

SUREGRIP MULTI-MIG
MIG/MAG SERIES



Welding Tools for the Professional

A Smart Approach

Parker Torchology is shaped by people with vision, a passion for improvement and a belief in delivering the very best Welding and Cutting Torch Range in the World.

We expect a great deal from our products, so we ask a lot of ourselves and our engineers.

Our mantra: **Innovation, Technology, Performance.**



DNA

Design and Engineering excellence are at the core of everything we do.

Every torch we build is driven by our relentless pursuit of perfection.

Premium Features

At Parker Torchology we do things differently, we strive to solve your problems with the perfect product to suit your needs. We create smart product features encased in cutting-edge design to ensure you always have the best tools to hand.





Production

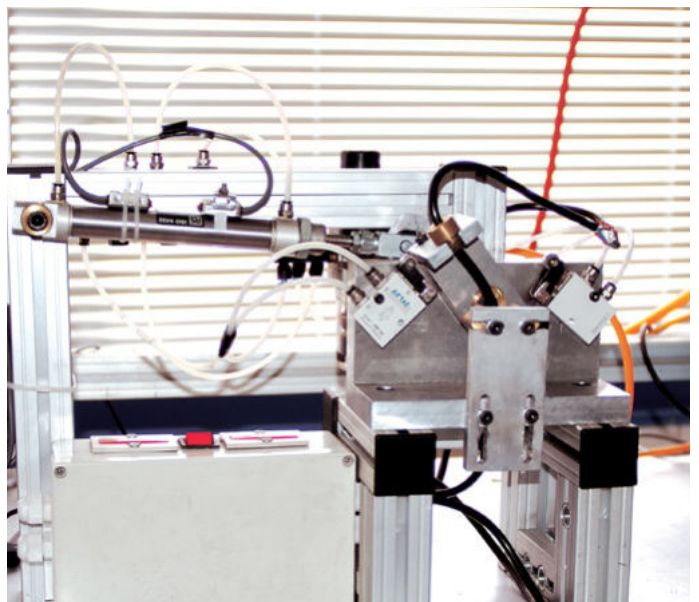
A fusion of precision production engineering, our bespoke processing techniques and a fanatical attention to detail ensures every welding torch we produce is worthy of the Parker Torchology name.

Testing, Testing, Testing

It takes patience to develop a new product, it's a lot more than a great idea.

Product development is an iterative process, trying something over and over, changing one small variable at a time.

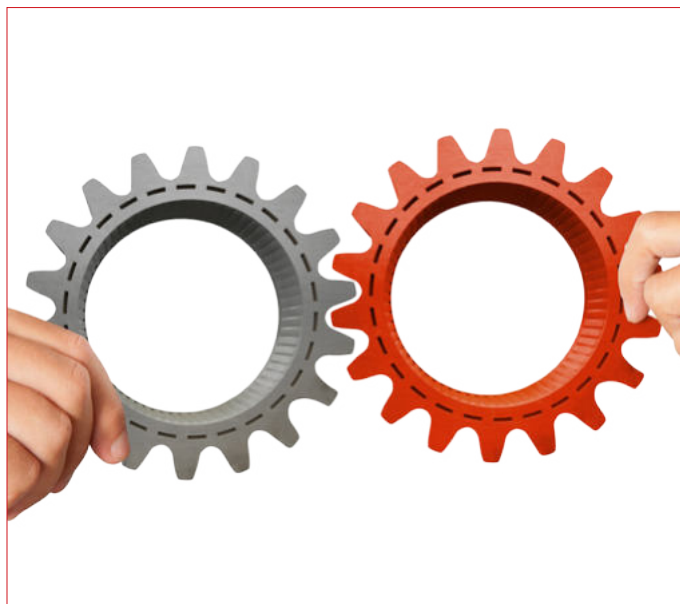
We build endless prototypes and test pieces that undergo months of rigorous testing. Only once a product has passed up to 88 different test procedures, with every single part tested separately do we consider our latest designs ready for market.



Partners

Our customers and business partners play a vital role in our development. With the core aim to strive together, we work with end users, distributors and academic institutions alike.

As a result we share fundamental values in order to succeed in our respective market places, supporting economic growth and collaborative opportunities with others.



A Bright Future

Technology doesn't stand still, which is why we are constantly innovating to bring you the best products on the market.

Our strong vision and focused innovation strategy, not to mention our passion to revolutionize the industry, ensure that Parker Torchology is a byword for excellence.

We Talk Torches

Contents

	Suregrip Multi-Mig/Mag Torch Range Feature Focus	6
	Suregrip Multi-Mig/Mag Torch Range Overview and Ratings	10
	Multi-Mig Specification Information	
	Switch Wire Plugs	12
	Torch Package Configurator	13
	Torch Range	
Air-Cooled	Suregrip Multi-Mig/Mag MMB 240A	14
	Suregrip Multi-Mig/Mag MMB 260A	15
	Suregrip Multi-Mig/Mag MMB 360A	16
Liquid-Cooled	Suregrip Multi-Mig/Mag MMB 401W	17
	Suregrip Multi-Mig/Mag MMB 501W	18
	Suregrip Multi-Mig/Mag MMB 555W	19
	Suregrip Multi-Mig/Mag MMB 605W	20
	Wear Parts	
	Nozzles	21
	Nozzles Adaptors	21
	Contact Tips	22
	Tip Adaptors	23
	Diffusers	24
	Liners	25
	Rear-End Spare Parts	29

Suregrip Multi-Mig/Mag Torch Range

Air-Cooled Features Focus

Air-Cooled

An analogue controlled series of Mig torches offering 2 and 4 way control directly from the handle.

Preset Programme Control



100% Binzel® Wear Parts Compatibility Guaranteed

Quality Wear Parts

All wear parts are manufactured to the same specification as the original manufacturer ensuring reliability, longevity and superior performance

- Contact tips are manufactured using high quality copper alloys
- Standard and high-performance options are available for tip adaptors, diffusers and swan necks

Ergonomics - For Comfort and Handleability

Every detail has been considered to ensure the welder has the very best handling experience

- Screwless designed handle with maximized soft grips for improved balance and positionability
- Torch handles disassemble in 5 seconds for rapid fault analysis
- Handles engineered to prevent trapped wires
- The addition of a knuckle joint enables small movements of the handle and neck independently of the cable assembly
- Cable supports are designed to combine flexibility with smooth and consistent wire feed



Control Systems

Control of the welding machine parameters via analogue switching on the torch handle

- Welding programmes or parameter changes controlled via slave switches on the torch module
- All module signalling via a 5 core switch lead and separate control plug
- Easily interfaced to all existing analogue controlled equipment

Features Focus

Welding Tools for the Professional



ONE + PLUS SYSTEM

"Plug and Play" Configurability

One + Plus system configured to your exact needs

Control modules are fully interchangeable and plug and play on a common track system

- "Plug and play" switch interchangeability in seconds! - try it
- Options include: -
 - 2 way module Up / Down Control
 - 4 way module Up / Down Control x 2

Cable Assembly

Cable sets are produced from separate elements and housed in a durable canvas sheath



Ease of Maintenance

Functionality and ease of repair

- Screwless design solutions. Euro housing sets ensure minimum downtime and productivity – No tools required!
- The Euro body has been redesigned to improve gas seal integrity in Argon applications
- Our spring pins – often copied,,, can't be beaten

The Smart Way To Buy Welding and Cutting Tools



Suregrip Multi-Mig/Mag Torch Range

Liquid-Cooled Features Focus

Liquid-Cooled

An analogue controlled series of Mig torches offering 2 and 4 way control directly from the handle.

Preset Programme Control



100% Binzel® Wear Parts Compatibility Guaranteed

Premium Performance Wear Parts

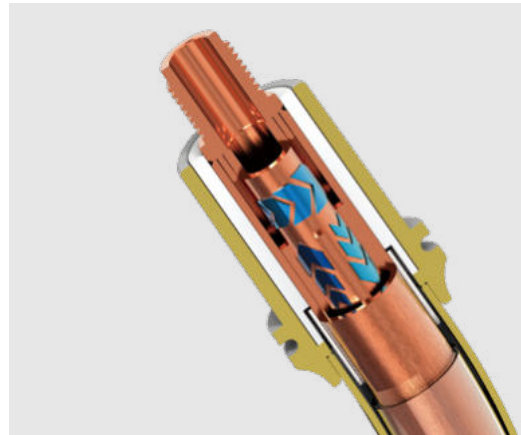
All front-end wear parts are manufactured to improve current transfer and increase component longevity and ensure superior performance

- Contact tips are manufactured from premium grade copper alloys; we don't sacrifice performance by using low end or recycled raw materials
- Optional high conductivity tip adaptors and heavy duty diffusers are available

Swan Necks

Engineered For Extended Service Life

- Chrome plated nozzle seat provides extra durability
- Tip adaptor seats produced from a special grade copper alloy for increased service life



Control Systems

Control of the welding machine parameters via analogue switching on the torch handle

- Welding programmes or parameter changes controlled via slave switches on the torch module
- All module signalling via a 5 core switch lead and separate control plug
- Easily interfaced to all existing analogue controlled equipment

Features Focus

Welding Tools for the Professional



ONE + PLUS SYSTEM

"Plug and Play" Configurability

One + Plus system configured to your exact needs

Control modules are fully interchangeable and plug and play on a common track system

- "Plug and play" switch interchangeability in seconds! - try it
- Options include: -
 - 2 way module Up / Down Control
 - 4 way module Up / Down Control x 2

Superior Flexibility and Durability

Hydroflex cable systems

- Cable set materials enhanced to increase service life
- High grade outer liner material prolongs flex life,,, over 1 million flexes in tests
- The copper conductor is coated to prevent premature corrosion from poor quality water and coolant additives



Ease of Maintenance

Functionality and ease of repair

- Screwless design solutions. Euro housing sets ensure minimum downtime and productivity – No tools required!
- The Euro body has been redesigned to improve gas seal integrity in Argon applications
- Our spring pins – often copied,,, can't be beaten

The Smart Way To Buy Welding and Cutting Tools



Suregrip Multi-Mig/Mag Torch Range

Ratings: 220 Amp to 550 Amp, Mixed Gas



Model	MMB 240A	MMB 260A	MMB 360A
-------	----------	----------	----------

Technical Data

Cooling Method	Air-Cooled	Air-Cooled	Air-Cooled
Rating: CO ₂	250A	270A	320A
Rating: Mixed Gas	220A	240A	290A
Rating: Pulse	-	-	-
Duty Cycle	60%	60%	60%
Wire Size	0.8-1.2	0.8-1.2	1.0-1.2
Minimum Water Flow	-	-	-
Minimum Water Inlet Pressure	-	-	-
Minimum Cooling Requirements	-	-	-
Maximum Water Inlet Pressure	-	-	-
Maximum Water Inlet Temperature	-	-	-

