

# MIG/MAG CATALOG 4.1



MIG/MAG Welding Technology for all  
Metalworking Industries.



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Wear parts system "MB"



# MIG/MAG welding torches "MB EVO PRO" air cooled

## Rating 150 A up to 230 A

The MB EVO PRO torch series represents a totally new concept in welding torch design, form and function. Unique ergonomics, following extensive research, provide a greater sense of control, enabling the welder to feel as "one" with his torch. The trigger position, trigger design and ball joint construction guarantee optimum balance and comfort in all welding positions.

Air cooled MB EVO PRO welding torches feature the reduced weight "BIKOX® LW" cable assembly, for even better handling and scientifically proven reduced operator fatigue, in all welding positions. Improved handling and reduced strain have further been shown to have a measurable impact on weld seam quality.

MB EVO PRO torches offer the best performance to weight ratio of any comparable torch on the market.

- Low weight BIKOX® (LW) – offering weight reduction of up to 34%
- Genuine two-component handle – robust and ergonomic
- Optimum trigger position and tapered handle design – for precise predictable handling
- Unique internal geometry for air cooled torches – enabling a cooler grip with maximum mechanical strength
- Proven "MB" wear parts – for long, economic service life
- Robust, optimised central connector



### MB EVO PRO 15

#### Technical data (EN 60 974-7):

Rating:	180 A CO <sub>2</sub> 150 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.6 – 1.0 mm

### MB EVO PRO 25

#### Technical data (EN 60 974-7):

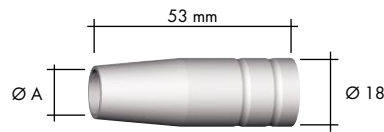
Rating:	230 A CO <sub>2</sub> 200 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8 – 1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB EVO PRO 15	Type "MB EVO PRO"	002.0712.1	002.0713.1	002.0714.1	50°	002.0715.1
MB EVO PRO 25	Type "MB EVO PRO"	004.0671.1	004.0672.1	004.0673.1	50°	004.0663.1

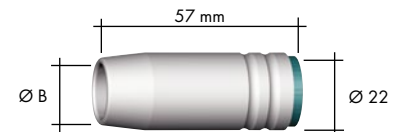
# MB EVO PRO 15, MB EVO PRO 25

## Wear parts

### MB EVO PRO 15

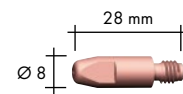
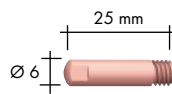


### MB EVO PRO 25



## Gas nozzle (10 pcs.)

	Ø A		Ø B	
Cylindrical	Ø 16	145.0041	Ø 18	145.0042
Conical	Ø 12	145.0075 <sup>1</sup>	Ø 15	145.0076 <sup>2</sup>
Tapered	Ø 9.5	145.0123	Ø 11.5	145.0124



## Contact tip (10 pcs.)

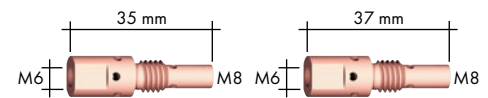
		M6	M6
E-Cu	Ø 0.6	140.0008	-
	Ø 0.8	140.0059	140.0051
	Ø 1.0	140.0253	140.0242
	Ø 1.2	-	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	-	141.0010
CuCrZr	Ø 0.6	140.0855	-
	Ø 0.8	140.0062 <sup>1</sup>	140.0054
	Ø 1.0	140.0256	140.0245 <sup>2</sup>
	Ø 1.2	-	140.0382

## Nozzle spring (100 pcs.)



	002.0058 <sup>1</sup>	003.0013 <sup>2</sup>
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## Gas nozzle holder (1 pc.) / Contact tip holder (10 pcs.)



