

Product Catalogue

Machine Control Digital Display 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 Digital Display Torch Range



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Machine Control Digital Display Air-Cooled Series

Features Focus

The Uniarc Digital Display Torch series offers high tech control of the welding machine parameters by digitally interfacing all control features from the torch handle. The handle readout displays all welding and machine parameters in 'real time'.

Hanger Hook

Fitted as standard they encourage the operator to hang the torch off the ground where it is easy to locate.

Trigger System

Rapid field servicing is ensured by a simple "plug and play" system, switches can be exchanged in 5 seconds without the use of tools.

Triggers are micro switch controlled and available as standard or extended options.

Signalling

All digital signalling is sent from the handle through the switch leads in standard cable assemblies and gun plug body pins to the machine.

Knuckle Joint and Cable Support

Small movements of the handle and neck are possible independent of the cable assembly. A moulded polymer cable support increases flexibility and electrode support.



Spring Pins

Fitted with unbreakable spring loaded gun plug body pins.

Pins carry all digital module switching signals.

Rear Cable Support

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

Digital Signalling

Control module signals are sent to the machine via standard switch wires and gun body pins



Consumable parts

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

Digital Display Ergo Handle System

A patented screwless design disassembles in 5 seconds for rapid maintenance.

Top and bottom grips ensure all day welder comfort.



Air-Cooled Cable Systems

Cable assemblies offer outstanding flexibility and the highest heat and abrasion resistance of any known cable.

The outer jacket is constructed from cross-linked polymers providing a tear proof outer with a burn threshold of 375°C.



Gun Plug Housing

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 Digital Display Liquid-Cooled Series



Features Focus

Hanger Hook

Fitted as standard they encourage the operator to hang the torch off the ground where it is easy to locate.

Trigger System

Rapid field servicing is ensured by a simple "plug and play" system, switches can be exchanged in 5 seconds without the use of tools.

Triggers are micro switch controlled and available as standard or extended options.

Knuckle Joint and Cable Support

Small movements of the handle and neck are possible independent of the cable assembly. A moulded polymer cable support increases flexibility and electrode support.



Spring Pins

Fitted with unbreakable spring loaded gun plug body pins.

Gun Plug Housing

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



Swan Necks

Manufactured to the same specification as the OEM.

Liquid-Cooled 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.



