



MAKE WORK
LIFE EASIER



ARC AUTO SERIES



A Passion for Technology & Innovation

To produce hand tools that reach the pinnacle of performance, durability and functionality you have to be passionate about what you do.

At Arc Torchology the research and development department is the beating heart of our company.

Every single component is conceived, developed, manufactured and tested in-house.

Our development and testing activities are loaded with cutting edge technologies, many of which have been developed specifically by us to meet the very stringent demands we place on our design solutions.

These specialized, bespoke solutions allow us to develop products that surpass the prerequisite of industry standards, inventing increasingly more beneficial products that deliver maximum results for the operator.

FEATURING NEW TECHNOLOGIES



BI FLOW-2
TECHNOLOGY



NRS
TECHNOLOGY



SIC
TECHNOLOGY



OSW
TECHNOLOGY

This is not business as usual.

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Ranges

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AIR-COOLED

Arc M High Performance Mig Series



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M3A Auto IEC / EN 60974-7

Standard: EN 50078

Cooling Method	Air-Cooled	Max. Load
CO ₂	300A	10.5KW
Rating: Mixed Gas M21	270A	8.9KW
Duty Cycle	60%	
Wire Size	0.9-1.2mm	

Cooling Method	Air-Cooled
CO ₂	340A
Rating: Mixed Gas M21	325A
Duty Cycle	60%
Wire Size	0.9-1.2mm



Rated using power source with VDE standard volt/amp characteristic (U=14+0.05xI).



M6A Auto IEC / EN 60974-7

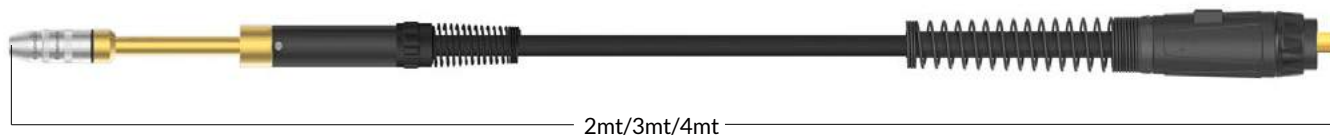
Standard: EN 50078

Cooling Method	Air-Cooled	Max. Load
CO ₂	430A	17.6KW
Rating: Mixed Gas M21	400A	14.8KW
Duty Cycle	60%	
Wire Size	0.9-2.0mm	

Cooling Method	Air-Cooled
CO ₂	470A
Rating: Mixed Gas M21	420A
Duty Cycle	60%
Wire Size	0.9-2.0mm



Rated using power source with VDE standard volt/amp characteristic (U=14+0.05xI).



LIQUID-COOLED

Arc M High Performance Mig Series



MAKE WORK
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M5WA Auto IEC / EN 60974-7

Cooling Method	Liquid-Cooled			
	Cooler Rating	Max. A	Pulse	Max. Load
Rating: CO ₂	1600W	560A	-	24KW
	1200W	540A	-	22KW
	1000W	510A	-	20KW
Rating: Mixed Gas M21	1600W	540A	380A	22KW
	1200W	520A	350A	21KW
	1000W	500A	340A	19.5KW
Duty Cycle		100%	100%	
Wire Size	Filler Wires	Fe, Fe-MC / FC		0.9-1.6mm
	Filler Wires	Ss, Ss-MC / FC		0.9-1.6mm
	Filler Wires	Al		1.0-1.6mm
Minimum Liquid Flow Rate	1.5 l/min		Important: Please note minimum inlet pressure and flow rate. Low pressure will affect torch performance	
Minimum Liquid Inlet Pressure	2.5 Bar			
Maximum Liquid Inlet Pressure	5.0 Bar			
Maximum Liquid Inlet Temperature	50°C			
Operating Temperature Range	-10...+40°C			



M65WA Auto IEC / EN 60974-7

Cooling Method	Liquid-Cooled			
	Cooler Rating	Max. A	Pulse	Max. Load
Rating: CO ₂	1600W	580A	-	25KW
	1200W	550A	-	23KW
	1000W	520A	-	21KW
Rating: Mixed Gas M21	1600W	560A	400A	23KW
	1200W	530A	360A	21.5KW
	1000W	510A	350A	20KW
Duty Cycle		100%	100%	
Wire Size	Filler Wires	Fe, Fe-MC / FC		0.9-2.0mm
	Filler Wires	Ss, Ss-MC / FC		0.9-1.6mm
	Filler Wires	Al		1.0-2.0mm
Minimum Liquid Flow Rate	1.5 l/min		Important: Please note minimum inlet pressure and flow rate. Low pressure will affect torch performance	
Minimum Liquid Inlet Pressure	2.5 Bar			
Maximum Liquid Inlet Pressure	5.0 Bar			
Maximum Liquid Inlet Temperature	50°C			
Operating Temperature Range	-10...+40°C			



M3A Auto Air-Cooled Mig Welding Torch

Ratings:	300A CO ₂ , 270A mixed gas M21, EN60974-7 @ 60% duty cycle. 0.9mm-1.2mm wires
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The Arc M3A Auto torch is ideal in 1.0mm and 1.2mm medium duty applications for low-tech automatic processes.

ARC M HIGH PERFORMANCE MIG TORCH PACKAGES

M3A Auto Torches are supplied with a Euro termination as standard and a straight handle 'ready to weld' with all wear parts fitted.



Handle Dimensions



2mt	3mt	4mt
M3A-2M	M3A-3M	M3A-4M
M3A22-2M	M3A22-3M	M3A22-4M
M3A45-2M	M3A45-3M	M3A45-4M

Wear Parts

Nozzles - 2 Piece

	Part Number	Description	Bore	Wall	Material
A	AM3HDTN	Tapered Nozzle (Part 2)	12mm	3mm	Copper
	•AM3HDCN	Conical Nozzle (Part 2)	14mm	3mm	Copper
	AM3HDCYN	Cylindrical Nozzle (Part 2)	19mm	3mm	Copper
A1	•AM3HDNI	Nozzle Insulator (Part 1)			Copper

Nozzles - Single Piece

	Part Number	Description	Bore	Wall	Material
A2	AM3TN	Tapered Nozzle / Insulator Assy	12mm	2.25mm	Copper
	AM3CN	Conical Nozzle / Insulator Assy	14mm	2.25mm	Copper
	AM3CYN	Cylindrical Nozzle / Insulator Assy	19mm	2.25mm	Copper

B Contact Tips

	Part Number	Description	Size (mm)	Wire Size (mm-inch)	Material
Standard Series					
	AM5CT09	Contact Tip	M8*29.5	0.9-0.035	CuCrZr
	AM5CT10	Contact Tip	M8*29.5	1.0-0.040	CuCrZr
	•AM5CT12	Contact Tip	M8*29.5	1.2-0.045	CuCrZr
A Series					
	AM5CT10A	Contact Tip	M8*29.5	1.0-0.040	CuCrZr
	AM5CT12A	Contact Tip	M8*29.5	1.2-0.045	CuCrZr
	AM2CT10A	Contact Tip	M8*29.5	1.0-0.040	Copper
	AM2CT12A	Contact Tip	M8*29.5	1.2-0.045	Copper

C Tip Adaptors

Part Number	Description	Material
•AM3TAB	Tip Adaptor	Brass
AM3TAC	Tip Adaptor High Performance	CuCrZr

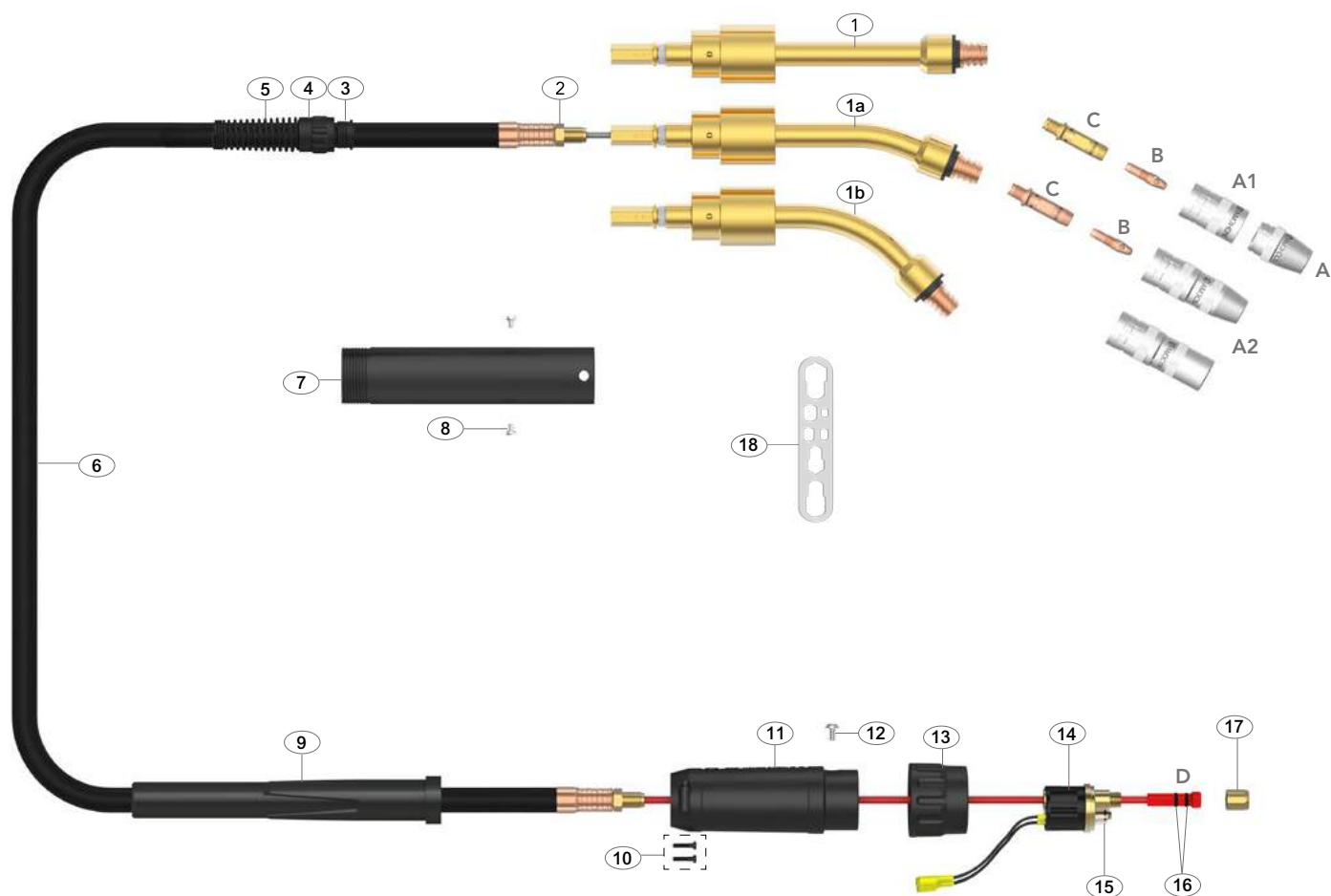
D Liners

Part Number	Description	Wire Size
•AM2524-20	Steel Liner x 2mt	1.0-1.2mm
•AM2524-30	Steel Liner x 3mt	1.0-1.2mm
•AM2524-40	Steel Liner x 4mt	1.0-1.2mm
AM1535-20	Steel Liner x 2mt	0.6-0.9mm
AM1535-30	Steel Liner x 3mt	0.6-0.9mm
AM1535-40	Steel Liner x 4mt	0.6-0.9mm

•Denotes torch package standard wear part set-up

SuperSoft -20 Premium Power Cables
Perfect for extreme subzero working conditions

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Spare Parts

Part Number	Description
1	AMA3001A Auto Swan Neck Straight
1a	AMA3001A22 Auto Swan Neck 22°
1b	AMA3001A45 Auto Swan Neck 45°
2	AM1505 Lock Nut
3	AMB8110A Auto Handle Insert
4	AMB8030A Auto Handle Lock Nut
5	AMB8017A Auto Handle Spring
6	AUTO-AM3003CW-20 Power Cable Assembly x 2mt AUTO-AM3003CW-30 Power Cable Assembly x 3mt AUTO-AM3003CW-40 Power Cable Assembly x 4mt
7	AMB3630 Automatic Handle
8	AMB3629 Handle Screw
9	AMPA3541 Cable Support
10	AMSP1-1 Screw Pack
11	AM2578/L Gun Plug Housing
12	AML1541 Gun Plug Screw
13	AMC1519 Gun Plug Nut

Part Number	Description
14	AM1528 Hybrid Gun Plug Body c/w Spring Pins
15	AM1524 Gun Plug 'O' Ring
16	AMLOR Liner 'O' Ring
17	AM1826 Liner Retaining Nut
18	AMWS Wear Parts Spanner

Welding with Soft Wires

For welding with Aluminum wires use a Combi-liner (page 19). Optimum installation is achieved when using the Combi-liner set-up kit.

Optional Extra

AMCLST-KITS Combi-Liner Set-up kit

M6A Auto Air-Cooled Mig Welding Torch

Ratings:	430A CO ₂ , 400A mixed gas M21, EN60974-7 @ 60% duty cycle. 0.9mm-2.0mm wires
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The Arc M6A Auto torch is perfect for 1.2mm Air-Cooled high duty and pulse MIG, low-tech automatic applications.

ARC M HIGH PERFORMANCE MIG TORCH PACKAGES

M6A Auto Torches are supplied with a Euro termination as standard and a straight handle 'ready to weld' with all wear parts fitted.



Handle Dimensions



2mt M6A-2M M6A22-2M M6A45-2M	3mt M6A-3M M6A22-3M M6A45-3M	4mt M6A-4M M6A22-4M M6A45-4M
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Wear Parts

Nozzle - 2 Piece

Part Number	Description	Bore	Wall	Material
A AM6HDTN	Tapered Nozzle (Part 2)	13mm	3.5mm	Copper
•AM6HDCN	Conica Nozzle (Part 2)	15mm	3.5mm	Copper
AM6HDCYN	Cylindrical Nozzle (Part 2)	23mm	3.5mm	Copper
A1•AM6HDNI	Nozzle Insulator (Part 1)			Copper

Nozzle - Single Piece

A2 AM6TN	Tapered Nozzle / Insulator Assy	13mm	2.5mm	Copper
AM6CN	Conical Nozzle / Insulator Assy	15mm	2.5mm	Copper
AM6CYN	Cylindrical Nozzle / Insulator Assy	23mm	2.5mm	Copper

B Contact Tips

Part Number	Description	Size (mm)	Wire Size (mm-inch)	Material
Standard Series				
AM6CT09	Contact Tip	M12*40.5	0.9 - 0.035	CuCrZr
AM6CT10	Contact Tip	M12*40.5	1.0 - 0.040	CuCrZr
•AM6CT12	Contact Tip	M12*40.5	1.2 - 0.045	CuCrZr
AM6CT14	Contact Tip	M12*40.5	1.4 - 0.055	CuCrZr
AM6CT16	Contact Tip	M12*40.5	1.6 - 0.063	CuCrZr
AM6CT20	Contact Tip	M12*40.5	2.0 - 0.080	CuCrZr
A Series				
AM6CT10A	Contact Tip	M12*40.5	1.0 - 0.040	CuCrZr
AM6CT12A	Contact Tip	M12*40.5	1.2 - 0.045	CuCrZr
AM6CT16A	Contact Tip	M12*40.5	1.6 - 0.063	CuCrZr
AM6CT20A	Contact Tip	M12*40.5	2.0 - 0.080	CuCrZr
AMC6CT10A	Contact Tip	M12*40.5	1.0 - 0.040	Copper
AMC6CT12A	Contact Tip	M12*40.5	1.2 - 0.045	Copper

C Tip Adaptors

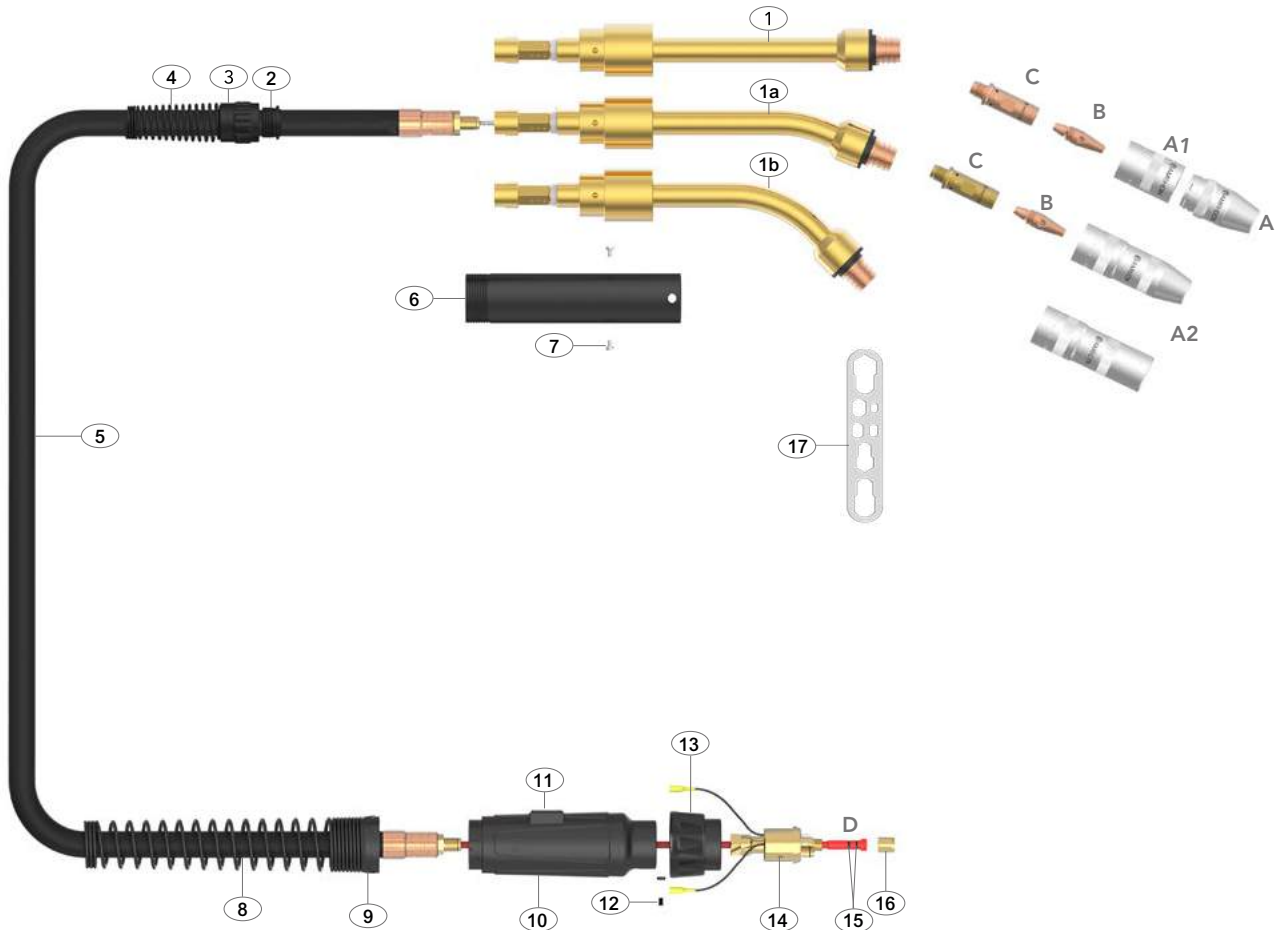
Part Number	Description	Material
•AM6TAC	Tip Adaptor High Performance	CuCrZr
AM6TAB	Tip Adaptor	Brass

D Liners

Part Number	Description	Wire Size
•AM6SL-1012-20	Steel Liner x 2mt	1.0-1.2mm
•AM6SL-1012-30	Steel Liner x 3mt	1.0-1.2mm
•AM6SL-1012-40	Steel Liner x 4mt	1.0-1.2mm
AM6SL-16-20	Steel Liner x 2mt	1.6mm
AM6SL-16-30	Steel Liner x 3mt	1.6mm
AM6SL-16-40	Steel Liner x 4mt	1.6mm

• Denotes torch package standard wear part set-up

SuperSoft -20 Premium Power Cables
Perfect for extreme subzero working conditions



Spare Parts

Part Number	Description
1	AMA6001A Auto Swan Neck Straight
1a	AMA6001A22 Auto Swan Neck 22°
1b	AMA6001A45 Auto Swan Neck 45°
2	AMB8110A Auto Handle Insert
3	AMB8030A Auto Handle Lock Nut
4	AMB8017A Auto Handle Spring
5	AUTO-AM6003CW-20 Power Cable Assembly x 2mt
	AUTO-AM6003CW-30 Power Cable Assembly x 3mt
	AUTO-AM6003CW-40 Power Cable Assembly x 4mt
6	AMB3630 Automatic Handle
7	AMB3629 Handle Screw
8	AM8026 Housing Spring
9	AM8028 Housing Lock Nut
10	AMT5022 Gun Plug Housing
11	AMF8017 Large Housing Wire Cover
12	AM1526 Gun Plug Screw
13	AM1519 Gun Plug Nut

Part Number	Description
14	AMB1528 Gun Plug Body
15	AMLOR Liner 'O' Ring
16	AM1826 Liner Retaining Nut
17	AMWS Wear Parts Spanner

Welding with Soft Wires

For welding with Aluminum wires use a Combi-liner (page 19). Optimum installation is achieved when using the Combi-liner set-up kit.

Optional Extra

AMCLST-KITS Combi-Liner Set-up kit

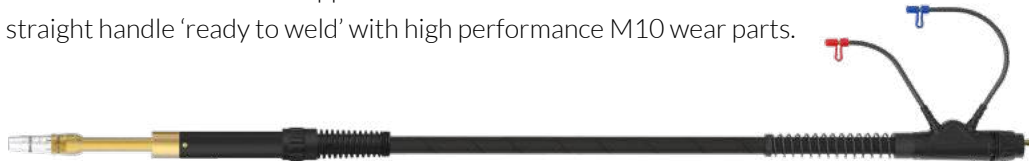
M5WA Auto Liquid-Cooled Mig Welding Torch

Ratings:	560A CO ₂ , 540A mixed gas M21, 380A pulse @100% Max. Load 24KW with 1600W liquid cooler, 0.9mm-1.6mm wires
	540A CO ₂ , 520A mixed gas M21, 350A pulse @100% Max. Load 22KW with 1200W liquid cooler, 0.9mm-1.6mm wires

A single circuit Liquid-Cooled Auto torch with a secondary nozzle seat, ideal for continuous use at high amperages.

ARC M HIGH PERFORMANCE MIG TORCH PACKAGES

M5WA Auto Torches are supplied with a Euro termination as standard and a straight handle 'ready to weld' with high performance M10 wear parts.



Handle Dimensions



2mt M5WA-2M M5WA22-2M M5WA45-2M	3mt M5WA-3M M5WA22-3M M5WA45-3M	4mt M5WA-4M M5WA22-4M M5WA45-4M
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Wear Parts

Nozzles					
Part Number	Description	Bore	Wall	Material	
A •AMN5WCN	Conical / Insulator Assy	13.5mm	3.0mm	Copper	
AMN5WTN	Tapered / Insulator Assy	11.5mm	3.0mm	Copper	
AMN5WCYN	Cylindrical / Insulator Assy	16.0mm	3.0mm	Copper	
A1•AMN5WCN-C	Conical Nozzle c/w Insulator & Retaining Ring				
AMN5WTN-C	Tapered Nozzle c/w Insulator & Retaining Ring				
AMN5WCYN-C	Cylindrical Nozzle c/w Insulator & Retaining Ring				

B Nozzle Retaining Rings				
Part Number	Description	Size	Material	
•AMN5WCNR	Nozzle Retaining Ring	29.5mm	Brass	

C Contact Tips				
Part Number	Description	Size (mm)	Wire Size (mm-inch)	Material
Standard Series				
AM5CT09	Contact Tip	M8*29.5	0.9 - 0.035	CuCrZr
AM5CT10	Contact Tip	M8*29.5	1.0 - 0.040	CuCrZr
•AM5CT12	Contact Tip	M8*29.5	1.2 - 0.045	CuCrZr
AM5CT14	Contact Tip	M8*29.5	1.4 - 0.055	CuCrZr
AM5CT16	Contact Tip	M8*29.5	1.6 - 0.063	CuCrZr
A Series				
AM5CT10A	Contact Tip	M8*29.5	1.0 - 0.040	CuCrZr
AM5CT12A	Contact Tip	M8*29.5	1.2 - 0.045	CuCrZr
AM5CT16A	Contact Tip	M8*29.5	1.6 - 0.063	CuCrZr
AM2CT10A	Contact Tip	M8*29.5	1.0 - 0.040	Copper
AM2CT12A	Contact Tip	M8*29.5	1.2 - 0.045	Copper

D Tip Adaptors

Part Number	Description	Material
•AM5WTAC-20	High Performance 2.0mm Recess	Copper
AM5WTAC-45	High Performance 4.5mm Recess	Copper
AM5WTAB-20	Tip Adaptor 2.0mm Recess	Brass
AM5WTAB-45	Tip Adaptor 4.5mm Recess	Brass

E Tip Adaptor Insulators

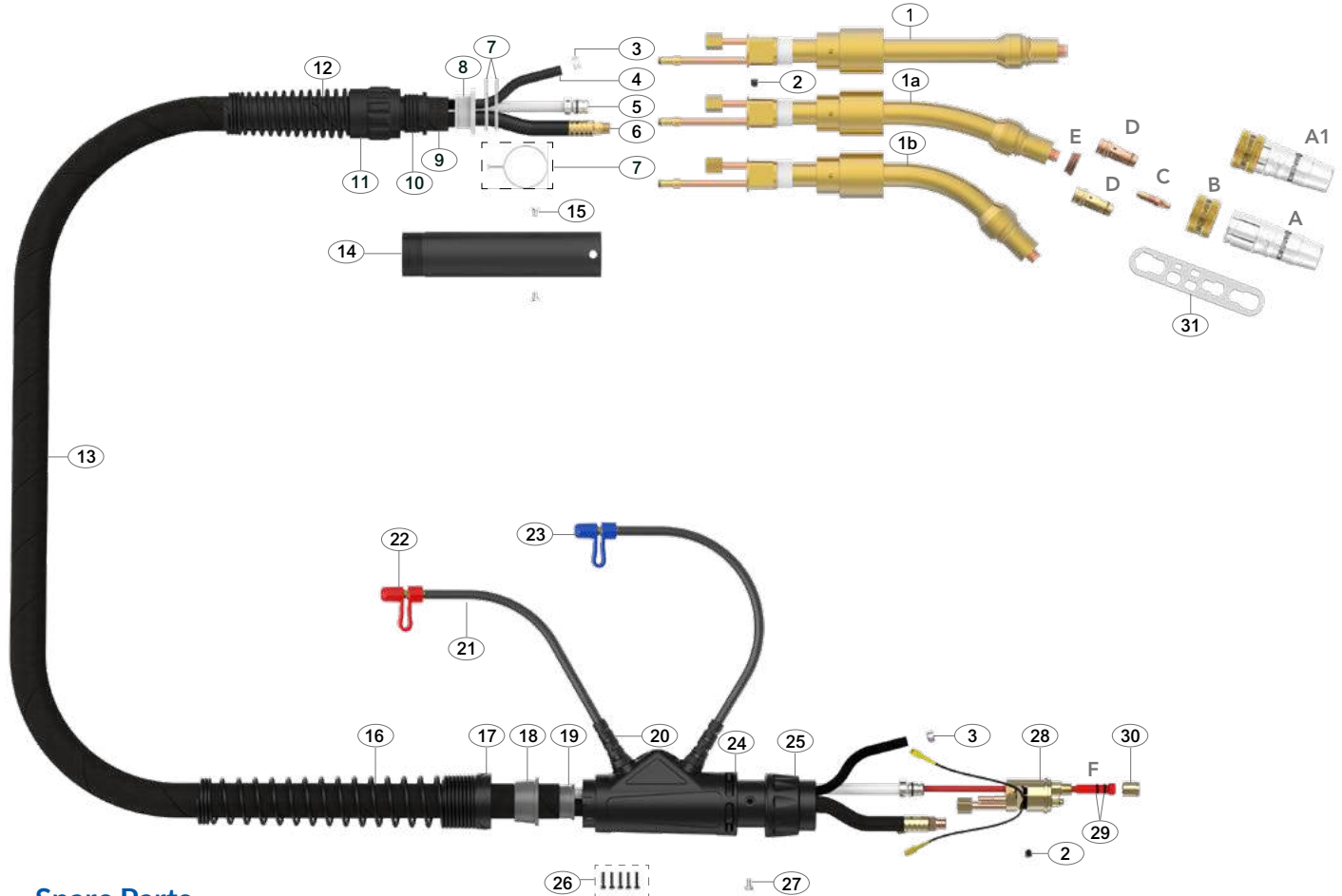
Part Number	Description
•AM5WTAI	Tip Adaptor Insulator

F Liners

Part Number	Description	Wire Size
•AM6SL-1012-20	Steel Liner x 2mt	1.0-1.2mm
•AM6SL-1012-30	Steel Liner x 3mt	1.0-1.2mm
•AM6SL-1012-40	Steel Liner x 4mt	1.0-1.2mm
AM6SL-16-20	Steel Liner x 2mt	1.6mm
AM6SL-16-30	Steel Liner x 3mt	1.6mm
AM6SL-16-40	Steel Liner x 4mt	1.6mm
AM6OSWL-1012-20	Soft Wire Liner x 2mt	1.0-1.2mm
AM6OSWL-1012-30	Soft Wire Liner x 3mt	1.0-1.2mm
AM6OSWL-1012-40	Soft Wire Liner x 4mt	1.0-1.2mm
AM6OSWL-1620-20	Soft Wire Liner x 2mt	1.6-2.0mm
AM6OSWL-1620-30	Soft Wire Liner x 3mt	1.6-2.0mm
AM6OSWL-1620-40	Soft Wire Liner x 4mt	1.6-2.0mm

For alternate liner options please refer to page 18-20

•Denotes torch package standard wear part set-up



Spare Parts

Part Number	Description
1	AMA5002A Auto Swan Neck Straight
1a	AMA5002A22 Auto Swan Neck 22°
1b	AMA5002A45 Auto Swan Neck 45°
2	AM6X5 Outer Liner Retaining Screw
3	AM15400023 Water Hose Clamp 10mm
7	AMWRID35 Wire Clamp \varnothing 35mm
8	AMB8010A Canvas Cover Retainer
10	AMB8110A-L Auto Handle Insert Large
11	AMB8030A Auto Handle Lock Nut
12	AMB8017A Auto Handle Spring
14	AMB3630 Automatic Handle
15	AMB3629 Handle Screw
16	AM8027 Cable Support Spring
17	AM8028 Housing Lock Nut
18	AM8009 Canvas Cover Clamp
19	AM8010 Canvas Cover Retainer
20	AM1820 Hose Support
21	AM5017 Water Outlet Hose Assembly
22	AM80320 Red Cap Stopper
23	AM80310 Blue Cap Stopper
24	AM5022 Housing Assembly
25	AM1519 Gun Plug Nut
26	AMSP1-1 Screw Pack
27	AM1526 Gun Plug Screw(M4 x 0.7)
28	AM5098 Water-Cooled Plug Body Assembly

Part Number	Description
29	AMLOR Liner 'O' Ring
30	AM1826 Liner Retaining Nut
31	AMWS Wear Parts Spanner

Cable Parts

Description	Part Number		
	2mt	3mt	4mt
4 Water Inlet Hose Assembly	AUTO-AM5012-20	AUTO-AM5012-30	AUTO-AM5012-40
5 Outer Liner Assembly	AUTO-AM6008-20	AUTO-AM6008-30	AUTO-AM6008-40
6 Power Cable Assembly	AM6015-20	AM6015-30	AM6015-40
9 Canvas Cover Assembly	AUTO-AM5019-20	AUTO-AM5019-30	AUTO-AM5019-40
13 Complete Cable Assembly	AUTO-AM6006-20	AUTO-AM6006-30	AUTO-AM6006-40

Welding with Soft Wires

For welding with Aluminum wires use a Soft Wire / Combi-Liner (page 19-20). Optimum installation is achieved when using the Soft Wire / Combi-Liner set-up kit.