Order Codes	3mt	MMB2400-AM1-MT1-30ER	MMB2600-AM1-MT1-30ER	MMB3600-AM1-MT1-30ER
	4mt	MMB2400-AM1-MT1-40ER	MMB2600-AM1-MT1-40ER	MMB3600-AM1-MT1-40ER
	5mt	MMB2400-AM1-MT1-50ER	MMB2600-AM1-MT1-50ER	MMB3600-AM1-MT1-50ER

Suregrip Multi-Mig/Mag Torch Range

Ratings: 220 Amp to 550 Amp, Mixed Gas



Model	MMB 401W	MMB 501W	MMB 555W	MMB 605W
Technical Data				
Cooling Method	Liquid-Cooled	Liquid-Cooled	Liquid-Cooled	Liquid-Cooled
Rating: CO ₂	400A	500A	550A	600A
Rating: Mixed Gas	350A	450A	500A	550A
Rating: Pulse	-	-	400A	450A
Duty Cycle	100%	100%	100%	100%
Wire Size	0.8-1.2	1.0-1.6	1.0-1.6	1.0-1.6
Minimum Water Flow	1.2l/min	1.2l/min	1.2l/min	1.2l/min
Minimum Water Inlet Pressure	2.0Bar	2.0Bar	2.0Bar	2.0Bar
Minimum Cooling Requirements	1000W	1200W	1500W	1700W
Maximum Water Inlet Pressure	5.0Bar	5.0Bar	5.0Bar	5.0Bar
Maximum Water Inlet Temperature	50°C	50°C	50°C	50°C
Order Codes				
3mt	MMB4001-AM1-MT1-30ER	MMB5000-AM1-MT1-30ER	MMB5550-AM1-MT1-30ER	MMB6050-AM1-MT1-30ER
4mt	MMB4001-AM1-MT1-40ER	MMB5000-AM1-MT1-40ER	MMB5550-AM1-MT1-40ER	MMB6050-AM1-MT1-40ER
5mt	MMB4001-AM1-MT1-50ER	MMB5000-AM1-MT1-50ER	MMB5550-AM1-MT1-50ER	MMB6050-AM1-MT1-50ER



Kit Order Codes

Part No.	Description
PERCP0	2 Pin Amphenol Plug

Kit Order Codes

Part No.	Description
PERCP1	4 Pin Amphenol Plug

Kit Order Codes

Part No.	Description
PERCP2	5 Pin Amphenol Plug

Kit Order Codes

Part No.	Description
PERCP3	6 Pin Amphenol Plug

Kit Order Codes

Part No.	Description
PERCP4	14 Pin Amphenol Plug

Kit Order Codes

Part No.	Description
PERCP6	8 Pin Amphenol Plug
PERCP6-5	5 Pin Amphenol Plug

Kit Order Codes

Part No.	Description
PERCP7	3 Pin Tuchel Plug

Kit Order Codes

Part No.	Description
PERCP9	5 Pin Tuchel Plug

Kit Order Codes

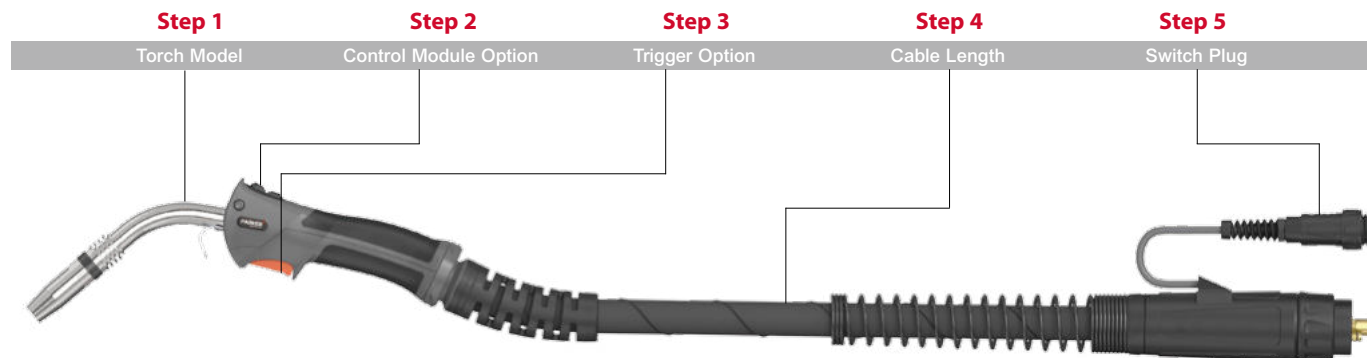
Part No.	Description
PERCP11	7 Pin Uniarc Plug

Kit Order Codes

Part No.	Description
PXS12-J3P	3 Pin Plug

Suregrip Multi-Mig/Mag 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: MMB2400-PAM1-MT1-30ER-PERCP11

Multi-Mig 240A Air-Cooled Torch Package c/w 2 way up/down control and standard trigger x 3mt

Step 1		Step 2		Step 3		Step 4		Step 5	
Torch Model		Control Module Option		Trigger Option		Cable Length		Switch Plug	
Part No.	Description			Part No.	Description			Part No.	Description
MMB2400	MMB240 Air-Cooled Package			MT1	Standard Trigger			PERCP0	2 Pin Amphenol Plug
MMB2600	MMB260 Air-Cooled Package			MT2	Extended Trigger			PERCP1	4 Pin Amphenol Plug
MMB3600	MMB360 Air-Cooled Package							PERCP2	5 Pin Amphenol Plug
MMB4001	MMB401 Liquid-Cooled Package			Part No.	Description			PERCP3	6 Pin Amphenol Plug
MMB5000	MMB501 Liquid-Cooled Package			30ER	Cable Assembly x 3mt			PERCP4	14 Pin Amphenol Plug
MMB5550	MMB555 Liquid-Cooled Package			40ER	Cable Assembly x 4mt			PERCP6	8 Pin Amphenol Plug
MMB6050	MMB605 Liquid-Cooled Package			50ER	Cable Assembly x 5mt			PERCP6-5	5 Pin Amphenol Plug
Part No.	Description							PERCP7	3 Pin Tuchel Plug
PAM1	2 Way Module Mig Control							PERCP9	5 Pin Tuchel Plug
PAM2	4 Way Module Mig Control							PERCP11	7 Pin Uniarc Plug
								PXS12-J3P	3 Pin Plug

FUNCTION:
Job Mode
Up/Down Control



PAM1

FUNCTION:
Job Mode
Up/Down Control x 2

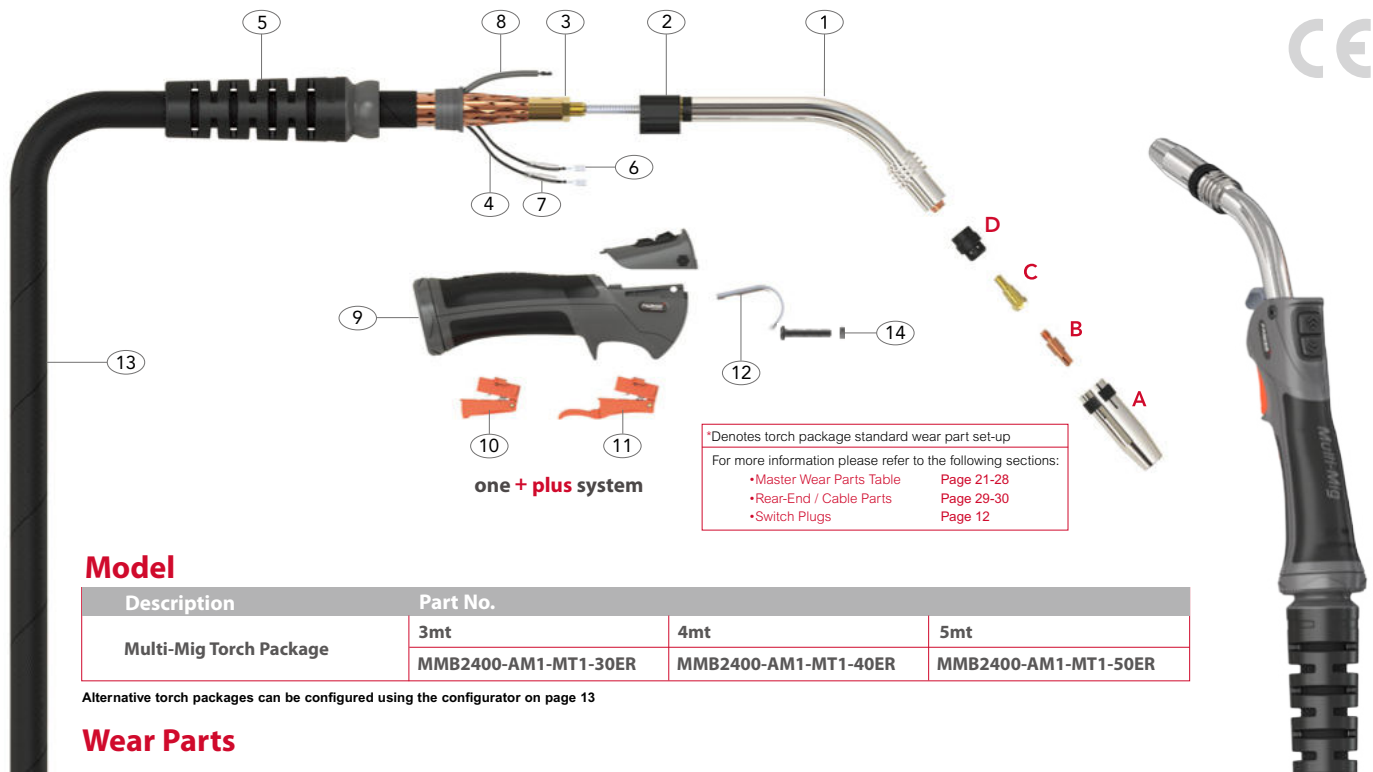


PAM2

MMB 240A Suregrip Multi-Mig/Mag Torch Range

Rating: 250A CO₂, 220A mixed gas, EN60974-7 @ 60% duty cycle. 0.8 to 1.2mm wires

Air-Cooled Mig Welding Torch



Model

Description	Part No.		
	3mt	4mt	5mt
Multi-Mig Torch Package	MMB2400-AM1-MT1-30ER	MMB2400-AM1-MT1-40ER	MMB2400-AM1-MT1-50ER

Alternative torch packages can be configured using the configurator on page 13

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
PB2415	Cylindrical Nozzle	17.2	1.40mm	Cu
*PB2416	Conical Nozzle	12.6	1.40mm	Cu
PB2417	Tapered Nozzle	10.0	1.40mm	Cu