Rear Cable Support

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

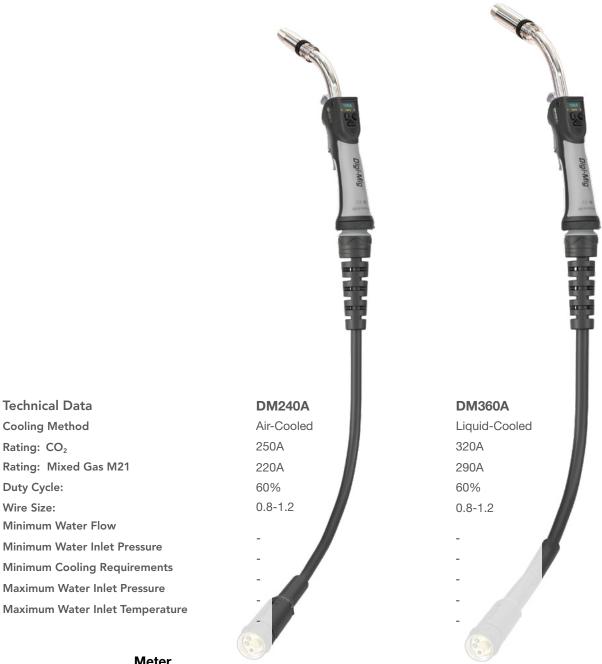
Water In/Out Supports

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



Machine Control Digital Display Torch Range

Ratings: 220 Amp to 350 Amp, Mixed Gas M21



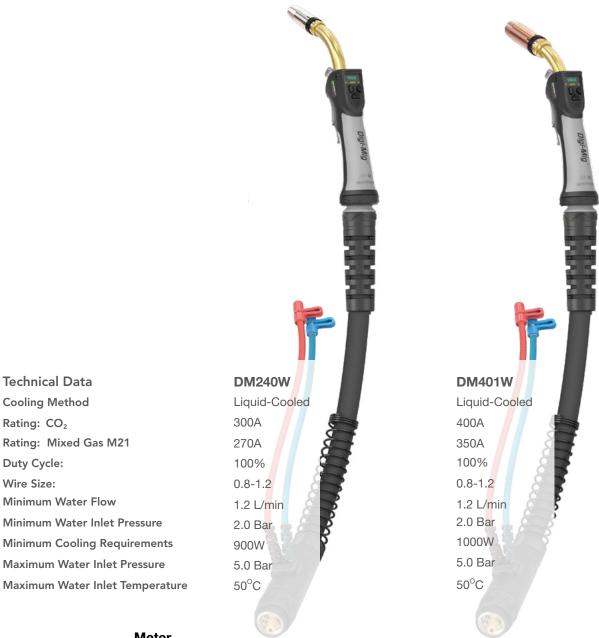
Meter

	3mt	DM2400-DM4-MT1-30ER	DM3600-DM4-MT1-30ER	
Order Codes	4mt	DM2400-DM4-MT1-40ER	DM3600-DM4-MT1-40ER	
	5mt	DM2400-DM4-MT1-50ER	DM3600-DM4-MT1-50ER	

Machine Control Digital Display Torch Range



Ratings: 220 Amp to 350 Amp, Mixed Gas M21



Meter

	3mt	DM2400W-DM4-MT1-30ER	DM4001W-DM4-MT1-30ER
Order Codes	4mt	DM2400W-DM4-MT1-40ER	DM4001W-DM4-MT1-40ER
	5mt	DM2400W-DM4-MT1-50ER	DM4001W-DM4-MT1-50ER



Digital Display Torch Control Handle and Modules Explained

Digital Display Torch Control

All control module signalling to the machine is sent via the trigger leads and gun plug body pins. Digital signalling requires software systems integration in collaboration with equipment manufacturers.



Control Module UNDM4

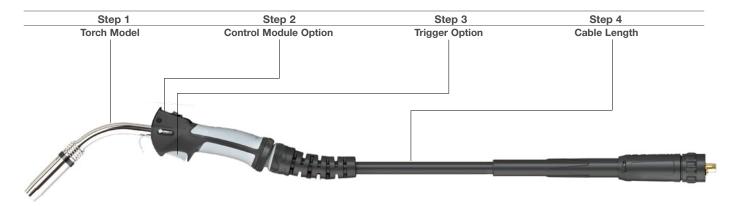
Function:

ON / OFF Switch, On/Off Illumination, Job Mode / Parameter Display, Up Down Mouse Control

Wiring Method available on request please contact info@uniarctorchology.com

Machine Control Digital Display Torch Range Torch Package Configurator





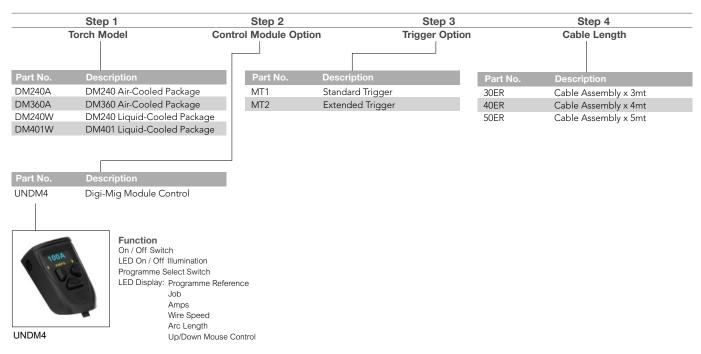
Ordering Information

Torch package part numbering is configured using the simple 4 stage system outlined below:

- 1. Select the correct model of torch
- 2. Select the control module required
- 3. Select the trigger type
- 4. Select the cable length required