Optional Extra

AMOSWLG	Soft Wire Liner Gasket (See Page 20)
AMOSW-LINER-T	Soft Wire / Combi-Liner Set-up Kit (See Page 20)

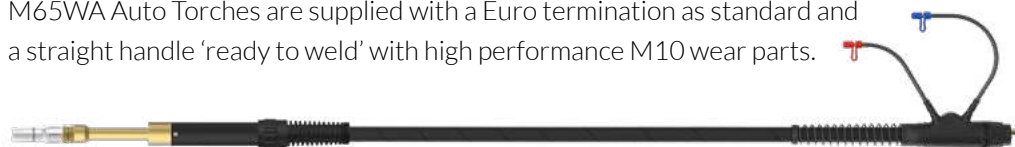
M65WA Auto Liquid-Cooled Mig Welding Torch

Ratings:	580A CO ₂ , 560A mixed gas M21, 400A pulse @100% Max. Load 25KW with 1600W liquid cooler, 0.9mm-2.0mm wires
	550A CO ₂ , 530A mixed gas M21, 360A pulse @100% Max. Load 23KW with 1200W liquid cooler, 0.9mm-2.0mm wires

A double circuit Liquid-Cooled Auto torch ideal for continuous use at high amperages. Suitable for high deposition, pulse and larger wire sizes.

ARC M HIGH PERFORMANCE MIG TORCH PACKAGES

M65WA Auto Torches are supplied with a Euro termination as standard and a straight handle 'ready to weld' with high performance M10 wear parts.



2mt M65WA-2M M65WA22-2M M65WA45-2M	3mt M65WA-3M M65WA22-3M M65WA45-3M	4mt M65WA-4M M65WA22-4M M65WA45-4M
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Handle Dimensions



Wear Parts

Nozzles

Part Number	Description	Bore	Wall	Material
A • AMN55WCN	Conical / Insulator Assy	15mm	3.0mm	Copper
AMN55WTN	Tapered / Insulator Assy	13mm	3.0mm	Copper
AMN55WCYN	Cylindrical/Insulator Assy	17mm	3.0mm	Copper
A1 • AMN55WCN-C	Conical Nozzle c/w Insulator & Retaining Ring			
AMN55WTN-C	Tapered Nozzle c/w Insulator & Retaining Ring			
AMN55WCYN-C	Cylindrical Nozzle c/w Insulator & Retaining Ring			

B Nozzle Retaining Rings

Part Number	Description	Size	Material
• AMN6WCNR	Nozzle Retaining Ring-Pull Off	30.5mm	Brass

C Contact Tips

Part Number	Description	Size (mm)	Wire Size (mm-inch)	Material
Standard Series				
AM6WCT09	Contact Tip	M10*35.5	0.9 - 0.035	CuCrZr
AM6WCT10	Contact Tip	M10*35.5	1.0 - 0.040	CuCrZr
• AM6WCT12	Contact Tip	M10*35.5	1.2 - 0.045	CuCrZr
AM6WCT14	Contact Tip	M10*35.5	1.4 - 0.055	CuCrZr
AM6WCT16	Contact Tip	M10*35.5	1.6 - 0.063	CuCrZr
AM6WCT20	Contact Tip	M10*35.5	2.0 - 0.080	CuCrZr
A Series				
AM6WCT10A	Contact Tip	M10*35.5	1.0 - 0.040	CuCrZr
AM6WCT12A	Contact Tip	M10*35.5	1.2 - 0.045	CuCrZr
AM6WCT16A	Contact Tip	M10*35.5	1.6 - 0.063	CuCrZr
AM6WCT20A	Contact Tip	M10*35.5	2.0 - 0.080	CuCrZr
AMC6WCT10A	Contact Tip	M10*35.5	1.0 - 0.040	Copper
AMC6WCT12A	Contact Tip	M10*35.5	1.2 - 0.045	Copper

• Denotes torch package standard wear part set-up

D Tip Adaptors

Part Number	Description	Material
• AM6OSWTAC-20	High Performance 2.0mm Recess	Copper
AM6OSWTAC-45	High Performance 4.5mm Recess	Copper
AM6OSWTAB-20	Tip Adaptor 2.0mm Recess	Brass
AM6OSWTAB-45	Tip Adaptor 4.5mm Recess	Brass

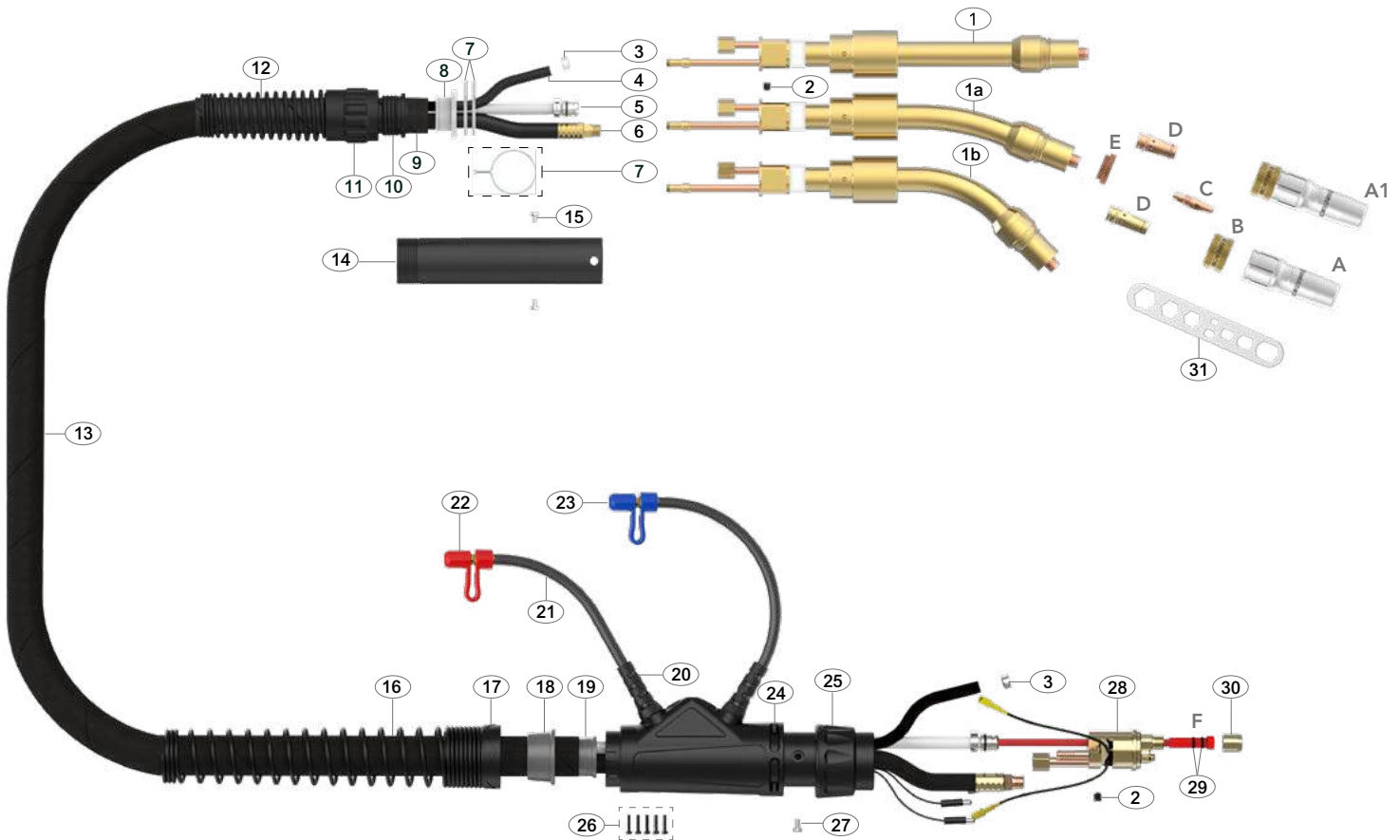
E Tip Adaptor Insulators

Part Number	Description
• AM55WTAI	Tip Adaptor Insulator

F Liners

Part Number	Description	Wire Size
• AM6SL-1012-20	Steel Liner x 2mt	1.0-1.2mm
• AM6SL-1012-30	Steel Liner x 3mt	1.0-1.2mm
• AM6SL-1012-40	Steel Liner x 4mt	1.0-1.2mm
AM6SL-16-20	Steel Liner x 2mt	1.6mm
AM6SL-16-30	Steel Liner x 3mt	1.6mm
AM6SL-16-40	Steel Liner x 4mt	1.6mm
AM6SL-20-20	Steel Liner x 2mt	2.0mm
AM6SL-20-30	Steel Liner x 3mt	2.0mm
AM6SL-20-40	Steel Liner x 4mt	2.0mm
AM6OSWL-1012-20	Soft Wire Liner x 2mt	1.0-1.2mm
AM6OSWL-1012-30	Soft Wire Liner x 3mt	1.0-1.2mm
AM6OSWL-1012-40	Soft Wire Liner x 4mt	1.0-1.2mm
AM6OSWL-1620-20	Soft Wire Liner x 2mt	1.6-2.0mm
AM6OSWL-1620-30	Soft Wire Liner x 3mt	1.6-2.0mm
AM6OSWL-1620-40	Soft Wire Liner x 4mt	1.6-2.0mm

For alternate liner options please refer to page 19-20



Spare Parts

Part Number	Description
1	AMA6002A Auto Swan Neck Straight
1a	AMA6002A22 Auto Swan Neck 22°
1b	AMA6002A45 Auto Swan Neck 45°
2	AM6X5 Outer Liner Retaining Screw
3	AM15400023 Water Hose Clamp 10mm
7	AMWRID35 Wire Clamp \varnothing 35mm
8	AMB8010A Canvas Cover Retainer
10	AMB8110A-L Auto Handle Insert Large
11	AMB8030A Auto Handle Lock Nut
12	AMB8017A Auto Handle Spring
14	AMB3630 Automatic Handle
15	AMB3629 Handle Screw
16	AM8027 Cable Support Spring
17	AM8028 Housing Lock Nut
18	AM8009 Canvas Cover Clamp
19	AM8010 Canvas Cover Retainer
20	AM1820 Hose Support
21	AM5017 Water Outlet Hose Assembly
22	AM80320 Red Cap Stopper
23	AM80310 Blue Cap Stopper
24	AM5022 Housing Assembly
25	AM1519 Gun Plug Nut
26	AMSP1-1 Screw Pack
27	AM1526 Gun Plug Screw(M4 x 0.7)
28	AM5098 Water-Cooled Plug Body Assembly

Part Number	Description
29	AMLOR Liner 'O' Ring
30	AM1826 Liner Retaining Nut
31	AMWS Wear Parts Spanner

Cable Parts

Description	Part Number			
	2mt	3mt	4mt	
4	Water Inlet Hose Assembly	AUTO-AM5012-20	AUTO-AM5012-30	AUTO-AM5012-40
5	Outer Liner Assembly	AUTO-AM6008-20	AUTO-AM6008-30	AUTO-AM6008-40
6	Power Cable Assembly	AM6015-20	AM6015-30	AM6015-40
9	Canvas Cover Assembly	AUTO-AM5019-20	AUTO-AM5019-30	AUTO-AM5019-40
13	Complete Cable Assembly	AUTO-AM6006-20	AUTO-AM6006-30	AUTO-AM6006-40

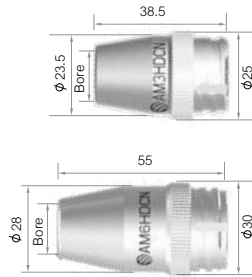
Welding with Soft Wires

For welding with Aluminum wires use a Soft Wire / Combi-Liner (page 19-20). Optimum installation is achieved when using the Soft Wire / Combi-Liner set-up kit.

Optional Extra

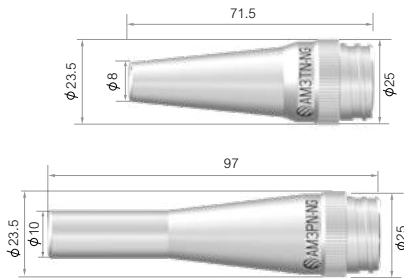
AMOSWLG	Soft Wire Liner Gasket (See Page 20)
AMOSW-LINER-T	Soft Wire / Combi-Liner Set-up Kit (See Page 20)

Air-Cooled Nozzles - 2 Piece



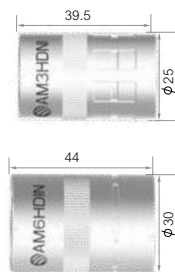
Part No.	Description	Bore	Wall	Material	M3A Auto	M6A Auto
AM3HDTN	Tapered Nozzle	12mm	3mm	Copper	●	●
AM3HDCN	Conical Nozzle	14mm	3mm	Copper	●	●
AM3HDCYN	Cylindrical Nozzle	19mm	3mm	Copper	●	●
AM6HDTN	Tapered Nozzle	13mm	3.5mm	Copper	●	●
AM6HDCN	Conical Nozzle	15mm	3.5mm	Copper	●	●
AM6HDCYN	Cylindrical Nozzle	23mm	3.5mm	Copper	●	●

Air-Cooled Narrow Gap Nozzles - 2 Piece



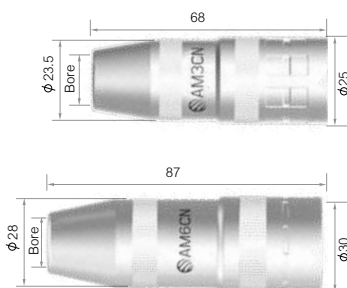
Part No.	Description	Bore	Wall	Material	M3A Auto	M6A Auto
AM3TN-NG	Tapered Nozzle, Narrow Gap	8mm	2.0mm	Copper	●	●
AM3PN-NG	Pipeline Nozzle, Narrow Gap	10mm	2.0mm	Copper	●	●

Air-Cooled Insulator- 2 Piece Nozzles



AM3HDNI	Nozzle Insulator				●	●
AM6HDNI	Nozzle Insulator				●	●

Air-Cooled Nozzles - Single Piece



Part No.	Description	Bore	Wall	Material	M3A Auto	M6A Auto
AM3TN	Tapered Nozzle / Insulator Assy	12mm	2.25mm	Copper	●	●
AM3CN	Conical Nozzle / Insulator Assy	14mm	2.25mm	Copper	●	●
AM3CYN	Cylindrical Nozzle / Insulator Assy	19mm	2.25mm	Copper	●	●
AM6TN	Tapered Nozzle / Insulator Assy	13mm	2.5mm	Copper	●	●
AM6CN	Conical Nozzle / Insulator Assy	15mm	2.5mm	Copper	●	●
AM6CYN	Cylindrical Nozzle / Insulator Assy	23mm	2.5mm	Copper	●	●

● Standard wear part range ● Torch package standard wear part set-up

Liquid-Cooled Nozzles - Separate

M5WA Auto
M65WA Auto



Part No.	Description	Bore	Wall	Material	M5WA Auto	M65WA Auto
AMN5WCN	Conical / Insulator Assy	13.5mm	3.0mm	Copper	●	●
AMN5WTN	Tapered / Insulator Assy	11.5mm	3.0mm	Copper	●	●
AMN5WCYN	Cylindrical / Insulator Assy	16.0mm	3.0mm	Copper	●	●



AMN55WCN	Conical / Insulator Assy	15mm	3.0mm	Copper	●	●
AMN55WTN	Tapered / Insulator Assy	13mm	3.0mm	Copper	●	●
AMN55WCYN	Cylindrical / Insulator Assy	17mm	3.0mm	Copper	●	●

Liquid-Cooled Narrow Gap Nozzles - Separate

M5WA Auto
M65WA Auto



Part No.	Description	Bore	Wall	Material	M5WA Auto	M65WA Auto
AM5WTN-NG	Tapered Nozzle Assy, Narrow Gap	8mm	2.0mm	Copper	●	●



AM5WPN-NG	Pipeline Nozzle Assy, Narrow Gap	10mm	2.0mm	Copper	●	●
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AM55WTN-NG	Tapered Nozzle Assy, Narrow Gap	10mm	2.0mm	Copper	●	●
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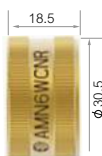
AM55WPN-NG	Pipeline Nozzle Assy, Narrow Gap	12mm	2.0mm	Copper	●	●
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Liquid-Cooled Nozzle Retaining Rings

M5WA Auto
M65WA Auto



Part No.	Description	Size	Material	M5WA Auto	M65WA Auto
AMN5WCNR	Nozzle Retaining Ring	29.5mm	Brass	●	●

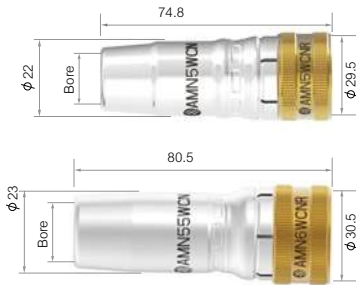


AMN6WCNR	Nozzle Retaining Ring	30.5mm	Brass	●	●
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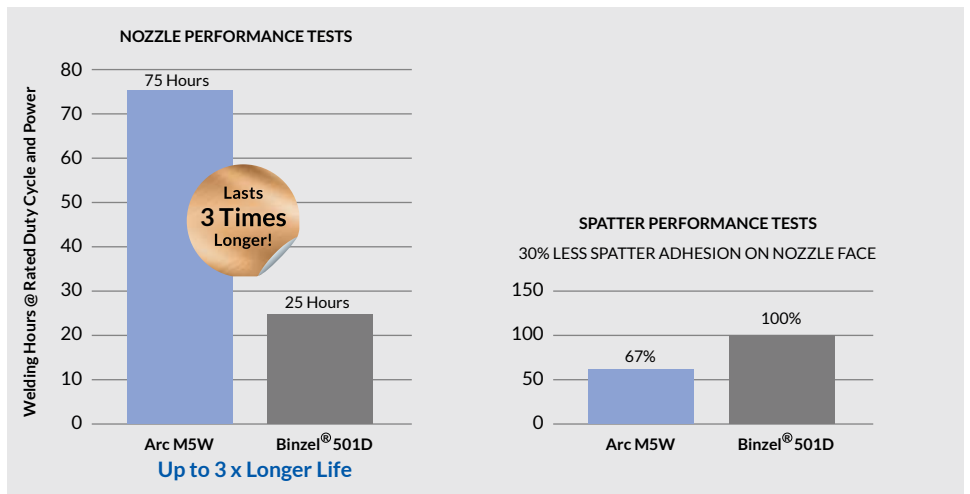
● Standard wear part range ● Torch package standard wear part set-up

Liquid-Cooled Nozzles-Complete

M5WA Auto
M65WA Auto



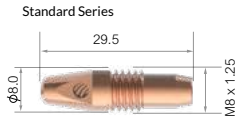
Part No.	Description	M5WA Auto	M65WA Auto
AMN5WCN-C	Conical Nozzle c/w Insulator and Retaining Ring	●	●
AMN5WTN-C	Tapered Nozzle c/w Insulator and Retaining Ring	●	●
AMN5WCYN-C	Cylindrical Nozzle c/w Insulator and Retaining Ring	●	●
AMN55WCN-C	Conical Nozzle c/w Insulator and Retaining Ring	●	●
AMN55WTN-C	Tapered Nozzle c/w Insulator and Retaining Ring	●	●
AMN55WCYN-C	Cylindrical Nozzle c/w Insulator and Retaining Ring	●	●



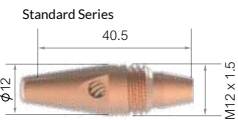
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Contact Tips

M3 Auto
M6A Auto
M5WA Auto
M65WA Auto



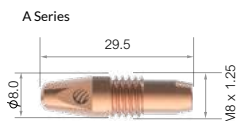
Part No.	Description	Size mm	Wire Size mm-Inch	Material	Wire Type	M3 Auto	M6A Auto	M5WA Auto	M65WA Auto
Standard Series - Recommended for Fe, Fe-MC/FC Set-up									
AM5CT09	Contact Tip	M8*29.5	0.9-0.035	CuCrZr		●	●	●	●
AM5CT10	Contact Tip	M8*29.5	1.0-0.040	CuCrZr	Fe, Fe-FC/MC	●	●	●	●
AM5CT12	Contact Tip	M8*29.5	1.2-0.045	CuCrZr	SS,SS-FC/MC	●	●	●	●
AM5CT14	Contact Tip	M8*29.5	1.4-0.055	CuCrZr	upto 1.2mm	●	●	●	●
AM5CT16	Contact Tip	M8*29.5	1.6-0.063	CuCrZr		●	●	●	●



Standard Series - Recommended for Fe, Fe-MC/FC Set-up									
AM6CT09	Contact Tip	M12*40.5	0.9-0.035	CuCrZr		●	●	●	●
AM6CT10	Contact Tip	M12*40.5	1.0-0.040	CuCrZr		●	●	●	●
AM6CT12	Contact Tip	M12*40.5	1.2-0.045	CuCrZr	Fe, Fe-FC/MC	●	●	●	●
AM6CT14	Contact Tip	M12*40.5	1.4-0.055	CuCrZr	SS,SS-FC/MC	●	●	●	●
AM6CT16	Contact Tip	M12*40.5	1.6-0.063	CuCrZr	upto 1.2mm	●	●	●	●
AM6CT20	Contact Tip	M12*40.5	2.0-0.080	CuCrZr		●	●	●	●



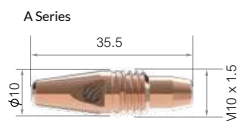
Standard Series - Recommended for Fe, Fe-MC/FC Set-up									
AM6WCT09	Contact Tip	M10*35.5	0.9-0.035	CuCrZr		●	●	●	●
AM6WCT10	Contact Tip	M10*35.5	1.0-0.040	CuCrZr		●	●	●	●
AM6WCT12	Contact Tip	M10*35.5	1.2-0.045	CuCrZr	Fe, Fe-FC/MC	●	●	●	●
AM6WCT14	Contact Tip	M10*35.5	1.4-0.055	CuCrZr	SS,SS-FC/MC	●	●	●	●
AM6WCT16	Contact Tip	M10*35.5	1.6-0.063	CuCrZr	upto 1.2mm	●	●	●	●
AM6WCT20	Contact Tip	M10*35.5	2.0-0.080	CuCrZr		●	●	●	●



A Series - Recommended for Aluminium and SS Set-up									
AM5CT10A	Contact Tip	M8*29.5	1.0-0.040	CuCrZr		●	●	●	●
AM5CT12A	Contact Tip	M8*29.5	1.2-0.045	CuCrZr	Aluminium	●	●	●	●
AM5CT16A	Contact Tip	M8*29.5	1.6-0.063	CuCrZr	SS, SS-FC/MC	●	●	●	●
AM2CT10A	Contact Tip	M8*29.5	1.0-0.040	Copper	upto 1.6mm	●	●	●	●
AM2CT12A	Contact Tip	M8*29.5	1.2-0.045	Copper		●	●	●	●



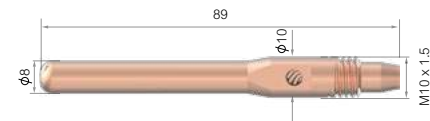
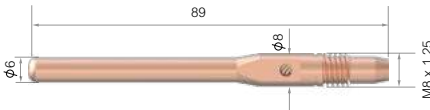
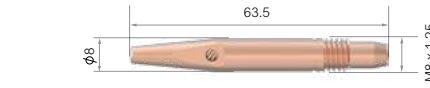
A Series - Recommended for Aluminium and SS Set-up									
AM6CT10A	Contact Tip	M12*40.5	1.0-0.040	CuCrZr		●	●	●	●
AM6CT12A	Contact Tip	M12*40.5	1.2-0.045	CuCrZr		●	●	●	●
AM6CT16A	Contact Tip	M12*40.5	1.6-0.063	CuCrZr	Aluminium	●	●	●	●
AM6CT20A	Contact Tip	M12*40.5	2.0-0.080	CuCrZr	SS, SS-FC/MC	●	●	●	●
AMC6CT10A	Contact Tip	M12*40.5	1.0-0.040	Copper	upto 1.6mm	●	●	●	●
AMC6CT12A	Contact Tip	M12*40.5	1.2-0.045	Copper		●	●	●	●



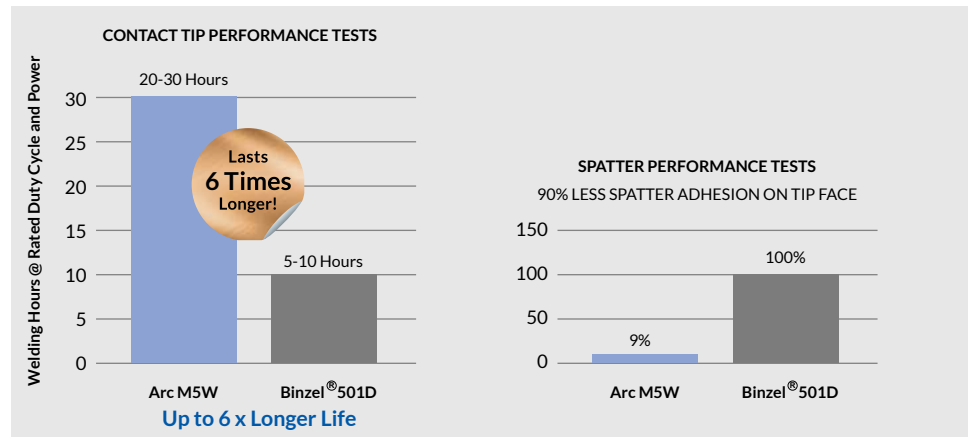
A Series - Recommended for Aluminium and SS Set-up									
AM6WCT10A	Contact Tip	M10*35.5	1.0-0.040	CuCrZr		●	●	●	●
AM6WCT12A	Contact Tip	M10*35.5	1.2-0.045	CuCrZr		●	●	●	●
AM6WCT16A	Contact Tip	M10*35.5	1.6-0.063	CuCrZr	Aluminium	●	●	●	●
AM6WCT20A	Contact Tip	M10*35.5	2.0-0.080	CuCrZr	SS, SS-FC/MC	●	●	●	●
AMC6WCT10A	Contact Tip	M10*35.5	1.0-0.040	Copper	1.6mm	●	●	●	●
AMC6WCT12A	Contact Tip	M10*35.5	1.2-0.045	Copper		●	●	●	●

