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

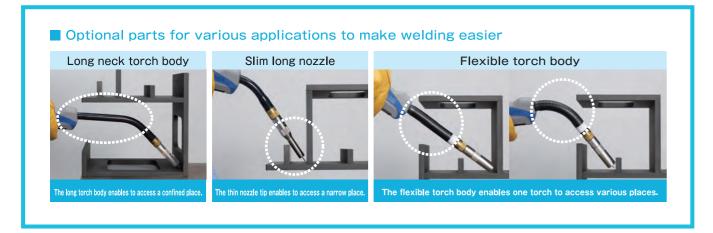
Handle Applicable torch: BT3510.3520.5000/BTW450.500/BTA400/BTAW400.500







- *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



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. $\label{eq:continuous}$

Feb.2020 CAT.NO.B221803A



CO2/MAG/MIG Welding Torch

BLUE TORCH III



Extensive lineup of models for 180A to 500A

DAIHEN Corporation

Access here for ideo of hand exchange.

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.





Comparison of contact area The white part is the palm-grip contact area.

Larger the white area, easier the gripping

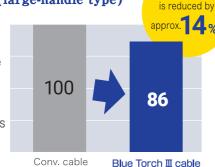
More flexible torch cable than that of conventional Blue Torch

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.

> Comparison of operator-sensed torch mass

* Comparison with a conventional cable whose operator-sensed mass is defined as 100.





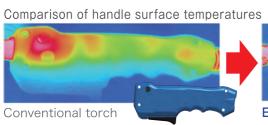
Blue Torch III Conv. cable flexible

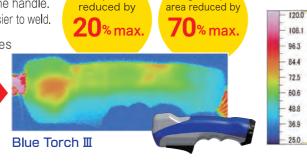
Hard to get heated

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.

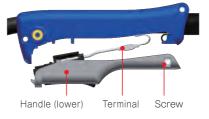
triggers can easily

Trigger reduced by approx.859

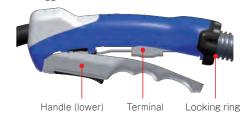
exchange time

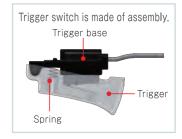
Small-handle type Remove the screw (in lower handle) and

then the trigger terminal



Large-handle type Remove the locking ring and then the trigger terminal.





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





The connector follows that for Blue Torch ${\rm I\hspace{-.1em}I}$ and can easily be connected to an existing wire feeder

Access here for

video of trigger exchange

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	Sma	all handle t	уре	Lar	ge 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					

For CO ₂ /MAG	For Wate	r cooling	For Lo	w spatter w	relding
Rated current	450A(CO2) 450A(MAG) 350A(パルスMAG)	500A(CO2) 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%(CO2) 30%(MAG)	30%(CO ₂) 30%(MAG)	60%(CO2) 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(CO2) 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	G 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

- * 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 mode), 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.

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).

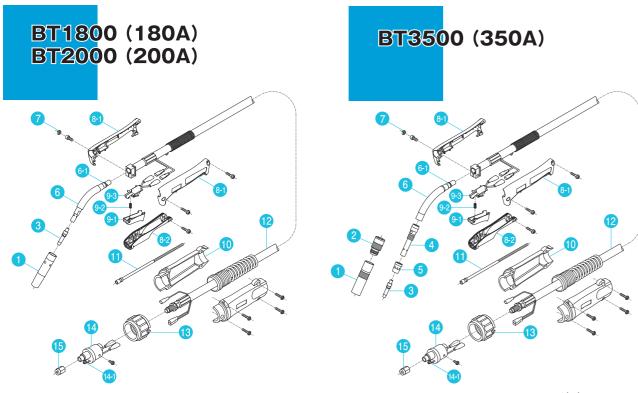
■ Reduction of blowholes

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.

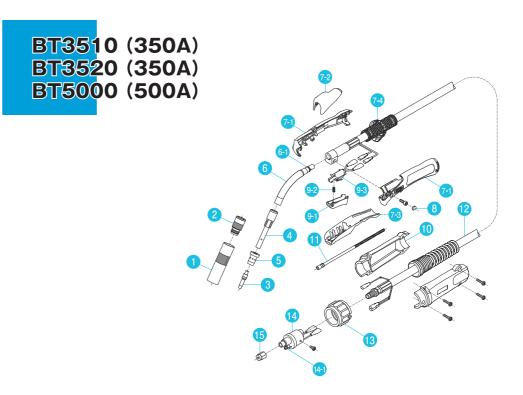
■ High shielding performance ■ Improved cleaning workability by adapting the split nozzle structure



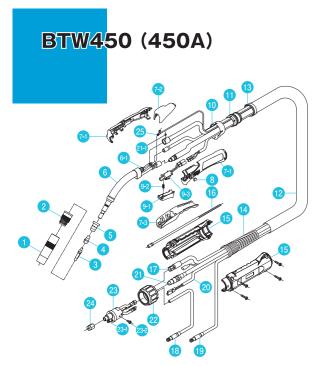
by reducing the occurrence of blowhole.



