

Product Catalogue

Machine Control Analogue Series



About Us

Uniarc is part of a group of companies specializing in the production of Welding and Cutting torches.

With over 40 years experience, the group is positioned as a global leader at the heart of the welding torch industry.

Originally established in the United Kingdom in the 1980's, the company is now a fully-fledged, vertically integrated Chinese product innovator and manufacturer.

Our customers span a full cross section of the industry, ranging from general distribution to leading global original equipment manufacturers.

Our products are used in a broad cross-section of industrial sectors ranging from auto body repair to ship building.

Whether you need a standard off the shelf product or a customized branded option with your own colours, logos and packaging we have a one stop solution for your requirements.

Our team are here to help, contact us today if you need anymore information.



Machine Control Analogue Torch Range



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Machine Control Analogue Liquid-Cooled Series

Features Focus

The Uniarc Analogue Torch series offers control of the welding machines parameters via the torch handle.

Consumable parts

All wear and spare parts are manufactured to the same specification as the OEM and are fully interchangeable.

Hanger Hook

A "plug and play" option, they encourage the operator to hang the torch off the ground where it is easy to locate.

Trigger Assembly

Rapid field servicing ensured by a simple plug and play system.

Switches can be exchanged in 5 seconds without the use of tools.

Available in standard and extanded options



Swan Necks

Manufactured to the same specification as the OEM.

Ergo Handle

Handle weight has been reduced wherever possible, which when combined with the correct ratio of cable support length and stiffness, provides the perfect balance between user comfort and excellent wire feed performance.

Top and bottom handle soft grips ensure all day welder comfort.



Cable Systems

Cable systems use high temperature-resistant rubber cables and are colour coded for ease of identification.

Unique cable end geometries ensure leak free terminations.



Water In/Out Supports

Fitted as standard to ensure delivery and uninterrupted flow rate of coolants.

Spring PinsFitted with unbreakable spring loaded gun plug body pins.

Rear Cable Support

Extra length cable support systems ensure smooth and consistent wire feed at any angle.

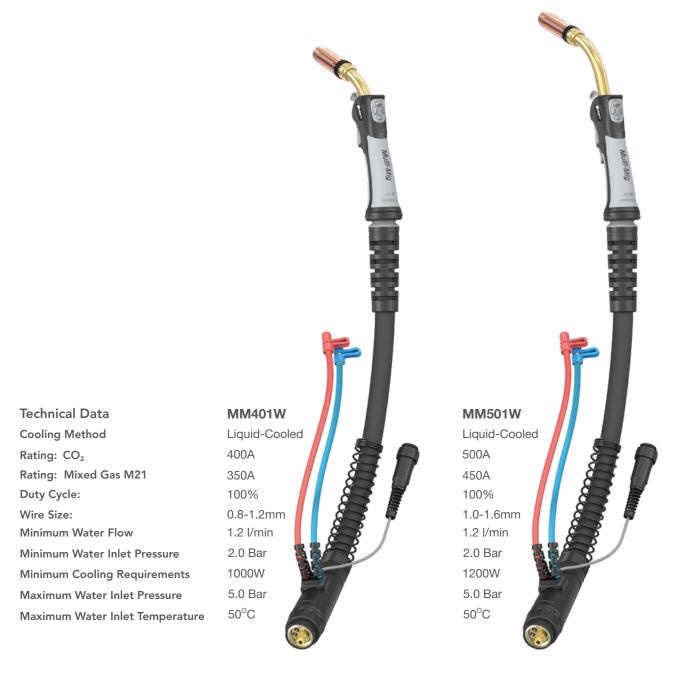


Tough and damage resistant, housings and nuts are formed in robust glass-reinforced polymers encasing all conductive parts in accordance with EN60974-7.

Machine Control Analogue Torch Series



Ratings: 350 Amp to 450 Amp, Mixed Gas M21



	MM4001-AM1-MT1-30ER	MM5000-AM1-MT1-30ER
Order Codes	MM4001-AM1-MT1-40ER	MM5000-AM1-MT1-40ER
	MM4001-AM1-MT1-50ER	MM5000-AM1-MT1-50ER



Machine Control Analogue Torch Range Overview Of Modules

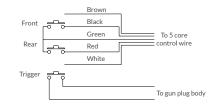
Analogue Torch Control

Welding programmes can be changed via a 2 or 4 way control module.