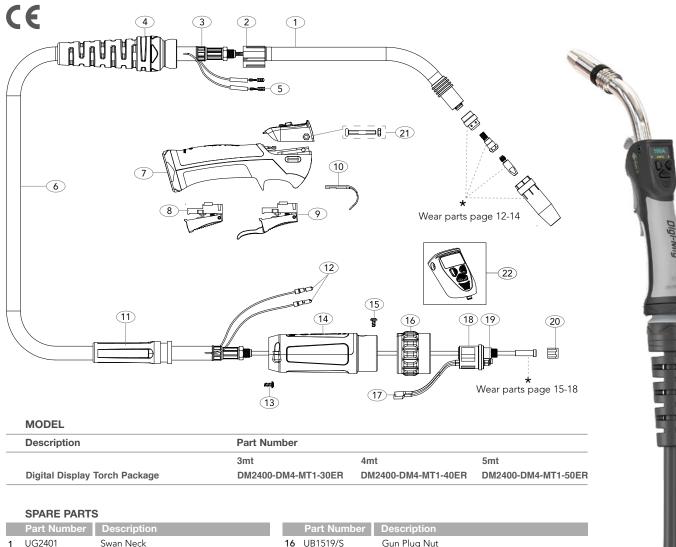
Example: DM2400-DM4-MT1-30ER

Digital Display 240A Air-Cooled Torch Package c/w digital display control and standard trigger x 3mt





DM240A Machine Control Digital Display Air-Cooled Mig Welding Torch Rating: 250A CO₂ 220A mixed gas M21, EN60974-7 @ 60% duty cycle. 0.8 to 1.2mm wires

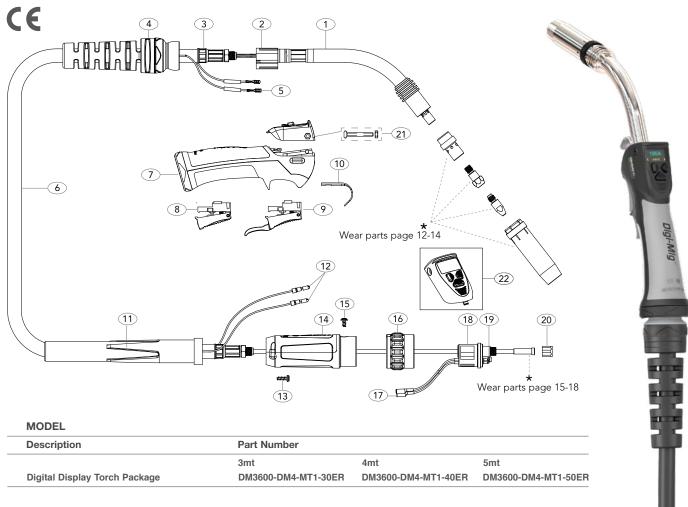


	Part Number	Description		
1	UG2401	Swan Neck		
2	UG1515	Ergo Handle Location Body		
3	UB1505	Lock Nut		
4	UG8015	Handle Cable Support c/w Ball Joint		
5	UB1521	Cable Terminal		
6	UB2603-30	Cable Assembly x 3mt		
	UB2603-40	Cable Assembly x 4mt		
	UB2603-50	Cable Assembly x 5mt		
7	DM2514/KJ	Digital Handle Kit c/w wiring harness		
8	DMN2516M	Standard Trigger		
9	DMN2516LM	Extended Trigger		
10	UB2517	Hanger Hook (Optional Extra)		
11	UC2841	Cable Support		
12	UB1522	Cable Terminal Male		
13	SCSP1-1	Gun Plug Housing Screw		
14	SC2578/S	Gun Plug Housing		
15	UBL1541	Gun Plug Screw		

	Part Number	Description
16	UB1519/S	Gun Plug Nut
17	UB1523	Gun Plug Terminal Female
18	UC1528	Hybrid Gun Plug Body c/w Spring Pins
19	UB1524	Gun Plug 'O' Ring
20	UB1525	Liner Nut
21	UDMNS	Screw Kit
22	UNDM4	Digital Display Module

DM360A Machine Control Digital Display Air-Cooled Mig Welding Torch Rating: 320A CO₂ 290A mixed gas M21, EN60974-7 @ 60% duty cycle. 0.8 to 1.2mm wires