B Contact Tips

Part No.	Description	Material	Wire Size	
			mm	Inch
PB2504-08	Contact Tip	Cu	0.8	0.030"
*PB2504-10	Contact Tip	Cu	1.0	0.040"
PB2504-12	Contact Tip	Cu	1.2	0.045"
PB2504-12A	Contact Tip	Cu	1.2	0.045"
PB2505-08	Contact Tip	CuCrZr	0.8	0.030"
PB2505-10	Contact Tip	CuCrZr	1.0	0.040"
PB2505-12	Contact Tip	CuCrZr	1.2	0.045"
PB2505-12A	Contact Tip	CuCrZr	1.2	0.045"

C Tip Adaptors

Part No.	Description	Material
*PB2412	Tip Adaptor	Brass

D Diffusers

Part No.	Description	Colour	Material
*PB2405B	Diffuser	Black	DMC3
PB2405C	Diffuser	White	Ceramic
PB2405W	Diffuser	White	DMC3
PB2405S	Diffuser	Red	Silicon

E Liner

Part No.	Description	Length	Wire Size
			mm
*PB2524-30	Steel Liner x 3mt	3.4mt	1.0-1.2
*PB2524-40	Steel Liner x 4mt	4.4mt	1.0-1.2
*PB2524-50	Steel Liner x 5mt	5.4mt	1.0-1.2

Spare Parts

Part No.	Description
1	PG2401 Swan Neck Assembly
2	PG1515 Ergo Handle Location Body
3	PB1505 Lock Nut
4	PS5010-30 Switch Lead Assembly x 3mt
	PS5010-40 Switch Lead Assembly x 4mt
	PS5010-50 Switch Lead Assembly x 5mt
5	PG3208 Handle Cable Support
6	PB1521 Cable Terminal
7	PB1521-C Cable Terminal Cover
8	UMSWL3 Control Wire Assembly x 3mt
	UMSWL4 Control Wire Assembly x 4mt
	UMSWL5 Control Wire Assembly x 5mt
9	MT2514/KJ Multi-Mig Handle Kit
10	DGB2516 Standard Trigger Assembly
11	DGB2516L Extended Trigger Assembly
12	PB2517 Hanger Hook
13	PM2403-30 Canvas Cover Assembly x 3mt
	PM2403-40 Canvas Cover Assembly x 4mt
	PM2403-50 Canvas Cover Assembly x 5mt
14	PDMNS Module Retaining Screw

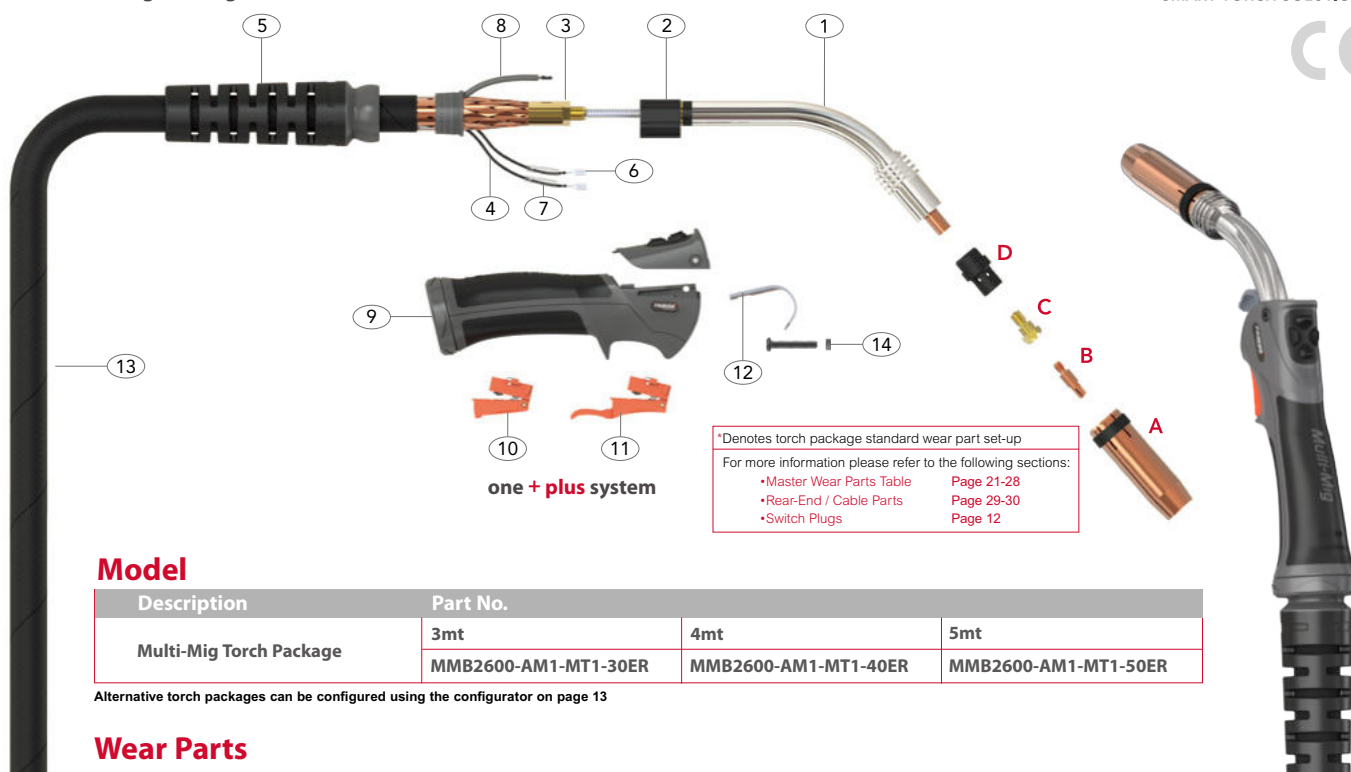


MMB 260A Suregrip Multi-Mig/Mag Torch Range

Rating: 270A CO₂, 240A mixed gas, EN60974-7 @ 60% duty cycle. 0.8 to 1.2mm wires

Air-Cooled Mig Welding Torch

PARKER
TORCHOLOGY
SMART TORCH SOLUTIONS



Model

Description	Part No.		
	3mt	4mt	5mt
Multi-Mig Torch Package	MMB2600-AM1-MT1-30ER	MMB2600-AM1-MT1-40ER	MMB2600-AM1-MT1-50ER

Alternative torch packages can be configured using the configurator on page 13

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
PB5027	Cylindrical Nozzle	19.0	2.25mm	Cu
*PB5028	Conical Nozzle	16.0	2.25mm	Cu
PB5028HD	Conical Nozzle	16.0	3.20mm	Cu
PB5029	Tapered Nozzle	14.0	2.25mm	Cu

B Contact Tips

Part No.	Description	Material	Wire Size	
			mm	Inch
PB2504-08	Contact Tip	Cu	0.8	0.030"
PB2504-10	Contact Tip	Cu	1.0	0.040"
*PB2504-12	Contact Tip	Cu	1.2	0.045"
PB2504-12A	Contact Tip	Cu	1.2	0.045"
PB2505-08	Contact Tip	CuCrZr	0.8	0.030"
PB2505-10	Contact Tip	CuCrZr	1.0	0.040"
PB2505-12	Contact Tip	CuCrZr	1.2	0.045"
PB2505-12A	Contact Tip	CuCrZr	1.2	0.045"

C Tip Adaptors

Part No.	Description	Material
*PB2612	Tip Adaptor	Brass
PB2612M8	Tip Adaptor	Brass

D Diffusers

Part No.	Description	Colour	Material
*PB2605B	Diffuser	Black	DM3
PB2605W	Diffuser	White	DM3

E Liner

Part No.	Description	Length	Wire Size
			mm
*PB2524-30	Steel Liner x 3mt	3.4mt	1.0-1.2
*PB2524-40	Steel Liner x 4mt	4.4mt	1.0-1.2
*PB2524-50	Steel Liner x 5mt	5.4mt	1.0-1.2

Spare Parts

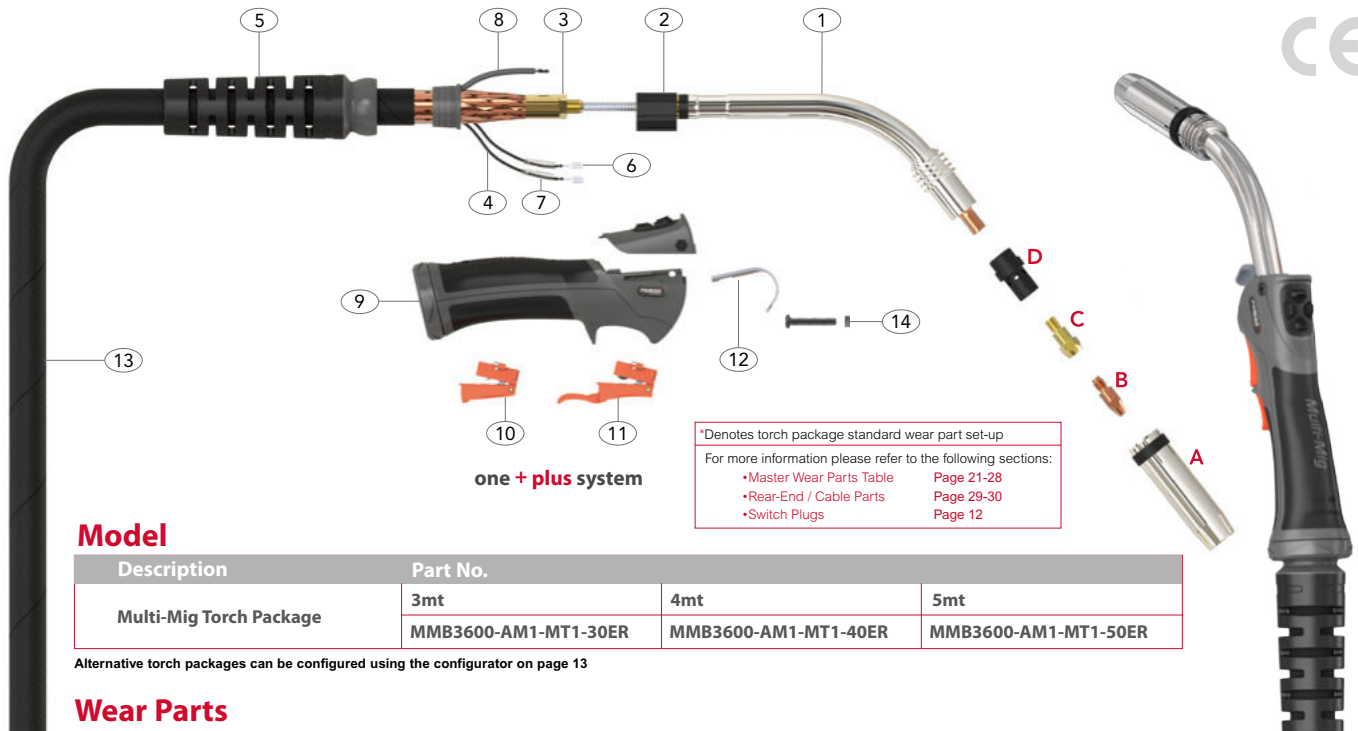
Part No.	Description
1	PG2601 Swan Neck Assembly
2	PG1515 Ergo Handle Location Body
3	PB1505 Lock Nut
4	PS5010-30 Switch Lead Assembly x 3mt
	PS5010-40 Switch Lead Assembly x 4mt
	PS5010-50 Switch Lead Assembly x 5mt
5	PG3208 Handle Cable Support
6	PB1521 Cable Terminal
7	PB1521-C Cable Terminal Cover
8	UMSWL3 Control Wire Assembly x 3mt
	UMSWL4 Control Wire Assembly x 4mt
	UMSWL5 Control Wire Assembly x 5mt
9	MT2514/KJ Multi-Mig Handle Kit
10	DGB2516 Standard Trigger Assembly
11	DGB2516L Extended Trigger Assembly
12	PB2517 Hanger Hook
13	PM2603-30 Canvas Cover Assembly x 3mt
	PM2603-40 Canvas Cover Assembly x 4mt
	PM2603-50 Canvas Cover Assembly x 5mt
14	PDMNS Module Retaining Screw