Analogue signals are sent through a 5 core switch lead and separate control plug to the machine.



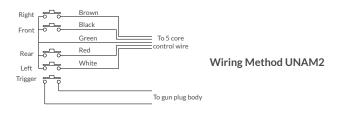
Function: Job Mode Up/Down Control



Wiring Method UNAM1



Function: Job Mode Up/Down Control x 2



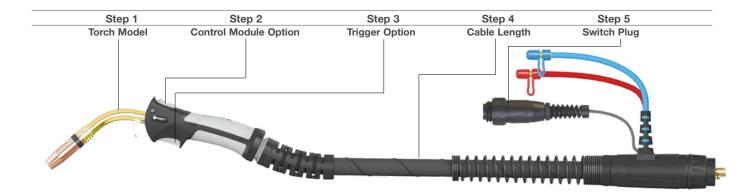
Plug and Play



Remove Screw Remove Module Replace Module Replace Screw

Machine Control Analogue Torch Range Torch Package Configurator





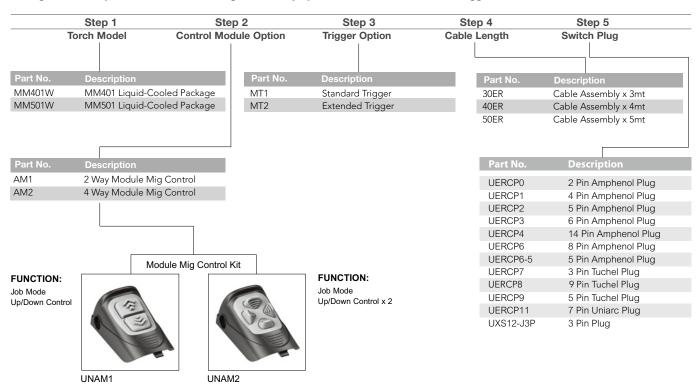
Ordering Information

Torch package part numbering is configured using the simple 5 stage system outlined below:

- 1. Select the torch model
- 2. Select the control module
- 3. Select the trigger type
- 4. Select the cable length
- 5. Select the switch plug

Example: MM5000-AM1-MT1-30ER

Analogue 501W Liquid-Cooled Torch Package c/w 2 way up/down control and standard trigger x 3mt





Machine Control Analogue Torch Range Switch Wire Plugs













































Kit Order Codes

Part Number	Description
UERCP0	2 Pin Amphenol Plug

Kit Order Codes

Part Number	Description
UERCP1	4 Pin Amphenol Plug

Kit Order Codes

Part Number	Description
UERCP2	5 Pin Amphenol Plug

Kit Order Codes

Part Number	Description
UERCP3	6 Pin Amphenol Plug

Kit Order Codes

Part Number	Description
UERCP4	14 Pin Amphenol Plug

Kit Order Codes

Part Number	Description
UERCP6	8 Pin Amphenol Plug
UERCP6-5	5 Pin Amphenol Plug

Kit Order Codes

Part Number	Description
UERCP7	3 Pin Tuchel Plug

Kit Order Codes

Part Number	Description
UERCP8	9 Pin Tuchel Plug

Kit Order Codes

Part Number	Description
UERCP9	5 Pin Tuchel Plug

Kit Order Codes

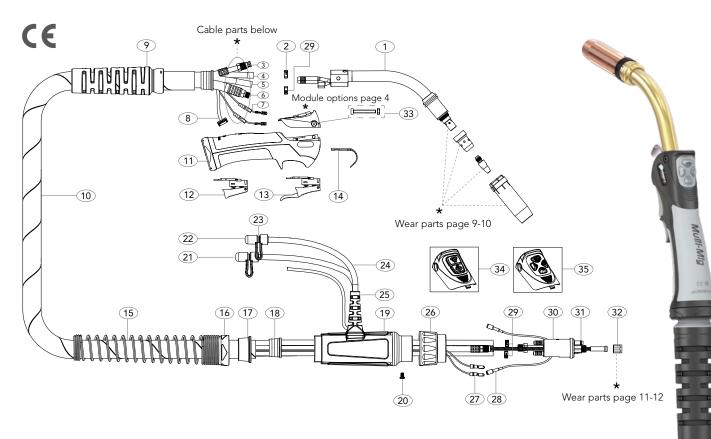
Part Number	Description
UERCP11	7 Pin Uniarc Plug