● Standard wear part range ● Torch package standard wear part set-up

Narrow Gap Contact Tips



Part No.	Description	Size mm	Wire Size mm-Inch	Material	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
A Series - Recommended for Aluminium and SS Set-up								
AM5CT10T	Contact Tip	M8*63.5mm	1.0-0.040	CuCrZr	●	●	●	●
AM5CT12T	Contact Tip	M8*63.5mm	1.2-0.045	CuCrZr	●	●	●	●
A Series - Recommended for Aluminium and SS Set-up								
AM5CT10L	Contact Tip	M8*89mm	1.0-0.040	CuCrZr	●	●	●	●
AM5CT12L	Contact Tip	M8*89mm	1.2-0.045	CuCrZr	●	●	●	●
A Series - Recommended for Aluminium and SS Set-up								
AM6WCT10T	Contact Tip	M10*63.5mm	1.0-0.040	CuCrZr	●	●	●	●
AM6WCT12T	Contact Tip	M10*63.5mm	1.2-0.045	CuCrZr	●	●	●	●
A Series - Recommended for Aluminium and SS Set-up								
AM6WCT10L	Contact Tip	M10*89mm	1.0-0.040	CuCrZr	●	●	●	●
AM6WCT12L	Contact Tip	M10*89mm	1.2-0.045	CuCrZr	●	●	●	●



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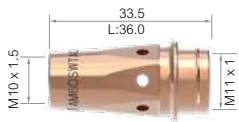
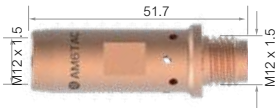
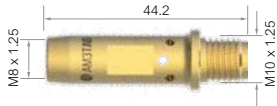
Tip Adaptors



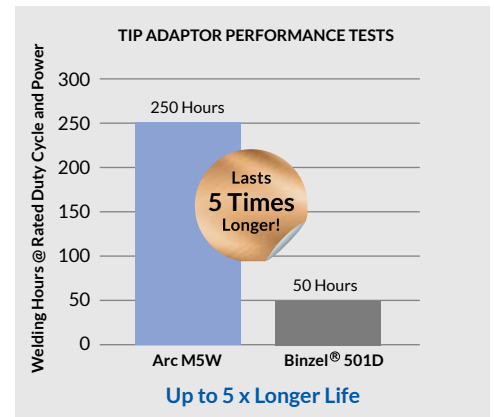
Part No.	Description	Length	Material	Transfer	Amps / Pulse	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
Recommended for high amperages, high duty and pulse welding. Tips run cooler									
AM5WTAC-20	High Performance 2.0mm Recess	34.5mm	Copper	Short Circuit	<200A Low Current Pulse	●	●	●	●
AM5WTAC-45	High Performance 4.5mm Recess	32mm	Copper	Spray	>200A High Current Pulse	●	●	●	●
AM5WTAB-20	Tip Adaptor 2.0mm Recess	34.5mm	Brass	Short Circuit	<200A Low Current Pulse	●	●	●	●
AM5WTAB-45	Tip Adaptor 4.5mm Recess	32mm	Brass	Spray	>200A High Current Pulse	●	●	●	●

● Standard wear part range ● Torch package standard wear part set-up

Tip Adaptors

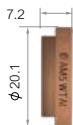


Part No.	Description	Length	Material	Transfer	Amps / Pulse	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
Recommended for high amperages, high duty and pulse welding. Tips run colour									
AM3TAC	Tip Adaptor High Performance	44.2mm	CuCrZr		High Current Pulse	●	●	●	●
AM3TAB	Tip Adaptor	44.2mm	Brass		Low Current Pulse	●	●	●	●
AM6TAC	Tip Adaptor High Performance	51.7mm	CuCrZr		High Current Pulse	●	●	●	●
AM6TAB	Tip Adaptor	51.7mm	Brass		Low Current Pulse	●	●	●	●
Recommended for high amperages, high duty and pulse welding. Tips run cooler									
AM6OSWTAC-20	High Performance 2.0mm Recess	36.0mm	Copper	Short Circuit	<200A Low Current Pulse	●	●	●	●
AM6OSWTAC-45	High Performance 4.5mm Recess	33.5mm	Copper	Spray	>200A High Current Pulse	●	●	●	●
AM6OSWTAB-20	Tip Adaptor 2.0mm Recess	36.0mm	Brass	Short Circuit	<200A Low Current Pulse	●	●	●	●
AM6OSWTAB-45	Tip Adaptor 4.5mm Recess	33.5mm	Brass	Spray	>200A High Current Pulse	●	●	●	●



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Tip Adaptor Insulators



Part No.	Description	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
AM5WTAI	Tip Adaptor Insulator	●	●	●	●
AM55WTAI	Tip Adaptor Insulator	●	●	●	●

● Standard wear part range ● Torch package standard wear part set-up

Liners

Filler Metal

Steel Liner Recommended for: Fe, Fe-MC/FC. Light and medium duty applications

Part No.	Description	Nipple	Wire Size mm	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
AM1535-20	Steel Liner x 2mt	Moulded Nipple	0.6-0.9	●	●	●	●
AM1535-30	Steel Liner x 3mt	Moulded Nipple	0.6-0.9	●	●	●	●
AM1535-40	Steel Liner x 4mt	Moulded Nipple	0.6-0.9	●	●	●	●
AM1535-50	Steel Liner x 5mt	Moulded Nipple	0.6-0.9	●	●	●	●



AM2524-20	Steel Liner x 2mt	Moulded Nipple	1.0-1.2	●	●	●	●
AM2524-30	Steel Liner x 3mt	Moulded Nipple	1.0-1.2	●	●	●	●
AM2524-40	Steel Liner x 4mt	Moulded Nipple	1.0-1.2	●	●	●	●
AM2524-50	Steel Liner x 5mt	Moulded Nipple	1.0-1.2	●	●	●	●



Filler Metal Fe, Fe-MC/FC

Steel Liner Recommended for: Light and medium duty applications

Part No.	Description	Contact Tip	Wire Size mm	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
AM6SL-1012-20	Steel Liner x 2mt	Standard Series	1.0-1.2	●	●	●	●
AM6SL-1012-30	Steel Liner x 3mt	Standard Series	1.0-1.2	●	●	●	●
AM6SL-1012-40	Steel Liner x 4mt	Standard Series	1.0-1.2	●	●	●	●
AM6SL-1012-50	Steel Liner x 5mt	Standard Series	1.0-1.2	●	●	●	●



AM6SL-16-20	Steel Liner x 2mt	Standard Series	1.6	●	●	●	●
AM6SL-16-30	Steel Liner x 3mt	Standard Series	1.6	●	●	●	●
AM6SL-16-40	Steel Liner x 4mt	Standard Series	1.6	●	●	●	●
AM6SL-16-50	Steel Liner x 5mt	Standard Series	1.6	●	●	●	●



AM6SL-20-20	Steel Liner x 2mt	Standard Series	2.0	●	●	●	●
AM6SL-20-30	Steel Liner x 3mt	Standard Series	2.0	●	●	●	●
AM6SL-20-40	Steel Liner x 4mt	Standard Series	2.0	●	●	●	●
AM6SL-20-50	Steel Liner x 5mt	Standard Series	2.0	●	●	●	●



● Standard wear part range ● Torch package standard wear part set-up

Liners

Filler Metal SS, SS-MC/FC

Stainless Steel Liner Recommended for: Heavy Duty Fe. High amperages and heavy deposition welding

Part No.	Description	Contact Tip	Wire Size mm	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
AM6SSTL-1012-20	Stainless Steel Liner x 2mt	Standard Series	1.0-1.2	●	●	●	●
AM6SSTL-1012-30	Stainless Steel Liner x 3mt	Standard Series	1.0-1.2	●	●	●	●
AM6SSTL-1012-40	Stainless Steel Liner x 4mt	Standard Series	1.0-1.2	●	●	●	●
AM6SSTL-1012-50	Stainless Steel Liner x 5mt	Standard Series	1.0-1.2	●	●	●	●



AM6SSTL-16-20	Stainless Steel Liner x 2mt	A Series	1.6	●	●	●	●
AM6SSTL-16-30	Stainless Steel Liner x 3mt	A Series	1.6	●	●	●	●
AM6SSTL-16-40	Stainless Steel Liner x 4mt	A Series	1.6	●	●	●	●
AM6SSTL-16-50	Stainless Steel Liner x 5mt	A Series	1.6	●	●	●	●



Filler Metal

Al - Combi Liner Recommended for: Al, can be used for SS, SS-MC/FC

Part No.	Description	Contact Tip	Wire Size mm	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
AM1564-20	Combi-Liner x 2mt	A Series	0.8-1.2	●	●	●	●
AM1564-30	Combi-Liner x 3mt	A Series	0.8-1.2	●	●	●	●
AM1564-40	Combi-Liner x 4mt	A Series	0.8-1.2	●	●	●	●
AM1564-50	Combi-Liner x 5mt	A Series	0.8-1.2	●	●	●	●
AM2564-30	Combi-Liner x 3mt	A Series	1.2-1.6	●	●	●	●
AM2564-40	Combi-Liner x 4mt	A Series	1.2-1.6	●	●	●	●
AM2564-50	Combi-Liner x 5mt	A Series	1.2-1.6	●	●	●	●



Al - Combi Liner Recommended for: Air-Cooled, Liquid-Cooled frequent / repetitive arc starts

AM6CL-1012-20	Combi-Liner x 2mt	A Series	1.0-1.2	●	●	●	●
AM6CL-1012-30	Combi-Liner x 3mt	A Series	1.0-1.2	●	●	●	●
AM6CL-1012-40	Combi-Liner x 4mt	A Series	1.0-1.2	●	●	●	●
AM6CL-1012-50	Combi-Liner x 5mt	A Series	1.0-1.2	●	●	●	●



● Standard wear part range ● Torch package standard wear part set-up

Liners

Filler Metal

Al - Combi Liner Recommended for: Air-Cooled, Liquid-Cooled frequent / repetitive arc starts

Part No.	Description	Contact Tip	Wire Size mm	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
AM6CL-1620-20	Combi-Liner x 2mt	A Series	1.6	●	●	●	●
AM6CL-1620-30	Combi-Liner x 3mt	A Series	1.6	●	●	●	●
AM6CL-1620-40	Combi-Liner x 4mt	A Series	1.6	●	●	●	●
AM6CL-1620-50	Combi-Liner x 5mt	A Series	1.6	●	●	●	●



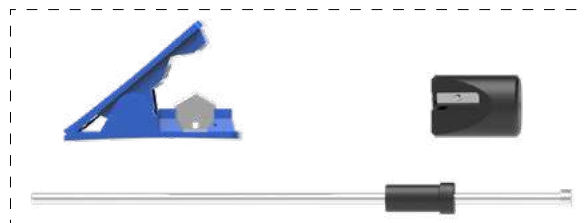
Filler Metal

Al - Soft Wire Liner Recommended for: Liquid-Cooled torches, AISi, Pure Al and copper wires

Part No.	Description	Contact Tip	Wire Size mm	M3A Auto	M6A Auto	M5WA Auto	M65WA Auto
AM6OSWL-1012-20	Soft Wire Liner x 2mt	A Series	1.0-1.2	●	●	●	●
AM6OSWL-1012-30	Soft Wire Liner x 3mt	A Series	1.0-1.2	●	●	●	●
AM6OSWL-1012-40	Soft Wire Liner x 4mt	A Series	1.0-1.2	●	●	●	●
AM6OSWL-1620-20	Soft Wire Liner x 2mt	A Series	1.6-2.0	●	●	●	●
AM6OSWL-1620-30	Soft Wire Liner x 3mt	A Series	1.6-2.0	●	●	●	●
AM6OSWL-1620-40	Soft Wire Liner x 4mt	A Series	1.6-2.0	●	●	●	●



AMOSW_LINER-T	Soft Wire / Combi-Liner Set-up Kit			●	●	●	●
AMCLST-KITS	Combi-Liner Set-up Kit			●	●	●	●



● Standard wear part range ● Torch package standard wear part set-up

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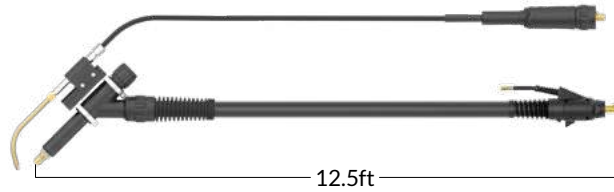
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AIR-COOLED

High Performance Tig Series

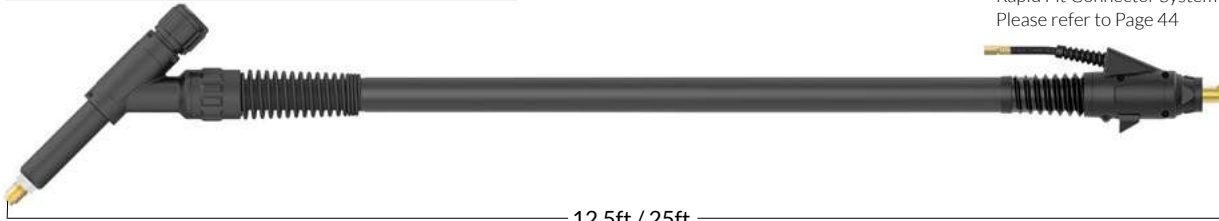
T1A/CWT1A Auto IEC / EN 60974-7

Cooling Method	Air-Cooled		
Length	12.5ft	25ft	
Rating:	DC	140A	140A
	AC	100A	100A
Duty Cycle	60%	60%	
Electrode Size	1.0-3.2mm/0.04"-1/8"		
Operating Temperature	-20°C ..+40°C		



12.5ft

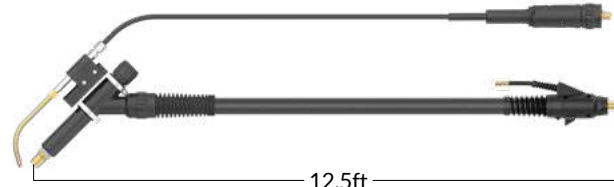
Rapid Fit Connector System
Please refer to Page 44



12.5ft / 25ft

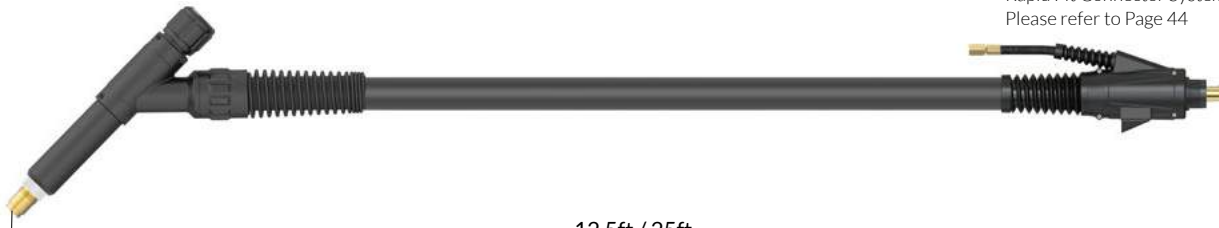
T3A/CWT3A Auto IEC / EN 60974-7

Cooling Method	Air-Cooled		
Length	12.5ft	25ft	
Rating:	DC	240A	220A
	AC	170A	155A
Duty Cycle	60%	60%	
Electrode Size	1.0-4.8mm/0.04"-3/16"		
Operating Temperature	-20°C ..+40°C		



12.5ft

Rapid Fit Connector System
Please refer to Page 44



12.5ft / 25ft

LIQUID-COOLED

High Performance Tig Series

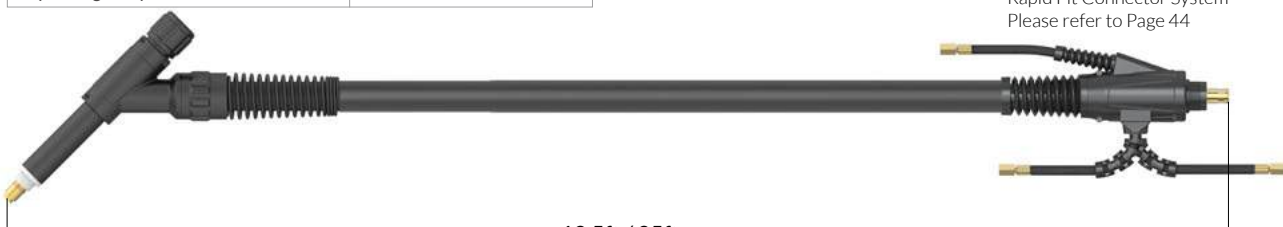
T1WA/CWT1WA Auto IEC / EN 60974-7

Cooling Method	Liquid-Cooled			
Length	12.5ft	25ft		
Rating:	DC	1000W	330A	330A
	AC	1000W	230A	230A
	DC	1600W	-	-
	AC	1600W	-	-
Duty Cycle	100%	100%		
Electrode Size	1.0 - 4.0mm / 0.04"-5/32"			
Minimum Liquid Flow Rate	1.5 l/min			
Minimum Liquid Inlet Pressure	2.5 Bar			
Maximum Liquid Inlet Pressure	5.0 Bar			
Maximum Liquid Inlet Temperature	50°C			
Operating Temperature	-20°C ..+40°C			



12.5ft

Rapid Fit Connector System
Please refer to Page 44



12.5ft / 25ft

LIQUID-COOLED

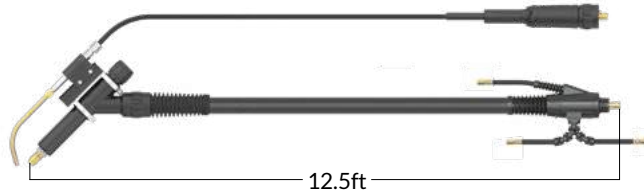
High Performance Tig Series



MAKE WORK
LIFE EASIER

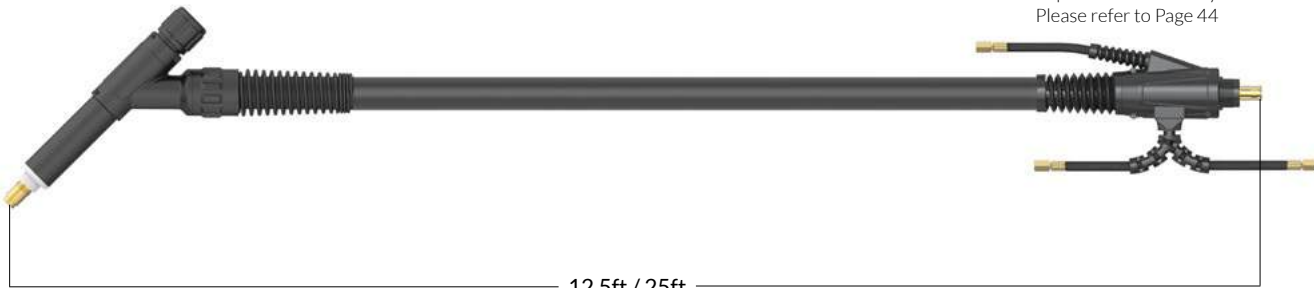
T3WA/CWT3WA Auto IEC / EN 60974-7

Cooling Method		Liquid-Cooled	
Length		12.5ft	25ft
Rating:	DC 1200W	400A	400A
	AC 1200W	280A	280A
	DC 1600W	-	-
	AC 1600W	-	-
Duty Cycle		100%	100%
Electrode Size		1.0 - 4.0mm / 0.04"-5/32"	
Minimum Liquid Flow Rate		1.5 l/min	
Minimum Liquid Inlet Pressure		2.5 Bar	
Maximum Liquid Inlet Pressure		5.0 Bar	
Maximum Liquid Inlet Temperature		50°C	
Operating Temperature		-20°C ..+40°C	



12.5ft

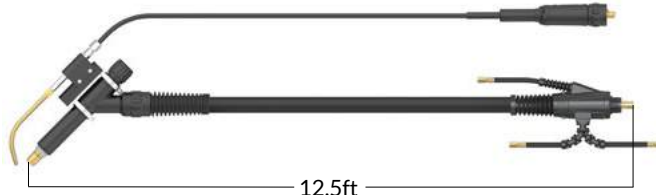
Rapid Fit Connector System
Please refer to Page 44



12.5ft / 25ft

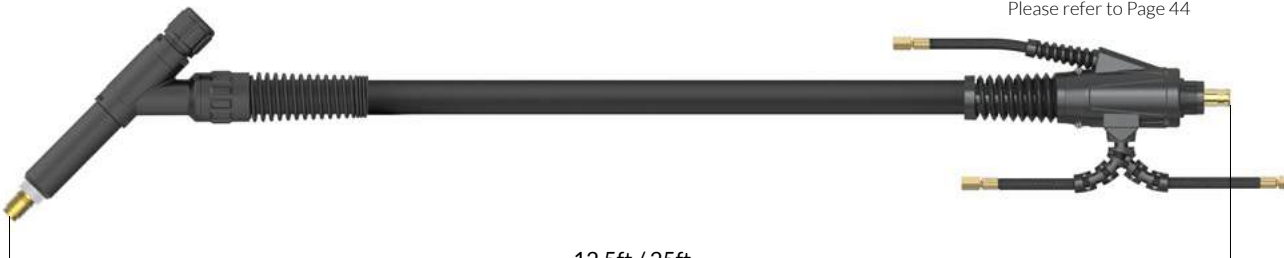
T5WA/CWT5WA Auto IEC / EN 60974-7

Cooling Method		Liquid-Cooled	
Length		12.5ft	25ft
Rating:	DC 1200W	550A	450A
	AC 1200W	385A	315A
	DC 1600W	550A	450A
	AC 1600W	385A	315A
Duty Cycle		100%	100%
Electrode Size		1.6- 6.4mm / 1/16"-1/4"	
Minimum Liquid Flow Rate		1.5 l/min	
Minimum Liquid Inlet Pressure		2.5 Bar	
Maximum Liquid Inlet Pressure		5.0 Bar	
Maximum Liquid Inlet Temperature		50°C	
Operating Temperature		-20°C ..+40°C	



12.5ft

Rapid Fit Connector System
Please refer to Page 44



12.5ft / 25ft

T1A Auto Air-Cooled Tig Welding Torch

Ratings: 140A DC, 100A AC @60% duty cycle. 1.0 to 3.2mm Electrode

A small front-end Auto Tig torch suitable for Automatic and Cobotic applications.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas fittings, please refer to the Torch Configurators - pages 46-52.



12.5ft
T1A-4M-SL-QGS1

25ft
T1A-8M-SL-QGS1



Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T1CC04	Ceramic Cup	#4	6mm - 1/4"
T1CC05	Ceramic Cup	#5	8mm - 5/16"
T1CC06	Ceramic Cup	#6	10mm - 3/8"
T1CC07	Ceramic Cup	#7	11mm - 7/16"
T1CC08	Ceramic Cup	#8	12.5mm - 1/2"
T1CC10	Ceramic Cup	#10	15mm - 5/8"

B Short Ceramic Cup

Part Number	Description	Nozzle	Bore Size
T1CC05S	Short Ceramic Cup	#5	8mm - 5/16"
T1CC07S	Short Ceramic Cup	#7	11mm - 7/16"
T1CC10S	Short Ceramic Cup	#10	15mm - 5/8"

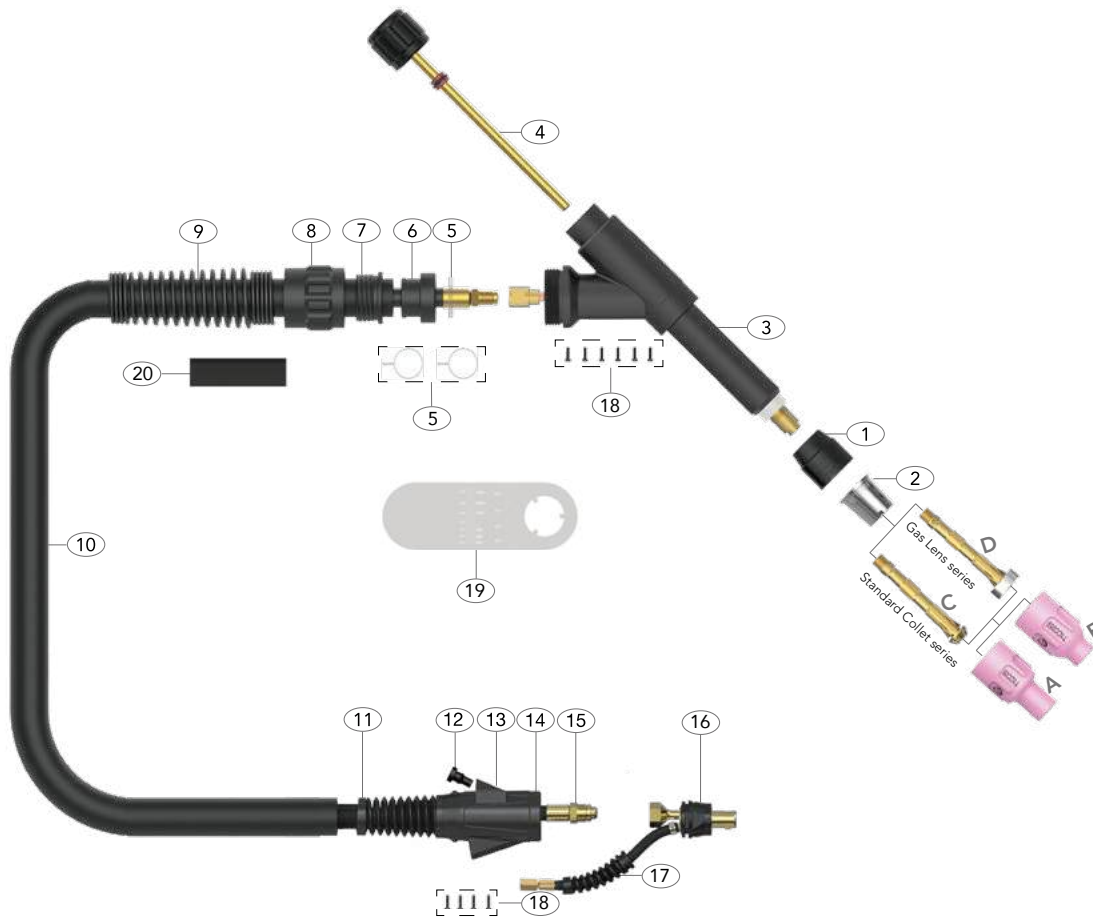
C Collet Body

Part Number	Description	Bore Size
T1ACB10	Collet Body	1.0mm - 0.04"
T1ACB16	Collet Body	1.6mm - 1/16"
T1ACB20	Collet Body	2.0mm - 5/64"
T1ACB24	Collet Body	2.4mm - 3/32"
T1ACB32	Collet Body	3.2mm - 1/8"

D Gas Lens Collet Body

Part Number	Description	Bore Size
T1AGL10	Gas Lens Collet Body	1.0mm - 0.04"
T1AGL16	Gas Lens Collet Body	1.6mm - 1/16"
T1AGL20	Gas Lens Collet Body	2.0mm - 5/64"
T1AGL24	Gas Lens Collet Body	2.4mm - 3/32"
T1AGL32	Gas Lens Collet Body	3.2mm - 1/8"

To set-up your Arc Tig Torch please add the relevant starter kit. Please refer to Page 62.