M6	002.0078 <sup>1</sup>	142.0001 <sup>2</sup>	142.0267.10
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Liner	for 3 m				for 4 m				for 5 m			
	Ø 0.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 0.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 0.6	Ø 0.8	Ø 1.0	Ø 1.2
Liner	Ø 0.6	124.0011	124.0011 <sup>1</sup>	124.0011	124.0012	124.0012 <sup>1</sup>	124.0012	124.0012	124.0015	124.0015 <sup>1</sup>	124.0015	124.0015
	Ø 0.8	124.0011 <sup>1</sup>	124.0011	124.0011	124.0012 <sup>1</sup>	124.0012	124.0012	124.0012	124.0015 <sup>1</sup>	124.0015	124.0015	124.0015
	Ø 1.0	124.0026 <sup>2</sup>	124.0026	124.0026	124.0031 <sup>2</sup>	124.0031	124.0031	124.0031	124.0035 <sup>2</sup>	124.0035	124.0035	124.0035
	Ø 1.2	124.0026	124.0026	124.0026	124.0031	124.0031	124.0031	124.0031	124.0035	124.0035	124.0035	124.0035
PTFE liner	Ø 0.6	126.0005	126.0005	126.0005	126.0008	126.0008	126.0008	126.0008	126.0011	126.0011	126.0011	126.0011
	Ø 0.8	126.0005	126.0005	126.0005	126.0008	126.0008	126.0008	126.0008	126.0011	126.0011	126.0011	126.0011
	Ø 1.0	126.0021	126.0021	126.0021	126.0026	126.0026	126.0026	126.0026	126.0028	126.0028	126.0028	126.0028
	Ø 1.2	126.0021	126.0021	126.0021	126.0026	126.0026	126.0026	126.0026	126.0028	126.0028	126.0028	126.0028
Carbon PTFE liner	Ø 0.6	127.0002	127.0002	127.0002	127.0003	127.0003	127.0003	127.0003	127.0004	127.0004	127.0004	127.0004
	Ø 0.8	127.0002	127.0002	127.0002	127.0003	127.0003	127.0003	127.0003	127.0004	127.0004	127.0004	127.0004
	Ø 1.0	127.0005	127.0005	127.0005	127.0007	127.0007	127.0007	127.0007	127.0008	127.0008	127.0008	127.0008
	Ø 1.2	127.0005	127.0005	127.0005	127.0007	127.0007	127.0007	127.0007	127.0008	127.0008	127.0008	127.0008

<sup>1</sup> Included in the standard equipment for complete torches MB EVO PRO 15.

<sup>2</sup> Included in the standard equipment for complete torches MB EVO PRO 25.

# MIG/MAG welding torches "MB EVO PRO" air cooled

## Rating 220 A up to 320 A

The MB EVO PRO torch series represents a totally new concept in welding torch design, form and function. Unique ergonomics, following extensive research, provide a greater sense of control, enabling the welder to feel as "one" with his torch. The trigger position, trigger design and ball joint construction guarantee optimum balance and comfort in all welding positions.

Air cooled MB EVO PRO welding torches feature the reduced weight "BIKOX® LW" cable assembly, for even better handling and scientifically proven reduced operator fatigue, in all welding positions. Improved handling and reduced strain have further been shown to have a measurable impact on weld seam quality.

MB EVO PRO torches offer the best performance to weight ratio of any comparable torch on the market.

- Low weight BIKOX® (LW) – offering weight reduction of up to 34%
- Genuine two-component handle – robust and ergonomic
- Optimum trigger position and tapered handle design – for precise predictable handling
- Unique internal geometry for air cooled torches – enabling a cooler grip with maximum mechanical strength
- Proven "MB" wear parts – for long, economic service life
- Robust, optimised central connector



### MB EVO PRO 24

#### Technical data (EN 60 974-7):

Rating: 250 A CO<sub>2</sub>  
220 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB EVO PRO 26

#### Technical data (EN 60 974-7):

Rating: 270 A CO<sub>2</sub>  
240 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB EVO PRO 36

#### Technical data (EN 60 974-7):

Rating: 320 A CO<sub>2</sub>  
290 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

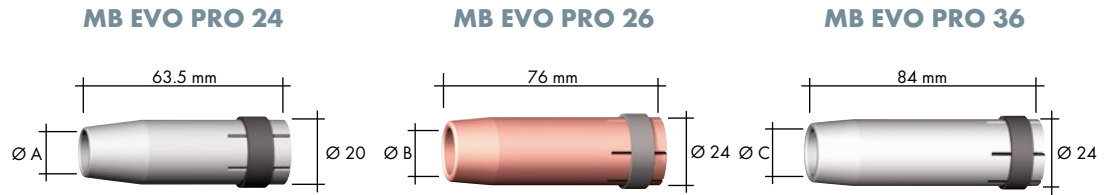
Wire size: 0.8 - 1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB EVO PRO 24	Type "MB EVO PRO"	012.0371.1	012.0372.1	012.0373.1	50°	012.0374.1
MB EVO PRO 26	Type "MB EVO PRO"	018.0211.1	018.0212.1	018.0213.1	50°	018.0214.1
MB EVO PRO 36	Type "MB EVO PRO"	014.0529.1	014.0530.1	014.0531.1	50°	014.0518.1