MMB 360A Suregrip Multi-Mig/Mag Torch Range

Rating: 320A CO₂, 290A mixed gas, EN60974-7 @ 60% duty cycle. 1.0 to 1.2mm wires

Air-Cooled Mig Welding Torch



Model

Description	Part No.		
	3mt	4mt	5mt
Multi-Mig Torch Package	MMB3600-AM1-MT1-30ER	MMB3600-AM1-MT1-40ER	MMB3600-AM1-MT1-50ER

Alternative torch packages can be configured using the configurator on page 13

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
PB3615	Cylindrical Nozzle	19.0	2.25mm	Cu
*PB3616	Conical Nozzle	16.1	2.25mm	Cu
PB3617	Tapered Nozzle	12.0	2.25mm	Cu

B Contact Tips

Part No.	Description	Material	Wire Size	
			mm	Inch
PB2504-10	Contact Tip	Cu	1.0	0.040"
PB2504-12	Contact Tip	Cu	1.2	0.045"
PB2504-10A	Contact Tip	Cu	1.0	0.040"
PB2505-10	Contact Tip	CuCrZr	1.0	0.040"
PB2505-12	Contact Tip	CuCrZr	1.2	0.045"
PB4014-08	Contact Tip	Cu	0.8	0.030
PB4014-10	Contact Tip	Cu	1.0	0.040
*PB4014-12	Contact Tip	Cu	1.2	0.045

C Tip Adaptors

Part No.	Description	Material
PB3612	Tip Adaptor	Brass
PB3613	Tip Adaptor	Brass
*PB3614	Tip Adaptor	Brass

D Diffusers

Part No.	Description	Colour	Material
*PB3605B	Diffuser	Black	DMC3
PB3605C	Diffuser	White	Ceramic
PB3605W	Diffuser	White	DMC3

E Liner

Part No.	Description	Length	Wire Size
			mm
*PB2524-30	Steel Liner x 3mt	3.4mt	1.0-1.2
*PB2524-40	Steel Liner x 4mt	4.4mt	1.0-1.2
*PB2524-50	Steel Liner x 5mt	5.4mt	1.0-1.2

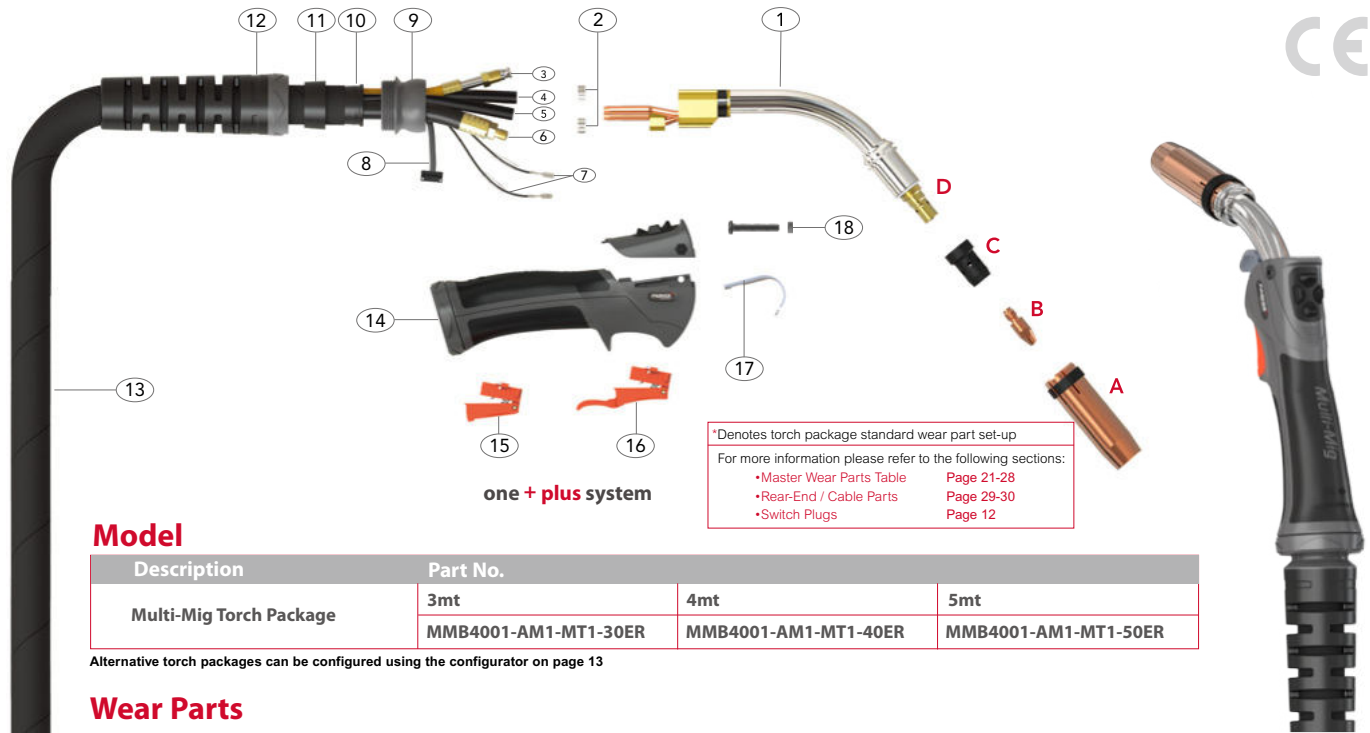
Spare Parts

Part No.	Description
1	PG3603 Swan Neck Assembly
2	PG1515 Ergo Handle Location Body
3	PB1505 Lock Nut
4	PS5010-30 Switch Lead Assembly x 3mt
	PS5010-40 Switch Lead Assembly x 4mt
	PS5010-50 Switch Lead Assembly x 5mt
5	PG3208 Handle Cable Support
6	PB1521 Cable Terminal
7	PB1521-C Cable Terminal Cover
8	UMSWL3 Control Wire Assembly x 3mt
	UMSWL4 Control Wire Assembly x 4mt
	UMSWL5 Control Wire Assembly x 5mt
9	MT2514/KJ Multi-Mig Handle Kit
10	DGB2516 Standard Trigger Assembly
11	DGB2516L Extended Trigger Assembly
12	PB2517 Hanger Hook
13	PM3609-30 Canvas Cover Assembly x 3mt
	PM3609-40 Canvas Cover Assembly x 4mt
	PM3609-50 Canvas Cover Assembly x 5mt
14	PDMNS Module Retaining Screw

MMB 401W Suregrip Multi-Mig/Mag Torch Range

Rating: 400A CO₂ 350A mixed gas, EN60974-7 @ 100% duty cycle. 0.8 to 1.2mm wires

Liquid-Cooled Mig Welding Torch



Model

Description	Part No.		
Multi-Mig Torch Package	3mt	4mt	5mt
	MMB4001-AM1-MT1-30ER	MMB4001-AM1-MT1-40ER	MMB4001-AM1-MT1-50ER

Alternative torch packages can be configured using the configurator on page 13

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
PB5027	Cylindrical Nozzle	19.0	2.50mm	Cu
*PB5028	Conical Nozzle	16.0	2.50mm	Cu
PB5028HD	Conical Nozzle	16.0	3.20mm	Cu
PB5029	Tapered Nozzle	14.0	2.50mm	Cu

B Contact Tips

Part No.	Description	Material	Wire Size
			mm Inch
PB4014-08	Contact Tip	Cu	0.8 0.030"
PB4014-10	Contact Tip	Cu	1.0 0.040"
*PB4014-12	Contact Tip	Cu	1.2 0.045"

C Diffusers

Part No.	Description	Colour	Material
*PB5005B	Diffuser	Black	DMC3
PB5005W	Diffuser	White	DMC3

D Tip Adaptors

Part No.	Description	Material
*PB5001	Tip Adaptor	Brass
PB5001C-R	Tip Adaptor	CuCrZr

E Liner

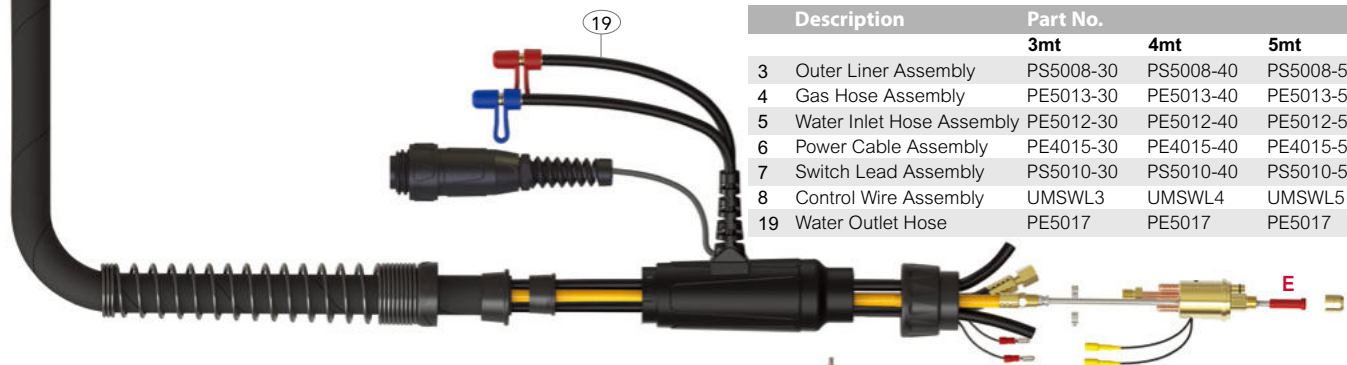
Part No.	Description	Length	Wire Size
			mm
*PB5033-30	Steel Liner x 3mt	3.5mt	1.0-1.2
*PB5033-40	Steel Liner x 4mt	4.5mt	1.0-1.2
*PB5033-50	Steel Liner x 5mt	5.5mt	1.0-1.2