Spare Parts

Part Number	Description
1 T1GS	Head Gasket
2 T1SN	Heat Zone Isolator
3 T1A	T1A Auto Air-Cooled Torch Body
4 T1WABC	T1W Auto Torch Back Cap
5 ATWA9115F	Wire Clamp \varnothing 30mm
6 AT-S-L	Canvas Cover Retainer
7 AMB8110A-L	Auto Handle Insert
8 AMB8030A	Auto Handle Lock Nut
9 AMB8017A	Auto Handle Spring
10 AT150-40	Neoprene Sheath x 12.5ft
AT150-80	Neoprene Sheath x 25ft
11 ATSLH26-S	Cable Support Large
12 ATSLH26-SA	Silicone Rubber Stopper
13 ATSLH26-C	Surelok™ Housing Cover
14 ATSLH26-H	Surelok™ Housing Large

Part Number	Description
15 AT1820-4M-OB	Power Cable x 12.5ft Surelok™ O/B Rubber
AT1820-8M-OB	Power Cable x 25ft Surelok™ O/B Rubber
16 ATSL3550	Surelok™ Body & Support
17 ATNSLOB-1-QGS#	Gas Supply Hose O/B
18 ATERSP1	Screw Pack
19 AT-SP-S	Spanner Small
20 ATHS18MM-90	Heat Shrink Tube

Gas supply hoses are specified by utilizing the part number and a termination suffix from the gas supply hose table on Page 44.

Example: ATNSLOB01-QGS1

Gas Supply Hose Rapid Fit c/w 3/8" BSP

T3A Auto Air-Cooled Tig Welding Torch

Ratings: 240A DC, 170A AC @60% duty cycle. 1.0 to 4.8mm Electrode

Air-Cooled Automatic Tig torch.
Suitable for DC and AC processes in Automation and Cobotic applications.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas fittings, please refer to the Torch Configurators - pages 46-52.



12.5ft
T3A-4M-SL-QGS1

25ft
T3A-8M-SL-QGS1



Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T3CC04	Ceramic Cup	#4	6mm - 1/4"
T3CC05	Ceramic Cup	#5	8mm - 5/16"
T3CC06	Ceramic Cup	#6	10mm - 3/8"
T3CC07	Ceramic Cup	#7	11mm - 7/16"
T3CC08	Ceramic Cup	#8	12.5mm - 1/2"
T3CC10	Ceramic Cup	#10	16mm - 5/8"

B Large Gas Lens Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T5LGLCC08	Large Gas Lens Ceramic Cup	#8	12.5mm - 1/2"
T5LGLCC10	Large Gas Lens Ceramic Cup	#10	16mm - 5/8"
T5LGLCC12	Large Gas Lens Ceramic Cup	#12	19mm - 3/4"

C Collet Body

Part Number	Description	Bore Size
T3CB10	Collet Body	1.0mm - 0.04"
T3CB16	Collet Body	1.6mm - 1/16"
T3CB20	Collet Body	2.0mm - 5/64"
T3CB24	Collet Body	2.4mm - 3/32"
T3CB32	Collet Body	3.2mm - 1/8"
T3CB40	Collet Body	4.0mm - 5/32"
T3CB48	Collet Body	4.8mm - 3/16"

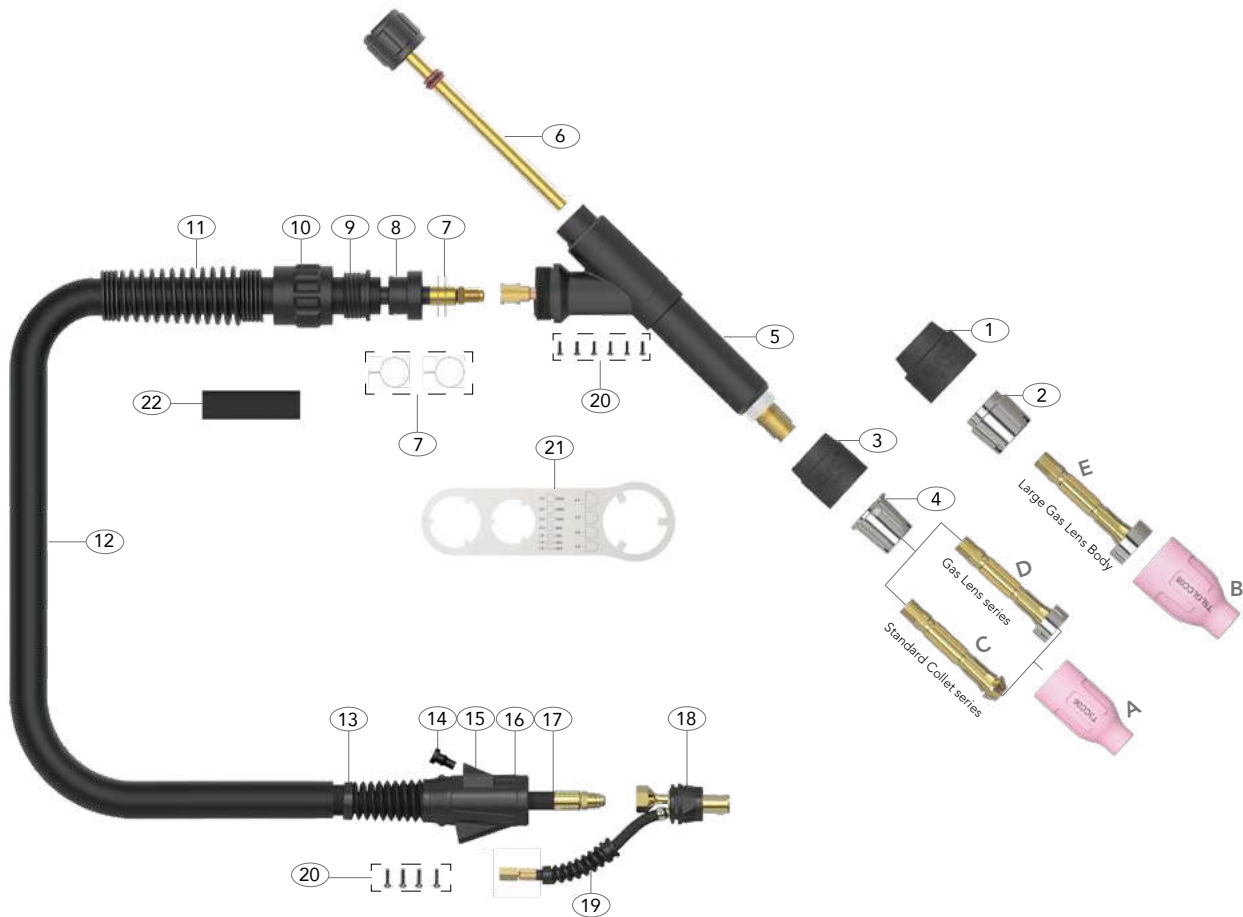
D Gas Lens Collet Body

Part Number	Description	Bore Size
T3GL10	Gas Lens Collet Body	1.0mm - 0.04"
T3GL16	Gas Lens Collet Body	1.6mm - 1/16"
T3GL20	Gas Lens Collet Body	2.0mm - 5/64"
T3GL24	Gas Lens Collet Body	2.4mm - 3/32"
T3GL32	Gas Lens Collet Body	3.2mm - 1/8"
T3GL40	Gas Lens Collet Body	4.0mm - 5/32"
T3GL48	Gas Lens Collet Body	4.8mm - 3/16"

E Large Gas Lens Collet Body

Part Number	Description	Bore Size
T5LGL10	Large Gas Lens Collet Body	1.0mm - 0.04"
T5LGL16	Large Gas Lens Collet Body	1.6mm - 1/16"
T5LGL20	Large Gas Lens Collet Body	2.0mm - 5/64"
T5LGL24	Large Gas Lens Collet Body	2.4mm - 3/32"
T5LGL32	Large Gas Lens Collet Body	3.2mm - 1/8"
T5LGL40	Large Gas Lens Collet Body	4.0mm - 5/32"
T5LGL48	Large Gas Lens Collet Body	4.8mm - 3/16"

To set-up your Arc Tig Torch please add the relevant starter kit.
 Please refer to Page 62.



Spare Parts

Part Number	Description	Part Number	Description
1	T3LGS Large Head Gasket	15	ATSLH26-C Surelok™ Housing Cover
2	T3LSN Large Heat Zone Isolator	16	ATSLH26-H Surelok™ Housing Large
3	T3GS Head Gasket	17	AT2620-4M-OB Power Cable x 12.5ft Surelok™ O/B Rubber
4	T3SN Heat Zone Isolator		AT2620-8M-OB Power Cable x 25ft Surelok™ O/B Rubber
5	T3A T3 Auto Air-Cooled Torch Body	18	ATSL3550 Surelok™ Body & Support
6	T5WABC T5W Auto Torch Back Cap	19	ATNSLOB-1-QGS# Gas Supply Hose O/B
7	ATWA9115F Wire Clamp ∅30mm	20	ATERSP1 Screw Pack
8	AT-S-L Canvas Cover Retainer	21	AT-SP Spanner
9	AMB8110A -L Auto Handle Insert	22	ATHS18MM-90 Heat Shrink Tube
*10	AMB8030A Auto Handle Lock Nut		
11	AMB8017A Auto Handle Spring		
12	AT150-40 Neoprene Sheath x 12.5ft		
	AT150-80 Neoprene Sheath x 25ft		
13	ATSLH26-S Cable Support Large		
14	ATSLH26-SA Silicone Rubber Stopper		

Gas supply hoses are specified by utilizing the part number and a termination suffix from the gas supply hose table on Page 44.

Example: ATNSLOB-1-QGS1

Gas Supply Hose Rapid Fit c/w 3/8" BSP

High Performance Ceramics Available

Withstands extreme temperatures up to 1950°C without any risk of cracking or burning.
Please refer to Page 56

T1WA Auto Liquid-Cooled Tig Welding Torch

Ratings: 330A DC, 230A AC @ 100% duty cycle, 1.0 to 4.0mm Electrode

A small front-end Auto Tig torch suitable for Automatic and Cobotic applications.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas and water fittings, please refer to the Torch Configurators - pages 46-52.



Handle Dimension



12.5ft
T1WA-4M-SL-QWF1-QWR1-QGS1

25ft
T1WA-8M-SL-QWF1-QWR1-QGS1

Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T1CC04	Ceramic Cup	#4	6mm - 1/4"
T1CC05	Ceramic Cup	#5	8mm - 5/16"
T1CC06	Ceramic Cup	#6	10mm - 3/8"
T1CC07	Ceramic Cup	#7	11mm - 7/16"
T1CC08	Ceramic Cup	#8	12.5mm - 1/2"
T1CC10	Ceramic Cup	#10	16mm - 5/8"

B Short Ceramic Cup

Part Number	Description	Nozzle	Bore Size
T1CC05S	Short Ceramic Cup	#5	8mm - 5/16"
T1CC07S	Short Ceramic Cup	#7	11mm - 7/16"
T1CC10S	Short Ceramic Cup	#10	15mm - 5/8"

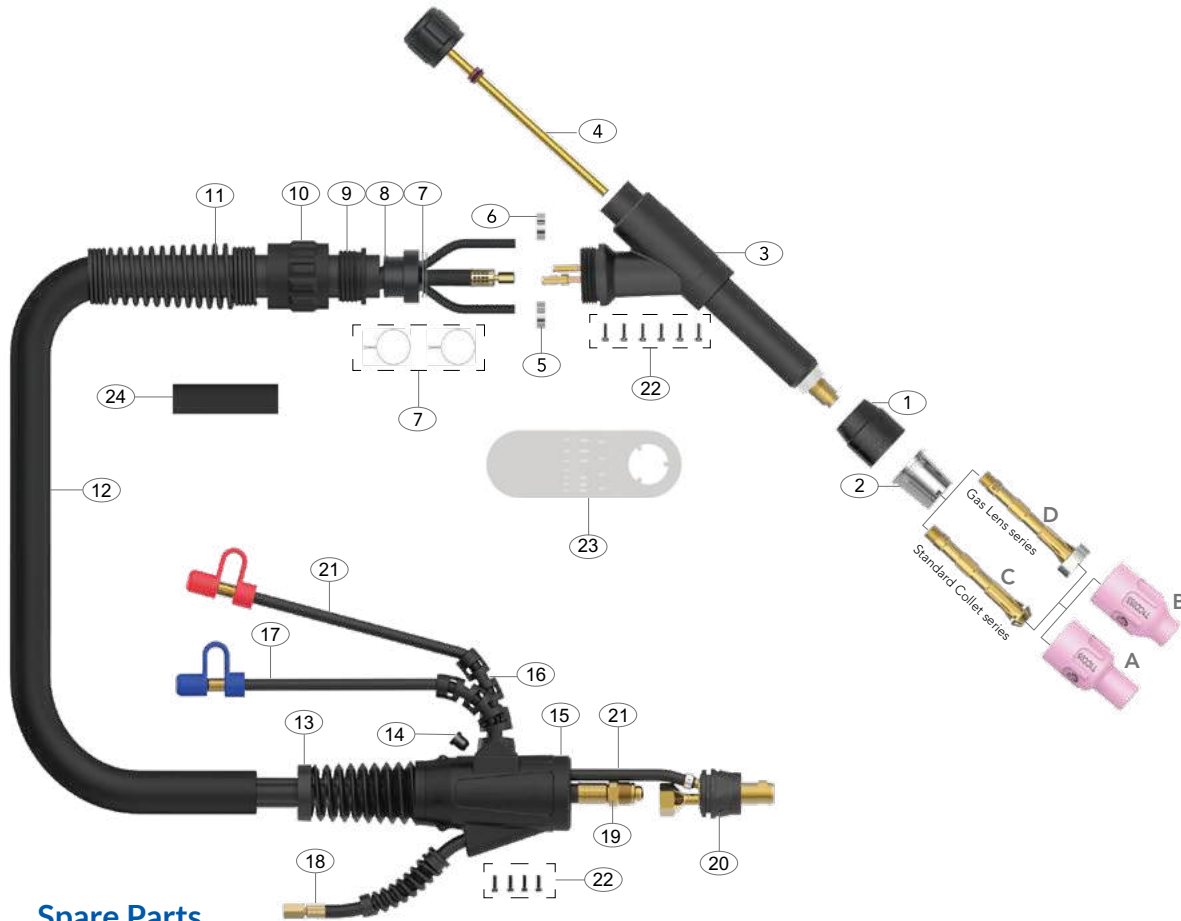
C Collet Body

Part Number	Description	Bore Size
T1ACB10	Collet Body	1.0mm - 0.04"
T1ACB16	Collet Body	1.6mm - 1/16"
T1ACB20	Collet Body	2.0mm - 5/64"
T1ACB24	Collet Body	2.4mm - 3/32"
T1ACB32	Collet Body	3.2mm - 1/8"
T1ACB40	Collet Body	4.0mm - 5/32"

D Gas Lens Collet Body

Part Number	Description	Bore Size
T1AGL10	Gas Lens Collet Body	1.0mm - 0.04"
T1AGL16	Gas Lens Collet Body	1.6mm - 1/16"
T1AGL20	Gas Lens Collet Body	2.0mm - 5/64"
T1AGL24	Gas Lens Collet Body	2.4mm - 3/32"
T1AGL32	Gas Lens Collet Body	3.2mm - 1/8"
T1AGL40	Gas Lens Collet Body	4.0mm - 5/32"

To set-up your Arc Tig Torch please add the relevant starter kit. Please refer to Page 62.



Spare Parts

Part Number	Description
1	T1GS Head Gasket
2	T1SN Heat Zone Isolator
3	T1WA T1W Auto Liquid-Cooled Torch Body
4	T1WABC T1W Auto Torch Back Cap
5	AM15400022 Water Hose Clamp 9.5mm
6	AM15400020 Gas Hose Clamp 8.7mm
7	ATW9115F Wire Clamp \varnothing 30mm
8	AT-S-L Canvas Cover Retainer
9	AMB8110A-L Auto Handle Insert
10	AMB8030A Auto Handle Lock Nut
11	AMB8017A Auto Handle Spring
12	AT200-40 Neoprene Sheath x 12.5ft AT200-80 Neoprene Sheath x 25ft
13	ATSLH26-S Cable Support Large
14	ATSLH26-SW Silicone Rubber Stopper
15	ATSLH26-H Surelok™ Housing Large
16	ATSLH1820-S Surelok™ Housing Support
17	ATPAP45V070B-QWF# Water Feed Hose x 12.5ft O/B Rubber ATPAP45V080B-QWF# Water Feed Hose x 25ft O/B Rubber
18	ATPAUN45V090B-QGS# Gas Supply Hose x 12.5ft O/B Rubber ATPAUN45V100B-QGS# Gas Supply Hose x 25ft O/B Rubber

Part Number	Description
19	AT3320-4M-OB Power Cable x 12.5ft Surelok™ O/B Rubber AT3320-8M-OB Power Cable x 25ft Surelok™ O/B Rubber
20	ATSL3550 Surelok™ Body & Support
21	ATNSLOB-1-QWR# Water Return Hose O/B
22	ATERSP1 Screw Pack
23	AT-SP-S Spanner Small
24	ATHS22MM-130 Heat Shrink Tube

Water feed and gas supply hoses are specified by utilizing the part number and a termination suffix from the water feed and gas supply hose table on Page 44.

Example: ATPAP45V070B-QWF1

Water Feed Hose Rapid Fit x 12.5ft c/w 8.9mm Quick Fit

Example: ATPAUN45V090B-QGS4

Gas Supply Hose Rapid Fit x 12.5ft c/w 8.9mm Quick Fit

T3WA Auto Liquid-Cooled Tig Welding Torch

Ratings: 400A DC, 280A AC @ 100% duty cycle, 1.0 to 4.0mm Electrode

Liquid-Cooled Automatic Tig torch.
Suitable for DC and AC processes in Automation and Cobotic applications.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas and water fittings, please refer to the Torch Configurators - pages 46-52.



Handle Dimension



12.5ft
T3WA-4M-SL-QWF1-QWR1-QGS1

25ft
T3WA-8M-SL-QWF1-QWR1-QGS1

Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T2CC04	Ceramic Cup	#4	6mm - 1/4"
T2CC05	Ceramic Cup	#5	8mm - 5/16"
T2CC06	Ceramic Cup	#6	10mm - 3/8"
T2CC07	Ceramic Cup	#7	11mm - 7/16"
T2CC08	Ceramic Cup	#8	12.5mm - 1/2"
T2CC10	Ceramic Cup	#10	16mm - 5/8"

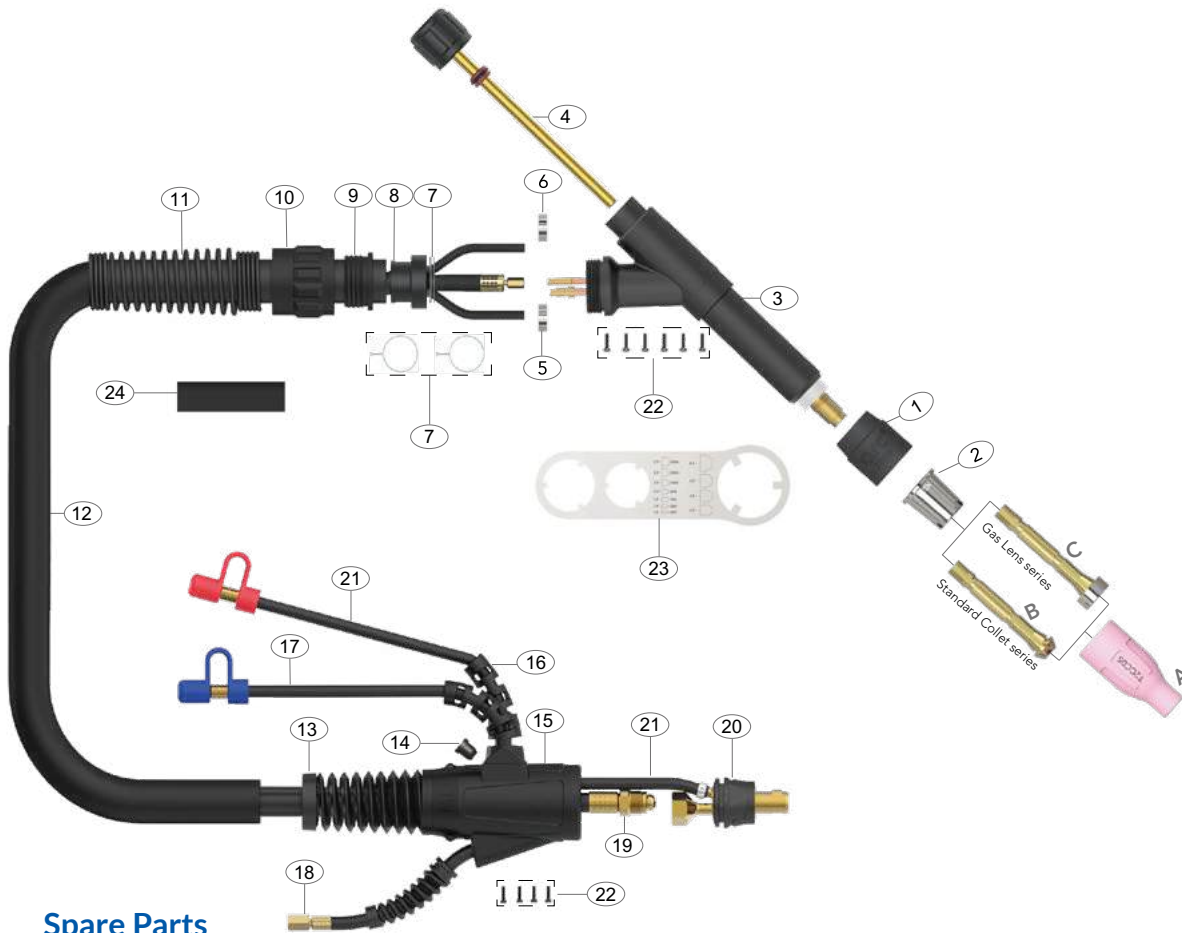
B Collet Body

Part Number	Description	Bore Size
T2CB10	Collet Body	1.0mm - 0.04"
T2CB16	Collet Body	1.6mm - 1/16"
T2CB20	Collet Body	2.0mm - 5/64"
T2CB24	Collet Body	2.4mm - 3/32"
T2CB32	Collet Body	3.2mm - 1/8"
T2CB40	Collet Body	4.0mm - 5/32"

C Gas Lens Collet Body

Part Number	Description	Bore Size
T2GL10	Gas Lens Collet Body	1.0mm - 0.04"
T2GL16	Gas Lens Collet Body	1.6mm - 1/16"
T2GL20	Gas Lens Collet Body	2.0mm - 5/64"
T2GL24	Gas Lens Collet Body	2.4mm - 3/32"
T2GL32	Gas Lens Collet Body	3.2mm - 1/8"
T2GL40	Gas Lens Collet Body	4.0mm - 5/32"

To set-up your Arc Tig Torch please add the relevant starter kit.
 Please refer to Page 62.



Spare Parts

Part Number	Description
1 T2GS	Head Gasket
2 T2SN	Heat Zone Isolator
3 T3WA	T3W Auto Liquid-Cooled Torch Body
4 T3WABC	T3W Auto Torch Back Cap
5 AM15400022	Water Hose Clamp 9.5mm
6 AM15400020	Gas Hose Clamp 8.7mm
7 ATWA9115F	Wire Clamp \varnothing 30mm
8 AT-S-L	Canvas Cover Retainer
9 AMB8110A -L	Auto Handle Insert
10 AMB8030A	Auto Handle Lock Nut
11 AMB8017A	Auto Handle Spring
12 AT200-40	Neoprene Sheath x 12.5ft
AT200-80	Neoprene Sheath x 25ft
13 ATSLH26-S	Cable Support Large
14 ATSLH26-SW	Silicone Rubber Stopper
15 ATSLH26-H	Surelok™ Housing Large
16 ATSLH1820-S	Surelok™ Housing Support
17 ATPAP45V070B-QWF#	Water Feed Hose x 12.5ft O/B Rubber
ATPAP45V080B-QWF#	Water Feed Hose x 25ft O/B Rubber

Part Number	Description
18 ATPAUN45V090B-QGS#	Gas Supply Hose x 12.5ft O/B Rubber
ATPAUN45V100B-QGS#	Gas Supply Hose x 25ft O/B Rubber
19 AT3520-4M-OB	Power Cable x 12.5ft Surelok™ O/B Rubber
AT3520-8M-OB	Power Cable x 25ft Surelok™ O/B Rubber
20 ATSL3550	Surelok™ Body & Support
21 ATNSLOB-1-QWR#	Water Return Hose O/B
22 ATERSP1	Screw Pack
23 AT-SP	Spanner
24 ATHS22MM-130	Heat Shrink Tube

Water feed and gas supply hoses are specified by utilizing the part number and a termination suffix from the water feed and gas supply hose table on Page 44.

Example: ATPAP45V070B-QWF1

Water Feed Hose Rapid Fit x 12.5ft c/w 8.9mm Quick Fit

Example: ATPAUN45V090B-QGS4

Gas Supply Hose Rapid Fit x 12.5ft c/w 8.9mm Quick Fit

High Performance Ceramics Available

Withstands extreme temperatures up to 1950°C without any risk of cracking or burning. Please refer to Page 56

T5WA Auto Liquid-Cooled Tig Welding Torch

Ratings:	12.5ft : 550A DC, 385A AC @100% duty cycle. 1.6 to 6.4mm Electrode 25ft : 450A DC, 315A AC @100% duty cycle. 1.6 to 6.4mm Electrode
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A High Performance Automatic/Cobotic Tig Torch for consistent, high weld quality in the most demanding applications.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas and water fittings, please refer to the Torch Configurators - pages 46-52.



Handle Dimension



12.5ft T5WA-4M-SL-QWF1-QWR1-QGS1	25ft T5WA-8M-SL-QWF1-QWR1-QGS1
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Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T3CC04	Ceramic Cup	#4	6mm - 1/4"
T3CC05	Ceramic Cup	#5	8mm - 5/16"
T3CC06	Ceramic Cup	#6	10mm - 3/8"
T3CC07	Ceramic Cup	#7	11mm - 7/16"
T3CC08	Ceramic Cup	#8	12.5mm - 1/2"
T3CC10	Ceramic Cup	#10	16mm - 5/8"
T3CC12	Ceramic Cup	#12	19mm - 3/4"

B Large Gas Lens Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T5LGLCC08	Large Gas Lens Ceramic Cup	#8	12.5mm - 1/2"
T5LGLCC10	Large Gas Lens Ceramic Cup	#10	16mm - 5/8"
T5LGLCC12	Large Gas Lens Ceramic Cup	#12	19mm - 3/4"
T5LGLCC14	Large Gas Lens Ceramic Cup	#14	24mm - 15/16"

C Collet Body

Part Number	Description	Bore Size
T3CB16	Collet Body	1.6mm - 1/16"
T3CB20	Collet Body	2.0mm - 5/64"
T3CB24	Collet Body	2.4mm - 3/32"
T3CB32	Collet Body	3.2mm - 1/8"
T3CB40	Collet Body	4.0mm - 5/32"
T3CB48	Collet Body	4.8mm - 3/16"
T3CB64	Collet Body	6.4mm - 1/4"

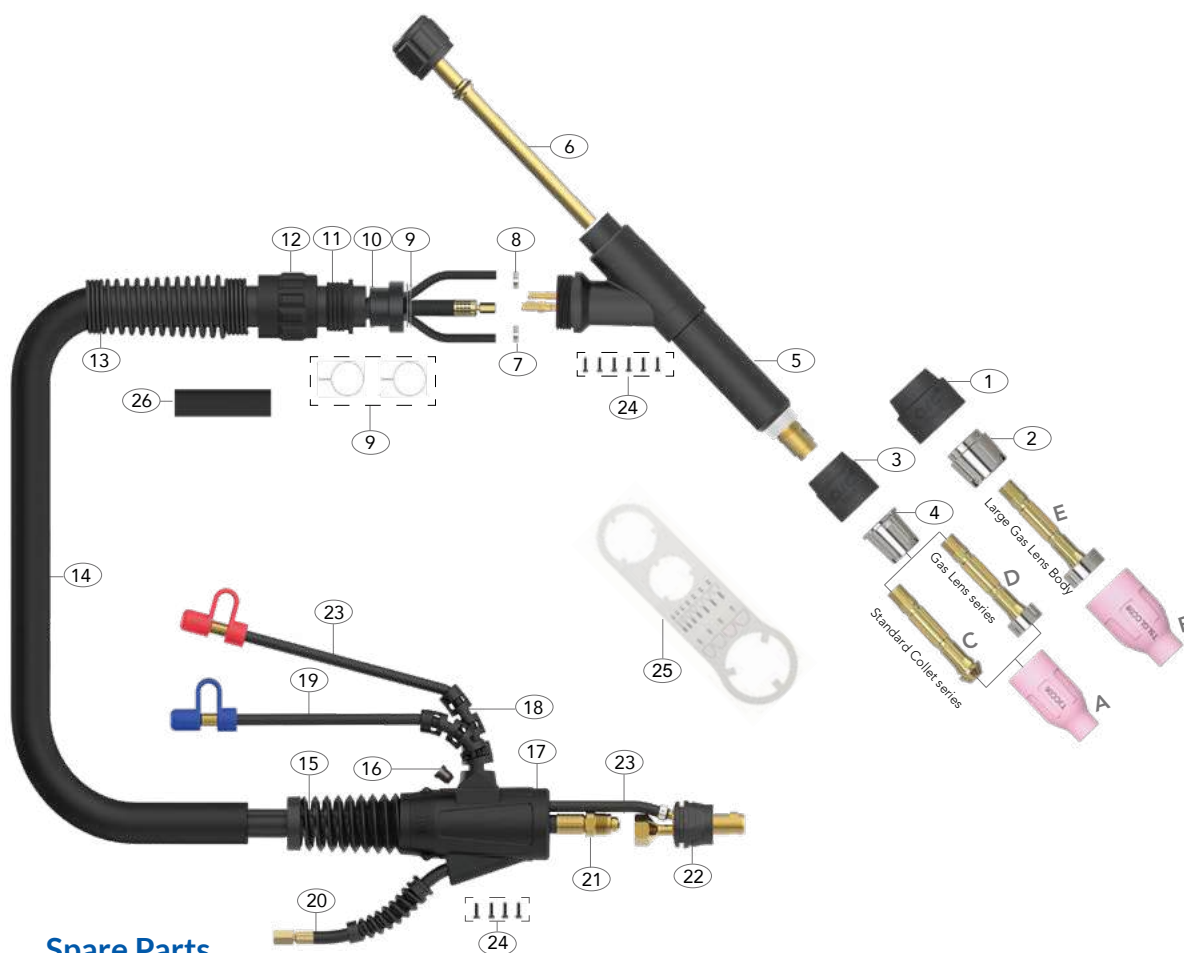
D Gas Lens Collet Body

Part Number	Description	Bore Size
T3GL16	Gas Lens Collet Body	1.6mm - 1/16"
T3GL20	Gas Lens Collet Body	2.0mm - 5/64"
T3GL24	Gas Lens Collet Body	2.4mm - 3/32"
T3GL32	Gas Lens Collet Body	3.2mm - 1/8"
T3GL40	Gas Lens Collet Body	4.0mm - 5/32"
T3GL48	Gas Lens Collet Body	4.8mm - 3/16"
T3GL64	Gas Lens Collet Body	6.4mm - 1/4"

E Large Gas Lens Collet Body

Part Number	Description	Bore Size
T5LGL16	Large Gas Lens Collet Body	1.6mm - 1/16"
T5LGL20	Large Gas Lens Collet Body	2.0mm - 5/64"
T5LGL24	Large Gas Lens Collet Body	2.4mm - 3/32"
T5LGL32	Large Gas Lens Collet Body	3.2mm - 1/8"
T5LGL40	Large Gas Lens Collet Body	4.0mm - 5/32"
T5LGL48	Large Gas Lens Collet Body	4.8mm - 3/16"
T5LGL64	Large Gas Lens Collet Body	6.4mm - 1/4"

To set-up your Arc Tig Torch please add the relevant starter kit. Please refer to Page 62.