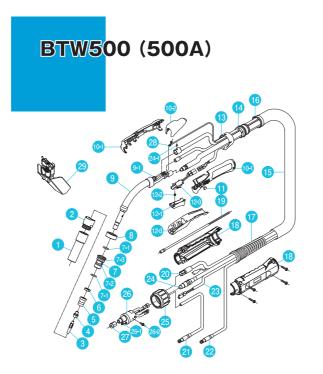
							*[]: Optional parts
NI-	Doub doorwinking	BT1800	BT2	000		BT3500	
No.	Part description	30	30	40	30	45	60
0	Nozzle	U4186L00	U534	2N00		U4167G01	
2	Insulator		_			U4167L00	
3	Tip	K980C23	K980	C24		K980C26	
4	Tip body		_			U4170G03	
6	Orifice		_			U4167G02	
6	Torch body		U5020C00			U6193B00	
63	O-Ring(S9-4D)			3574	-001		
7	Cap			U534	1G01		
8	Handle KIT (8-1 8-2), with screw, M4×16:3)			U625	7C00		
8	Handle (L/R)			U625	7D00		
8-2	Handle (Lower)			U619	0H03		
9	Trigger ASSY (91 92 93)			U619	0Т00		
9-1	Trigger	U6190T01					
9-2	Trigger spring			U619	0T02		
9-3	Switch ASSY			U619	0Q00		
10	Cable support (with screw, M4×16:4)			U619	0800		
•	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)	<u> </u>	_	(U4187H01)	_	_	
	Liner (4.0m) (0.9~1.2mm)	<u> </u>	_	U6192L00	_	_	_
	Liner(4.5m) (1.0~1.2mm)	<u> </u>	_	_	_	U6194L00	
	Liner (6.0m) (1.2mm)	<u> </u>	_	_	_	_	U6195L00
12	Power cable (3.0m) (with screw, M5×12)	U6190D00	U6191D00	_	U6193D00	_	
	Power cable (4.0m) (with screw, M5×12)	<u> </u>	_	U6192D00	_	_	_
	Power cable (4.5m) (with screw, M5×12)	<u> </u>	_	_	_	U6194D00	
	Power cable (6.0m) (with screw, M5×12)	— — — — U6195D00					U6195D00
13	Adaptor nut			U416	7F03		
14	Adaptor (with screw, M4×8)			U416	7E00		
14-1	O-Ring			3570)-125		
15	Liner nut	U4167G06					



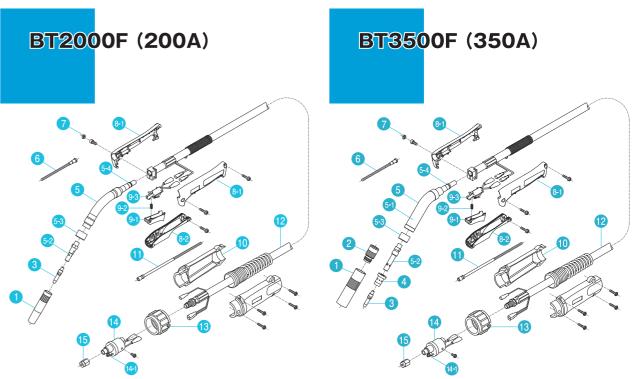
			BT3510			BT3520			*()	Optional parts
No.	Part description	30	45	60	30	45	60	30	45	60
0	Nozzle		U4167G01	00	00	U4167H16		00	U4173G01	00
2	Insulator		01101001	U416	57L00			U4173L00		
3	Tip		K980C26			K980C73			K980C74	
4	Tip body			U416	7G03				U4173G21	
6	Orifice			U416	7G02				U4173G02	
6	Torch body		U6196B00			U6199B00			U6202B00	
63	O-Ring(S9-4D)					3574-001				
7	Handle KIT (71/72/73/74)					U6256C00				
7	Handle (L/R)					U6256D00				
7-2	Handle (Upper)					U6196H03				
7-3	Handle (Lower)					U6196H04				
7-4	Lock ring		U6196H05							
8	Сар					U5341G01				
9	Trigger ASSY (91 92 93)					U6190T00				
9-1	Trigger		U6190T01							
9-2	Trigger spring					U6190T02				
9-3	Switch ASSY					U6190Q00				
10	Cable support (with screw, M4×16:4)					U6190S00				
•	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				
4-1	0-Ring					3570-125				
15	Liner nut					U4167G06				