Spare Parts

Part No.	Description
1	PG4011 Swan Neck Assembly
2	PB5041 Water Hose Clamp 8.7mm
9	PPG3208-1 Ball Joint
10	PT8010 Canvas cover Retainer Small
11	PG3235 Sheath Block
12	PGN3208-P Cable Support
13	PM4006-30 Canvas Cover Assembly x 3mt
	PM4006-40 Canvas Cover Assembly x 4mt
	PM4006-50 Canvas Cover Assembly x 5mt
14	MT2514/KJ Multi-Mig Handle Kit
15	DGB2516 Standard Trigger Assembly
16	DGB2516L Extended Trigger Assembly
17	PB2517 Hanger Hook
18	PDMNS Module Retaining Screw

Cable Parts

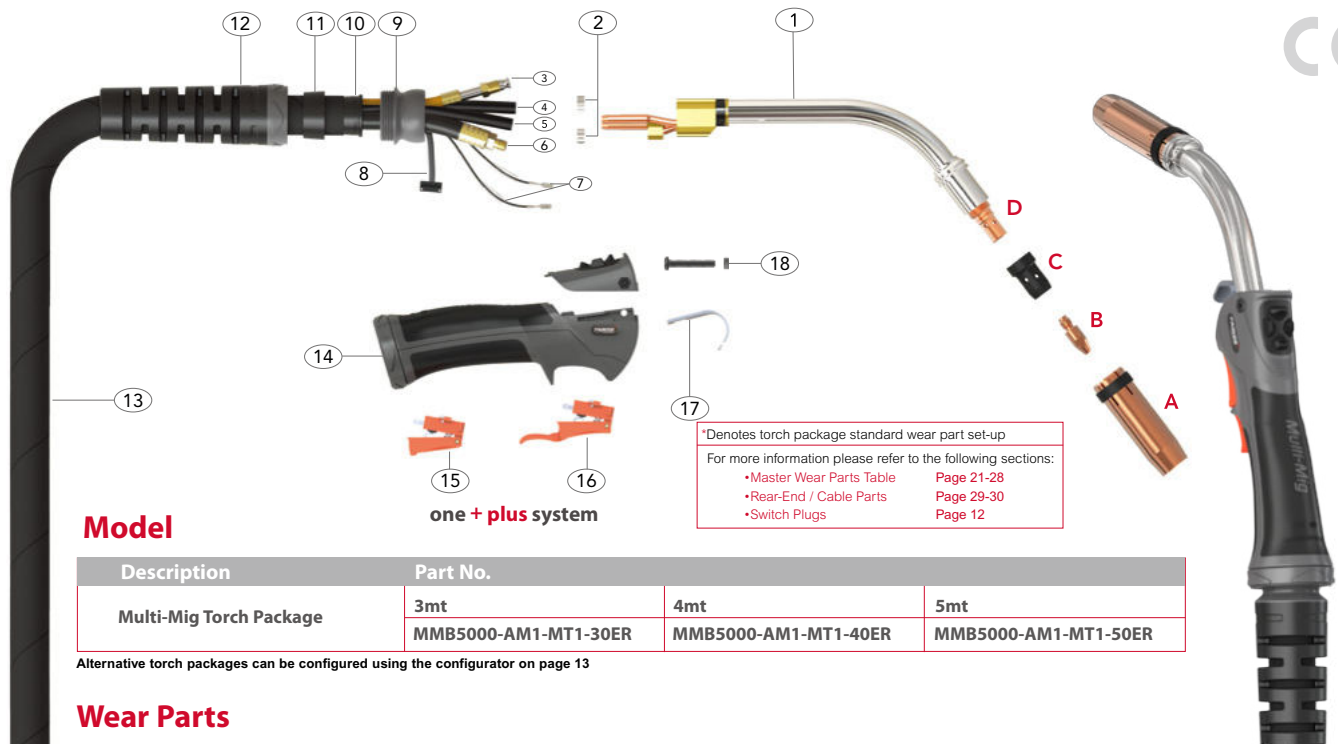
Description	Part No.		
	3mt	4mt	5mt
3 Outer Liner Assembly	PS5008-30	PS5008-40	PS5008-50
4 Gas Hose Assembly	PE5013-30	PE5013-40	PE5013-50
5 Water Inlet Hose Assembly	PE5012-30	PE5012-40	PE5012-50
6 Power Cable Assembly	PE4015-30	PE4015-40	PE4015-50
7 Switch Lead Assembly	PS5010-30	PS5010-40	PS5010-50
8 Control Wire Assembly	UMSWL3	UMSWL4	UMSWL5
19 Water Outlet Hose	PE5017	PE5017	PE5017



MMB 501W Suregrip Multi-Mig/Mag Torch Range

Rating: 500A CO₂ 450A mixed gas, EN60974-7 @ 100% duty cycle. 1.0 to 1.6mm wires

Liquid-Cooled Mig Welding Torch



Model

Description	Part No.		
Multi-Mig Torch Package	3mt	4mt	5mt
	MMB5000-AM1-MT1-30ER	MMB5000-AM1-MT1-40ER	MMB5000-AM1-MT1-50ER

Alternative torch packages can be configured using the configurator on page 13

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
PB5027	Cylindrical Nozzle	19.0	2.50mm	Cu
*PB5028	Conical Nozzle	16.0	2.50mm	Cu
PB5028HD	Conical Nozzle	16.0	3.20mm	Cu
PB5029	Tapered Nozzle	14.0	2.50mm	Cu

B Contact Tips

Part No.	Description	Material	Wire Size
			mm Inch
PB4014-10	Contact Tip	Cu	1.0 0.040"
PB4014-12	Contact Tip	Cu	1.2 0.045"
PB4014-16	Contact Tip	Cu	1.6 0.063"
*PB4015-12	Contact Tip	CuCrZr	1.2 0.045"
PB4015-16	Contact Tip	CuCrZr	1.6 0.063"

C Diffusers

Part No.	Description	Colour	Material
PB5005B	Diffuser	Black	DMC3
PB5005C	Diffuser	White	Ceramic
PB5005W	Diffuser	White	DMC3
*PB5005H	Diffuser-High Performance	Black	HPP

D Tip Adaptors

Part No.	Description	Material
PB5001	Tip Adaptor	Brass
*PB5001C-R	Tip Adaptor	CuCrZr

E Liner

Part No.	Description	Length	Wire Size
			mm
*PB5033-30	Steel Liner x 3mt	3.5mt	1.0-1.2
*PB5033-40	Steel Liner x 4mt	4.5mt	1.0-1.2
*PB5033-50	Steel Liner x 5mt	5.5mt	1.0-1.2

Spare Parts

Part No.	Description
1	PG5002 Swan Neck Assembly
2	PB5041 Water Hose Clamp 8.7mm
9	PPG3208-1 Ball Joint
10	PT8010 Canvas cover Retainer Small
11	PG3235 Sheath Block
12	PGN3208-P Cable Support
13	PM5006-30 Canvas Cover Assembly x 3mt
	PM5006-40 Canvas Cover Assembly x 4mt
	PM5006-50 Canvas Cover Assembly x 5mt
14	MT2514/KJ Multi-Mig Handle Kit
15	DGB2516 Standard Trigger Assembly
16	DGB2516L Extended Trigger Assembly
17	PB2517 Hanger Hook
18	PDMNS Module Retaining Screw

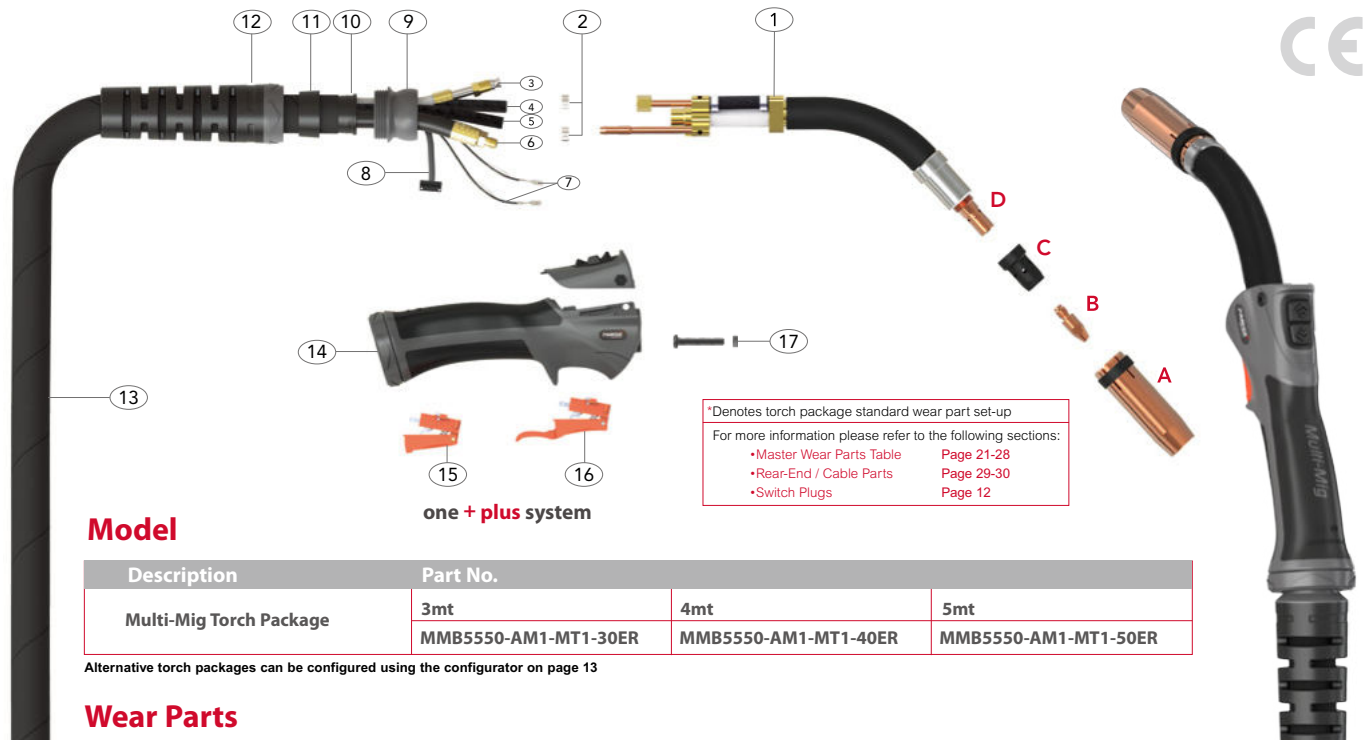
Cable Parts

Description	Part No.		
	3mt	4mt	5mt
3 Outer Liner Assembly	PS5008-30	PS5008-40	PS5008-50
4 Gas Hose Assembly	PE5013-30	PE5013-40	PE5013-50
5 Water Inlet Hose Assembly	PE5012-30	PE5012-40	PE5012-50
6 Power Cable Assembly	PE5015-30	PE5015-40	PE5015-50
7 Switch Lead Assembly	PS5010-30	PS5010-40	PS5010-50
8 Control Wire Assembly	UMSWL3	UMSWL4	UMSWL5
19 Water Outlet Hose	PE5017	PE5017	PE5017