Spare Parts

Part Number	Description
1	T3LGS Large Head Gasket
2	T3LSN Large Heat Zone Isolator
3	T3GS Head Gasket
4	T3SN Heat Zone Isolator
5	T5WA T5W Auto Liquid-Cooled Torch Body
6	T5WABC T5W Auto Torch Back Cap
7	AM15400022 Water Hose Clamp 9.5mm
8	AM15400020 Gas Hose Clamp 8.0mm
9	ATWA9115F Wire Clamp ϕ 30mm
10	AT-S-L Canvas Cover Retainer
11	AMB8110A_L Auto Handle Insert
12	AMB8030A Auto Handle Lock Nut
13	AMB8017A Auto Handle Spring
14	AT200-40 Neoprene Sheath x 12.5ft AT200-80 Neoprene Sheath x 25ft
15	ATSLH26-S Cable Support Large
16	ATSLH26-SW Silicone Rubber Stopper
17	ATSLH26-H Surelok™ Housing Large
18	ATSLH1820-S Surelok™ Housing Support
19	ATPAP45V070B-QWF# Water Feed Hose x 12.5ft O/B Rubber ATPAP45V080B-QWF# Water Feed Hose x 25ft O/B Rubber

Part Number	Description
20	ATPAUN45V090B-QGS# Gas Supply Hose x 12.5ft O/B Rubber ATPAUN45V100B-QGS# Gas Supply Hose x 25ft O/B Rubber
21	AT5520-4M-OB Cable x 12.5ft Surelok™ O/B Rubber Power AT5520-8M-OB Cable x 25ft Surelok™ O/B Rubber Power
22	ATSL3550 Surelok™ Body & Support
23	ATNSLOB-1-QWR# Water Return Hose O/B
24	ATERSP1 Screw Pack
25	AT-SP Spanner
26	ATHS22MM-130 Heat Shrink Tube

Water feed and gas supply hoses are specified by utilizing the part number and a termination suffix from the water feed and gas supply hose table on Page 44.

Example: ATPAP45V070B-QWF1

Water Feed Hose Rapid Fit x 12.5ft c/w 8.9mm Quick Fit

Example: ATPAUN45V090B-QGS4

Gas Supply Hose Rapid Fit x 12.5ft c/w 8.9mm Quick Fit

High Performance Ceramics Available

Withstands extreme temperatures up to 1950°C without any risk of cracking or burning.
Please refer to Page 56

CWT1A Auto Cold-Wire Air-Cooled Tig Welding Torch

Ratings: 140A DC, 100A AC @60% duty cycle. 1.0 to 3.2mm Electrode

A small front-end auto/cobotic tig torch featuring cold-wire feed, allowing precise wire delivery coordinated with automated torch movements for improved welding quality and efficiency.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas fittings, please refer to the Torch Configurators - pages 46-52.



12.5ft
CWT1A-4M-SL-QGS1



Handle Dimension



Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T1CC04	Ceramic Cup	#4	6mm - 1/4"
T1CC05	Ceramic Cup	#5	8mm - 5/16"
T1CC06	Ceramic Cup	#6	10mm - 3/8"
T1CC07	Ceramic Cup	#7	11mm - 7/16"
T1CC08	Ceramic Cup	#8	12.5mm - 1/2"
T1CC10	Ceramic Cup	#10	15mm - 5/8"

B Short Ceramic Cup

Part Number	Description	Nozzle	Bore Size
T1CC05S	Short Ceramic Cup	#5	8mm - 5/16"
T1CC07S	Short Ceramic Cup	#7	11mm - 7/16"
T1CC10S	Short Ceramic Cup	#10	15mm - 5/8"

C Collet Body

Part Number	Description	Bore Size
T1ACB10	Collet Body	1.0mm - 0.04"
T1ACB16	Collet Body	1.6mm - 1/16"
T1ACB20	Collet Body	2.0mm - 5/64"
T1ACB24	Collet Body	2.4mm - 3/32"
T1ACB32	Collet Body	3.2mm - 1/8"

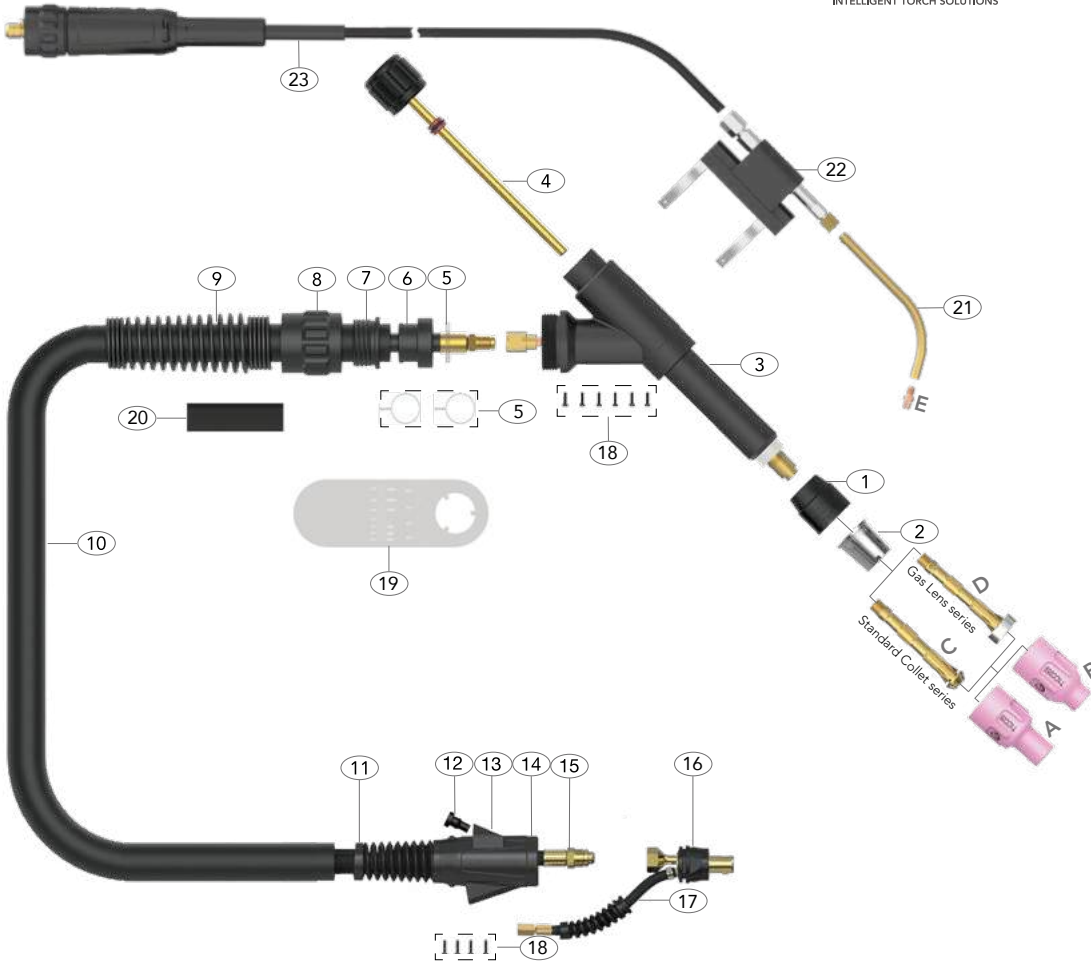
D Gas Lens Collet Body

Part Number	Description	Bore Size
T1AGL10	Gas Lens Collet Body	1.0mm - 0.04"
T1AGL16	Gas Lens Collet Body	1.6mm - 1/16"
T1AGL20	Gas Lens Collet Body	2.0mm - 5/64"
T1AGL24	Gas Lens Collet Body	2.4mm - 3/32"
T1AGL32	Gas Lens Collet Body	3.2mm - 1/8"

E Contact Tip

Part Number	Description	Bore Size
ATB2505S_08	Contact Tip	0.8mm - 0.030"
•ATB2505S_10	Contact Tip	1.0mm - 0.040"
ATB2505S_12	Contact Tip	1.2mm - 0.045"
ATB2505S_16	Contact Tip	1.6mm - 1/16"
ATB2505S_10A	Contact Tip	1.0mm - 0.040"
ATB2505S_12A	Contact Tip	1.2mm - 0.045"
ATB2505S_16A	Contact Tip	1.6mm - 1/16"

To set-up your Arc Tig Torch please add the relevant starter kit. Please refer to Page 62.



Spare Parts

Part Number	Description
1	T1GS Head Gasket
2	T1SN Heat Zone Isolator
3	T1A T1A Auto Air-Cooled Torch Body
4	T1WABC T1W Auto Torch Back Cap
5	ATWA9115F Wire Clamp \varnothing 30mm
6	AT-S-L Canvas Cover Retainer
7	AMB8110A-L Auto Handle Insert
8	AMB8030A Auto Handle Lock Nut
9	AMB8017A Auto Handle Spring
10	AT150-40 Neoprene Sheath x 12.5ft
11	ATSLH26-S Cable Support Large
12	ATSLH26-SA Silicone Rubber Stopper
13	ATSLH26-C Surelok™ Housing Cover
14	ATSLH26-H Surelok™ Housing Large
15	AT1820-4M-OB Power Cable x 12.5ft Surelok™ O/B Rubber
16	ATSL3550 Surelok™ Body & Support
17	ATNSLOB-1-QGS# Gas Supply Hose O/B

Part Number	Description
18	ATERSP1 Screw Pack
19	AT-SP-S Spanner Small
20	ATHS18MM-90 Heat Shrink Tube
21	CWTA_1 Arc-T Auto Torch Cold-Wire Neck
22	CWTA Arc-T Auto Torch Cold-Wire Body Assembly
23	ATEU_CW_40 Liner Out Tube Assembly With Euro Wire Feed Termination

Gas supply hoses are specified by utilizing the part number and a termination suffix from the gas supply hose table on Page 44.

For Liner Options Please Refer to Page 59.

CWT3A Auto Cold-Wire Air-Cooled Tig Welding Torch

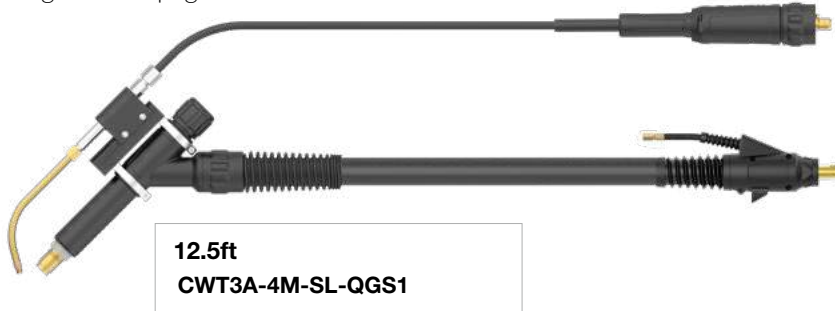
Ratings:	240A DC, 170A AC @60% duty cycle. 1.0 to 4.8mm Electrode
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An Air-Cooled Automatic Tig torch suitable for DC and AC processes in Automation and Cobotic applications. The addition of the cold-wire feed allows precise wire delivery coordinated with automated torch movements.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas fittings, please refer to the Torch Configurators - pages 46-52.



Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T3CC04	Ceramic Cup	#4	6mm - 1/4"
T3CC05	Ceramic Cup	#5	8mm - 5/16"
T3CC06	Ceramic Cup	#6	10mm - 3/8"
T3CC07	Ceramic Cup	#7	11mm - 7/16"
T3CC08	Ceramic Cup	#8	12.5mm - 1/2"
T3CC10	Ceramic Cup	#10	16mm - 5/8"

C Collet Body

Part Number	Description	Bore Size
T3CB10	Collet Body	1.0mm - 0.04"
T3CB16	Collet Body	1.6mm - 1/16"
T3CB20	Collet Body	2.0mm - 5/64"
T3CB24	Collet Body	2.4mm - 3/32"
T3CB32	Collet Body	3.2mm - 1/8"
T3CB40	Collet Body	4.0mm - 5/32"
T3CB48	Collet Body	4.8mm - 3/16"

D Gas Lens Collet Body

Part Number	Description	Bore Size
T3GL10	Gas Lens Collet Body	1.0mm - 0.04"
T3GL16	Gas Lens Collet Body	1.6mm - 1/16"
T3GL20	Gas Lens Collet Body	2.0mm - 5/64"
T3GL24	Gas Lens Collet Body	2.4mm - 3/32"
T3GL32	Gas Lens Collet Body	3.2mm - 1/8"
T3GL40	Gas Lens Collet Body	4.0mm - 5/32"
T3GL48	Gas Lens Collet Body	4.8mm - 3/16"

B Large Gas Lens Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T5LGLCC08	Large Gas Lens Ceramic Cup	#8	12.5mm - 1/2"
T5LGLCC10	Large Gas Lens Ceramic Cup	#10	16mm - 5/8"
T5LGLCC12	Large Gas Lens Ceramic Cup	#12	19mm - 3/4"

E Large Gas Lens Collet Body

Part Number	Description	Bore Size
T5LGL10	Large Gas Lens Collet Body	1.0mm - 0.04"
T5LGL16	Large Gas Lens Collet Body	1.6mm - 1/16"
T5LGL20	Large Gas Lens Collet Body	2.0mm - 5/64"
T5LGL24	Large Gas Lens Collet Body	2.4mm - 3/32"
T5LGL32	Large Gas Lens Collet Body	3.2mm - 1/8"
T5LGL40	Large Gas Lens Collet Body	4.0mm - 5/32"
T5LGL48	Large Gas Lens Collet Body	4.8mm - 3/16"

F Contact Tip

Part Number	Description	Bore Size
ATB2505S_08	Contact Tip	0.8mm - 0.030"
•ATB2505S_10	Contact Tip	1.0mm - 0.040"
ATB2505S_12	Contact Tip	1.2mm - 0.045"
ATB2505S_16	Contact Tip	1.6mm - 1/16"
ATB2505S_10A	Contact Tip	1.0mm - 0.040"
ATB2505S_12A	Contact Tip	1.2mm - 0.045"
ATB2505S_16A	Contact Tip	1.6mm - 1/16"

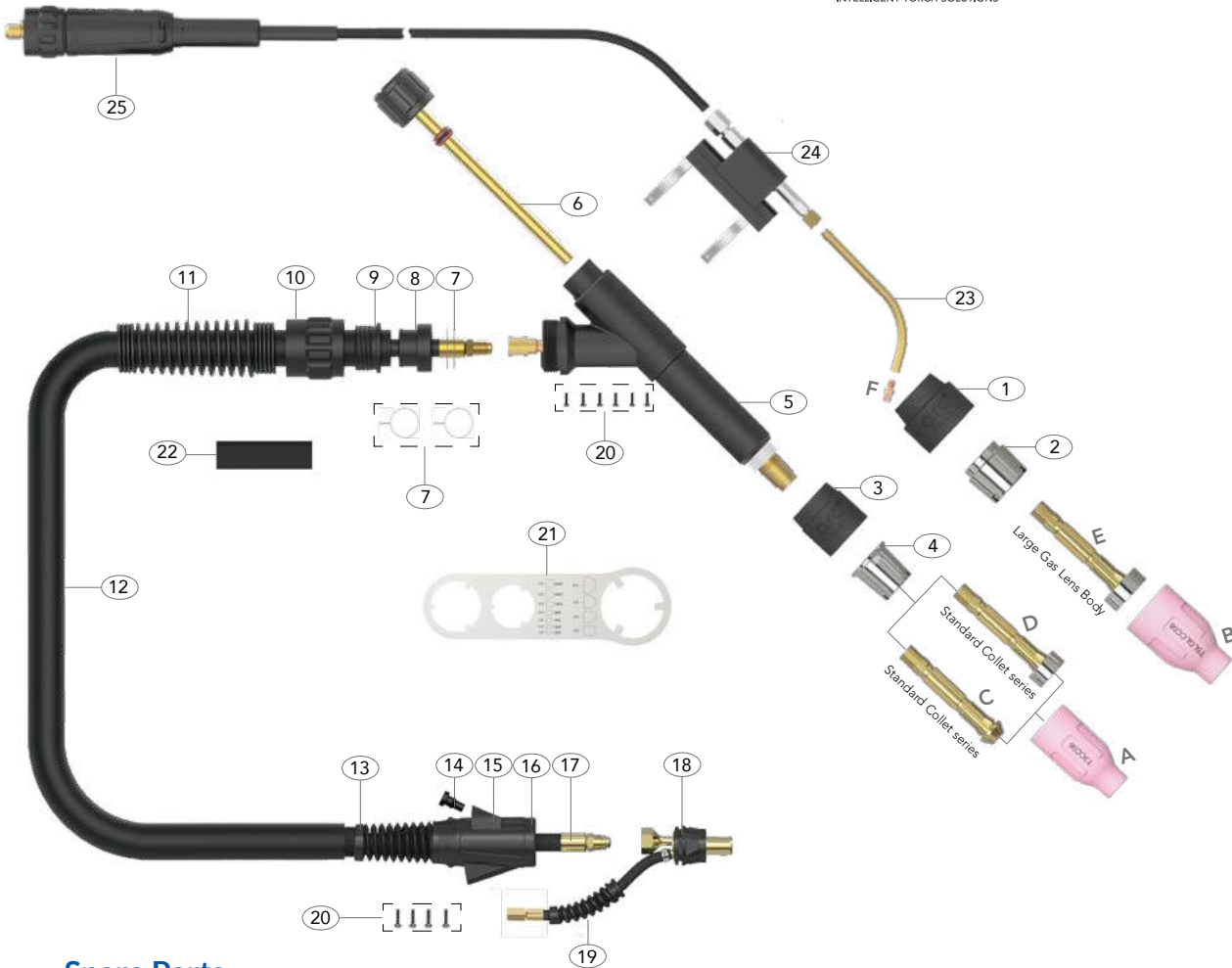
To set-up your Arc Tig Torch please add the relevant starter kit.

Please refer to Page 62.

HIGH PERFORMANCE SERIES



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Spare Parts

Part Number	Description
1	T3LGS Large Head Gasket
2	T3LSN Large Heat Zone Isolator
3	T3GS Head Gasket
4	T3SN Heat Zone Isolator
5	T3A T3 Auto Air-Cooled Torch Body
6	T5WABC T5W Auto Torch Back Cap
7	ATWA9115F Wire Clamp \varnothing 30mm
8	AT-S-L Canvas Cover Retainer
9	AMB8110A -L Auto Handle Insert
10	AMB8030A Auto Handle Lock Nut
11	AMB8017A Auto Handle Spring
*12	AT150-40 Neoprene Sheath x 12.5ft
13	ATSLH26-S Cable Support Large
14	ATSLH26-SA Silicone Rubber Stopper
15	ATSLH26-C Surelok™ Housing Cover
16	ATSLH26-H Surelok™ Housing Large
17	AT2620-4M-OB Power Cable x 12.5ft Surelok™ O/B Rubber
18	ATSL3550 Surelok™ Body & Support

Part Number	Description
19	ATNSLOB-1-QGS# Gas Supply Hose O/B
20	ATERSP1 Screw Pack
21	AT-SP Spanner
22	ATHS18MM-90 Heat Shrink Tube
23	CWTA_1 Arc-T Auto Torch Cold-Wire Neck
24	CWTA Arc-T Auto Torch Cold-Wire Body Assembly
25	ATEU_CW_40 Liner Out Tube Assembly With Euro Wire Feed Termination

Gas supply hoses are specified by utilizing the part number and a termination suffix from the gas supply hose table on Page 44.

For Liner Options Please Refer to Page 59.

CWT1WA Auto Cold-Wire Liquid-Cooled Tig Welding Torch

Ratings: 330A DC, 230A AC @ 100% duty cycle, 1.0 to 4.0mm Electrode

A small front-end auto/cobotic tig torch featuring cold-wire feed, allowing precise wire delivery coordinated with automated torch movements for improved welding quality and efficiency.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinsestyle termination as standard.

For alternate terminations, gas and water fittings, please refer to the Torch Configurators - pages 46-52.



Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T1CC04	Ceramic Cup	#4	6mm - 1/4"
T1CC05	Ceramic Cup	#5	8mm - 5/16"
T1CC06	Ceramic Cup	#6	10mm - 3/8"
T1CC07	Ceramic Cup	#7	11mm - 7/16"
T1CC08	Ceramic Cup	#8	12.5mm - 1/2"
T1CC10	Ceramic Cup	#10	16mm - 5/8"

B Short Ceramic Cup

Part Number	Description	Nozzle	Bore Size
T1CC05S	Short Ceramic Cup	#5	8mm - 5/16"
T1CC07S	Short Ceramic Cup	#7	11mm - 7/16"
T1CC10S	Short Ceramic Cup	#10	15mm - 5/8"

C Collet Body

Part Number	Description	Bore Size
T1ACB10	Collet Body	1.0mm - 0.04"
T1ACB16	Collet Body	1.6mm - 1/16"
T1ACB20	Collet Body	2.0mm - 5/64"
T1ACB24	Collet Body	2.4mm - 3/32"
T1ACB32	Collet Body	3.2mm - 1/8"
T1ACB40	Collet Body	4.0mm - 5/32"

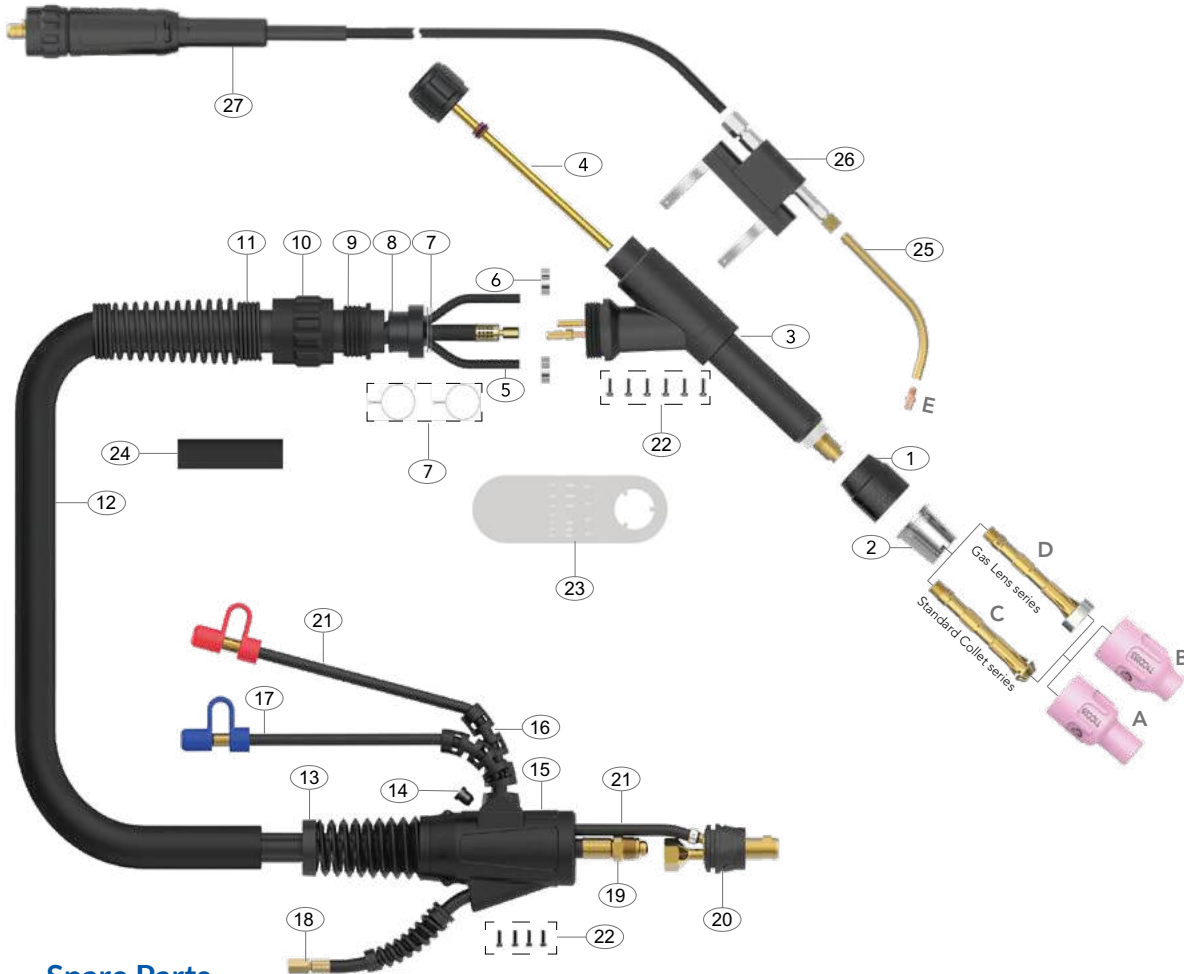
D Gas Lens Collet Body

Part Number	Description	Bore Size
T1AGL10	Gas Lens Collet Body	1.0mm - 0.04"
T1AGL16	Gas Lens Collet Body	1.6mm - 1/16"
T1AGL20	Gas Lens Collet Body	2.0mm - 5/64"
T1AGL24	Gas Lens Collet Body	2.4mm - 3/32"
T1AGL32	Gas Lens Collet Body	3.2mm - 1/8"
T1AGL40	Gas Lens Collet Body	4.0mm - 5/32"

E Contact Tip

Part Number	Description	Bore Size
ATB2505S_08	Contact Tip	0.8mm - 0.030"
•ATB2505S_10	Contact Tip	1.0mm - 0.040"
ATB2505S_12	Contact Tip	1.2mm - 0.045"
ATB2505S_16	Contact Tip	1.6mm - 1/16"
ATB2505S_10A	Contact Tip	1.0mm - 0.040"
ATB2505S_12A	Contact Tip	1.2mm - 0.045"
ATB2505S_16A	Contact Tip	1.6mm - 1/16"

To set-up your Arc Tig Torch please add the relevant starter kit. Please refer to Page 62.