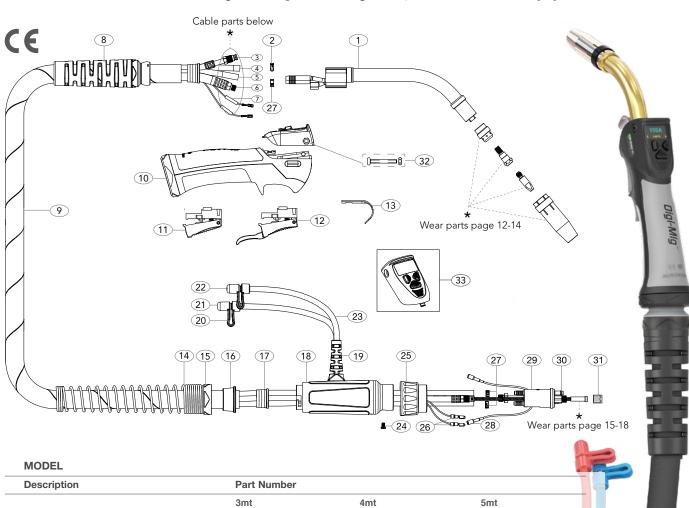
SPARE PARTS

	Part Number	Description	
1	UG3603	Swan Neck	
2	UG1515	Ergo Handle Location Body	
3	UB1505	Lock Nut	
4	UG8016	Handle Cable Support c/w Ball Joint	
5	UB1521	Cable Terminal	
6	UB3609-30	Cable Assembly x 3mt	
	UB3609-40	Cable Assembly x 4mt	
	UB3609-50	Cable Assembly x 5mt	
7	DM2514/KJ	Digital Handle Kit c/w wiring harness	
8	DMN2516M	Standard Trigger	
9	DMN2516LM	Extended Trigger	
10	UB2517	Hanger Hook (Optional Extra)	
11	UPA3541	Cable Support	
12	UB1522	Cable Terminal Male	
13	SCSP1-1	Gun Plug Housing Screw	
14	SC2578/L	Gun Plug Housing	
15	UBL1541	Gun Plug Screw	

	Part Number	Description
16	UC1519/S	Gun Plug Nut
17	UB1523	Gun Plug Terminal Female
18	UC1528	Hybrid Gun Plug Body c/w Spring Pins
19	UB1524	Gun Plug 'O' Ring
20	UB1525	Liner Nut
21	UDMNS	Screw Kit
22	UNDM4	Digital Display Module



DM240W Machine Control Digital Display Liquid-Cooled Mig Welding Torch Rating: 300A CO₂ 270A mixed gas M21, EN60974-7 @ 100% duty cycle. 0.8 to 1.2mm wires



Description	Part Number		Ę	
	3mt	4mt	5mt	
Digital Display Torch Package	DM2400W-DM4-MT1-30ER	DM2400W-DM4-MT1-40ER	DM2400W-DM4-MT1-50EF	3

SPARE PARTS

	Part Number	Description	
1	UG2409	Swan Neck	
2	15400020	Hose Clamp 8.7mm	
8	UG3208	Handle Cable Support c/w Ball Joint	
9	UG4006C-30	Cable Assembly x 3mt	
	UG4006C-40	Cable Assembly x 4mt	
	UG4006C-50	Cable Assembly x 5mt	
10	DM2514/KJ	Digital Handle Kit c/w wiring harness	
11	DMN2516M	Standard Trigger	
12	DMN2516LM	Extended Trigger	
13	UB2517	Hanger Hook (Optional Extra)	
14	UC8027	Housing Spring	
15	UT8028	Spring Cable Support Nut	
16	UT8009	Canvas Cover Clamp	
17	UG8010	Canvas Cover Retainer Small	
18	UT5022	Large Housing	
19	USLH1820-S	Inlet/Outlet Hose Support	
20	UB5023A	Water Hose Nipple	
21	UBD-80320	Red Cap Stopper	
22	UBD-80310	Blue Cap Stopper	
23	UB5017	Water Outlet Hose	
24	UB1526	Gun Plug Screw	
25	UB1519/S	Gun Plug Nut	
26	UB1522	Cable Terminal Male	

