use the parts you are currently using with your torch. If you need a new part, please order one from the table above as needed.

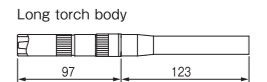
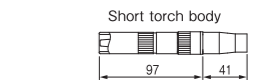
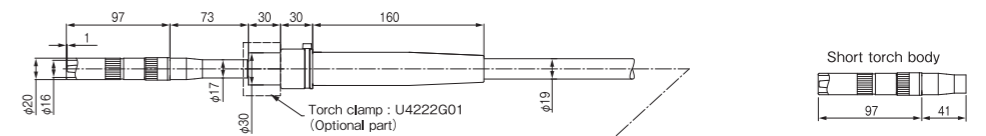
*2. It is available in 10cm increments from 1m to 6m (build-to-order products).



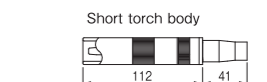
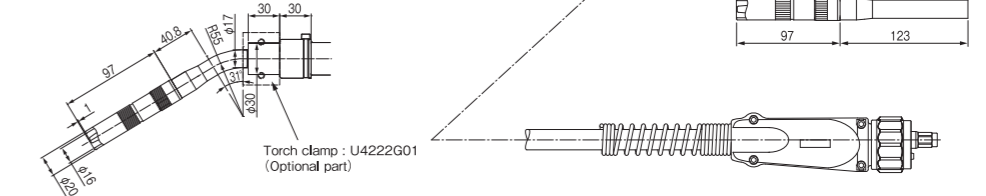
● Dimensional outline drawing

Clamp position fixed type

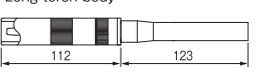
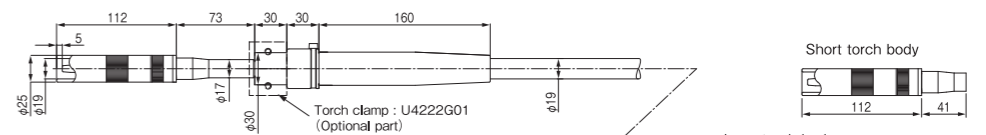
WT350PD