MMB 555W Suregrip Multi-Mig/Mag Torch Range

Rating: 550A CO₂, 500A mixed gas, 400A pulse, EN60974-7 @ 100% duty cycle. 1.0 to 1.6mm wires

Liquid-Cooled Mig Welding Torch



*Denotes torch package standard wear part set-up
For more information please refer to the following sections:
•Master Wear Parts Table Page 21-28
•Rear-End / Cable Parts Page 29-30
•Switch Plugs Page 12

Model

Description	Part No.		
Multi-Mig Torch Package	3mt	4mt	5mt
	MMB5550-AM1-MT1-30ER	MMB5550-AM1-MT1-40ER	MMB5550-AM1-MT1-50ER

Alternative torch packages can be configured using the configurator on page 13

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
PB5027	Cylindrical Nozzle	19.0	2.50mm	Cu
*PB5028	Conical Nozzle	16.0	2.50mm	Cu
PB5028HD	Conical Nozzle	16.0	3.20mm	Cu
PB5029	Tapered Nozzle	14.0	2.50mm	Cu

B Contact Tips

Part No.	Description	Material	Wire Size	
			mm	Inch
PB4014-10	Contact Tip	Cu	1.0	0.040"
PB4014-12	Contact Tip	Cu	1.2	0.045"
PB4014-16	Contact Tip	Cu	1.6	0.063"
PB4015-10	Contact Tip	CuCrZr	1.0	0.040"
*PB4015-12	Contact Tip	CuCrZr	1.2	0.045"
PB4015-16	Contact Tip	CuCrZr	1.6	0.063"

C Diffusers

Part No.	Description	Colour	Material
PB5005B	Diffuser	Black	DMC3
PB5005W	Diffuser	White	DMC3
*PB5005H	Diffuser-High Performance	Black	HPP

D Tip Adaptors

Part No.	Description	Material
*PB5501	Tip Adaptor	CuCrZr

E Liner

Part No.	Description	Length	Wire Size
			mm
*PB5033-30	Steel Liner x 3mt	3.5mt	1.0-1.2
*PB5033-40	Steel Liner x 4mt	4.5mt	1.0-1.2
*PB5033-50	Steel Liner x 5mt	5.5mt	1.0-1.2

Spare Parts

Part No.	Description
1	PB5502 Swan Neck Assembly
2	PB5041 Water Hose Clamp 8.7mm
9	PPG3208-1 Ball Joint
10	PT8010 Canvas cover Retainer Small
11	PG3235 Sheath Block
12	PGN3208-P Cable Support
13	PM5506-30 Canvas Cover Assembly x 3mt
	PM5506-40 Canvas Cover Assembly x 4mt
	PM5506-50 Canvas Cover Assembly x 5mt
14	MT2515/KJ Multi-Mig Handle Kit
15	DGB2516 Standard Trigger Assembly
16	DGB2516L Extended Trigger Assembly
17	PDMNS Module Retaining Screw

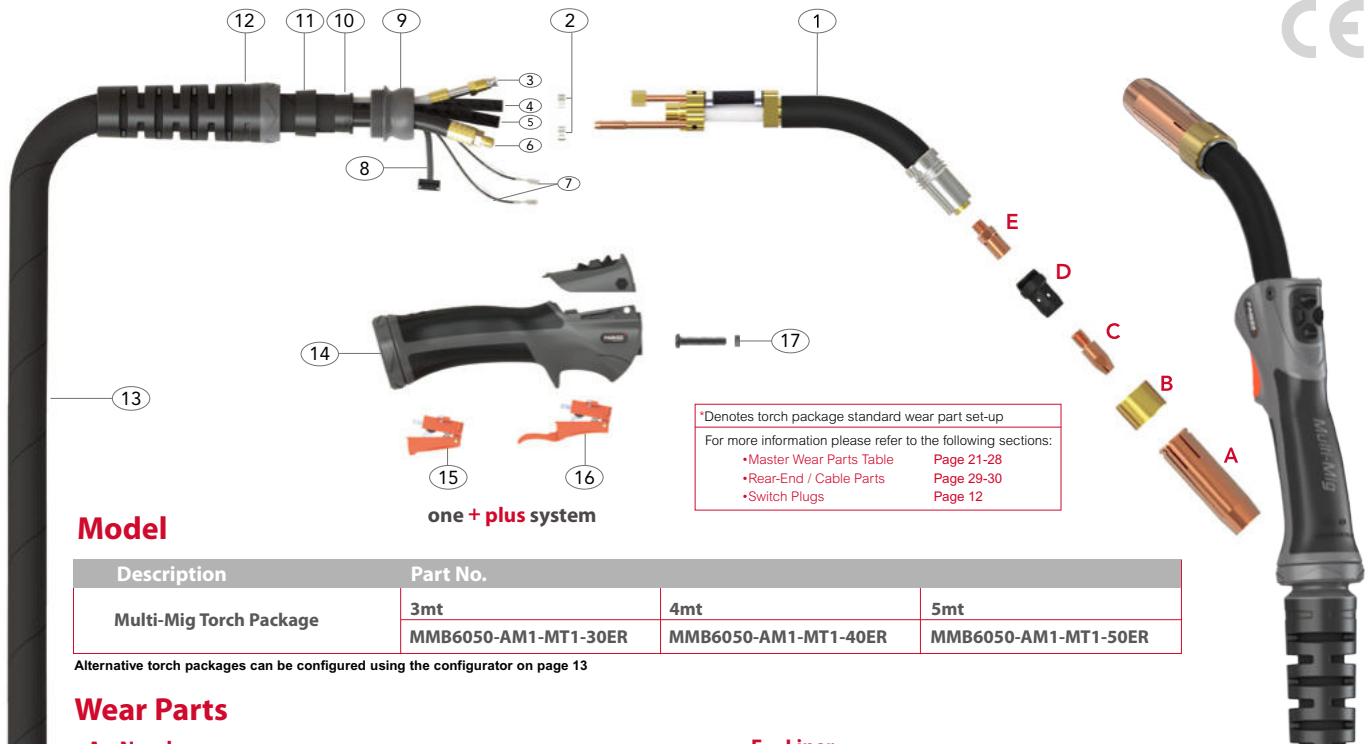
Cable Parts

Description	Part No.		
	3mt	4mt	5mt
3 Outer Liner Assembly	PS5508-30	PS5008-40	PS5008-50
4 Gas Hose Assembly	PS5013-30	PS5013-40	PS5013-50
5 Water Inlet Hose Assembly	PS5012-30	PS5012-40	PS5012-50
6 Power Cable Assembly	PS515-30	PS4015-40	PS4015-50
7 Switch Lead Assembly	PS5010-30	PS5010-40	PS5010-50
8 Control Wire Assembly	UMSWL3	UMSWL4	UMSWL5
18 Water Outlet Hose	PS5017	PS5017	PS5017

MMB 605W Suregrip Multi-Mig/Mag Torch Range

Rating: 600A CO₂, 550A mixed gas, 450A pulse, EN60974-7 @ 100% duty cycle. 1.0 to 1.6mm wires

Liquid-Cooled Mig Welding Torch



*Denotes torch package standard wear part set-up

For more information please refer to the following sections:

- Master Wear Parts Table Page 21-28
- Rear-End / Cable Parts Page 29-30
- Switch Plugs Page 12

Model

Description	Part No.		
Multi-Mig Torch Package	3mt	4mt	5mt
	MMB6050-AM1-MT1-30ER	MMB6050-AM1-MT1-40ER	MMB6050-AM1-MT1-50ER

Alternative torch packages can be configured using the configurator on page 13

Wear Parts

A Nozzles

Part No.	Description	Bore	Wall	Material
*PB6528	Conical Nozzle	17.0	2.60mm	Cu

B Tip Adaptors

Part No.	Description	Material
*PB6515	Nozzle Adaptor	Brass

C Contact Tips

Part No.	Description	Material	Wire mm	Size Inch
PB6015-10	Contact Tip	CuCrZr	1.0	0.040"
*PB6015-12	Contact Tip	CuCrZr	1.2	0.045"
PB6015-14	Contact Tip	CuCrZr	1.4	0.055"
PB6015-16	Contact Tip	CuCrZr	1.6	0.063"

D Diffusers

Part No.	Description	Colour	Material
*PB6505H	Diffuser-High Performance	Black	DMC3

E Tip Adaptors

Part No.	Description	Material
*PB6501	Tip Adaptor 29.0mm M10	CuCrZr

F Liner

Part No.	Description	Length	Wire Size mm
*PB5033-30	Steel Liner x 3mt	3.5mt	1.0-1.2
*PB5033-40	Steel Liner x 4mt	4.5mt	1.0-1.2
*PB5033-50	Steel Liner x 5mt	5.5mt	1.0-1.2

Spare Parts

Part No.	Description
1	PB6502 Swan Neck Assembly
2	PB5041 Water Hose Clamp 8.7mm
9	PPG3208-1 Ball Joint
10	PT8010 Canvas cover Retainer Small
11	PG3235 Sheath Block
12	PGN3208-P Cable Support
13	PM5506-30 Canvas Cover Assembly x 3mt
	PM5506-40 Canvas Cover Assembly x 4mt
	PM5506-50 Canvas Cover Assembly x 5mt
14	MT2515/KJ Multi-Mig Handle Kit
15	DGB2516 Standard Trigger Assembly
16	DGB2516L Extended Trigger Assembly
17	PDMNS Module Retaining Screw

Cable Parts

Description	Part No.		
	3mt	4mt	5mt
3 Outer Liner Assembly	PS5508-30	PS5008-40	PS5008-50
4 Gas Hose Assembly	PS5013-30	PS5013-40	PS5013-50
5 Water Inlet Hose Assembly	PS5012-30	PS5012-40	PS5012-50
6 Power Cable Assembly	PS5515-30	PS4015-40	PS4015-50
7 Switch Lead Assembly	PS5010-30	PS5010-40	PS5010-50
8 Control Wire Assembly	UMSWL3	UMSWL4	UMSWL5
18 Water Outlet Hose	PS5017	PS5017	PS5017

Nozzles

MMB 240A

Part No.	Description	Bore	Wall	Material
PB2415	Cylindrical Nozzle	17.2	1.40mm	Cu
* PB2416	Conical Nozzle	12.6	1.40mm	Cu
PB2417	Tapered Nozzle	10.0	1.40mm	Cu