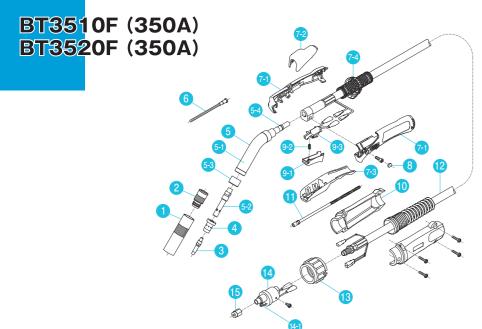
No.	Part description	BTW450-30	BTW450-50	
0	Nozzle (I.D.17mm)	U5377G01		
2	Insulator	U5626X00		
3	Tip(1.2mm)	K980	C32	
4	Tip nut	U562	6M01	
6	Orifice	U417	3G02	
6	Torch body	U620	5B00	
61	O-Ring(S9-4D)	3574	I-001	
7	Handle KIT(101/2013)	U625	6V00	
7	Handle (L/R)	U625	6D00	
72	Handle (Upper)	U619	96H03	
73	Handle (Lower)	U619	6H04	
8	Cap	U534	1G01	
9	Trigger ASSY (9) (9) (9)	U620	5T00	
9-1	Trigger	U6190T01		
9-2	Trigger spring	U6190T02		
9-3	Switch ASSY	U6205Q00		
10	Lock ring	U6205H05		
0	End joint	U562	6R01	
12	Hose sheath	U6205R00	U6207R00	
13	Binder (SKB-3MC black)	4739	9-606	
14	Spring	U562	6M04	
1 5	Cable support (with screw, M4×18:4)	U621	1S00	
16	Liner (1.2~1.6mm)	U6199L00	U6207L00	
1	Power cable	U6211D00	U6212D00	
18	Water out hose	U621	1E00	
19	Water in hose	U6211F00	U6212F00	
20	Switch cord	U6205G00	U6207G00	
2	Conduit	U6205J00	U6207J00	
21-1	Socket screw (M4×4)	100-	1715	
22	Adaptor nut	U621	1X00	
23	Adaptor	U6211V00		
23-1	O-Ring	3570)-125	
23-2	Small screw (M4×8)	3361	-677	
24	Liner nut	U416	7G06	
25	Control cable	U6205P00	U6207P00	



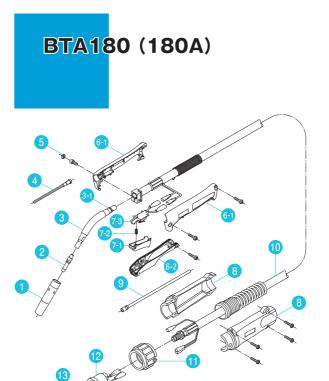
No.	Part description	BTW500-30	BTW500-50	
0	Nozzle (I.D.19mm)	U6213X00		
2	Front body	U6213M01		
3	Tip (1.6mm)	K980C14		
4	Tip nut	U621	3M02	
6	Orifice	U568	5M02	
6	Nut	U636	9M04	
7	Insulator	U636	9N00	
7	0-Ring(P14-4D)	3574	1-005	
72	O-Ring(P16-4D)	3574	1-006	
7-3	0-Ring(P20-4D)	6500)-318	
8	Cap nut	U636	9M03	
9	Torch body	U621	3B00	
9-1	O-Ring(S9-4D)	3574	I-001	
10	Handle KIT (1910-193)	U625	6V00	
10-1	Handle (L/R)	U625	6D00	
10-2	Handle (Upper)	U619	96H03	
10-3	Handle (Lower)	U619	6H04	
0	Cap	U534	1G01	
12	Trigger ASSY ((2) (22) (23)	U6205T00		
12-1	Trigger	U6190T01		
12-2	Trigger spring	U6190T02		
12-3	Switch ASSY	U6205Q00		
13	Lock ring	U620	5H05	
14	End joint	U562	6R01	
15	Hose sheath	U2180D06	U6214M01	
16	Binder (SKB-3MC black)	4739	9-189	
1	Spring	U562	6M04	
18	Cable support (with screw, M4×18:4)	U621	1S00	
19	Liner (1.2~1.6mm)	U6199L00	U6207L00	
20	Power cable	U6211D00	U6212D00	
a	Water out hose	U621	1E00	
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	U621	1X00	
26	Adaptor	U621	1 V 0 0	
26-1	O-Ring	3570)-125	
26-2	Small screw (M4×8)	3361	-677	
27	Liner nut	U416	7G06	
28	Control cable	U6205P00	U6207P00	
29	Heat shield (Standard)	U625	7E00	