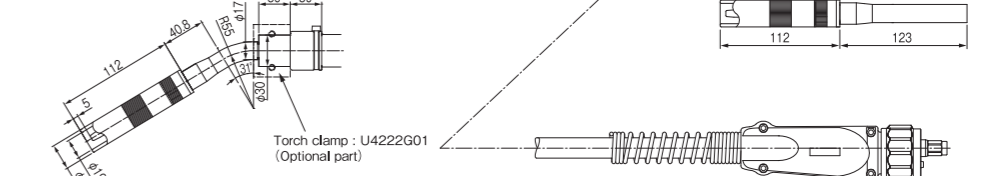
WT350RD



WT500PD

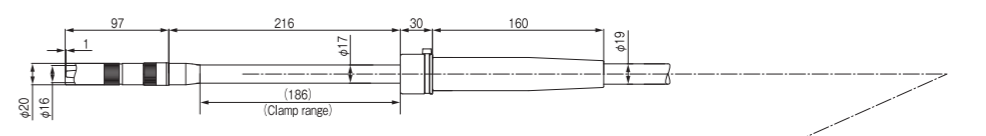


WT500RD

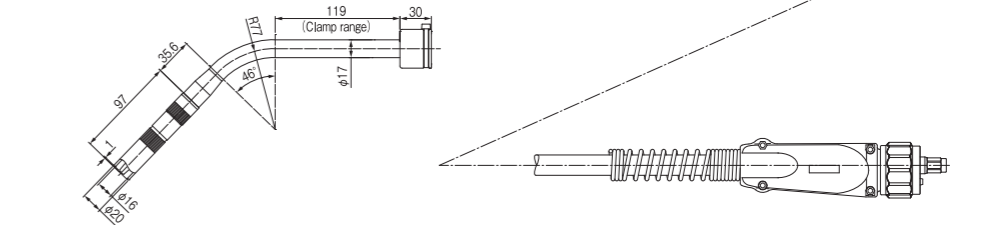


Clamp position variable type

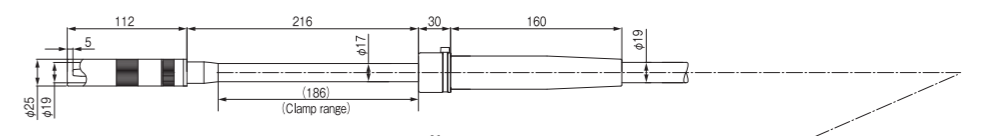
WT350PA



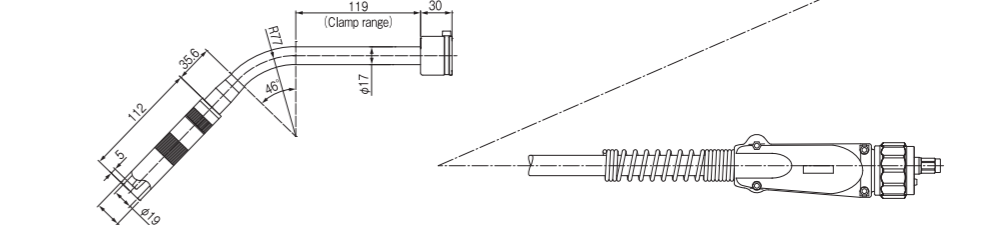
WT350RA



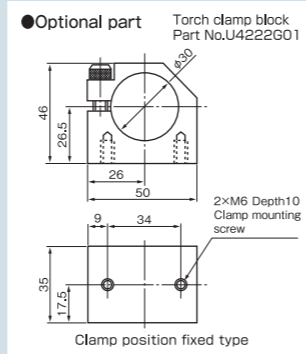
WT500PA



WT500RA



(mm)



● Torch type

BT **3510** - **30**

Blue Torch III Series
Cooling system: None: Air cooling, W: Water cooling
Welding method: None: Mild steel, A: Aluminum, S: Stainless steel
Rated current: 180: 180A, 200: 200A, 350: 350A (Duty cycle30%), 351: 350A (Duty cycle60%), 352: 350A (Duty cycle80%), 400: 400A, 450: 450A, 500: 500A
Specification: F: Flexible, V: Voltage detection adaptor
Cable length: 20: 2.0m, 30: 3.0m, 40: 4.0m, 45: 4.5m, 60: 6.0m

Direct plugs
D: Blue Torch
DB: Black Torch *1
P: Panasonic
E: Euro (Binzel)
M: Miller
MS: Miller (Separate Gas Hose)
H: Hobart (Tweco)
L: Lincoln
FS: DAIDEN FS Series
DM: DAIDEN MOVE Series
HT: Hitachi

One-touch connection is also possible by attaching an adaptor to the wire feeder of each manufacturer that you currently use.

Model	Power cable adaptor	Outlet guide	Guide adaptor
BT1800		U2770K01 (0.6-0.8)	U785C13
BT2000	U2772G00	U2075J03 (0.8-1.0)	
BT3500	U3286G00	U69B34 (0.9-1.2)	
BT3510	U2853G00		
BT3520		U69B35 (1.2-1.6)	
BT5000	U2774G00		

*1. Power cable adaptor, guide adaptor and outlet guide are not included. Use the one that is attached to your current torch or order the parts separately as per the table at the top right.
*2. If an adaptor for Blue Torch is attached to the wire feeder, the standard adaptor (void: Daihen Blue Torch) should be used.

Parts for Blue Torch III A complete lineup of replacement parts for high-quality welding.

Standard parts list and replacement nozzle (CO₂/MAG)

Model	Standard parts list			Replacement nozzle (Option)				
	Tip body	Insulator	Orifice	Standard nozzle	Low current	High current	Arc spot	Deep and narrow space
BT1800-30				U4186L00 77.5 φ13 φ16		U4186P00 77.5 φ13 φ16	U4186M00 85.5 φ13 φ16	U4186R00 103 φ10 φ13
BT2000-30 (40)				U5342N00 75.5 φ13 φ16		U5342P00 75.5 φ13 φ16	U5342Q00 83.5 φ13 φ16	Combine with long tip
BT2000F-30 (40)	K5043C01 67.5 M10×1 W7/16							
BT3500-30 (45, 60)	U4170G03 71.5 M12×1 W1/2			U4167G01 73 φ13 φ16		U4167H16 73 φ13 φ16	U4170H01 81 φ13 φ16	U4167H04 100 φ10 φ13
BT3510-30 (45, 60)	U4167G03 79.5 M14×1 W1/2							
BT3520-30 (45, 60)	U4167G03 79.5 M14×1 W1/2	U4167L00 W1/2	U4167G02 21 φ15.5 φ14	U4167H16 73 φ13 φ16	U4167H01 73 φ13 φ16	U4167H02 77 φ13 φ16	U4167H03 88 φ13 φ16	Combine with long tip
BT3500F-30 (45, 60)		φ17.5×φ15.5×4						
BT3510F-30 (45, 60)	K4945C01 67.5			U4167G01 73 φ13 φ16		U4167H16 73 φ13 φ16	U4170H01 81 φ13 φ16	
BT3520F-30 (45, 60)				U4167H16 73 φ13 φ16		U4167H02 77 φ13 φ16	U4167H03 88 φ13 φ16	
BT5000-30 (45, 60)	U4173G21 90 M14×1 M14×2	U4173L00 M14×2 φ21.5×φ18.6×5	U4173G02 26 φ19.8 φ14	U4173G01 88 φ13 φ16	U5353V01 84 φ13 φ16			U4173H02 100 φ10 φ13

Standard parts list and replacement nozzle (MIG)