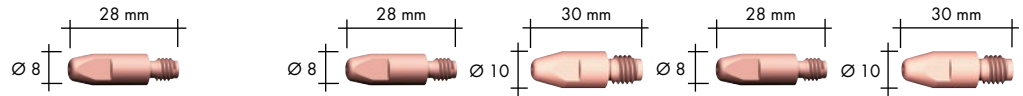
# MB EVO PRO 24, MB EVO PRO 26, MB EVO PRO 36

## Wear parts



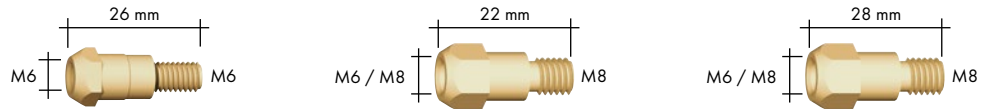
## Gas nozzle (10 pcs.)

	Ø A		Ø B		Ø C	
Cylindrical	Ø 17	145.0047	Ø 20	145.0051	Ø 19	145.0045
Conical	Ø 12.5	145.0080 <sup>1</sup>	Ø 16	145.0085 <sup>2</sup>	Ø 16	145.0078 <sup>3</sup>
Tapered	Ø 10	145.0128	Ø 14	145.0132	Ø 12	145.0126



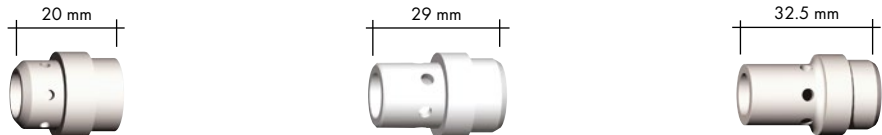
## Contact tip (10 pcs.)

	M6		M6		M8		M6		M8
E-Cu	Ø 0.8	140.0051	140.0051	140.0114	140.0051	140.0114	140.0051	140.0114	140.0114
	Ø 1.0	140.0242	140.0242	140.0313	140.0242	140.0313	140.0242	140.0313	140.0313
	Ø 1.2	140.0379	140.0379	140.0442	140.0379	140.0442	140.0379	140.0442	140.0442
E-Cu for Al	Ø 0.8	141.0001	141.0001	141.0003	141.0001	141.0003	141.0001	141.0003	141.0003
	Ø 1.0	141.0006	141.0006	141.0008	141.0006	141.0008	141.0006	141.0008	141.0008
	Ø 1.2	141.0010	141.0010	141.0015	141.0010	141.0015	141.0010	141.0015	141.0015
CuCrZr	Ø 0.8	140.0054	140.0054	140.0117	140.0054	140.0117	140.0054	140.0117	140.0117
	Ø 1.0	140.0245 <sup>1</sup>	140.0245 <sup>2</sup>	140.0316	140.0245	140.0316	140.0245	140.0316	140.0316
	Ø 1.2	140.0382	140.0382	140.0445	140.0382	140.0445	140.0382	140.0445 <sup>3</sup>	140.0445 <sup>3</sup>



## Contact tip holder (10 pcs.)

M6	142.0003 <sup>1</sup>	142.0007 <sup>2</sup>	142.0005
M8	-	142.0082	142.0020 <sup>3</sup>



## Gas diffuser (10 pcs.)

Standard	012.0183 <sup>1</sup>	018.0116 <sup>2</sup>	014.0261 <sup>3</sup>
Long life	-	-	014.0026
Ceramic	-	018.0141	014.0023

Liner		for 3 m	for 4 m	for 5 m
Liner	Ø 0.8	124.0011	124.0012	124.0015
	Ø 1.0	124.0026 <sup>1, 2</sup>	124.0031 <sup>1, 2</sup>	124.0035 <sup>1, 2</sup>
	Ø 1.2	124.0026 <sup>3</sup>	124.0031 <sup>3</sup>	124.0035 <sup>3</sup>
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008

<sup>1</sup> Included in the standard equipment for complete torches MB EVO PRO 24.

<sup>2</sup> Included in the standard equipment for complete torches MB EVO PRO 26.

<sup>3</sup> Included in the standard equipment for complete torches MB EVO PRO 36.