	(4-1)			14). 		
						*(): Optional	
No.	Part description	BT2	000F		BT3500F		
INO.	r art description	30	40	30	45	60	
0	Nozzle	U534	12N00		U4167G01		
2	Insulator		_		U4167L00		
3	Tip	K98	0C24		K980C26		
4	Orifice	-	_		U4167G02		
6	Flexible torch body	U533	39800		U5339K00		
<u>6</u>	Torch body guard	-	_		U5339L07		
5-2	Tip body	K504	3C01		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 (9-19-29-3)			U6190T00			
9-1	Trigger			U6190T01			
9-2	Trigger spring			U6190T02			
9-3	Switch ASSY			U6190Q00			
1	Cable support(with screw, M4×16:4)			U6190S00			
0	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	
B	Adaptor nut			U4167F03			
1	Adaptor (with screw, M4×8)			U4167E00			
14-1	0-Ring	3570-125					
1	Liner nut			U4167G06			



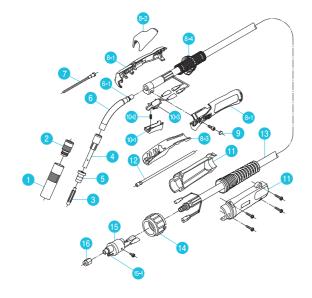
			14-1				*[] : Optional parts
	2		BT3510F			BT3520F	
No.	Part description	30	45	60	30	45	60
0	Nozzle		U4167G01			U4167H16	
2	Insulator			U416	7L00		
3	Tip		K980C26			K980C73	
4	Orifice			U416	7G02		
6	Flexible torch body			U533	9L00		
<u>5</u>	Torch body guard			K546	1B04		
5-2	Tip body			K494	5C01		
5-3	Flexible cap			K494	5C02		
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 (71 72 73 74)			U625	6C00		
7	Handle (L/R)	U6256D00					
72	Handle (Upper)	U6196H03					
7-3	Handle (Lower)			U619	6H04		
7-4	Lock ring	U6196H05					
8	Сар			U534	1G01		
9	Trigger ASSY (9-1 9-2 9-3)			U619	0Т00		
9-1	Trigger			U619	0T01		
9-2	Trigger spring			U619	0T02		
9-3	Switch ASSY			U619	0Q00		
1	Cable support (with screw, M4×16:4)			U619	0800		
•	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			U416	7F03		
1	Adaptor (with screw, M4×8)			U416	7E00		
4-1	0-Ring			3570	1-125		
1	Liner nut	U4167G06					



No.	Part description	BTA180-20
0	Nozzle (I.D.13mm)	U4356H00
2	Tip (0.8mm)	K980C23
3	Torch body	U5020C00
3-1	0-Ring(S9-4D)	3574-001
4	Inner liner	U5631G01
6	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 (73 73)	U6190T00
7	Trigger	U6190T01
72	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
1	Adaptor nut	U4167F03
12	Adaptor (with screw, M4×8)	U4167E00
12-1	0-Ring	3570-125
13	Liner nut	U4167G06

No.	Part description	BTA200-30
0	Nozzle (I.D.13mm)	U4544F01
2	Insulator	U4167L00
3	Tip(1.2mm)	K980C40
4	Tip body	U5632G01
6	Orifice	U4167G02
6	Torch body	U6313B00
6-1	O-Ring(S9-4D)	3574-001
7	Inner liner	U5632G02
8	Cap	U5341G01
9	Handle KIT (9192, with screw, M4×16:3)	U6257C00
91	Handle (L/R)	U6257D00
9-2	Handle (Lower)	U6190H03
10	Trigger ASSY (10-10-2 (10-3))	U6190T00
10-1	Trigger	U6190T01
10-2	Trigger spring	U6190T02
10-3	Switch ASSY	U6190Q00
0	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
1	Adaptor (with screw, M4×8)	U4167E00
15-1	0-Ring	3570-125
16	Liner nut	U4167G06