Spare Parts

Part Number	Description
1	T1GS Head Gasket
2	T1SN Heat Zone Isolator
3	T1WA T1W Auto Liquid-Cooled Torch Body
4	T1WABC T1W Auto Torch Back Cap
5	AM15400022 Water Hose Clamp 9.5mm
6	AM15400020 Gas Hose Clamp 8.7mm
7	ATW9115F Wire Clamp ø30mm
8	AT-S-L Canvas Cover Retainer
9	AMB8110A-L Auto Handle Insert
10	AMB8030A Auto Handle Lock Nut
11	AMB8017A Auto Handle Spring
12	AT200-40 Neoprene Sheath x 12.5ft
13	ATSLH26-S Cable Support Large
14	ATSLH26-SW Silicone Rubber Stopper
15	ATSLH26-H Surelok™ Housing Large
16	ATSLH1820-S Surelok™ Housing Support
17	ATPAP45V07OB-QWF# Water Feed Hose x 12.5ft O/B Rubber
18	ATPAUN45V09OB-QGS# Gas Supply Hose x 12.5ft O/B Rubber
19	AT3320-4M-OB Power Cable x 12.5ft Surelok™ O/B Rubber

Part Number	Description
20	ATSL3550 Surelok™ Body & Support
21	ATNSLOB-1-QWR# Water Return Hose O/B
22	ATERSP1 Screw Pack
23	AT-SP-S Spanner Small
24	ATHS22MM-130 Heat Shrink Tube
25	CWTA_1 Arc-T Auto Torch Cold-Wire Neck
26	CWTA Arc-T Auto Torch Cold-Wire Body Assembly
27	ATEU_CW_40 Liner Out Tube Assembly With Euro Wire Feed Termination

Water feed and gas supply hoses are specified by utilizing the part number and a termination suffix from the water feed and gas supply hose table on Page 44.

For Liner Options Please Refer to Page 59.

CWT3WA Auto Cold-Wire Liquid-Cooled Tig Welding Torch

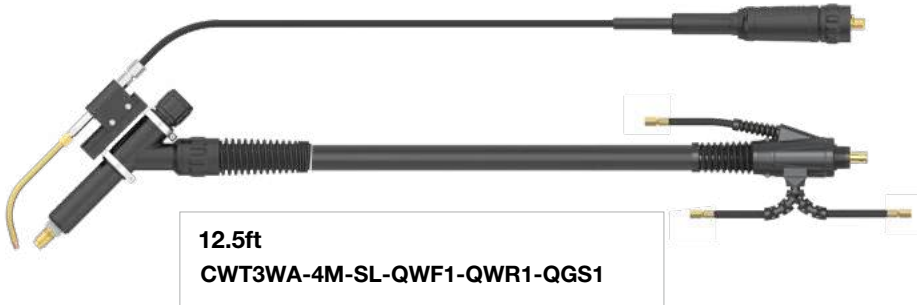
Ratings: T3WA: 400A DC, 280A AC @ 100% duty cycle, 1.0 to 4.0mm Electrode

A Liquid-Cooled Automatic Tig torch suitable for DC and AC processes in Automation and Cobotic applications. The addition of the cold-wire feed allows precise wire delivery coordinated with automated torch movements

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas and water fittings, please refer to the Torch Configurators - pages 46-52.



Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T2CC04	Ceramic Cup	#4	6mm - 1/4"
T2CC05	Ceramic Cup	#5	8mm - 5/16"
T2CC06	Ceramic Cup	#6	10mm - 3/8"
T2CC07	Ceramic Cup	#7	11mm - 7/16"
T2CC08	Ceramic Cup	#8	12.5mm - 1/2"
T2CC10	Ceramic Cup	#10	16mm - 5/8"

B Collet Body

Part Number	Description	Bore Size
T2CB10	Collet Body	1.0mm - 0.04"
T2CB16	Collet Body	1.6mm - 1/16"
T2CB20	Collet Body	2.0mm - 5/64"
T2CB24	Collet Body	2.4mm - 3/32"
T2CB32	Collet Body	3.2mm - 1/8"
T2CB40	Collet Body	4.0mm - 5/32"

C Gas Lens Collet Body

Part Number	Description	Bore Size
T2GL10	Gas Lens Collet Body	1.0mm - 0.04"
T2GL16	Gas Lens Collet Body	1.6mm - 1/16"
T2GL20	Gas Lens Collet Body	2.0mm - 5/64"
T2GL24	Gas Lens Collet Body	2.4mm - 3/32"
T2GL32	Gas Lens Collet Body	3.2mm - 1/8"
T2GL40	Gas Lens Collet Body	4.0mm - 5/32"

D Contact Tip

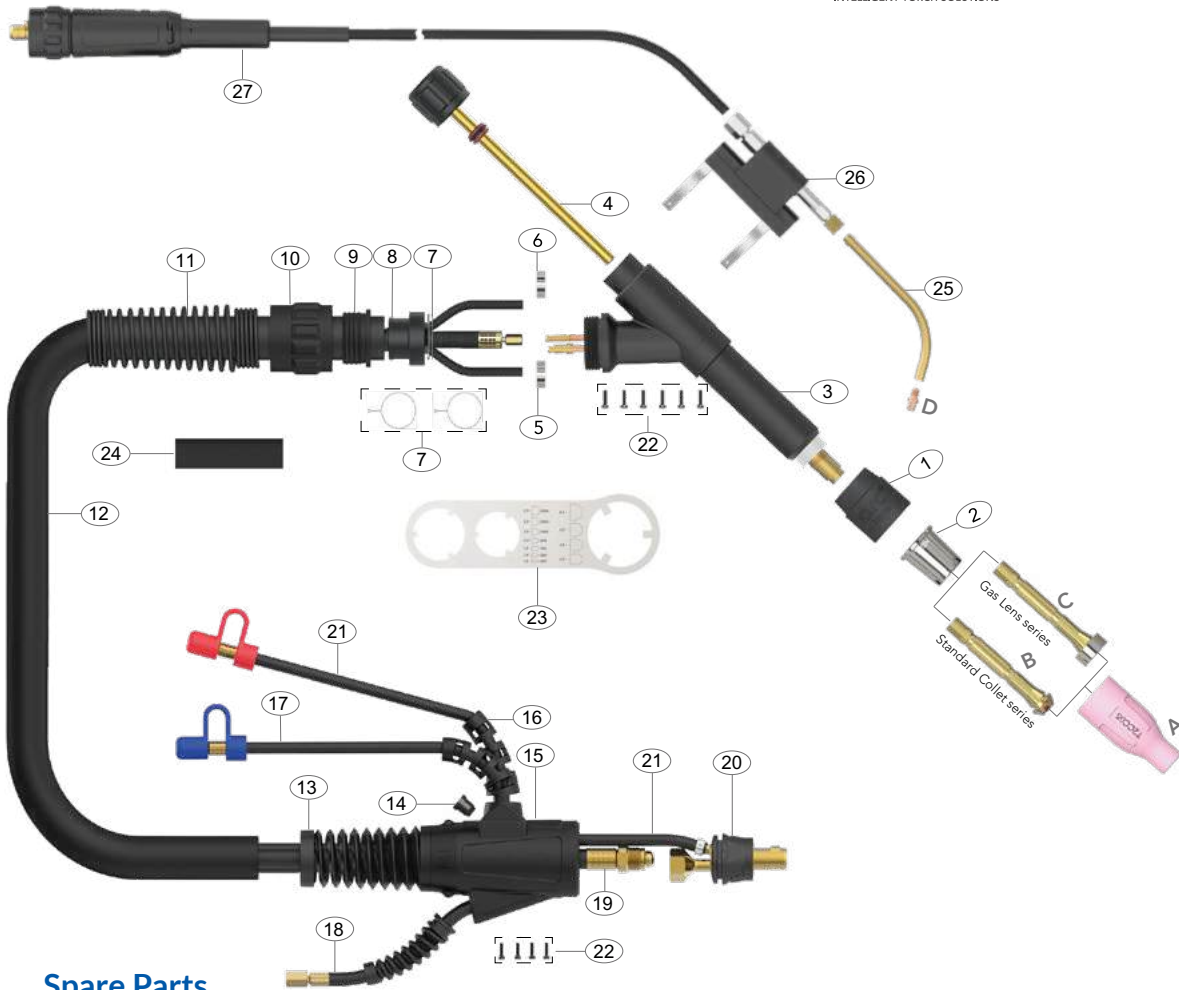
Part Number	Description	Bore Size
ATB2505S_08	Contact Tip	0.8mm - 0.030"
•ATB2505S_10	Contact Tip	1.0mm - 0.040"
ATB2505S_12	Contact Tip	1.2mm - 0.045"
ATB2505S_16	Contact Tip	1.6mm - 1/16"
ATB2505S_10A	Contact Tip	1.0mm - 0.040"
ATB2505S_12A	Contact Tip	1.2mm - 0.045"
ATB2505S_16A	Contact Tip	1.6mm - 1/16"

To set-up your Arc Tig Torch please add the relevant starter kit. Please refer to Page 62.

HIGH PERFORMANCE SERIES



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Spare Parts

Part Number	Description
1	T2GS Head Gasket
2	T2SN Heat Zone Isolator
3	T3WA T3W Auto Liquid-Cooled Torch Body
4	T3WABC T3W Auto Torch Back Cap
5	AM15400022 Water Hose Clamp 9.5mm
6	AM15400020 Gas Hose Clamp 8.7mm
7	ATWA9115F Wire Clamp ø30mm
8	AT-S-L Canvas Cover Retainer
9	AMB8110A -L Auto Handle Insert
10	AMB8030A Auto Handle Lock Nut
11	AMB8017A Auto Handle Spring
12	AT200-40 Neoprene Sheath x 12.5ft
13	ATSLH26-S Cable Support Large
14	ATSLH26-SW Silicone Rubber Stopper
15	ATSLH26-H Surelok™ Housing Large
16	ATSLH1820-S Surelok™ Housing Support
17	ATPAP45V070B-QWF# Water Feed Hose x 12.5ft O/B Rubber
18	ATPAUN45V090B-QGS# Gas Supply Hose x 12.5ft O/B Rubber

Part Number	Description
19	AT3520-4M-OB Power Cable x 12.5ft Surelok™ O/B Rubber
20	ATSL3550 Surelok™ Body & Support
21	ATNSLOB-1-QWR# Water Return Hose O/B
22	ATERSP1 Screw Pack
23	AT-SP Spanner
24	ATHS22MM-130 Heat Shrink Tube
25	CWTA_1 Arc-T Auto Torch Cold-Wire Neck
26	CWTA Arc-T Auto Torch Cold-Wire Body Assembly
27	ATEU_CW_40 Liner Out Tube Assembly With Euro Wire Feed Termination

Water feed and gas supply hoses are specified by utilizing the part number and a termination suffix from the water feed and gas supply hose table on Page 44.

For Liner Options Please Refer to Page 59.

CWT5WA Auto Cold-Wire Liquid-Cooled Tig Welding Torch

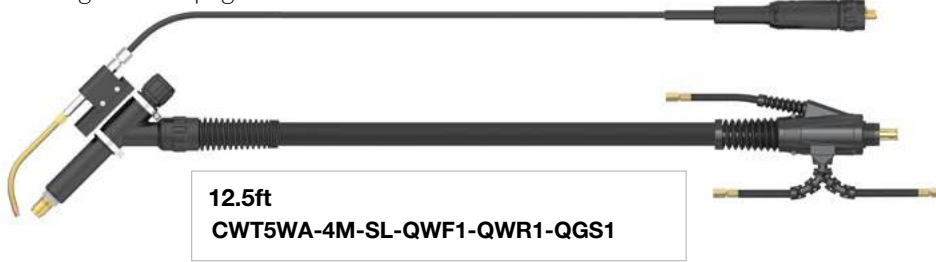
Ratings: 12.5ft : 550A DC, 385A AC @100% duty cycle. 1.6 to 6.4mm Electrode

A High Performance Automatic/Cobotic Tig Torch for consistent, high weld quality in the most demanding applications. The addition of the cold-wire feed allows precise wire delivery coordinated with automated torch movements.

ARC T HIGH PERFORMANCE TIG TORCH PACKAGES

Arc Tig Torches are supplied Surelok™ 35-50mm Dinse style termination as standard.

For alternate terminations, gas and water fittings, please refer to the Torch Configurators - pages 46-52.



12.5ft
CWT5WA-4M-SL-QWF1-QWR1-QGS1



Wear Parts

A Standard Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T3CC04	Ceramic Cup	#4	6mm - 1/4"
T3CC05	Ceramic Cup	#5	8mm - 5/16"
T3CC06	Ceramic Cup	#6	10mm - 3/8"
T3CC07	Ceramic Cup	#7	11mm - 7/16"
T3CC08	Ceramic Cup	#8	12.5mm - 1/2"
T3CC10	Ceramic Cup	#10	16mm - 5/8"
T3CC12	Ceramic Cup	#12	19mm - 3/4"

B Large Gas Lens Ceramic Cups

Part Number	Description	Nozzle	Bore Size
T5LGLCC08	Large Gas Lens Ceramic Cup	#8	12.5mm - 1/2"
T5LGLCC10	Large Gas Lens Ceramic Cup	#10	16mm - 5/8"
T5LGLCC12	Large Gas Lens Ceramic Cup	#12	19mm - 3/4"
T5LGLCC14	Large Gas Lens Ceramic Cup	#14	24mm - 15/16"

C Collet Body

Part Number	Description	Bore Size
T3CB16	Collet Body	1.6mm - 1/16"
T3CB20	Collet Body	2.0mm - 5/64"
T3CB24	Collet Body	2.4mm - 3/32"
T3CB32	Collet Body	3.2mm - 1/8"
T3CB40	Collet Body	4.0mm - 5/32"
T3CB48	Collet Body	4.8mm - 3/16"
T3CB64	Collet Body	6.4mm - 1/4"

D Gas Lens Collet Body

Part Number	Description	Bore Size
T3GL16	Gas Lens Collet Body	1.6mm - 1/16"
T3GL20	Gas Lens Collet Body	2.0mm - 5/64"
T3GL24	Gas Lens Collet Body	2.4mm - 3/32"
T3GL32	Gas Lens Collet Body	3.2mm - 1/8"
T3GL40	Gas Lens Collet Body	4.0mm - 5/32"
T3GL48	Gas Lens Collet Body	4.8mm - 3/16"
T3GL64	Gas Lens Collet Body	6.4mm - 1/4"

E Large Gas Lens Collet Body

Part Number	Description	Bore Size
T5LGL16	Large Gas Lens Collet Body	1.6mm - 1/16"
T5LGL20	Large Gas Lens Collet Body	2.0mm - 5/64"
T5LGL24	Large Gas Lens Collet Body	2.4mm - 3/32"
T5LGL32	Large Gas Lens Collet Body	3.2mm - 1/8"
T5LGL40	Large Gas Lens Collet Body	4.0mm - 5/32"
T5LGL48	Large Gas Lens Collet Body	4.8mm - 3/16"
T5LGL64	Large Gas Lens Collet Body	6.4mm - 1/4"

F Contact Tip

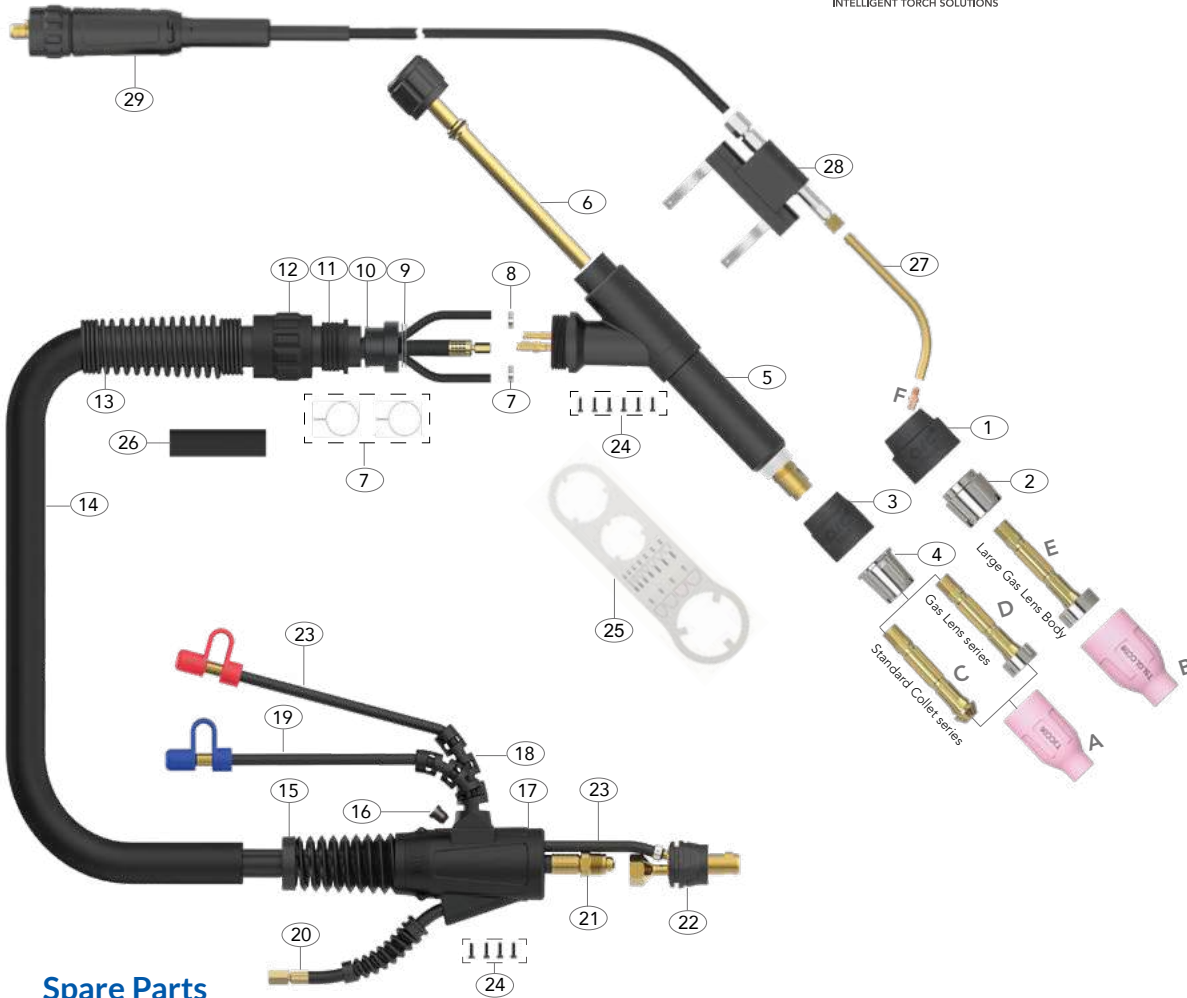
Part Number	Description	Bore Size
ATB2505S_08	Contact Tip	0.8mm - 0.030"
•ATB2505S_10	Contact Tip	1.0mm - 0.040"
ATB2505S_12	Contact Tip	1.2mm - 0.045"
ATB2505S_16	Contact Tip	1.6mm - 1/16"
ATB2505S_10A	Contact Tip	1.0mm - 0.040"
ATB2505S_12A	Contact Tip	1.2mm - 0.045"
ATB2505S_16A	Contact Tip	1.6mm - 1/16"

To set-up your Arc Tig Torch please add the relevant starter kit. Please refer to Page 62.

HIGH PERFORMANCE SERIES



MAKE WORK
LIFE EASIER



Spare Parts

Part Number	Description
1	T3LGS Large Head Gasket
2	T3LSN Large Heat Zone Isolator
3	T3GS Head Gasket
4	T3SN Heat Zone Isolator
5	T5WA T5W Auto Liquid-Cooled Torch Body
6	T5WABC T5W Auto Torch Back Cap
7	AM15400022 Water Hose Clamp 9.5mm
8	AM15400020 Gas Hose Clamp 8.0mm
9	ATWA9115F Wire Clamp 30mm
10	AT-S-L Canvas Cover Retainer
11	AMB8110A_L Auto Handle Insert
12	AMB8030A Auto Handle Lock Nut
13	AMB8017A Auto Handle Spring
14	AT200-40 Neoprene Sheath x 12.5ft
15	ATSLH26-S Cable Support Large
16	ATSLH26-SW Silicone Rubber Stopper
17	ATSLH26-H Surelok™ Housing Large
18	ATSLH1820-S Surelok™ Housing Support
19	ATPAP45V070B-QWF# Water Feed Hose x 12.5ft O/B Rubber
20	ATPAUN45V090B-QGS# Gas Supply Hose x 12.5ft O/B Rubber

Part Number	Description
21	AT5520-4M-OB Cable x 12.5ft Surelok™ O/B Rubber Power
22	ATSL3550 Surelok™ Body & Support
23	ATNSLOB-1-QWR# Water Return Hose O/B
24	ATERSP1 Screw Pack
25	AT-SP Spanner
26	ATHS22MM-130 Heat Shrink Tube
27	CWTA_1 Arc-T Auto Torch Cold-Wire Neck
28	CWTA Arc-T Auto Torch Cold-Wire Body Assembly
29	ATEU_CW_40 Liner Out Tube Assembly With Euro Wire Feed Termination

Water feed and gas supply hoses are specified by utilizing the part number and a termination suffix from the water feed and gas supply hose table on Page 44.

For Liner Options Please Refer to Page 59.

ARC T RAPID FIT CONNECTION SYSTEM

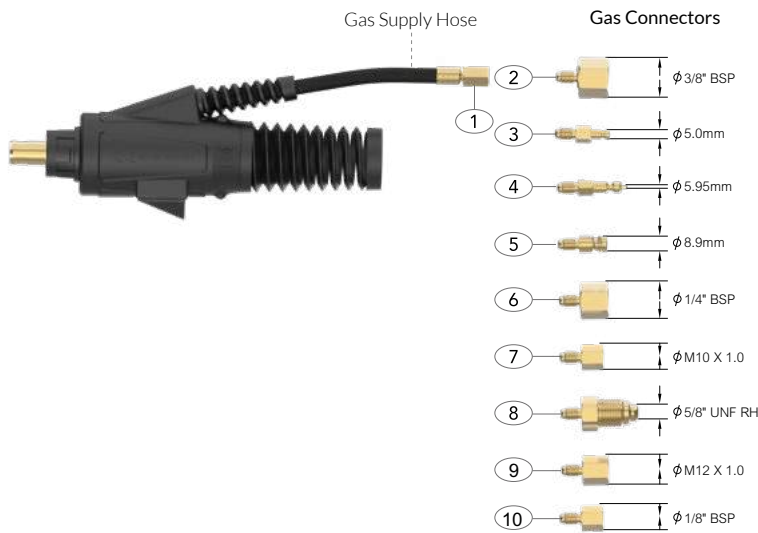


MAKE WORK
LIFE EASIER

A new flexible system of quickly changing Gas and Liquid supply hoses at Point of Sale.

- Removes the necessity to cut and re-crimp terminations
- All terminations interchange on a common hose connector
- All terminations can be removed and recoupled with a standard spanner and Allen key

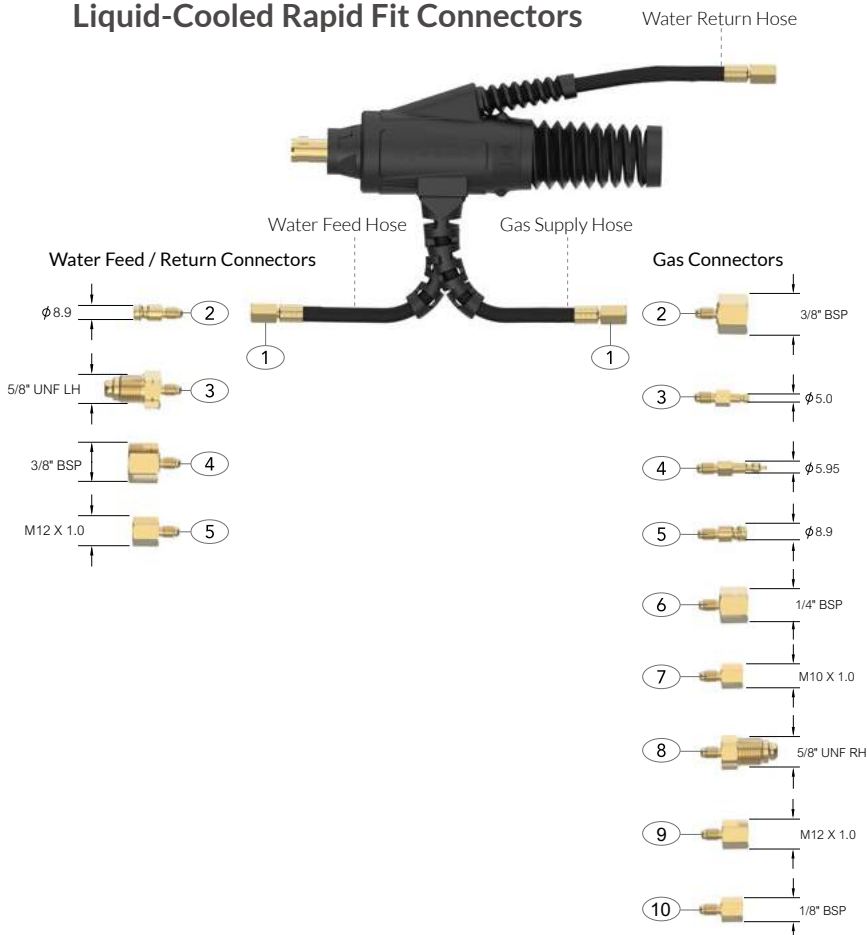
Air-Cooled Rapid Fit Connectors



Gas Supply Hose - Rapid Fit

Part No.	Description
1	QGS0 Open
2	QGS1 Gas Supply Hose c/w 3/8" BSP
3	QGS2 Gas Supply Hose c/w 5.0mm Quick Fit
4	QGS3 Gas Supply Hose c/w 5.95mm Quick Fit
5	QGS4 Gas Supply Hose c/w 8.9mm Quick Fit
6	QGS5 Gas Supply Hose c/w 1/4" BSP
7	QGS6 Gas Supply Hose c/w M10 x 1.0
8	QGS7 Gas Supply Hose c/w 5/8" UNF RH
9	QGS8 Gas Supply Hose c/w M12 x 1.0
10	QGS9 Gas Supply Hose c/w 1/8" BSP

Liquid-Cooled Rapid Fit Connectors



Water Feed Hose - Rapid Fit

Part No.	Description
1	QWF0 Open
2	QWF1 Water Feed Hose c/w 8.9mm Quick Fit
3	QWF2 Water Feed Hose c/w 5/8" UNF LH
4	QWF3 Water Feed Hose c/w 3/8" BSP
5	QWF4 Water Feed Hose c/w M12 x 1.0

Water Return Hose - Rapid Fit

Part No.	Description
1	QWR0 Open
2	QWR1 Water Return Hose c/w 8.9mm Quick Fit
3	QWR2 Water Return Hose c/w 5/8" UNF LH
4	QWR3 Water Return Hose c/w 3/8" BSP
5	QWR4 Water Return Hose c/w M12 x 1.0

Gas Supply Hose - Rapid Fit

Part No.	Description
1	QGS0 Open
2	QGS1 Gas Supply Hose c/w 3/8" BSP
3	QGS2 Gas Supply Hose c/w 5.0mm Quick Fit
4	QGS3 Gas Supply Hose c/w 5.95mm Quick Fit
5	QGS4 Gas Supply Hose c/w 8.9mm Quick Fit
6	QGS5 Gas Supply Hose c/w 1/4" BSP
7	QGS6 Gas Supply Hose c/w M10 x 1.0
8	QGS7 Gas Supply Hose c/w 5/8" UNF RH
9	QGS8 Gas Supply Hose c/w M12 x 1.0
10	QGS9 Gas Supply Hose c/w 1/8" BSP

Gas Supply Hose - Rapid Fit

Part No.	Description	Surelok Air-Cooled	Surelok Liquid-Cooled	Surelok GT Air-Cooled	Surelok GT Liquid-Cooled	Surelok QD Air-Cooled	Surelok QD Liquid-Cooled	Surelok QD 5 Liquid-Cooled
1 QGS0	Open	●	●	○	○	○	●	○
2 QGS1	Gas Supply Hose c/w 3/8" BSP	●	●	○	○	○	●	○
3 QGS2	Gas Supply Hose c/w 5.0mm Quick Fit	●	●	○	○	○	●	○
4 QGS3	Gas Supply Hose c/w 5.95mm Quick Fit	●	●	○	○	○	●	○
5 QGS4	Gas Supply Hose c/w 8.9mm Quick Fit	●	●	○	○	○	●	○
6 QGS5	Gas Supply Hose c/w 1/4" BSP	●	●	○	○	○	●	○
7 QGS6	Gas Supply Hose c/w M10 x 1.0	●	●	○	○	○	●	○
8 QGS7	Gas Supply Hose c/w 5/8" UNF RH	●	●	○	○	○	●	○
9 QGS8	Gas Supply Hose c/w M12 x 1.0	●	●	○	○	○	●	○
10 QGS9	Gas Supply Hose c/w 1/8" BSP	●	●	○	○	○	●	○