# MIG/MAG welding torches "MB EVO PRO" liquid cooled

## Rating 300 A up to 575 A

The MB EVO PRO torch series represents a totally new concept in welding torch design, form and function. Unique ergonomics, following extensive research, provide a greater sense of control, enabling the welder to feel as „one“ with his torch. The trigger position, trigger design and ball joint construction guarantee optimum balance and comfort in all welding positions.

The appeal of liquid cooled MB EVO PRO torches is further enhanced due to the redesigned cooling concept and selected material combination. Improved front end cooling increases wear part service life and realises extra performance reserves, enabling welding at higher power outputs.

- Highest quality "MB" wear parts combined with optimised torch cooling – for maximum service life
- Genuine two-component handle – robust and ergonomic
- Optimum trigger position and tapered handle design – for precise predictable handling
- Simplified constructions eases repair through the provision of greater space for maintenance
- High performance hoses with a special protective fabric – enhancing flexibility and comfort
- Robust, optimised central connector with protected hose guide



### MB EVO PRO 240 D

#### Technical data (EN 60 974-7):

Rating: 325 A CO<sub>2</sub>  
300 A mixed gas M21 (DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB EVO PRO 401 D / MB EVO PRO 401

#### Technical data (EN 60 974-7):

Rating: 450 A / 475 A CO<sub>2</sub>  
400 A / 425 A mixed gas M21 (DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB EVO PRO 501 D / MB EVO PRO 501

#### Technical data (EN 60 974-7):

Rating: 550 A / 575 A CO<sub>2</sub>  
500 A / 525 A mixed gas M21 (DIN EN ISO 14175)

Duty cycle: 100%

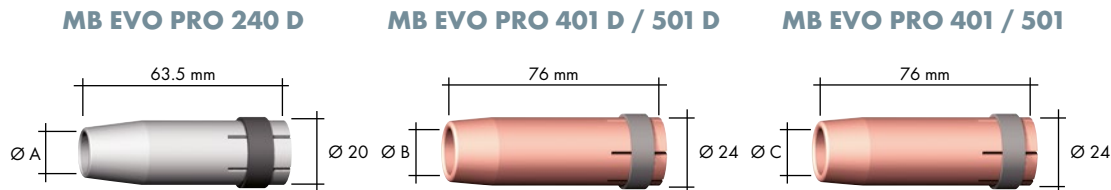
Wire size: 1.0 – 1.6 mm

Torch complete Type	Handle	3 m	Part-No.			Swan neck	
			4 m	5 m	Type	Part-No.	
MB EVO PRO 240 D	Type "MB EVO PRO"	023.0319.1	023.0320.1	023.0321.1	50°	023.0316.1	
MB EVO PRO 401 D	Type "MB EVO PRO"	033.0384.1	033.0385.1	033.0386.1	50°	033.0378.1	
MB EVO PRO 401	Type "MB EVO PRO"	030.0244.1	030.0245.1	030.0246.1	50°	030.0242.1	
MB EVO PRO 501 D	Type "MB EVO PRO"	034.0862.1	034.0863.1	034.0864.1	50°	034.0856.1	
MB EVO PRO 501	Type "MB EVO PRO"	032.0269.1	032.0270.1	032.0271.1	50°	032.0267.1	

**Note for liquid cooled torches:** To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

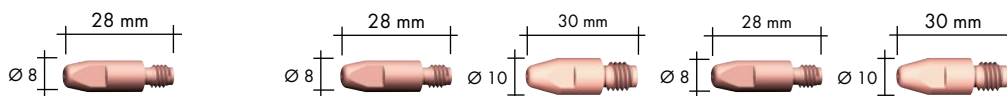
# MB EVO PRO 240 D, MB EVO PRO 401 / 401 D, MB EVO PRO 501 / 501 D

## Wear parts



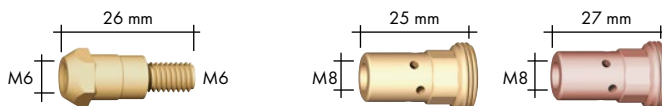
## Gas nozzle (10 pcs.)