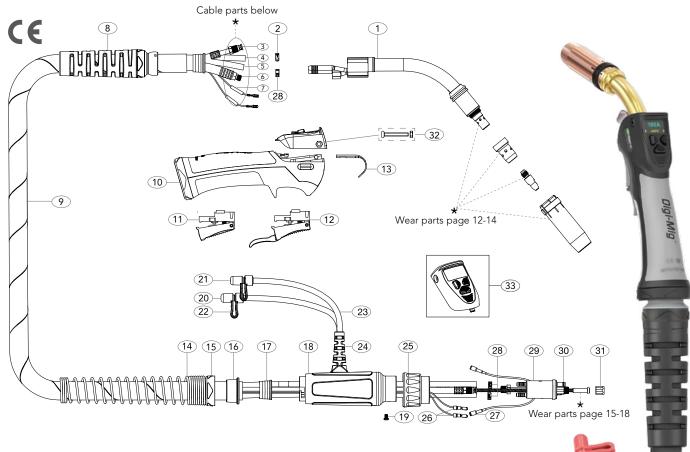
	Part Number	Description
27	15400023	Water Hose Clamp 10.0mm
28	UB1523	Gun Plug Terminal Female
29	UB5098	Gun Plug Body c/w Spring Pins
30	UB1524	Gun Plug 'O' Ring
31	UB1525	Liner Nut
32	UDMNS	Screw Kit
33	UNDM4	Digital Display Module

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	UB4015-30	UB4015-40	UB4015-50
7	Switch Lead Assembly	UB5010M-30	UB5010M-40	UB5010M-50

DM401W Machine Control Digital Display 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
Digital Display Torch Package	DM4001W-DM4-MT1-30ER	DM4001W-DM4-MT1-40ER	DM4001W-DM4-MT1-50ER

SPARE PARTS

	Part Number	Description
1	UG4011	Swan Neck
2	15400020	Hose Clamp 8.7mm
8	UG3208	Handle Cable Support c/w Ball Joint
9	UG4006C-30	Cable Assembly x 3mt
	UG4006C-40	Cable Assembly x 4mt
	UG4006C-50	Cable Assembly x 5mt
10	DM2514/KJ	Digital Handle Kit c/w wiring harness
11	DMN2516M	Standard Trigger
12	DMN2516LM	Extended Trigger
13	UB2517	Hanger Hook (Optional Extra)
14	UC8027	Housing Spring
15	UT8028	Spring Cable Support Nut
16	UT8009	Canvas Cover Clamp
17	UG8010	Canvas Cover Retainer Small
18	UT5022	Large Housing
19	UB1526	Gun Plug Screw
20	UBD-80310	Blue Cap Stopper
21	UBD-80320	Red Cap Stopper
22	UB5023A	Water Hose Nipple
23	UB5017	Water Outlet Hose
24	USLH1820-S	Inlet/Outlet Hose Support
25	UB1519/S	Gun Plug Nut
26	UB1522	Cable Terminal Male

	Part Number	Description
27	UB1523	Gun Plug Terminal Female
28	15400023	Water Hose Clamp 10.0mm
29	UB5098	Gun Plug Body c/w Spring Pins
30	UB1524	Gun Plug 'O' Ring
31	UB1525	Liner Nut
32	UDMNS	Screw Kit
33	UNDM4	Digital Display Module

CABLE PARTS

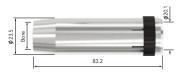
	Part Number	Description		
		3mt	4mt	5mt
3	Outer Liner Assembly	UC5008-30	UC5008-40	UC5008-50
4	Gas Hose Assembly	UB5013-30	UB5013-40	UB5013-50
5	Water Inlet Hose Assembly	UB5012-30	UB5012-40	UB5012-50
6	Power Cable Assembly	UB4015-30	UB4015-40	UB4015-50
7	Switch Lead Assembly	UB5010M-30	UB5010M-40	UB5010M-50



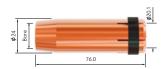




UB2415	Cylindrical Nozzle	17.2	1.4mm	Copper	•	•	
UB2416	Conical Nozzle	12.6	1.4mm	Copper	•	•	
UB2417	Tapered Nozzle	10.0	1.4mm	Copper			



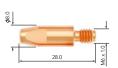
UB3615	Cylindrical Nozzle	19.0	2.25mm	Copper		•	
UB3616	Conical Nozzle	16.1	2.25mm	Copper	•	•	
UB3617	Tapered Nozzle	12.0	2.25mm	Copper			



UB5027	Cylindrical Nozzle	19.0	2.5mm	Copper		
UB5028	Conical Nozzle	16.0	2.5mm	Copper		•
UB5028HD	Conical Nozzle	16.0	3.2mm	Copper		
UB5029	Tapered Nozzle	14.0	2.5mm	Copper		