Water Feed Hose - Rapid Fit

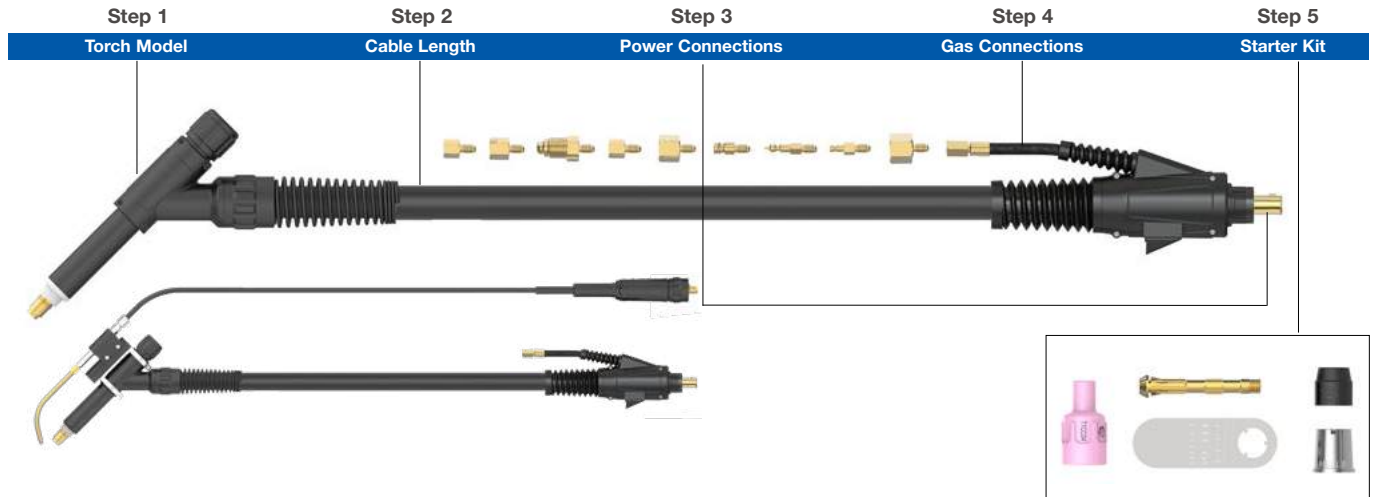
Part No.	Description	Surelok Air-Cooled	Surelok Liquid-Cooled	Surelok GT Air-Cooled	Surelok GT Liquid-Cooled	Surelok QD Air-Cooled	Surelok QD Liquid-Cooled	Surelok QD 5 Liquid-Cooled
1 QWF0	Open	○	●	○	●	○	●	●
2 QWF1	Water Feed Hose c/w 8.9mm Quick Fit	○	●	○	●	○	●	●
3 QWF2	Water Feed Hose c/w 5/8" UNF LH	○	●	○	●	○	●	●
4 QWF3	Water Feed Hose c/w 3/8" BSP	○	●	○	●	○	●	●
5 QWF4	Water Feed Hose c/w M12 x 1.0	○	●	○	●	○	●	●

Water Return - Rapid Fit

Part No.	Description	Surelok Air-Cooled	Surelok Liquid-Cooled	Surelok GT Air-Cooled	Surelok GT Liquid-Cooled	Surelok QD Air-Cooled	Surelok QD Liquid-Cooled	Surelok QD 5 Liquid-Cooled
1 QWR0	Open	○	●	○	●	○	○	●
2 QWR1	Water Return Hose c/w 8.9mm Quick Fit	○	●	○	●	○	○	●
3 QWR2	Water Return Hose c/w 5/8" UNF LH	○	●	○	●	○	○	●
4 QWR3	Water Return Hose c/w 3/8" BSP	○	●	○	●	○	○	●
5 QWR4	Water Return Hose c/w M12 x 1.0	○	●	○	●	○	○	●

● Denotes applicable model

Surelok™ Air-Cooled Terminations



How to Order:

To order your Arc Tig Torch please follow the simple 7 stage process below:

1. Select the torch model
2. Select the length of cable
3. Select the power connection
4. Select the rapid fit gas connection
5. Select the starter kit

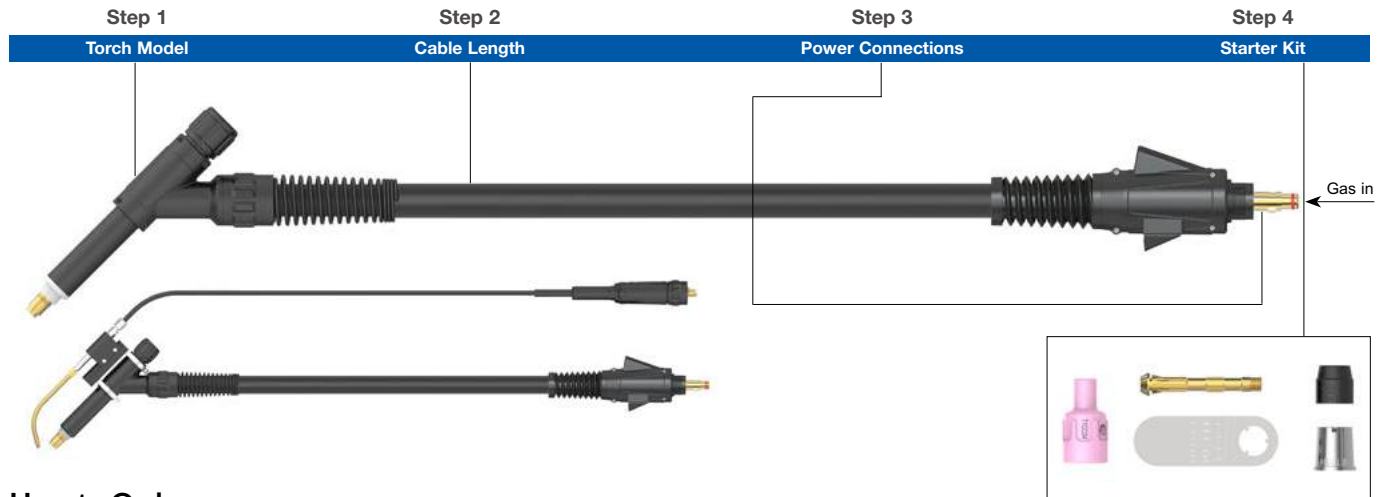
Example:

T1A-4M-SL-QGS5-T1CB1-AUTO

T1A Arc Tig Auto Torch x 12.5ft, large Dinse Air-Cooled Surelok™ style 1/4" BSP Gas, with Auto Torch Small Collet Body Starter Kit 1.0mm-0.04".

Step 1 Torch Model		Step 2 Cable Length	Step 3 Power Connections		Step 4 Gas Connections	Step 5 Starter Kit																															
Standard <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td colspan="2">Air-Cooled</td> </tr> <tr> <td>T1A</td> <td>140A DC</td> </tr> <tr> <td>T3A</td> <td>240A DC</td> </tr> </tbody> </table>		Code	Description	Air-Cooled		T1A	140A DC	T3A	240A DC		Power Connections <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>SL1625</td> <td>Small Dinse Surelok™ Style</td> </tr> <tr> <td>SL</td> <td>Large Dinse Surelok™ Style</td> </tr> </tbody> </table>		Code	Description	SL1625	Small Dinse Surelok™ Style	SL	Large Dinse Surelok™ Style																			
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Surelok™ GT Air-Cooled Terminations



How to Order

To order your Arc Tig Torch please follow the simple 6 stage process below:

1. Select the torch model
2. Select the length of cable
3. Select the power connection
4. Select the starter kit

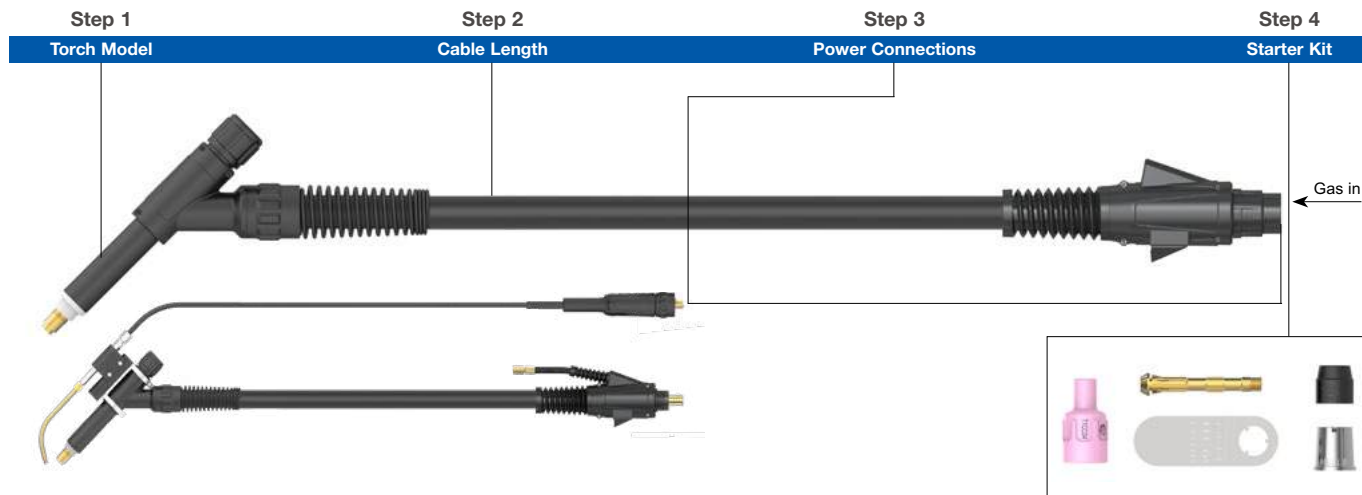
Example:

T1A-4M-GT-T1CB1-AUTO

T1A Arc Tig Auto Torch x 12.5ft ,large Dinse Air-Cooled Surelok™ GT Gas Through style,
With Auto Torch Small Collet Body Starter Kit 1.0mm-0.04”.

Step 1 Torch Model		Step 2 Cable Length		Step 3 Power Connections		Step 4 Starter Kit																			
Standard <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td colspan="2">Air-Cooled</td> </tr> <tr> <td>T1A</td> <td>140A DC</td> </tr> <tr> <td>T3A</td> <td>240A DC</td> </tr> </tbody> </table>		Code	Description	Air-Cooled		T1A	140A DC	T3A	240A DC	<table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>4m</td> <td>12.5ft Cable</td> </tr> <tr> <td>8m</td> <td>25ft Cable</td> </tr> </tbody> </table>		Code	Description	4m	12.5ft Cable	8m	25ft Cable	Power Connections <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>GT</td> <td>Large Dinse Gas Through Surelok™ Style</td> </tr> </tbody> </table>		Code	Description	GT	Large Dinse Gas Through Surelok™ Style	Starter Kit Please refer to Page 62 for starter kits	
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CWT3A	240A DC																								

Surelok™ QD Air-Cooled Terminations



How to Order

To order your Arc Tig Torch please follow the simple 6 stage process below:

1. Select the torch model
2. Select the length of cable
3. Select the power connection
4. Select the starter kit

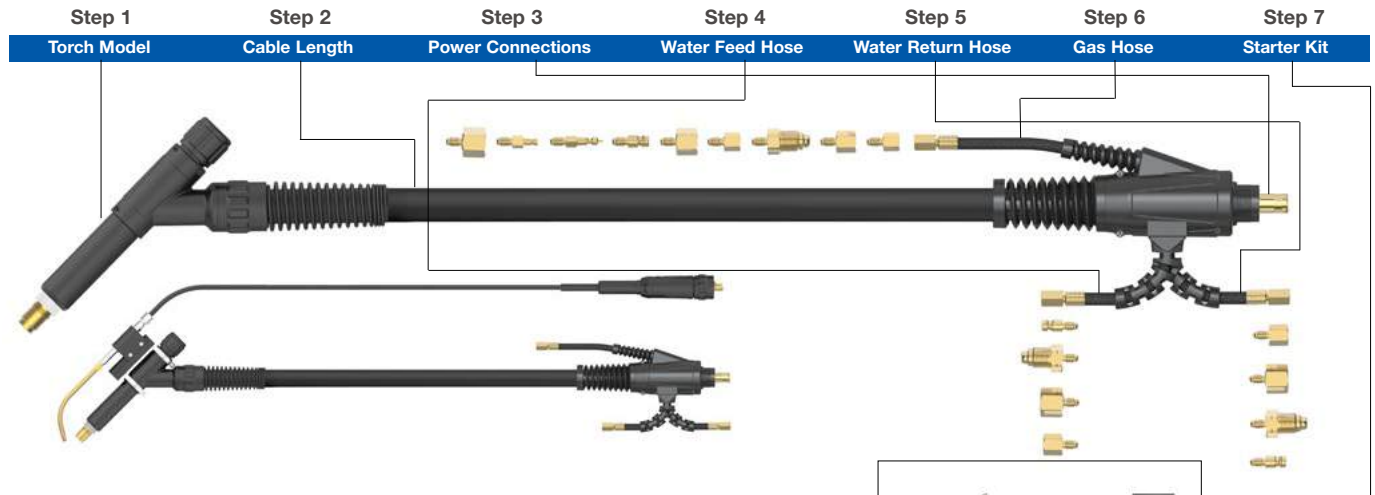
Example:

T1A-4M-QD1-T1CB1-AUTO

T1A Arc Tig Auto Torch x 12.5ft, Air-Cooled Surelok™ QD Gas Through 1/4" BSP, With Auto Torch Small Collet Body Starter Kit 1.0mm-0.04".

Step 1 Torch Model		Step 2 Cable Length		Step 3 Power Connections		Step 4 Starter Kit																									
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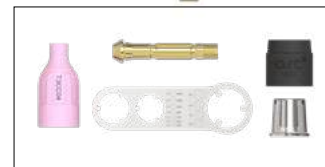
Surelok™ Liquid-Cooled Terminations



How to Order:

To order your Arc Tig Torch please follow the simple 7 stage process below:

1. Select the torch model
2. Select the length of cable
3. Select the power connection
4. Select the rapid fit water feed connection
5. Select the rapid fit water return connection
6. Select the rapid fit gas connection
7. Select the starter kit



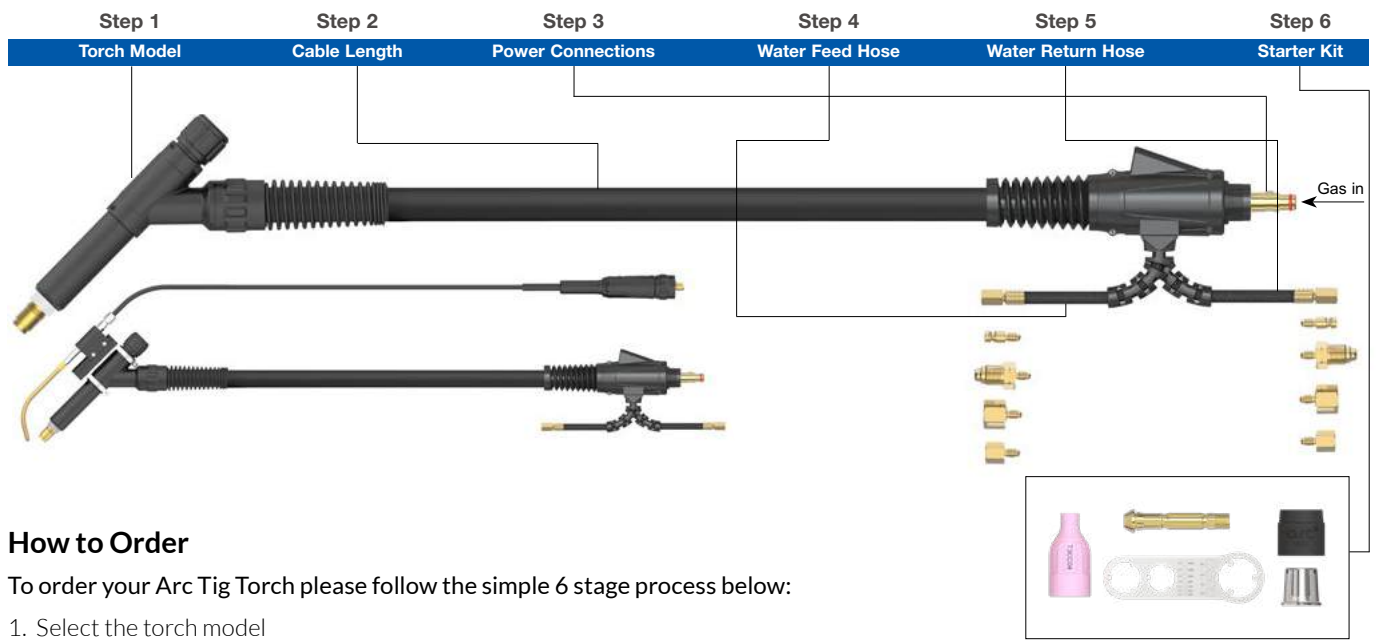
Example:

T5WA-4M-SL-QWF1-QWR1-QGS5-MCB2-AUTO

T5WA Arc Tig Auto Torch x 12.5ft ,Large Dinse Liquid-Cooled Surelok™ style 1/4" BSP Gas, QF 8.9mm water feed and return, with Auto Torch medium collet body starter kit 1.6mm-1/16".

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Surelok™ GT Liquid-Cooled Terminations



How to Order

To order your Arc Tig Torch please follow the simple 6 stage process below:

1. Select the torch model
2. Select the length of cable
3. Select the power connection
4. Select the rapid fit water feed connection
5. Select the rapid fit water return connection
6. Select the starter kit

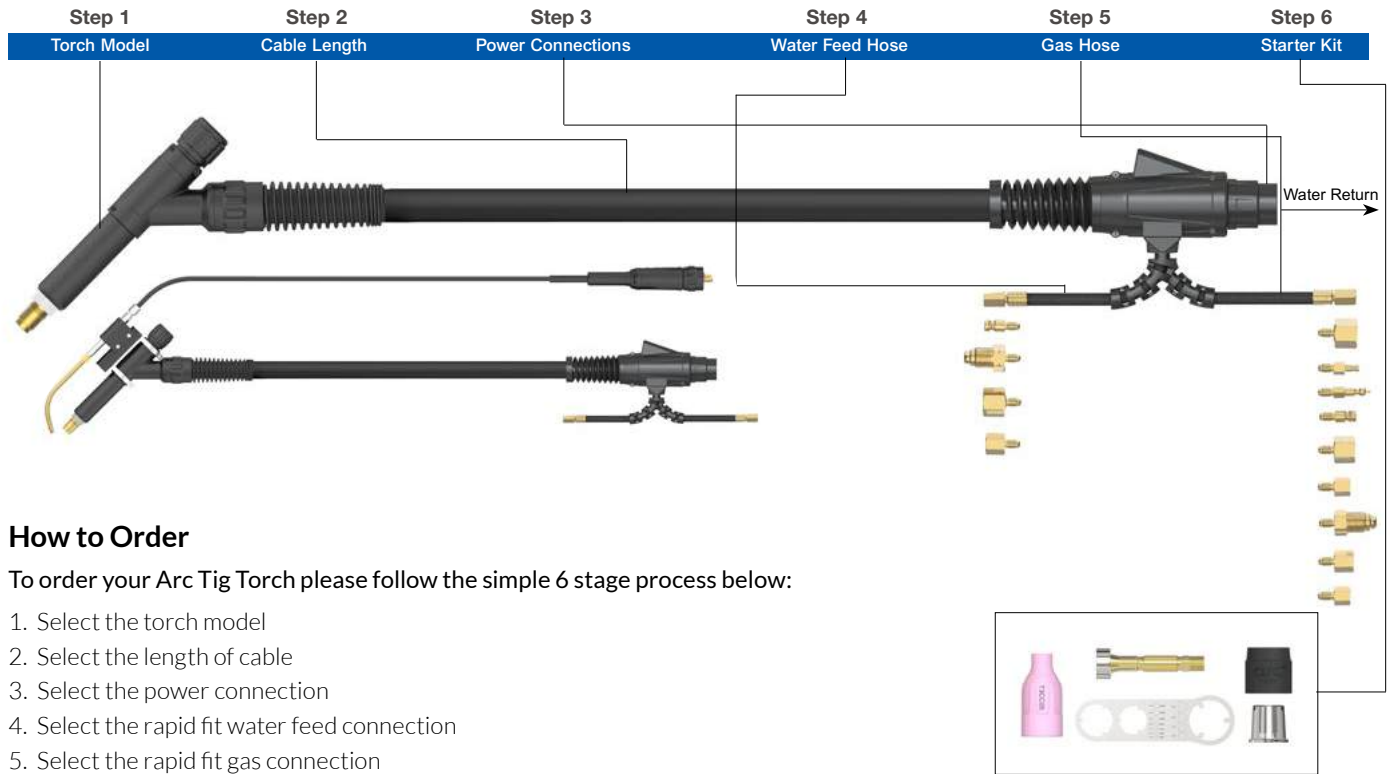
Example:

T5WA-4M-GT-QWF1-QWR1-MCB2-AUTO

T5WA Arc Tig Auto Torch x 12.5ft, large Dinse Liquid-Cooled Surelok™ GT Gas Through Style , QF 8.9mm water feed and return, Auto Torch medium collet body starter kit 1.6mm-1/16".

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Surelok™ QD Liquid-Cooled Terminations



How to Order

To order your Arc Tig Torch please follow the simple 6 stage process below:

1. Select the torch model
2. Select the length of cable
3. Select the power connection
4. Select the rapid fit water feed connection
5. Select the rapid fit gas connection
6. Select the starter kit

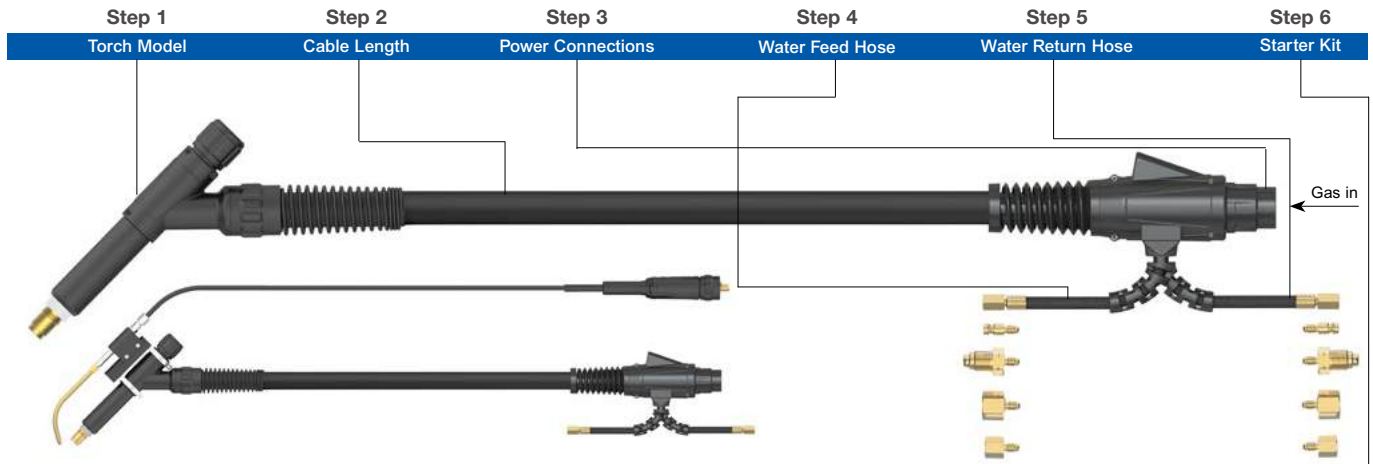
Example:

T5WA-4M-QD1-QWF1-QGS5-MGL2-AUTO

T5WA Arc Tig Auto Torch x 12.5ft, Liquid-Cooled Surelok™ QD 1/4" BSP, QF 8.9mm water feed, 1/4" BSP Gas Supply, with Auto torch medium gas lens body starter kit 1.6mm-1/16".

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Surelok™ QD5 Liquid-Cooled Terminations



How to Order

To order your Tig Torch please use the simple 6 stage process as outlined below.

1. Select the torch model
2. Select the length of cable
3. Select the power connection
4. Select the rapid fit water feed connection
5. Select the rapid fit water return connection
6. Select the starter kit



Example:

T5WA-4M-QD5-QWF1-QWR1-LGL2-AUTO

T5WA Arc Tig Auto Torch x 12.5ft, Liquid-Cooled Surelok™ QD5 1/4" BSP, QF 8.9mm water feed and return, Auto Torch large gas lens body starter kit 1.6mm-1/16".

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<p>Standard</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td colspan="2">Liquid-Cooled</td> </tr> <tr> <td>T1WA</td> <td>330A DC</td> </tr> <tr> <td>T3WA</td> <td>400A DC</td> </tr> <tr> <td>T5WA</td> <td>550A DC</td> </tr> </tbody> </table> <p>Cold-Wire</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td colspan="2">Liquid-Cooled</td> </tr> <tr> <td>CWT1WA</td> <td>330A DC</td> </tr> <tr> <td>CWT3WA</td> <td>400A DC</td> </tr> <tr> <td>CWT5WA</td> <td>550A DC</td> </tr> </tbody> </table> <p>Code Description</p> <table border="1"> <tbody> <tr> <td>4m</td> <td>12.5ft Cable</td> </tr> <tr> <td>8m</td> <td>25ft Cable</td> </tr> </tbody> </table>	Code	Description	Liquid-Cooled		T1WA	330A DC	T3WA	400A DC	T5WA	550A DC	Code	Description	Liquid-Cooled		CWT1WA	330A DC	CWT3WA	400A DC	CWT5WA	550A DC	4m	12.5ft Cable	8m	25ft Cable		<p>Power Connections</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>QD5</td> <td>Liquid-Cooled Surelok™ QD 1/4" BSP</td> </tr> </tbody> </table> <p># Water Feed Hose - Rapid Fit</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>QWF0</td> <td>Open</td> </tr> <tr> <td>QWF1</td> <td>Water Feed Hose c/w 8.9mm Quick Fit</td> </tr> <tr> <td>QWF2</td> <td>Water Feed Hose c/w 5/8" UNF LH</td> </tr> <tr> <td>QWF3</td> <td>Water Feed Hose c/w 3/8" BSP</td> </tr> <tr> <td>QWF4</td> <td>Water Feed Hose c/w M12 x 1.0</td> </tr> </tbody> </table> <p># Water Return Hose - Rapid Fit</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>QWR0</td> <td>Open</td> </tr> <tr> <td>QWR1</td> <td>Water Return Hose c/w 8.9mm Quick Fit</td> </tr> <tr> <td>QWR2</td> <td>Water Return Hose c/w 5/8" UNF LH</td> </tr> <tr> <td>QWR3</td> <td>Water Return Hose c/w 3/8" BSP</td> </tr> <tr> <td>QWR4</td> <td>Water Return Hose c/w M12 x 1.0</td> </tr> </tbody> </table>	Code	Description	QD5	Liquid-Cooled Surelok™ QD 1/4" BSP	Code	Description	QWF0	Open	QWF1	Water Feed Hose c/w 8.9mm Quick Fit	QWF2	Water Feed Hose c/w 5/8" UNF LH	QWF3	Water Feed Hose c/w 3/8" BSP	QWF4	Water Feed Hose c/w M12 x 1.0	Code	Description	QWR0	Open	QWR1	Water Return Hose c/w 8.9mm Quick Fit	QWR2	Water Return Hose c/w 5/8" UNF LH	QWR3	Water Return Hose c/w 3/8" BSP	QWR4	Water Return Hose c/w M12 x 1.0			<p>Starter Kit</p> <p>Please refer to Page 62 for starter kits</p>
Code	Description																																																								
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WEAR PARTS SET-UP OVERVIEW

T1A/T1WA/CWT1A/CWT1WA Series

Standard Nozzle Collet Body Set-Up

Recommended Set-up Parameters for Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size						
					1.0	1.6	2.4	3.2	4.0	4.8	6.4
4	6mm 1/4"	6 l/min	8mm	●	●	●	●	●	●	●	●
5	8mm 5/16"	6 l/min	8mm	●	●	●	●	●	●	●	●
6	10mm 3/8"	7 l/min	10mm	●	●	●	●	●	●	●	●
7	11mm 7/16"	8 l/min	10mm	●	●	●	●	●	●	●	●
8	12mm 1/2"	8 l/min	10mm	●	●	●	●	●	●	●	●
10	15mm 5/8"	10 l/min	13mm	●	●	●	●	●	●	●	●

Note: Please refer to Page 64 for recommended Tungsten parameters.