BTA300 (300A) BTS300 (300A)



*[1	÷	Optional	parts
	,		Optional	parts

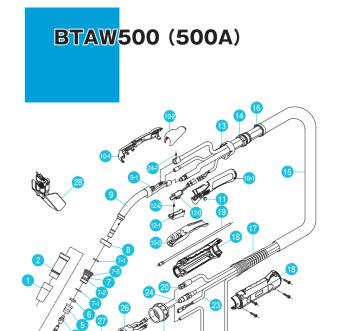
No.	Part description	BTA300-30
0	Nozzle (I.D.16mm)	U4432G01
2	Insulator	U5377L00
3	Tip(1.2mm)	K980C37
4	Tip body	U4400G01
6	Orifice	U4173G02
6	Torch body	U6314B00
6-1	O-Ring(S9-4D)	3574-001
7	Inner liner	U4432G03
8	Handle KIT (81 8-2 8-3 8-4)	U6256C00
8-1	Handle (L/R)	U6256D00
8-2	Handle (Upper)	U6196H03
8-3	Handle (Lower)	U6196H04
8-4	Lock ring	U6196H05
9	Cap	U5341G01
10	Trigger ASSY (10-10-20-3)	U6190T00
(D-1)	Trigger	U6190T01
10-2	Trigger spring	U6190T02
10-3	Switch ASSY	U6190Q00
1	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	0-Ring	3570-125
16	Liner nut	U4167G06

No.	Part description	BTS300-30
0	Nozzle (I.D.16mm)	U2774E04
2	Insulator	U4173L00
3	Tip(1.2mm)	U4167H12
4	Tip body	U4400G01
6	Orifice	U4173G02
6	Torch body	U6199B00
6-1	O-Ring(S9-4D)	3574-001
8	Handle KIT (81 82 83 84)	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 (10-10-20-3)	U6190T00
10-1	Trigger	U6190T01
10-2	Trigger spring	U6190T02
10-3	Switch ASSY	U6190Q00
0	Cable support (with screw, M4×16:4)	U6190S00
12	Liner (0.9~1.2mm)	U4170H02
13	Power cable (with screw, M5×14)	U6196D00
1	Adaptor nut	U4167F03
1	Adaptor (with screw, M4×8)	U4167E00
(5-1)	0-Ring	3570-125
10	Liner nut	U4167G06

BTAW400 (400A)

*[]	:	Optional	parts	
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		*[] : Optional part
No.	Part description	BTAW400-30
0	Nozzle (I.D.17mm)	U5377G01
2	Insulator	U5626X00
3	Tip (1.2mm) (M6)	K980B20
4	Tip Nut(M6)	U5626M01
6	Orifice	U4173G02
6	Torch body	U6315B00
61	O-Ring(S9-4D)	3574-001
7	Handle KIT (74 78)	U6256V00
6	Handle (L/R)	U6256D00
72	Handle (Upper)	U6196H03
73	Handle (Lower)	U6196H04
8	Cap	U5341G01
9	Trigger ASSY (99 99 99)	U6205T00
9-1	Trigger	U6190T01
9-2	Trigger spring	U6190T02
9-3	Switch ASSY	U6205Q00
1	Lock ring	U6205H05
1	End Joint	U5626R01
12	Hose sheath	U6205R00
B	Binder	4739-606
14	Spring	U5626M04
1	Cable support (with screw, M4×18:4)	U6205S00
16	MIG Liner (1.0~1.2mm)	U6315L00
	MIG Liner (1.6mm)	(U6315Q00)
D	Power cable	U5626D00
13	Water out hose	U5626F00
9	Water in hose	U5626G00
20	Switch cord	U6205G00
a	Conduit	U6205J00
21-)	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