Wear Parts





M6 x 28					
UB2504-06	Contact Tip	Ecu	0.6-0.023	• •	
UB2504-08	Contact Tip	Ecu	0.8-0.030	• • •	
UB2504-09	Contact Tip	Ecu	0.9-0.035	• • •	
UB2504-10	Contact Tip	Ecu	1.0-0.040	• • •	
UB2504-12	Contact Tip	Ecu	1.2-0.045	• • •	
UB2504-14	Contact Tip	Ecu	1.4-0.055	• • •	
UB2504-16	Contact Tip	Ecu	1.6-1/16"	• • •	
UB2504-08A	Contact Tip	Ecu	0.8-0.030	• • •	
UB2504-09A	Contact Tip	Ecu	0.9-0.035	• • •	
UB2504-10A	Contact Tip	Ecu	1.0-0.040	• • •	
UB2504-12A	Contact Tip	Ecu	1.2-0.045	• • •	
UB2504-16A	Contact Tip	Ecu	1.6-1/16"	• •	

Standard wear part range

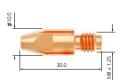
Torch package standard wear part set-up



Contact Tips



M6 x 28						
UB2505-08	Contact Tip	CuCrZr	0.8-0.030	•		•
UB2505-09	Contact Tip	CuCrZr	0.9-0.035	•		
UB2505-10	Contact Tip	CuCrZr	1.0-0.040	•		
UB2505-12	Contact Tip	CuCrZr	1.2-0.045	•		
UB2505-16	Contact Tip	CuCrZr	1.6-1/16"	•		
UB2505-10A	Contact Tip	CuCrZr	1.0-0.040	•		
UB2505-12A	Contact Tip	CuCrZr	1.2-0.045	•		
UB2505-16A	Contact Tip	CuCrZr	1.6-1/16"	•		



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					
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







UB2412	Tip Adaptor	Brass	•	•	•



UB3612	Tip Adaptor 28.5mm M6	Brass		•	
UB3613	Tip Adaptor 31.5mm M6	Brass			
UB3614	Tip Adaptor 28.5mm M8	Brass		•	



UB5001	Tip Adaptor 25mm M8	Brass			•
UB5001C	Tip Adaptor 25mm M8	CuCrZr			
UB5001L	Tip Adaptor Long	Brass			

Wear Parts





UB2405B	Diffuser	Black	DMC3	•		
UB2405C	Diffuser	White	Ceramic		•	
UB2405W	Diffuser	White	DMC3			
UB2405S	Diffuser	Red	Silicon			



UB3605B	Diffuser	Black	DMC3		•	
UB3605C	Diffuser	White	Ceramic			
UB3605H	Diffuser, High Temperature	White	HPP			
UB3605W	Diffuser	White	DMC3			

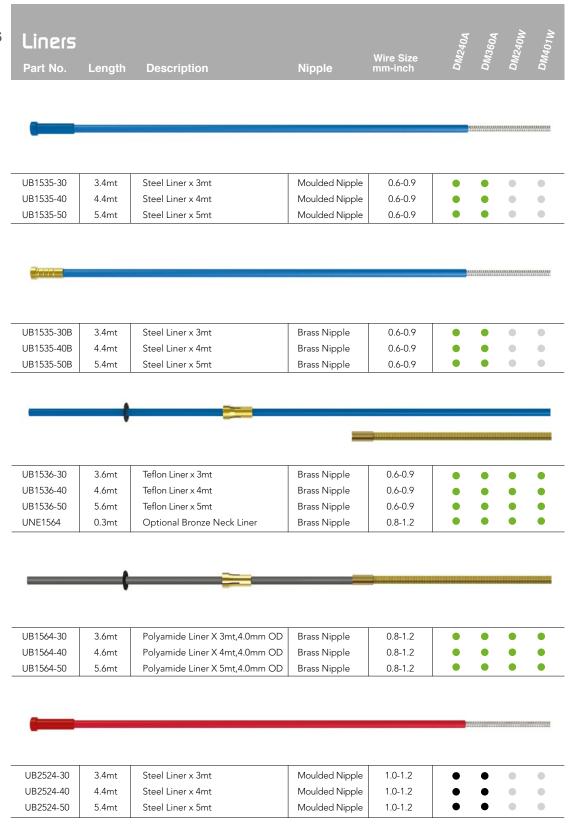


UB5005B	Diffuser	Black	DMC3			•
UB5005C	Diffuser	White	Ceramic			•
UB5005H	Diffuser, High Temperature	Black	HPP			
UB5005W	Diffuser	White	DMC3			