Standard Nozzle Gas Lens Collet Body Set-Up

Recommended Set-up Parameters for Stainless Steel, Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size						
					1.0	1.6	2.4	3.2	4.0	4.8	6.4
4	6mm 1/4"	5 l/min	10mm	●	●	●	●	●	●	●	●
5	8mm 5/16"	6 l/min	10mm	●	●	●	●	●	●	●	●
6	10mm 3/8"	7 l/min	13mm	●	●	●	●	●	●	●	●
7	11mm 7/16"	8 l/min	14mm	●	●	●	●	●	●	●	●
8	12mm 1/2"	8 l/min	15mm	●	●	●	●	●	●	●	●
10	15mm 5/8"	10 l/min	15mm	●	●	●	●	●	●	●	●

Note: Please refer to Page 64 for recommended Tungsten parameters.

Short Nozzle Collet Body Set-up

Recommended Set-up Parameters for Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size						
					1.0	1.6	2.4	3.2	4.0	4.8	6.4
5	8mm 5/16"	6 l/min	8mm	●	●	●	●	●	●	●	●
7	11mm 7/16"	8 l/min	8mm	●	●	●	●	●	●	●	●
10	15mm 5/8"	10 l/min	10mm	●	●	●	●	●	●	●	●

Short Nozzle Gas Lens Collet Body Set-Up

Recommended Set-up Parameters for Stainless Steel, Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size						
					1.0	1.6	2.4	3.2	4.0	4.8	6.4
5	8mm 5/16"	6 l/min	10mm	●	●	●	●	●	●	●	●
7	11mm 7/16"	8 l/min	10mm	●	●	●	●	●	●	●	●
10	15mm 5/8"	10 l/min	10mm	●	●	●	●	●	●	●	●

WEAR PARTS SET-UP OVERVIEW

T3WA/CWT3WA

Standard Nozzle Collet Body Set-Up

Recommended Set-up Parameters for Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size							
					1.0	1.6	2.4	3.2	4.0	4.8	6.4	
4	6mm 1/4"	6 l/min	10mm	●	●	●	●	●	●	●	●	●
5	8mm 5/16"	6 l/min	10mm	●	●	●	●	●	●	●	●	●
6	10mm 3/8"	7 l/min	11mm	●	●	●	●	●	●	●	●	●
7	11mm 7/16"	7 l/min	12mm	●	●	●	●	●	●	●	●	●
8	12mm 1/2"	10 l/min	13mm	●	●	●	●	●	●	●	●	●
10	15mm 5/8"	12 l/min	15mm	●	●	●	●	●	●	●	●	●

Note: Please refer to Page 64 for recommended Tungsten parameters.

Standard Nozzle Gas Lens Collet Body Set-Up

Recommended Set-up Parameters for Stainless Steel, Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size							
					1.0	1.6	2.4	3.2	4.0	4.8	6.4	
4	6mm 1/4"	5 l/min	10mm	●	●	●	●	●	●	●	●	●
5	8mm 5/16"	6 l/min	10mm	●	●	●	●	●	●	●	●	●
6	10mm 3/8"	7 l/min	13mm	●	●	●	●	●	●	●	●	●
7	11mm 7/16"	7 l/min	14mm	●	●	●	●	●	●	●	●	●
8	12mm 1/2"	8 l/min	15mm	●	●	●	●	●	●	●	●	●
10	15mm 5/8"	10 l/min	20mm	●	●	●	●	●	●	●	●	●

Note: Please refer to Page 64 for recommended Tungsten parameters.

WEAR PARTS SET-UP OVERVIEW



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T3A/T5WA/CWT3A/CWT5WA

Standard Nozzle Collet Body Set-Up

Recommended Set-up Parameters for Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size						
					1.0	1.6	2.4	3.2	4.0	4.8	6.4
4	6mm 1/4"	6 l/min	10mm	●	●	●	●	●	●	●	●
5	8mm 5/16"	6 l/min	10mm	●	●	●	●	●	●	●	●
6	10mm 3/8"	7 l/min	11mm	●	●	●	●	●	●	●	●
7	11mm 7/16"	7 l/min	12mm	●	●	●	●	●	●	●	●
8	12mm 1/2"	10 l/min	13mm	●	●	●	●	●	●	●	●
10	15mm 5/8"	12 l/min	15mm	●	●	●	●	●	●	●	●
12	19mm 3/4"	15 l/min	18mm	●	●	●	●	●	●	●	●

Note: Please refer to Page 64 for recommended Tungsten parameters.

Standard Nozzle Gas Lens Collet Body Set-Up

Recommended Set-up Parameters for Stainless Steel, Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size						
					1.0	1.6	2.4	3.2	4.0	4.8	6.4
4	6mm 1/4"	5 l/min	10mm	●	●	●	●	●	●	●	●
5	8mm 5/16"	6 l/min	10mm	●	●	●	●	●	●	●	●
6	10mm 3/8"	7 l/min	13mm	●	●	●	●	●	●	●	●
7	11mm 7/16"	7 l/min	14mm	●	●	●	●	●	●	●	●
8	12mm 1/2"	8 l/min	15mm	●	●	●	●	●	●	●	●
10	15mm 5/8"	10 l/min	20mm	●	●	●	●	●	●	●	●
12	19mm 3/4"	13 l/min	20mm	●	●	●	●	●	●	●	●

Note: Please refer to Page 64 for recommended Tungsten parameters.

Large Gas Lens Nozzle Large Gas Lens Collet Body Set-Up

Recommended Set-up Parameters for Stainless Steel, Steel and Aluminium



Nozzle Size	Bore Size	Suggested Gas Flow Rate	Maximum Tungsten Stick-out	Ceramic Nozzle	Tungsten Size						
					1.0	1.6	2.4	3.2	4.0	4.8	6.4
8	12mm 1/2"	8 l/min	15mm	●	●	●	●	●	●	●	●
10	15mm 5/8"	10 l/min	20mm	●	●	●	●	●	●	●	●
12	19mm 3/4"	13 l/min	20mm	●	●	●	●	●	●	●	●
14	24mm 15/16"	15 l/min	25mm	●	●	●	●	●	●	●	●

Note: Please refer to Page 64 for recommended Tungsten parameters.
The Tungsten stick out should be minimum 10mm for Aluminium welding

WEAR PARTS

High Performance Series



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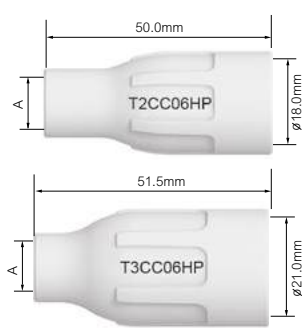
Lasts
**5 Times
Longer!**

Ceramic Cups



Part No.	Description	Size			T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
		Size	Bore	Length					
T1CC04	Ceramic Cup	4	6mm	1/4"	●	●	●	●	●
T1CC05	Ceramic Cup	5	8mm	5/16"	●	●	●	●	●
T1CC06	Ceramic Cup	6	10mm	3/8"	●	●	●	●	●
T1CC07	Ceramic Cup	7	11mm	7/16"	●	●	●	●	●
T1CC08	Ceramic Cup	8	12.5mm	1/2"	●	●	●	●	●
T1CC10	Ceramic Cup	10	16mm	5/8"	●	●	●	●	●
<hr/>									
T1CC05S	Short Ceramic Cup	5	8mm	5/16"	●	●	●	●	●
T1CC07S	Short Ceramic Cup	7	11mm	7/16"	●	●	●	●	●
T1CC10S	Short Ceramic Cup	10	15mm	5/8"	●	●	●	●	●
<hr/>									
T2CC04	Ceramic Cup	4	6mm	1/4"	●	●	●	●	●
T2CC05	Ceramic Cup	5	8mm	5/16"	●	●	●	●	●
T2CC06	Ceramic Cup	6	10mm	3/8"	●	●	●	●	●
T2CC07	Ceramic Cup	7	11mm	7/16"	●	●	●	●	●
T2CC08	Ceramic Cup	8	12.5mm	1/2"	●	●	●	●	●
T2CC10	Ceramic Cup	10	16mm	5/8"	●	●	●	●	●
<hr/>									
T3CC04	Ceramic Cup	4	6mm	1/4"	●	●	●	●	●
T3CC05	Ceramic Cup	5	8mm	5/16"	●	●	●	●	●
T3CC06	Ceramic Cup	6	10mm	3/8"	●	●	●	●	●
T3CC07	Ceramic Cup	7	11mm	7/16"	●	●	●	●	●
T3CC08	Ceramic Cup	8	12.5mm	1/2"	●	●	●	●	●
T3CC10	Ceramic Cup	10	16mm	5/8"	●	●	●	●	●
T3CC12	Ceramic Cup	12	19mm	3/4"	●	●	●	●	●

High Performance Ceramic Cups



Part No.	Description	Size			Bore A	T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
		Size	Bore	Length						
T2CC06HP	High Performance Ceramic Cup	6	10mm	3/8"	●	●	●	●	●	
T2CC07HP	High Performance Ceramic Cup	7	11mm	7/16"	●	●	●	●	●	
T2CC08HP	High Performance Ceramic Cup	8	12.5mm	1/2"	●	●	●	●	●	
T2CC10HP	High Performance Ceramic Cup	10	16mm	5/8"	●	●	●	●	●	
<hr/>										
T3CC06HP	High Performance Ceramic Cup	6	10mm	3/8"	●	●	●	●	●	
T3CC07HP	High Performance Ceramic Cup	7	11mm	7/16"	●	●	●	●	●	
T3CC08HP	High Performance Ceramic Cup	8	12.5mm	1/2"	●	●	●	●	●	
T3CC10HP	High Performance Ceramic Cup	10	16mm	5/8"	●	●	●	●	●	



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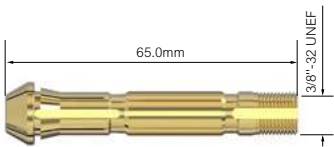
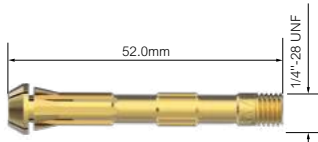


Large Gas Lens Ceramic Cups

Part No.	Description	Size	Bore A		T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
T5LGLCC08	Large Gas Lens Ceramic Cup	8	12.5mm	1/2"	●	●	●	●	●
T5LGLCC10	Large Gas Lens Ceramic Cup	10	16mm	5/8"	●	●	●	●	●
T5LGLCC12	Large Gas Lens Ceramic Cup	12	19mm	3/4"	●	●	●	●	●
T5LGLCC14	Large Gas Lens Ceramic Cup	14	24mm	15/16"	●	●	●	●	●



Collet Body

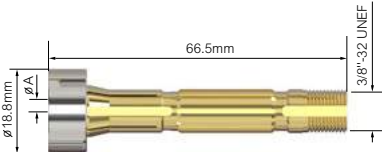
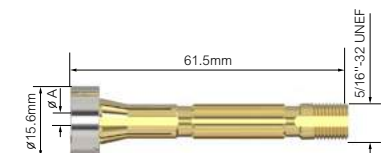
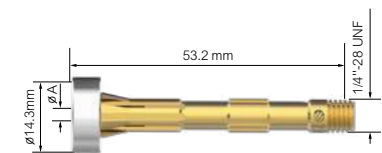


Part No.	Description	Bore		T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
T1ACB10	Collet Body	1.0mm	0.04"	●	●	●	●	●
T1ACB16	Collet Body	1.6mm	1/16"	●	●	●	●	●
T1ACB20	Collet Body	2.0mm	5/64"	●	●	●	●	●
T1ACB24	Collet Body	2.4mm	3/32"	●	●	●	●	●
T1ACB32	Collet Body	3.2mm	1/8"	●	●	●	●	●
T1ACB40	Collet Body	4.0mm	5/32"	●	●	●	●	●
T2CB10	Collet Body	1.0mm	0.04"	●	●	●	●	●
T2CB16	Collet Body	1.6mm	1/16"	●	●	●	●	●
T2CB20	Collet Body	2.0mm	5/64"	●	●	●	●	●
T2CB24	Collet Body	2.4mm	3/32"	●	●	●	●	●
T2CB32	Collet Body	3.2mm	1/8"	●	●	●	●	●
T2CB40	Collet Body	4.0mm	5/32"	●	●	●	●	●
T2CB48	Collet Body	4.8mm	3/16"	●	●	●	●	●
T3CB10	Collet Body	1.0mm	0.04"	●	●	●	●	●
T3CB16	Collet Body	1.6mm	1/16"	●	●	●	●	●
T3CB20	Collet Body	2.0mm	5/64"	●	●	●	●	●
T3CB24	Collet Body	2.4mm	3/32"	●	●	●	●	●
T3CB32	Collet Body	3.2mm	1/8"	●	●	●	●	●
T3CB40	Collet Body	4.0mm	5/32"	●	●	●	●	●
T3CB48	Collet Body	4.8mm	3/16"	●	●	●	●	●
T3CB64	Collet Body	6.4mm	1/4"	●	●	●	●	●

● Standard wear part range

Gas Lens Collet Body

Lasts 20* Times Longer!



Part No.	Description	Bore		T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
T1AGL10	Gas Lens Collet Body	1.0mm	0.04"	●	●	●	●	●
T1AGL16	Gas Lens Collet Body	1.6mm	1/16"	●	●	●	●	●
T1AGL20	Gas Lens Collet Body	2.0mm	5/64"	●	●	●	●	●
T1AGL24	Gas Lens Collet Body	2.4mm	3/32"	●	●	●	●	●
T1AGL32	Gas Lens Collet Body	3.2mm	1/8"	●	●	●	●	●
T1AGL40	Gas Lens Collet Body	4.0mm	5/32"	●	●	●	●	●
<hr/>								
T2GL10	Gas Lens Collet Body	1.0mm	0.04"	●	●	●	●	●
T2GL16	Gas Lens Collet Body	1.6mm	1/16"	●	●	●	●	●
T2GL20	Gas Lens Collet Body	2.0mm	5/64"	●	●	●	●	●
T2GL24	Gas Lens Collet Body	2.4mm	3/32"	●	●	●	●	●
T2GL32	Gas Lens Collet Body	3.2mm	1/8"	●	●	●	●	●
T2GL40	Gas Lens Collet Body	4.0mm	5/32"	●	●	●	●	●
T2GL48	Gas Lens Collet Body	4.8mm	3/16"	●	●	●	●	●
<hr/>								
T3GL10	Gas Lens Collet Body	1.0mm	0.04"	●	●	●	●	●
T3GL16	Gas Lens Collet Body	1.6mm	1/16"	●	●	●	●	●
T3GL20	Gas Lens Collet Body	2.0mm	5/64"	●	●	●	●	●
T3GL24	Gas Lens Collet Body	2.4mm	3/32"	●	●	●	●	●
T3GL32	Gas Lens Collet Body	3.2mm	1/8"	●	●	●	●	●
T3GL40	Gas Lens Collet Body	4.0mm	5/32"	●	●	●	●	●
T3GL48	Gas Lens Collet Body	4.8mm	3/16"	●	●	●	●	●
T3GL64	Gas Lens Collet Body	6.4mm	1/4"	●	●	●	●	●

Note: Replaceable gas lens filters are available for small and medium gas lens collet bodies - please refer to gas lens body filter kits

*Gas lens with replaceable gauze

Large Gas Lens Collet Body








Part No.	Description	Bore		T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
T5LGL10	Large Gas Lens Collet Body	1.0mm	0.04"	●	●	●	●	●
T5LGL16	Large Gas Lens Collet Body	1.6mm	1/16"	●	●	●	●	●
T5LGL20	Large Gas Lens Collet Body	2.0mm	5/64"	●	●	●	●	●
T5LGL24	Large Gas Lens Collet Body	2.4mm	3/32"	●	●	●	●	●
T5LGL32	Large Gas Lens Collet Body	3.2mm	1/8"	●	●	●	●	●
T5LGL40	Large Gas Lens Collet Body	4.0mm	5/32"	●	●	●	●	●
T5LGL48	Large Gas Lens Collet Body	4.8mm	3/16"	●	●	●	●	●
T5LGL64	Large Gas Lens Collet Body	6.4mm	1/4"	●	●	●	●	●

Note: Large gas lens collet bodies have fixed filters

● Standard wear part range

Liners

Part No.	Description	Wire Size mm	CWT1A	CWT3A	CWT1WA	CWT3WA	CWT5WA
ATHWB1535-40	Steel Liner x 4mt	0.6-0.9mm	●	●	●	●	●
							
ATHWB5033-40	Steel Liner x 4mt	1.0-1.2mm	●	●	●	●	●
							
ATHWB5034-40	Steel Liner x 4mt	1.2-1.6mm	●	●	●	●	●
							
ATHCWB2564-40	Polyamide / Stainless Steel Liner x 4mt	0.6-1.2mm	●	●	●	●	●
ATHCWB3564-40	Polyamide / Stainless Steel Liner x 4mt	1.2-1.6mm	●	●	●	●	●
							
ATHCWB2564AL-40	Polyamide / Brass Liner x 4mt	0.6-1.2mm	●	●	●	●	●
ATHCWB3564AL-40	Polyamide / Brass Liner x 4mt	1.2-1.6mm	●	●	●	●	●
							

Gas Lens Body Filter Kit

Part No.	Description	Bore		T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
		mm	in					
T1GL10FS-3KIT	Small Gas Lens Body Filter Kit	1.0mm	0.04"	●	●	●	●	●
T1GL16FS-3KIT	Small Gas Lens Body Filter Kit	1.6mm	1/16"	●	●	●	●	●
T1GL20FS-3KIT	Small Gas Lens Body Filter Kit	2.0mm	5/64"	●	●	●	●	●
T1GL24FS-3KIT	Small Gas Lens Body Filter Kit	2.4mm	3/32"	●	●	●	●	●
T1GL32FS-3KIT	Small Gas Lens Body Filter Kit	3.2mm	1/8"	●	●	●	●	●
T1GL40FS-3KIT	Small Gas Lens Body Filter Kit	4.0mm	5/32"	●	●	●	●	●
SGL10FS-3KIT	Small Gas Lens Body Filter Kit	1.0mm	0.04"	●	●	●	●	●
SGL16FS-3KIT	Small Gas Lens Body Filter Kit	1.6mm	1/16"	●	●	●	●	●
SGL20FS-3KIT	Small Gas Lens Body Filter Kit	2.0mm	5/64"	●	●	●	●	●
SGL24FS-3KIT	Small Gas Lens Body Filter Kit	2.4mm	3/32"	●	●	●	●	●

● Standard wear part range

Gas Lens Body Filter Kit

Part No.	Description	Bore		T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
		mm	in					
SGL32FL-3KIT	Small Gas Lens Body Filter Kit	3.2mm	1/8"	●	●	●	●	●
SGL40FL-3KIT	Small Gas Lens Body Filter Kit	4.0mm	5/32"	●	●	●	●	●
SGL48FL-3KIT	Small Gas Lens Body Filter Kit	4.8mm	3/16"	●	●	●	●	●
MGL10FS-3KIT	Medium Gas Lens Body Filter Kit	1.0mm	0.04"	●	●	●	●	●
MGL16FS-3KIT	Medium Gas Lens Body Filter Kit	1.6mm	1/16"	●	●	●	●	●
MGL20FS-3KIT	Medium Gas Lens Body Filter Kit	2.0mm	5/64"	●	●	●	●	●
MGL24FS-3KIT	Medium Gas Lens Body Filter Kit	2.4mm	3/32"	●	●	●	●	●
MGL32FS-3KIT	Medium Gas Lens Body Filter Kit	3.2mm	1/8"	●	●	●	●	●
MGL40FL-3KIT	Medium Gas Lens Body Filter Kit	4.0mm	5/32"	●	●	●	●	●
MGL48FL-3KIT	Medium Gas Lens Body Filter Kit	4.8mm	3/16"	●	●	●	●	●
MGL64FL-3KIT	Medium Gas Lens Body Filter Kit	6.4mm	1/4"	●	●	●	●	●

● Standard wear part range

The Arc Collet Body Starter Kits include everything you need to get started with Ceramic Cups

Collet Body Starter Kits

		T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
	T1CB1-AUTO	Auto Torch Small Collet Body Starter Kit 1.0mm-0.04"	●	●	●	●
	T1CB2-AUTO	Auto Torch Small Collet Body Starter Kit 1.6mm-1/16"	●	●	●	●
	T1CB3-AUTO	Auto Torch Small Collet Body Starter Kit 2.0mm-5/64"	●	●	●	●
	T1CB4-AUTO	Auto Torch Small Collet Body Starter Kit 2.4mm-3/32"	●	●	●	●
	T1CB5-AUTO	Auto Torch Small Collet Body Starter Kit 3.2mm-1/8"	●	●	●	●
	T1CB6-AUTO	Auto Torch Small Collet Body Starter Kit 4.0mm-5/32"	●	●	●	●
	SCB1-AUTO	Auto Torch Small Collet Body Starter Kit 1.0mm-0.04"	●	●	●	●
	SCB2-AUTO	Auto Torch Small Collet Body Starter Kit 1.6mm-1/16"	●	●	●	●
	SCB3-AUTO	Auto Torch Small Collet Body Starter Kit 2.0mm-5/64"	●	●	●	●
	SCB4-AUTO	Auto Torch Small Collet Body Starter Kit 2.4mm-3/32"	●	●	●	●
	SCB5-AUTO	Auto Torch Small Collet Body Starter Kit 3.2mm-1/8"	●	●	●	●
	SCB6-AUTO	Auto Torch Small Collet Body Starter Kit 4.0mm-5/32"	●	●	●	●
	SCB7-AUTO	Auto Torch Small Collet Body Starter Kit 4.8mm-3/16"	●	●	●	●
	MCB1-AUTO	Auto Torch Medium Collet Body Starter Kit 1.0mm-0.04"	●	●	●	●
	MCB2-AUTO	Auto Torch Medium Collet Body Starter Kit 1.6mm-1/16"	●	●	●	●
	MCB3-AUTO	Auto Torch Medium Collet Body Starter Kit 2.0mm-5/64"	●	●	●	●
	MCB4-AUTO	Auto Torch Medium Collet Body Starter Kit 2.4mm-3/32"	●	●	●	●
	MCB5-AUTO	Auto Torch Medium Collet Body Starter Kit 3.2mm-1/8"	●	●	●	●
	MCB6-AUTO	Auto Torch Medium Collet Body Starter Kit 4.0mm-5/32"	●	●	●	●
	MCB7-AUTO	Auto Torch Medium Collet Body Starter Kit 4.8mm-3/16"	●	●	●	●
	MCB8-AUTO	Auto Torch Medium Collet Body Starter Kit 6.4mm-1/4"	●	●	●	●

The Arc Gas Lens Body Starter Kits include everything you need to get started with Ceramic Cups

Gas Lens Body Starter Kits

		T1A / CWT1A	T3A / CWT3A	T1WA / CWT1WA	T3WA / CWT3WA	T5WA / CWT5WA
	T1GL1-AUTO	Auto Torch Small Gas Lens Body Starter Kit 1.0mm-0.04"	●	●	●	●
	T1GL2-AUTO	Auto Torch Small Gas Lens Body Starter Kit 1.6mm-1/16"	●	●	●	●
	T1GL3-AUTO	Auto Torch Small Gas Lens Body Starter Kit 2.0mm-5/64"	●	●	●	●
	T1GL4-AUTO	Auto Torch Small Gas Lens Body Starter Kit 2.4mm-3/32"	●	●	●	●
	T1GL5-AUTO	Auto Torch Small Gas Lens Body Starter Kit 3.2mm-1/8"	●	●	●	●
	T1GL6-AUTO	Auto Torch Small Gas Lens Body Starter Kit 4.0mm-5/32"	●	●	●	●
	SGL1-AUTO	Auto Torch Small Gas Lens Body Starter Kit 1.0mm-0.04"	●	●	●	●
	SGL2-AUTO	Auto Torch Small Gas Lens Body Starter Kit 1.6mm-1/16"	●	●	●	●
	SGL3-AUTO	Auto Torch Small Gas Lens Body Starter Kit 2.0mm-5/64"	●	●	●	●
	SGL4-AUTO	Auto Torch Small Gas Lens Body Starter Kit 2.4mm-3/32"	●	●	●	●
	SGL5-AUTO	Auto Torch Small Gas Lens Body Starter Kit 3.2mm-1/8"	●	●	●	●
	SGL6-AUTO	Auto Torch Small Gas Lens Body Starter Kit 4.0mm-5/32"	●	●	●	●
	SGL7-AUTO	Auto Torch Small Gas Lens Body Starter Kit 4.8mm-3/16"	●	●	●	●
	MGL1-AUTO	Auto Torch Medium Gas Lens Body Starter Kit 1.0mm-0.04"	●	●	●	●
	MGL2-AUTO	Auto Torch Medium Gas Lens Body Starter Kit 1.6mm-1/16"	●	●	●	●
	MGL3-AUTO	Auto Torch Medium Gas Lens Body Starter Kit 2.0mm-5/64"	●	●	●	●
	MGL4-AUTO	Auto Torch Medium Gas Lens Body Starter Kit 2.4mm-3/32"	●	●	●	●
	MGL5-AUTO	Auto Torch Medium Gas Lens Body Starter Kit 3.2mm-1/8"	●	●	●	●
	MGL6-AUTO	Auto Torch Medium Gas Lens Body Starter Kit 4.0mm-5/32"	●	●	●	●
	MGL7-AUTO	Auto Torch Medium Gas Lens Body Starter Kit 4.8mm-3/16"	●	●	●	●
	MGL8-AUTO	Auto Torch Medium Gas Lens Body Starter Kit 6.4mm-1/4"	●	●	●	●
	LGL1-AUTO	Auto Torch Large Gas Lens Body Starter Kit 1.0mm-0.04"	●	●	●	●
	LGL2-AUTO	Auto Torch Large Gas Lens Body Starter Kit 1.6mm-1/16"	●	●	●	●
	LGL3-AUTO	Auto Torch Large Gas Lens Body Starter Kit 2.0mm-5/64"	●	●	●	●
	LGL4-AUTO	Auto Torch Large Gas Lens Body Starter Kit 2.4mm-3/32"	●	●	●	●
	LGL5-AUTO	Auto Torch Large Gas Lens Body Starter Kit 3.2mm-1/8"	●	●	●	●
	LGL6-AUTO	Auto Torch Large Gas Lens Body Starter Kit 4.0mm-5/32"	●	●	●	●
	LGL7-AUTO	Auto Torch Large Gas Lens Body Starter Kit 4.8mm-3/16"	●	●	●	●
	LGL8-AUTO	Auto Torch Large Gas Lens Body Starter Kit 6.4mm-1/4"	●	●	●	●

RECOMMENDED TUNGSTEN PARAMETERS



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Tungsten	Nozzle							Nozzle Bore	A / AC			A / DC	
	4	5	6	7	8	10	12		Pure	Ceriated	Lanthanated WL-10 WL-15 WL-20	Ceriated	Lanthanated WL-10 WL-15 WL-20
1.0mm	●	●	●	●	●	●	●	6.4mm 8.0mm	10A-60A	15A-70A	15A-100A	70A-80A	20A-100A
1.6mm	●	●	●	●	●	●	●	6.4mm 8.0mm 9.8mm	50A-100A	60-90A	70A-160A	80A-140A	80A-160A
2.4mm	●	●	●	●	●	●	●	9.8mm 11.2mm 12.7mm	100A-160A	90A-130A	110A-200A	150A-210A	120A-230A
3.2mm	●	●	●	●	●	●	●	11.2mm 12.7mm	130A-180A	140-190A	150A-205A	220A-320A	200A-305A
4.0mm	●	●	●	●	●	●	●	12.7mm 16.0mm	180A-260A	190A-250A	180A-260A	320A-450A	320A-450A
4.8mm	●	●	●	●	●	●	●	16.0mm 19.0mm	240A-350A	330A-460A	330A-460A	500A-675A	500A-675A
6.4mm	●	●	●	●	●	●	●	19.0mm	300A-450A	430A-575A	430A-575A	650A-950A	650A-950A

RECOMMENDED WELDING SET-UP TABLE

Electric Current (DC)	Electric Current (AC)	Tungsten Size (mm)	Nozzle Number	Nozzle Bore Size (mm)	Standard Nozzle With Collet Body and Standard Gas Lens Body	Large Gas Lens Nozzle With Large Gas Lens Body
10-75	15-70	1.0	4# / 5#	6.35 (6) / 8.0	●	●
60-150	60-125	1.6	4# / 5# / 6#	6.35(6) / 8.0 / 9.8(10)	●	●
100-200	85-160	2.0	5# / 6# / 7#	8.0 / 9.8(10) / 11.2(11)	●	●
160-225	120-210	2.4	7# / 8#	11.2(11) / 12.7(12.5)	●	●
225-330	150-230	3.2	8# / 10#	12.7(12.5) / 16	●	●
340-400	230-280	4.0	10# / 12#	16 / 19 (20)	●	●
410-450	280-310	4.0	14#	23(24)	/	●
460-480	310-340	4.8	14#	23(24)	/	●
490-550	340-380	4.8	18# / 24#	28 / 38	/	/



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