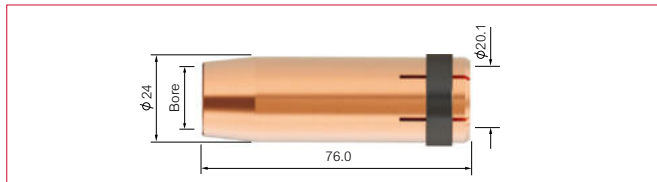
MMB 360A

Part No.	Description	Bore	Wall	Material
PB3615	Cylindrical Nozzle	19.0	2.25mm	Cu
* PB3616	Conical Nozzle	16.1	2.25mm	Cu
PB3617	Tapered Nozzle	12.0	2.25mm	Cu



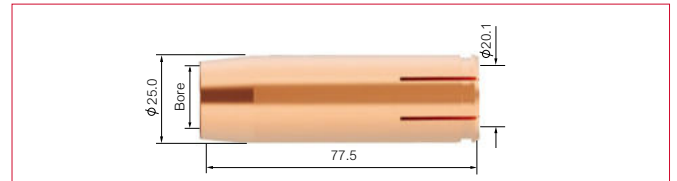
MMB 260A/401W/501W/555W

Part No.	Description	Bore	Wall	Material
PB5027	Cylindrical Nozzle	19.0	2.50mm	Cu
* PB5028	Conical Nozzle	16.0	2.50mm	Cu
PB5028HD	Conical Nozzle	16.0	3.20mm	Cu
PB5029	Tapered Nozzle	14.0	2.50mm	Cu



MMB 605W

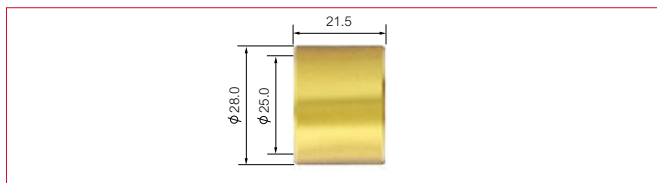
Part No.	Description	Bore	Wall	Material
* PB6528	Conical Nozzle	17.0	2.60mm	Cu



Nozzle Adaptors

MMB 605W

Part No.	Description	Material
* PB6515	Nozzle Adaptor	Brass

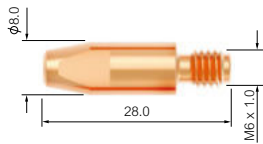


* Denotes torch package standard wear part set-up

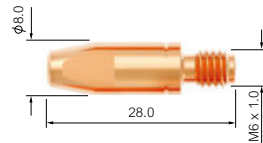
Contact Tips

MMB 240A/260A/360A

Part No.	Description	Material	Wire Size	
			mm	inch
PB2504-06	Contact Tip	Cu	0.6	0.023
PB2504-08	Contact Tip	Cu	0.8	0.030
PB2504-09	Contact Tip	Cu	0.9	0.035
*PB2504-10	Contact Tip	Cu	1.0	0.040
*PB2504-12	Contact Tip	Cu	1.2	0.045
PB2504-14	Contact Tip	Cu	1.4	0.055
PB2504-16	Contact Tip	Cu	1.6	0.063
PB2504-10A	Contact Tip	Cu	1.0	0.040
PB2504-12A	Contact Tip	Cu	1.2	0.045
PB2504-16A	Contact Tip	Cu	1.6	0.063

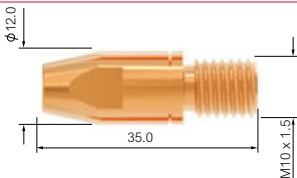


PB2505-08	Contact Tip	CuCrZr	0.8	0.030
PB2505-09	Contact Tip	CuCrZr	0.9	0.035
PB2505-10	Contact Tip	CuCrZr	1.0	0.040
PB2505-12	Contact Tip	CuCrZr	1.2	0.045
PB2505-16	Contact Tip	CuCrZr	1.6	0.063
PB2505-10A	Contact Tip	CuCrZr	1.0	0.040
PB2505-12A	Contact Tip	CuCrZr	1.2	0.045
PB2505-16A	Contact Tip	CuCrZr	1.6	0.063



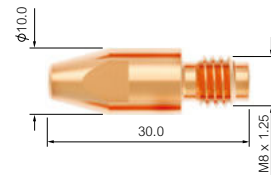
MMB 605W

Part No.	Description	Material	Wire Size	
			mm	inch
PB6015-10	Contact Tip	CuCrZr	1.0	0.040
*PB6015-12	Contact Tip	CuCrZr	1.2	0.045
PB6015-14	Contact Tip	CuCrZr	1.4	0.055
PB6015-16	Contact Tip	CuCrZr	1.6	0.063
PB6015-20	Contact Tip	CuCrZr	2.0	0.080
PB6015-24	Contact Tip	CuCrZr	2.4	0.095

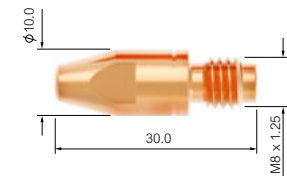


MMB 360A/401W/501W/555W

Part No.	Description	Material	Wire Size	
			mm	inch
PB4014-08	Contact Tip	Cu	0.8	0.030
PB4014-09	Contact Tip	Cu	0.9	0.035
PB4014-10	Contact Tip	Cu	1.0	0.040
*PB4014-12	Contact Tip	Cu	1.2	0.045
*PB4014-14	Contact Tip	Cu	1.4	0.055
PB4014-16	Contact Tip	Cu	1.6	0.063
PB4014-20	Contact Tip	Cu	2.0	0.080
PB4014-24	Contact Tip	Cu	2.4	0.095
PB4014-10A	Contact Tip	Cu	1.0	0.040
PB4014-12A	Contact Tip	Cu	1.2	0.045
PB4014-16A	Contact Tip	Cu	1.6	0.063



PB4015-08	Contact Tip	CuCrZr	0.8	0.030
PB4015-09	Contact Tip	CuCrZr	0.9	0.035
PB4015-10	Contact Tip	CuCrZr	1.0	0.040
*PB4015-12	Contact Tip	CuCrZr	1.2	0.045
PB4015-13	Contact Tip	CuCrZr	1.3	0.052
PB4015-14	Contact Tip	CuCrZr	1.4	0.055
PB4015-16	Contact Tip	CuCrZr	1.6	0.063
PB4015-20	Contact Tip	CuCrZr	2.0	0.080
PB4015-24	Contact Tip	CuCrZr	2.4	0.095
PB4015-10A	Contact Tip	CuCrZr	1.0	0.040
PB4015-12A	Contact Tip	CuCrZr	1.2	0.045
PB4015-16A	Contact Tip	CuCrZr	1.6	0.063

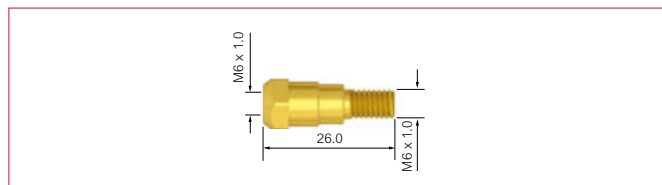


* Denotes torch package standard wear part set-up

Tip Adaptors

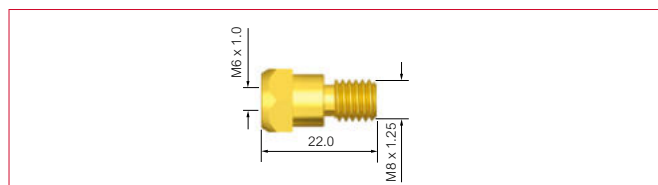
MMB 240A

Part No.	Description	Material
* PB2412	Tip Adaptor	Brass



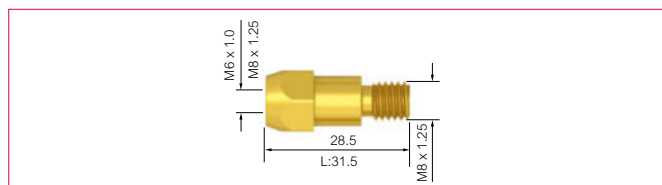
MMB 260A

Part No.	Description	Material
* PB2612	Tip Adaptor	Brass
PB2612M8	Tip Adaptor	Brass



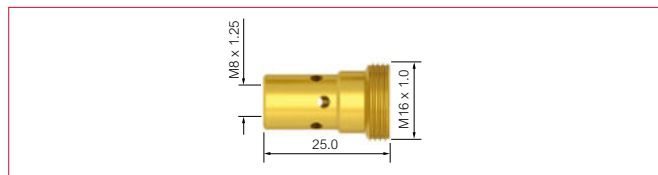
MMB 360A

Part No.	Description	Material
PB3612	Tip Adaptor 28.5mm M6	Brass
PB3613	Tip Adaptor 31.5mm M6	Brass
* PB3614	Tip Adaptor 28.5mm M8	Brass

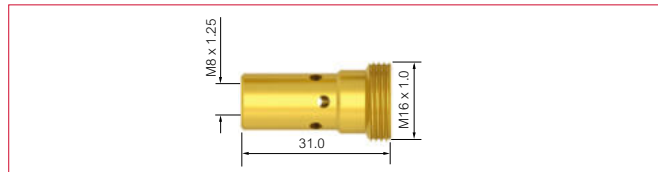


MMB 401W/501W

Part No.	Description	Material
PB5001	Tip Adaptor	Brass
* PB5001C-R	Tip Adaptor	CuCrZr

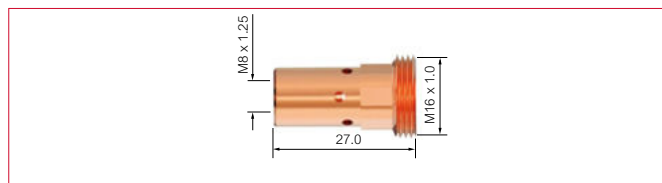


PB5001L	Tip Adaptor	Brass
---------	-------------	-------



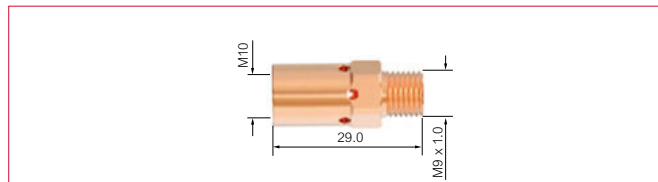
MMB 555A

Part No.	Description	Material
* PB5501	Tip Adaptor	CuCrZr



MMB 605W

Part No.	Description	Material
* PB6501	Tip Adaptor 29.0mm M10	CuCrZr



* Denotes torch package standard wear part set-up

MMB 240A

Part No.	Description	Colour	Material
* PB2405B	Diffuser	Black	DMC3
PB2405C	Diffuser	White	Ceramic
PB2405W	Diffuser	White	DMC3
PB2405S	Diffuser	Red	Silicon



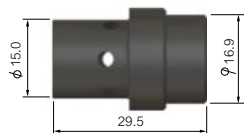
MMB 360A

Part No.	Description	Colour	Material
* PB3605B	Diffuser	Black	DMC3
PB3605C	Diffuser	White	Ceramic
PB3605W	Diffuser	White	DMC3
PB3605H	Diffuser-High Performance	Black	HPP