No.	Part description	BTAW500-30
0	Nozzle (I.D.17mm)	U6369M02
2	Nozzle ASSY	U6369X00
3	Tip(1.6mm) (M8)	K980D43
4	Tip nut (M8)	U6369M01
6	Orifice	U5685M02
6	Nut	U6369M04
7	Insulator	U6369N00
6	0-Ring(P14-4D)	3574-005
72	0-Ring(P16-4D)	3574-006
73	0-Ring(P20-4D)	6500-318
8	Cap nut	U6369M03
9	Torch body	U6369B00
9-1	O-Ring(S9-4D)	3574-001
10	Handle KIT (100 100 100)	U6256V00
10-1	Handle (L/R)	U6256D00
10-2	Handle (Upper)	U6196H03
10-3	Handle (Lower)	U6196H04
1	Cap	U5341G01
12	Trigger ASSY (12) (12) (12)	U6205T00
12-1	Trigger	U6190T01
12-2	Trigger spring	U6190T02
12-3	Switch ASSY	U6205Q00
13	Lock ring	U6205H05
1	End joint	U5626R01
15	Hose sheath	U2180D06
16	Binder (SKB-3MC black)	4739-189
T	Spring	U5626M04
18	Cable support (with screw, M4×18:4)	U6211S00
19	MIG liner (1.2~1.6mm)	U6315Q00
20	Power cable	U6211D00
a	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
<u> </u>	Liner nut	U4167G06
28	Heat shield	U6257E00

DIGITAL RAKURAKU TORCH

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.





Standard specifications

		For Mil	d steel	For Aluminum		
Han	dle shape	Standard handle	Gan grip handle	rip handle Standard handle Gan grip handle		
	Model	BTP30D-12 (06, 08, 10)*1	BTPG30D-12 (06, 08, 10)*1	BTPA30D-12 BTPAG30D-12 (06, 08, 10)*1 (06, 08, 10)*1		
	CO2/MAG	300A	35%	<u>-</u>		
Rated current	Pulse MAG	250A 35%		_	-	
Duty cycle	MIG	_		280A	35%	
	Pulse MIG	-		250A 35%		
Cal	Cable length 12, (6, 8,10) m *1					
*2 *3	Mild steel	(0.8), (0.9), (1.0), 1.2, (1.4), (1.6)mm		_	-	
Wire diameter	Mild steel cored	(1.2), (1.4)	(1.2), (1.4), (1.6)mm		-	
	Hard/Soft aluminum	_	-		1.2, (1.6)mm	
Co	oling system		Air cooing			
Welding	power sorce *4	WB-M400, WB-M500, WB-P	M500, WB-P400, WB-P500L, WB-W400 WB-P400, WB-P500L, WB-W40		500L, WB-W400	
V	/ire 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 diamater. 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

This color indicates standard components.

Gas hose Assy (with solenoid valve)

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.

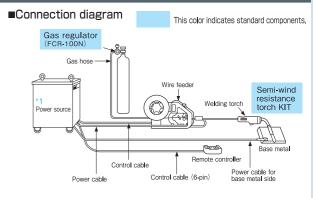
■Connection diagram

Windbreak measures can be lightened.

It saves welding preparation work significant

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

BLUE TORCH



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

Configuration (wind resistance)

and then install the gas hose assembly

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

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

Standard specifications (wind resistance)

*2. For the welding power source, refer to welding power source table

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	Blue torch ZB type (for 40mm tip) *1	K1897U00
resistance torch KIT	Blue torch II·III (for 45mm tip) *2	K8071M00
Gas regulator (100 l/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.			
No	ozz l e Orifice	Nozzle body	Tip body	
Blue torch ZB type (for 40mm tip) U25:		3 U845R00	U2638H01	
Blue torch II·III (for 45mm tip) K807	1M02 02526D0	0045H00	K8071M01	

■Welding power source table

Model	Wind resistance	Semi-wind resistance
XD200·600	*1 ()	0
XD350 II ·500 II	*1 ()	0
XD500G • 600G	0	0
Welbee Inverter M400·M500(G)	×	0
DM350·500	×	0
CPV600	0	0

 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.

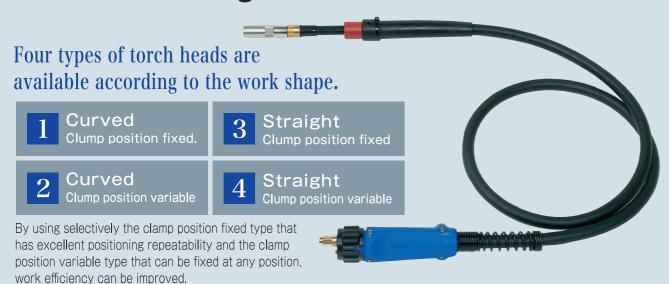
	XD200	XD350 II	XD500 II	XD600
Optional remote controller	K5321E00	K5321B00	K5321H00	K5321L00

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).

Long torch body

CO₂/MAG welding torch for automatic machine



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.