Model	Standard parts list			Replacement nozzle (Option)		
	Tip body	Insulator	Orifice	Standard nozzle	Low current	Deep and narrow space
BTA180-20				U4356H00 82.5 φ13 φ16	U4186L00 77.5 φ13 φ16	U4186R00 103 φ10 φ13
BTA200-30	U5632G01 72.5 M12×1 W1/2	U4167L00 W1/2 φ17.5×φ15.5×4	U4167G02 21 φ15.5 φ14	U4544F01 78 φ13 φ17		U4167H04 100 φ10 φ13
BTA300-30	U4400G01 83 M14×1 M14×2	U5377L00 M14 φ21.5×φ18.6×5	U4173G02 26 φ19.8 φ14	U4432G01 81 φ13 φ16	L6098E09 81 φ13 φ16	

Torch body combination table

(● Standard built-in product ○ Parts that can be attached)

Model	Torch body											
	R	55	76	77	115	130	100	55	76	77	115	130
	θ	45°					50°		55°			
	Part No.	U5020C00	U5344B00	U5347B00	U5350B00	U5339R00	U5339E00	U5020B00	U6193B00	U6196B00	U6199B00	U6202B00
BT1800-30		○						○				
BT2000-30 (40)		○						○				
BT3500-30 (45, 60)			○				○		○			
BT3510-30 (45, 60)				○	○					○	○	
BT3520-30 (45, 60)				○	○					○	○	
BT5000-30 (45, 60)				○	○						○	○

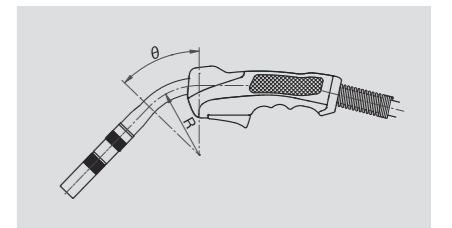
Model	Torch body										
	Shape	Straight				Flexible			Long neck		
	Part No.	U5020S00	U5339G00	U5339H00	U5339J00	U5339S00	U5339K00	U5339L00	U5020Q00	U5339M00	U5339N00
BT1800-30		○				○			○		
BT2000-30 (40)		○				○			○		
BT3500-30 (45, 60)			○				○			○	
BT3510-30 (45, 60)				○				○			○
BT3520-30 (45, 60)					○						○
BT5000-30 (45, 60)					○						○
BT2000F-30 (40)						○					
BT3500F-30 (45, 60)							○				
BT3510F-30 (45, 60)								○			
BT3520F-30 (45, 60)									○		

* The dimension values are reference values.

Inner liner (Option)

Wire diameter	Part No.
0.6~0.9mm	U5003L69
0.8~1.2mm	U5003L82
1.2~1.6mm	U5003L26

* Each inner liner can be attached to all Blue Torch III. Please select according to the wire diameter.



Tip

Welding method	Low current / Low duty cycle		High current / High duty cycle	
	Short	Pulse	Stainless steel	Aluminum
CO ₂	A Tip FA Tip		T Tip (High current)	CW Tip (High durability)
MAG		MAG Tip		
MIG		CC Tip (High quality)	Aluminum Tip	

Wire diameter	A tip (Standard)		FA tip	T tip		MAG tip	CW tip
	Solid	Cored	Automatic	Solid-40L	Cored		
0.6 mm	K980B96	—	—	—	—	—	—
0.8 mm	K980C23	—	—	K980B31	K662B13	—	—
0.9 mm	K980C24	—	L7250C02	K980B32	K662B12	U4167H14	—
1.0 mm	K980C25	—	L7250C03	K980C10	K980C17	U4167H13	K990E10
1.2 mm	K980C26	K980C73	L7250C04	K980C12	K980C19	U4167H12	K990E12
1.4 mm	K980C27	K980C74	L7250C05	K980C13	K980C20	U4167H11	K990E14
1.6 mm	K980C28	—	L7250C06	K980C14	K980C21	U4167H10	K990E16

Wire diameter	Aluminum tip				CC tip	
	For air cooling-45L (BTA180,200)	For air cooling-45L (BTA300)	For water cooling-40L (BTAW400)	For water cooling-40L (BTAW500)	For air cooling-45L (BTA300)	For water cooling-40L (BTAW400)
0.8 mm	K980C23	—	—	—	—	—
1.0 mm	K980C39	K980C36	—	—	K990C10	—
1.2 mm	K980C40	K980C37	K980B20	K980D42	K990C12	K990B12
1.6 mm	—	K980C38	K980B21	K980D43	—	K990B16

Long life contact tips for steel welding CW tips

Tungsten alloy is used at the top of the contact tip, which increases the mechanical strength and heat resistance of the tip, thereby enabling long-term welding.



High-quality contact tip for aluminum MIG welding CC tips

Adopting the forced power supply method, it prevents power supply failure, and thus arc length and current fluctuations are unlikely to happen, so welding is stable and can be maintained for a long time.