MMB 260A

Part No.	Description	Colour	Material
* PB2605B	Diffuser	Black	DMC3
PB2605C	Diffuser	White	Ceramic
PB2605W	Diffuser	White	DMC3



MMB 401W/501W/555W

Part No.	Description	Colour	Material
* PB5005B	Diffuser	Black	DMC3
PB5005C	Diffuser	White	Ceramic
PB5005W	Diffuser	White	DMC3
* PB5005H	Diffuser-High Performance	Black	HPP



MMB 605W

Part No.	Description	Colour	Material
* PB6505H	Diffuser-High Performance	Black	DMC3



* Denotes torch package standard wear part set-up

Liner Options 1.0-1.2mm

MMB 240A/260A/360A

Part No.	Description	Length	Nipple	Wire Size
* PB2524-30	Steel Liner x 3mt	3.4mt	Moulded Nipple	1.0-1.2
* PB2524-40	Steel Liner x 4mt	4.4mt	Moulded Nipple	1.0-1.2
* PB2524-50	Steel Liner x 5mt	5.4mt	Moulded Nipple	1.0-1.2



PB2524-30B	Steel Liner x 3mt	3.4mt	Brass Nipple	1.0-1.2
PB2524-40B	Steel Liner x 4mt	4.4mt	Brass Nipple	1.0-1.2
PB2524-50B	Steel Liner x 5mt	5.4mt	Brass Nipple	1.0-1.2



MMB 401W/501W/555W/605W

Part No.	Description	Length	Nipple	Wire Size
* PB5033-30	Steel Liner x 3mt	3.5mt	Moulded Nipple	1.0-1.2
* PB5033-40	Steel Liner x 4mt	4.5mt	Moulded Nipple	1.0-1.2
* PB5033-50	Steel Liner x 5mt	5.5mt	Moulded Nipple	1.0-1.2



PB5033-30B	Steel Liner x 3mt	3.5mt	Brass Nipple	1.0-1.2
PB5033-40B	Steel Liner x 4mt	4.5mt	Brass Nipple	1.0-1.2
PB5033-50B	Steel Liner x 5mt	5.5mt	Brass Nipple	1.0-1.2



* Denotes torch package standard wear part set-up

Liner Options 1.0-1.6mm

MMB 240A/360A/401W/501W/555W/605W

Part No.	Description	Length	Nipple	Wire Size mm
PB2513-30	Teflon Liner x 3mt	3.6mt	Teflon Brass Nipple	1.0-1.2
PB2513-40	Teflon Liner x 4mt	4.6mt	Teflon Brass Nipple	1.0-1.2
PB2513-50	Teflon Liner x 5mt	5.6mt	Teflon Brass Nipple	1.0-1.2
PNE2564	Optional Brass Neck Liner	0.3mt	Teflon Brass Nipple	0.6-1.2



PB2564-30	Polyamide/Brass Liner 4.7mm O/D x 3mt	3.6mt	Brass Nipple	1.2-1.6
PB2564-40	Polyamide/Brass Liner 4.7mm O/D x 4mt	4.6mt	Brass Nipple	1.2-1.6
PB2564-50	Polyamide/Brass Liner 4.7mm O/D x 5mt	5.6mt	Brass Nipple	1.2-1.6



* Denotes torch package standard wear part set-up

Liner Options 1.2-1.6mm

MMB 360A

Part No.	Description	Length	Nipple	Wire Size mm
PB3631-30	Steel Liner x 3mt	3.4mt	Moulded Nipple	1.6
PB3631-40	Steel Liner x 4mt	4.4mt	Moulded Nipple	1.6
PB3631-50	Steel Liner x 5mt	5.4mt	Moulded Nipple	1.6



PB3631-30B	Steel Liner x 3mt	3.4mt	Brass Nipple	1.6
PB3631-40B	Steel Liner x 4mt	4.4mt	Brass Nipple	1.6
PB3631-50B	Steel Liner x 5mt	5.4mt	Brass Nipple	1.6



MMB 401W/501W/555W/605W

Part No.	Description	Length	Nipple	Wire Size mm
PB5034-30	Steel Liner x 3mt	3.5mt	Moulded Nipple	1.2-1.6
PB5034-40	Steel Liner x 4mt	4.5mt	Moulded Nipple	1.2-1.6
PB5034-50	Steel Liner x 5mt	5.5mt	Moulded Nipple	1.2-1.6



PB5034-30B	Steel Liner x 3mt	3.5mt	Brass Nipple	1.2-1.6
PB5034-40B	Steel Liner x 4mt	4.5mt	Brass Nipple	1.2-1.6
PB5034-50B	Steel Liner x 5mt	5.5mt	Brass Nipple	1.2-1.6



* Denotes torch package standard wear part set-up

Liner Options 1.2-2.0mm

MMB 501W/555W/605W

Part No.	Description	Length	Nipple	Wire Size mm
PB3626-30	Teflon Liner x 3mt	3.6mt	Brass Nipple	1.2-1.6
PB3626-40	Teflon Liner x 4mt	4.6mt	Brass Nipple	1.2-1.6
PB3626-50	Teflon Liner x 5mt	5.6mt	Brass Nipple	1.2-1.6
PNE3564	Optional Brass Neck Liner	0.3mt	Brass Nipple	1.2-1.6



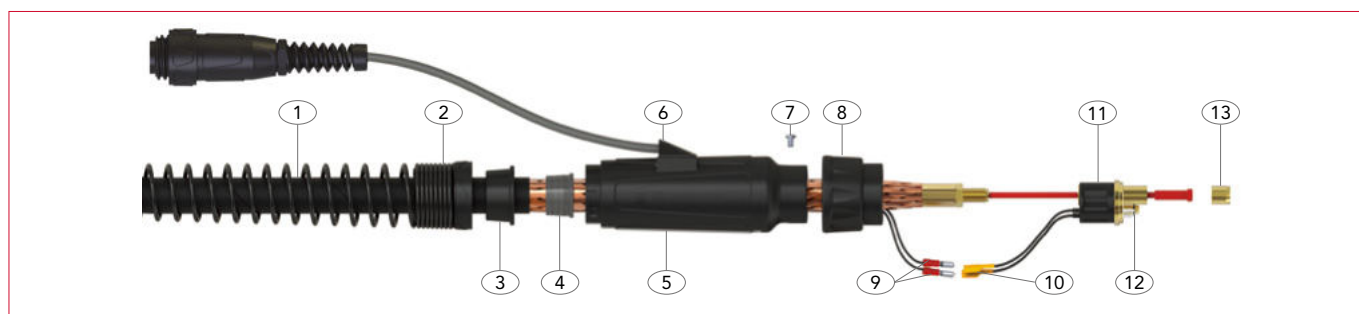
PB3564-30	Polyamide/Brass Liner 4.7mm O/D x 3mt	3.6mt	Brass Nipple	1.6-2.0
PB3564-40	Polyamide/Brass Liner 4.7mm O/D x 4mt	4.6mt	Brass Nipple	1.6-2.0
PB3564-50	Polyamide/Brass Liner 4.7mm O/D x 5mt	5.6mt	Brass Nipple	1.6-2.0



* Denotes torch package standard wear part set-up

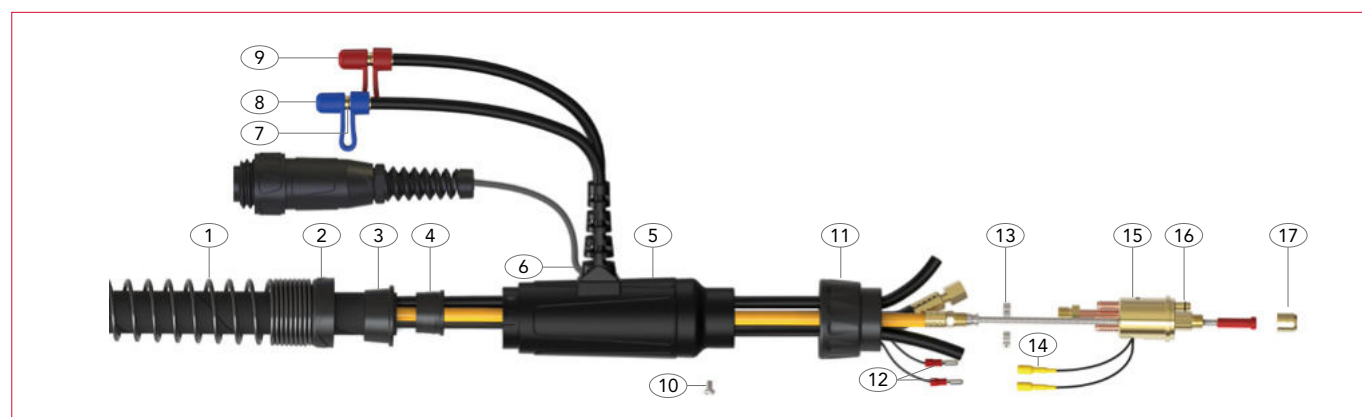
MMB 240A/260A/360A

Part No.	Description
1 PC8027	Housing Spring
2 PT8028	Spring Cable Support Nut
3 PT8009	Canvas Cover Clamp
4 PT8010	Canvas Cover Retainer
5 PT5022	Gun Plug Housing Assembly
6 SC8017	Large Housing Wire Cover
7 PB1526	Gun Plug Screw
8 PB1519-S	Gun Plug Housing Nut
9 PB1522	Cable Terminal Male
10 PB1523	Cable Terminal Female
11 PC1528	Hybrid Gun Plug Body c/w Spring Pins
12 PB1524	Gun Plug O Ring
13 PB1525	Liner Nut



MMB 401W/501W/555W/605W

Part No.	Description
1 PC8027	Housing Spring
2 PT8028	Spring Cable Support Nut
3 PT8009	Canvas Cover Clamp
4 PT8010	Canvas Cover Retainer
5 PT5022	Gun Plug Housing Assembly
6 PSLH1820-S	Inlet/Outlet Hose Support
7 PB5023	Hose Nipple
8 PBD-80310	Blue Cap Stopper
9 PBD-80320	Red Cap Stopper
10 PB1526	Gun Plug Screw
11 PB1519/S	Gun Plug Nut
12 PB1522	Cable Terminal Male
13 PB5024	Hose Clamp 9.5mm
14 PB1523	Gun Plug Terminal Female
15 PB5098	Gun Plug Body c/w Spring Pins
16 PB1524	Gun Plug O Ring
17 PB1525	Liner Nut





Parker Torchology B.V.
De Marowijne, 11-A
1689 AR ZWAAG
THE NETHERLANDS

Tel: +86 531 88239823
Fax: +86 531 88239398
Website: www.parkertorchology.com
Email: info@parkertorchology.com
MPP004 / V.2019.06