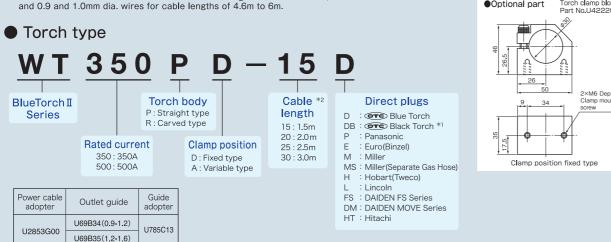
Consumable parts such as insulators, nozzles and orifices are shared with semi-automatic torches.

The efficiency of parts inventory management can be improved.

Standard specifications

		350A	type		500A type				
Model	WT350PD	50PD WT350RD WT350PA WT350RA \				WT500RD	WT500PA	WT500RA	
Rated current		350A(CC	2/MAG)		500A(CO2) / 450A(MAG)				
Wire diameter	(0.9), (1.0),	1.2, (1.4) mn	n*1	(1.2), 1.4, (1.6)mm				
Duty cycle		60% (CO2) /	35% (MAG)		60%(CO ₂)/30%(MAG)				
Cable length	10c	m 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.

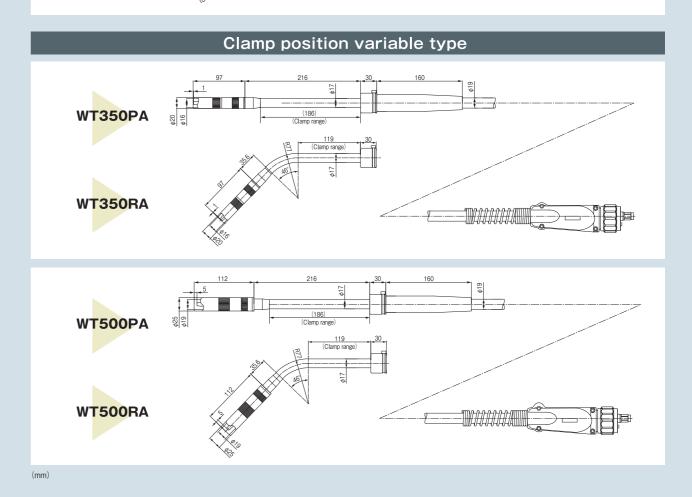


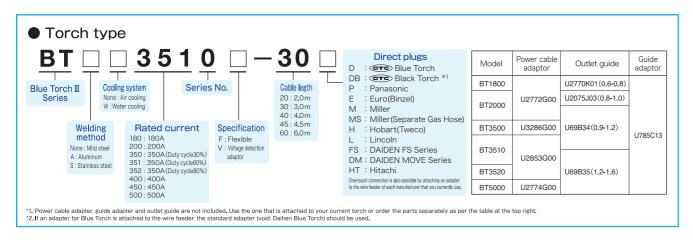
- *1. Power cable adapter, guide adapter and outlet guide are not included. Use the parts you are currently using with your torch. If you need a new part, please order one from the table above as needed.
- *2. It is available in 10cm increments from 1m to 6m (build-to-order products).

Dimensional outline drawing

WT500RD

Clamp position fixed type Short torch body **WT350PD WT350RD** Short torch body WT500PD Torch clamp: U4222G01





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

■ Standard parts list and replacement pozzle (CO2/MAG)

Standard parts list and replacement nozzle (CO ₂ /MAG)											
Model		Standard	parts list			Replacement r	nozzle (Option)				
Model	Tip body	Insulator	Orifice	Standard nozzle	Low current	High current	Arc spot	Deep and narrow space			
BT1800-30				U4186L00		U4186P00	U4186M00	U4186R00			
BT2000-30 (40)				U5342N00		U5342P00	U5342Q00	Combine with			
BT2000F-30 (40)	K5043C01			75.5		75.5	83.5	long tip			
BT3500-30 (45, 60)	U4170G03 71.5 M12x1 W1/2			U4167G01		U4167H16	U4170H01	U4167H04			
BT3510-30 (45, 60)	U4167G03					9191	φ 1	48 01 6			
BT3520-30 (45, 60)	79.5 M14×1 W1/2	U4167L00	U4167G02	U4167H16	U4167H01	U4167H02	U4167H03	Combine with long tip Long tip 61.5			
BT3500F-30 (45, 60)	1/4045004	φ17.5×φ15.5×4\	1 61	U4167G01		U4167H16	U4170H01 · 81 →	Wire diameter Part No. 0.8 U4167H08			
BT3510F-30 (45, 60)	K4945C01			No.10 90 00 00 00 00 00 00 00 00 00 00 00 00		No.10 9 2 2	620	0.9 U4167H07 1.0 U4167H06			
BT3520F-30 (45, 60)	M10×1 W1/2			U4167H16 73 No.10		U4167H02	U4167H03	1.2 U4167H05			
BT5000-30 (45, 60)	U4173G21	U4173L00 M14×2 \$\phi^{21.5\times\phi}18.6\times^{5}\$	U4173G02	U4173G01	U5353V01		U4173H02				