Standard wear part range

Torch package standard wear part set-up

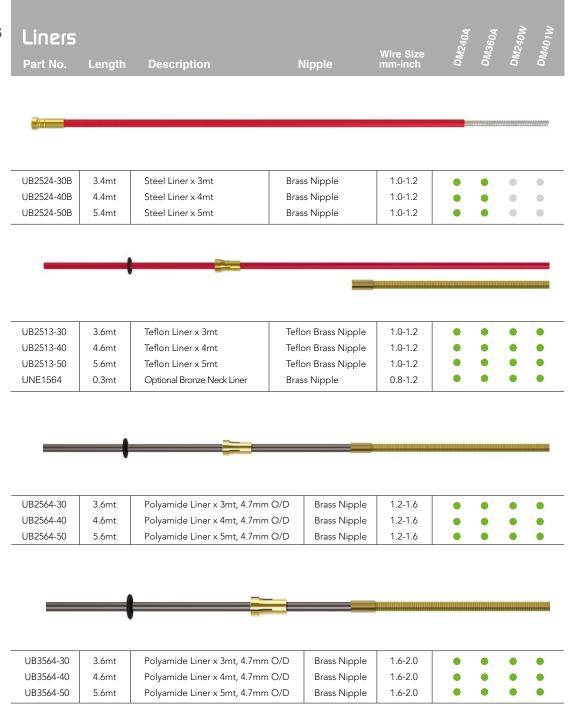




Standard wear part range

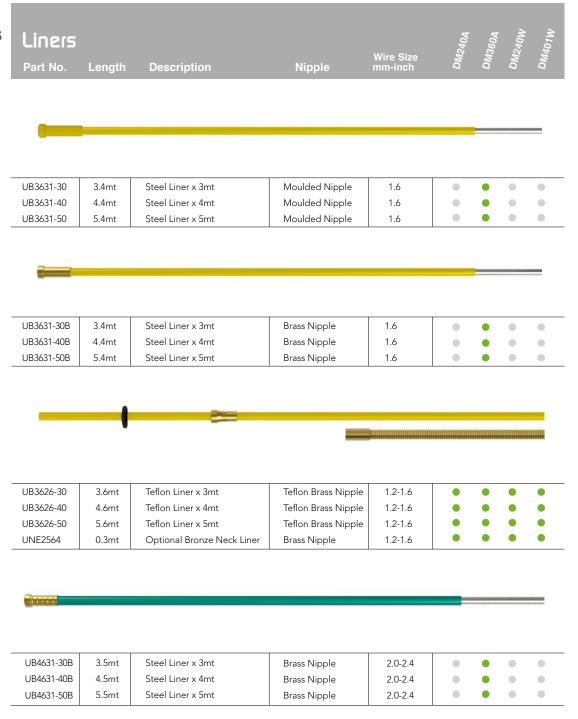
Torch package standard wear part set-up





Torch package standard wear part set-up

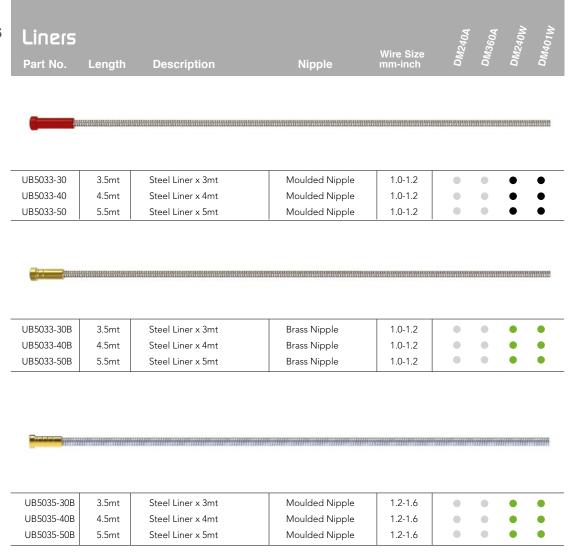




Standard wear part range

Torch package standard wear part set-up









Welding & Cutting Torch Technology

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