Kit Order Codes

Part Number	Description
UXS12-J3P	3 Pin Plug

MM401W Machine Control Analogue Liquid-Cooled Mig Welding Torch Rating: 400A CO₂ 350A mixed gas M21, EN60974-7 @ 100% duty cycle. 0.8 to 1.2mm wires





MODEL

Description	Part Number		
	3mt	4mt	5mt
Analogue Torch Package	MM4001-AM1-MT1-30ER	MM4001-AM1-MT1-40ER	MM4001-AM1-MT1-50ER

SPARE PARTS

	Part Number	Description
1	UG4011	Swan Neck
2	15400020	Hose Clamp 8.7mm
9	UG3208	Handle Cable Support c/w Ball Joint
10	UM4006-30	Cable Assembly x 3mt
	UM4006-40	Cable Assembly x 4mt
	UM4006-50	Cable Assembly x 5mt
11	MT2514-KJ	Handle Kit c/w Lock Nut
12	DMN2516M	Standard Trigger
13	DMN2516LM	Extended Trigger
14	UB2517	Hanger Hook (Optional Extra)
15	UC8027	Housing Spring
16	UT8028	Spring Cable Support Nut
17	UT8009	Canvas Cover Clamp
18	UG8010	Canvas Cover Retainer Small
19	UT5022	Large Housing
20	UB1526	Gun Plug Screw
21	UBD-80310	Blue Cap Stopper
22	UBD-80320	Red Cap Stopper
23	UB5023A	Water Hose Nipple
24	UB5017	Water Outlet Hose
25	USLH1820-S	Inlet/Outlet Hose Support
26	UB1519/S	Gun Plug Nut
27	UB1522	Cable Terminal Male

	Part Number	Description
28	UB1523	Gun Plug Terminal Female
29	15400023	Water Hose Clamp 10.0mm
30	UB5098	Gun Plug Body c/w Spring Pins
31	UB1524	Gun Plug 'O' Ring
32	UB1525	Liner Nut
33	UDMNS	Screw Kit
34	UNAM1	2 Way Control Module
35	UNAM2	4 Way Control Module

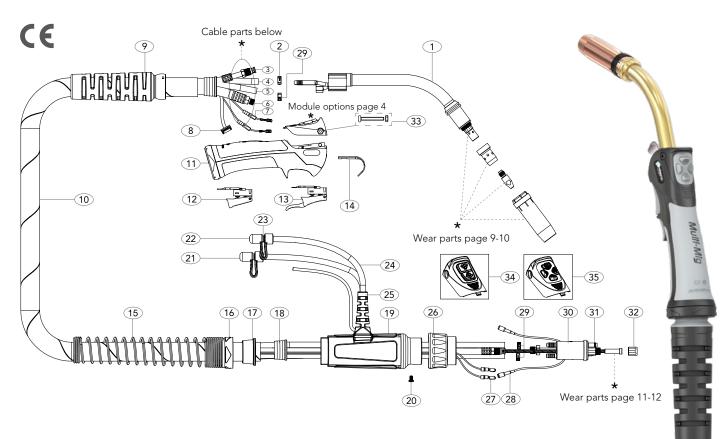
CABLE PARTS

	Part Number	Description		
		3mt	4mt	5mt
3	Outer Liner Assembly	UC5008-30	UC5008-40	UC5 <mark>00</mark> 8-50
4	Gas Hose Assembly	UB5013-30	UB5013-40	UB5013-50
5	Water Inlet Hose Assembly	UB5012-30	UB5012-40	UB5012-50
6	Power Cable Assembly	UB4015-30	UB4015-40	UB4015-50
7	Switch Lead Assembly	UB5010-30	UB5010-40	UB5010-50
8	Control Wire Assembly	UMSWLN3	UMSWLN4	UMSWLN5