■ Standard parts list and replacement nozzle (MIG)

	•					(mm)	
Model		Standard	parts list		Replacement r	nozzle (Option)	
Model	Tip body	Insulator	Orifice	Standard nozzle	Low current	Deep and narrow space	
BTA180-20				U4356H00	U4186L00	U4186R00	
BTA200-30	U5632G01 72.5 M12×1\W1/2	U4167L00 W1/2 \$\phi_{17.5\psi} \phi_{15.5\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi{\text{\text{\text{\text{\tinx{\tinx{\text{\tinx{\text{\text{\tinx{\tinx{\text{\tinx{\tinx{\text{\tinx{\text{\text{\text{\text{\text{\text{\text{\tinx{\text{\text{\text{\text{\text{\text{\texi}\tinx{\text{\text{\text{\tinx{\tinx{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinx{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\texi{\texi{\texi{\texi\tinz}\tinz{\text{\tininter{\text{\tinx{\texi}\tinx{\texi}\tiint{\texit{\texi{\t	U4167G02	U4544F01		U4167H04	
BTA300-30	U4400G01 83 M14×1 M14×2	U5377L00 M14 	U4173G02	U4432G01	L6098E09		

Torch hady combination table

Torch bo	Torch body combination table								(Standard built-in product Parts that can be attached)				
						Torc	h body						
Model	R	55	76	77	115	130	100	55	76	77	115	130	
Model	θ			45°			50°			55°			
	Part No.	U5020C00	U5344B00	U5347B00	U5350B00	U5339R00	U5339E00	U5020B00	U6193B00	U6196B00	U6199B00	U6202B00	
BT1800-30		0						0					
BT2000-30	(40)	0						0					
BT3500-30	(45, 60)		0				0		0				
BT3510-30	(45, 60)			0	0					0	0		
BT3520-30	(45, 60)			0	0					0	0		
BT5000-30	(45, 60)				0	0					0	0	

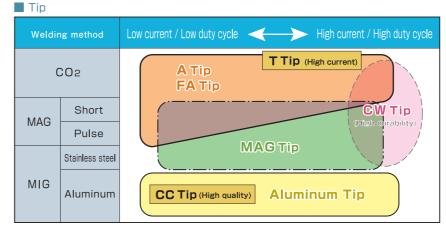
Model	Shape	Shape Straight					Flexible		Long neck		
	Part No.	U5020S00	U5339G00	U5339H00	U5339J00	U5339S00	U5339K00	U5339L00	U5020Q00	U5339M00	U5339N00
BT1800-30		0				0			0		
BT2000-30(4	40)	0				0			0		
BT3500-30(45, 60)			0				0			0	
BT3510-30(4	45, 60)			0				0			0
BT3520-30(4	45, 60)				0			0			0
BT5000-30(4	45, 60)				0						
BT2000F-30	(40)					0					
BT3500F-30	(45, 60)						0				
BT3510F-30(45, 60)								0			
BT3520F-30	(45, 60)							0			

^{*} 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

 $[\]ast$ Each inner liner can be attached to all Blue Torch ${\rm I\hspace{-.1em}I}$. Please select according to the wire diameter.



Wire	A tip (Standard)		FA tip	T t	tip	MAG tip	CW tip
diameter	Solid	Cored	Automatic	Solid·40L	Cored	MAG tip	CW tip
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

VA/:		Alumin	CC tip			
Wire diamete	For air cooling • 45L (BTA180,200)		For water cooling • 40L (BTAW400)		For air cooling•45L (BTA300)	For water cooling • 40L (BTAW400)
0.8 mr	K980C23	_	_	_	_	_
1.0 mr	1 K980C39	K980C36	_	_	K990C10	_
1.2 mr	K980C40	K980C37	K980B20	K980D42	K990C12	K990B12
1.6 mr	— К980С38		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.