All products conform to EN60974-7, $\pmb{\zeta}$ and are RoHS2, REACH and WEEE compliant



MM501W Machine Control Analogue Liquid-Cooled Mig Welding Torch Rating: $500A CO_2 450A$ mixed gas M21, EN60974-7 @ 100% duty cycle. 1.0 to 1.6mm wires



MODEL

Description	Part Number		
	3mt	4mt	5mt
Analogue Torch Package	MM5000-AM1-MT1-30ER	MM5000-AM1-MT1-40ER	MM5000-AM1-MT1-50ER

SPARE PARTS

	Part Number	Description
1	UG5002	Swan Neck
2	15400020	Hose Clamp 8.7mm
9	UG3208	Handle Cable Support c/w Ball Joint
10	UM5006-30	Cable Assembly x 3mt
	UM5006-40	Cable Assembly x 4mt
	UM5006-50	Cable Assembly x 5mt
11	MT2514/KJ	Handle Kit c/w Lock Nut
12	DMN2516M	Standard Trigger
13	DMN2516LM	Extended Trigger
14	UB2517	Hanger Hook (Optional Extra)
15	UC8027	Housing Spring
16	UT8028	Spring Cable Support Nut
17	UT8009	Canvas Cover Clamp
18	UG8010	Canvas Cover Retainer Small
19	UT5022	Large Housing
20	UB1526	Gun Plug Screw
21	UBD-80310	Blue Cap Stopper
22	UBD-80320	Red Cap Stopper
23	UB5023A	Water Hose Nipple
24	UB5017	Water Outlet Hose
25	USLH1820-S	Inlet/Outlet Hose Support
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33	UDMNS	Screw Kit
34	UNAM1	2 Way Control Module
35	UNAM2	4 Way Control Module

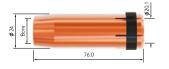
CABLE PARTS

	Part Number	Description		
		3mt	4mt	5mt
3	Outer Liner Assembly	UC5008-30	UC5008-40	UC5008-50
4	Gas Hose Assembly	UB5013-30	UB5013-40	UB5013-50
5	Water Inlet Hose Assembly	UB5012-30	UB5012-40	UB5012-50
6	Power Cable Assembly	UB5015-30	UB5015-40	UB5015-50
7	Switch Lead Assembly	UB5010-30	UB5010-40	UB5010-50
8	Control Wire Assembly	UMSWLN3	UMSWLN4	UMSWLN5
-				No.

All products conform to EN60974-7, CE and are RoHS2, REACH and WEEE compliant

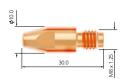




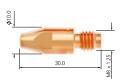


UB5027	Cylindrical Nozzle	19.5	2.5mm	Copper	• •
UB5028	Conical Nozzle	16.0	2.5mm	Copper	• •
UB5028HD	Conical Nozzle HD	16.0	3.2mm	Copper	• •
UB5029	Tapered Nozzle	14.0	2.5mm	Copper	• •

Contact	Tips			⁴⁰¹ W 501W
Part No.	Description	Material	Wire Size mm-inch	MMA



M8 x 30				
UB4014-08	Contact Tip	Ecu	0.8-0.030	• •
UB4014-09	Contact Tip	Ecu	0.9-0.035	• •
UB4014-10	Contact Tip	Ecu	1.0-0.040	• •
UB4014-12	Contact Tip	Ecu	1.2-0.045	• •
UB4014-14	Contact Tip	Ecu	1.4-0.055	• •
UB4014-16	Contact Tip	Ecu	1.6-1/16"	• •
UB4014-20	Contact Tip	Ecu	2.0-5/64"	• •
UB4014-24	Contact Tip	Ecu	2.4-3/32"	• •
UB4014-10A	Contact Tip	Ecu	1.0-0.040	• •
UB4014-12A	Contact Tip	Ecu	1.2-0.045	• •
UB4014-16A	Contact Tip	Ecu	1.6-1/16"	• •



M8 x 30				
1110 X 30				
UB4015-08	Contact Tip	CuCrZr	0.8-0.030	• •
UB4015-09	Contact Tip	CuCrZr	0.9-0.035	• •
UB4015-10	Contact Tip	CuCrZr	1.0-0.040	• •
UB4015-12	Contact Tip	CuCrZr	1.2-0.045	• •
UB4015-13	Contact Tip	CuCrZr	1.3-0.052	• •
UB4015-14	Contact Tip	CuCrZr	1.4-0.055	• •
UB4015-16	Contact Tip	CuCrZr	1.6-1/16"	• •
UB4015-20	Contact Tip	CuCrZr	2.0-5/64"	• •
UB4015-24	Contact Tip	CuCrZr	2.4-3/32"	• •
UB4015-10A	Contact Tip	CuCrZr	1.0-0.040	• •
UB4015-12A	Contact Tip	CuCrZr	1.2-0.045	• •
UB4015-16A	Contact Tip	CuCrZr	1.6-1/16"	• •

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







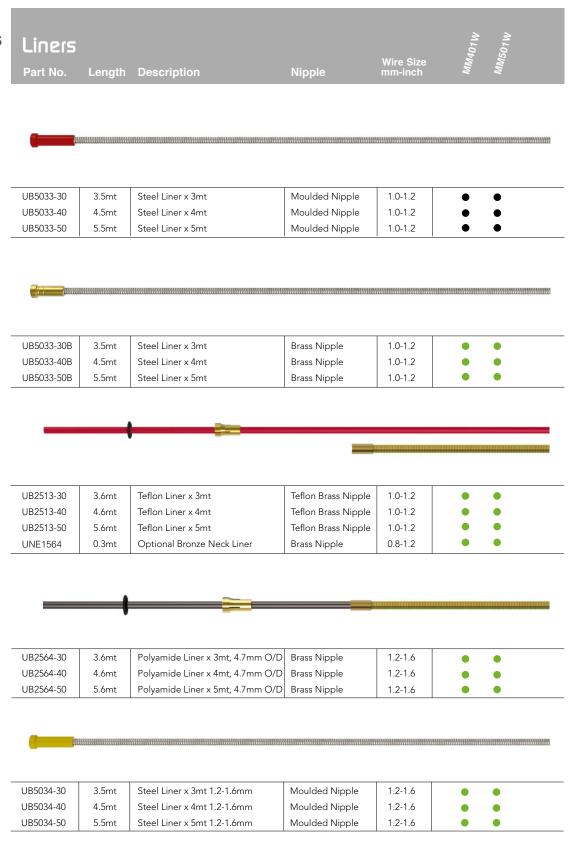
UB5001	Tip Adaptor 25.0mm M8	Brass	• •
UB5001C	Tip Adaptor 25.0mm M8	Copper	• •
UB5001L	Tip Adaptor Long	Brass	• •





UB5005B	Diffuser	Black	DMC3	• •
UB5005C	Diffuser	White	Ceramic	• •
UB5005H	Diffuser, High Temperature	Black	HPP	• •
UB5005W	Diffuser	White	DMC3	• •

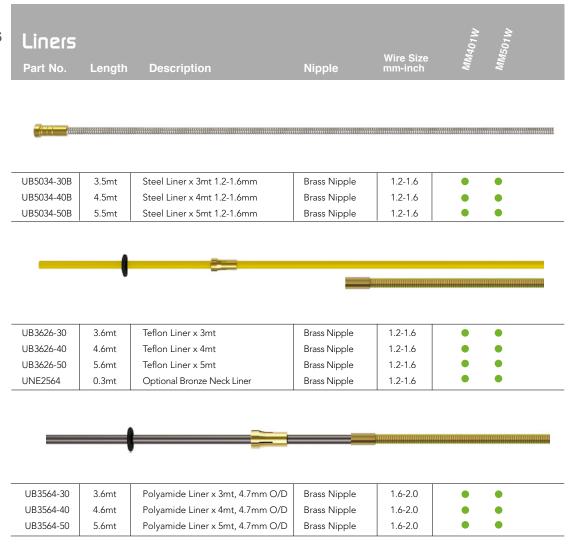




Standard wear part range

Torch package standard wear part set-up









Welding & Cutting Torch Technology

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