	Ø A		Ø B		Ø C	
Cylindrical	Ø 17	145.0047	Ø 20	145.0051	Ø 20	145.0051
Conical	Ø 12.5	145.0080 <sup>1</sup>	Ø 16	145.0085 <sup>2</sup>	Ø 16	145.0085 <sup>3</sup>
Tapered	Ø 10	145.0128	Ø 14	145.0132	Ø 14	145.0132



## Contact tip (10 pcs.)

		M6	M6	M8	M6	M8
E-Cu	Ø 0.8	140.0051	140.0051	140.0114	140.0051	140.0114
	Ø 1.0	140.0242	140.0242	140.0313	140.0242	140.0313
	Ø 1.2	140.0379	140.0379	140.0442	140.0379	140.0442
	Ø 1.6	-	140.0555	140.0587	140.0555	140.0587
E-Cu for Al	Ø 0.8	141.0001	141.0001	141.0003	141.0001	141.0003
	Ø 1.0	141.0006	141.0006	141.0008	141.0006	141.0008
	Ø 1.2	141.0010	141.0010	141.0015	141.0010	141.0015
	Ø 1.6	-	141.0020	141.0022	141.0020	141.0022
CuCrZr	Ø 0.8	140.0054	140.0054	140.0117	140.0054	140.0117
	Ø 1.0	140.0245 <sup>1</sup>	140.0245	140.0316	140.0245	140.0316
	Ø 1.2	140.0382	140.0382	140.0445 <sup>2</sup>	140.0382	140.0445 <sup>3</sup>
	Ø 1.6	-	140.0558	140.0590	140.0558	140.0590



## Contact tip holder (10 pcs.)

M6	142.0003 <sup>1</sup>	142.0008	-	-
M8	-	142.0022	142.0201.10 <sup>2</sup>	-



## Gas diffuser (10 pcs.)

Standard	012.0183 <sup>1</sup>	030.0145 <sup>2</sup>	030.0145 <sup>3</sup>
Long life	-	030.0037	030.0037
Ceramic	-	030.0190	030.0190

Liner		for 3 m			for 4 m			for 5 m			
		Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6	Ø 0.8	Ø 1.0
Liner	Ø 0.8	124.0137	124.0138	124.0138	124.0138	124.0139					
	Ø 1.0	124.0111 <sup>1</sup>	124.0112 <sup>1</sup>	124.0112 <sup>1</sup>	124.0112 <sup>1</sup>	124.0113 <sup>1</sup>					
	Ø 1.2	124.0111 <sup>2,3</sup>	124.0112 <sup>2,3</sup>	124.0112 <sup>2,3</sup>	124.0112 <sup>2,3</sup>	124.0113 <sup>2,3</sup>					
	Ø 1.6	124.0114	124.0115	124.0115	124.0115	124.0116					
PTFE liner	Ø 0.8	126.0005	126.0008	126.0008	126.0008	126.0011					
	Ø 1.0	126.0021	126.0026	126.0026	126.0026	126.0028					
	Ø 1.2	126.0021	126.0026	126.0026	126.0026	126.0028					
	Ø 1.6	126.0039	126.0042	126.0042	126.0042	126.0045					
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0003	127.0003	127.0004					
	Ø 1.0	127.0005	127.0007	127.0007	127.0007	127.0008					
	Ø 1.2	127.0005	127.0007	127.0007	127.0007	127.0008					
	Ø 1.6	127.0010	127.0012	127.0012	127.0012	127.0013					

<sup>1</sup> Included in the standard equipment for complete torches MB EVO PRO 240 D.

<sup>2</sup> Included in the standard equipment for complete torches MB EVO PRO 401 D / 501 D.

<sup>3</sup> Included in the standard equipment for complete torches MB EVO PRO 401 / 501.

# MIG/MAG welding torches "MB EVO" air cooled

## Rating 150 A up to 230 A

The MB EVO torch series stands for a completely new handling concept that goes down new roads with regard to form and function. The welding torch forms a strong unit together with the welder's hand. The unique ergonomics as interplay between handle, trigger position, trigger design and ball joint construction guarantees a good feeling for welding in all working positions as well as the best results.

- Genuine two-component handle – robust and ergonomical
- Optimum trigger position and tapered handle design – for precise and safe handling
- Special internal geometry with air cooled torches – for "cool" handles and maximum mechanical strength
- Proven "MB" wearing part concept – for a long service life
- Solid, size-optimised central connector



### MB EVO 15

#### Technical data (EN 60 974-7):

Rating:	180 / 150 A CO <sub>2</sub> 180 / 150 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	35% / 60%
Wire size:	0.6 – 1.0 mm

### MB EVO 25

#### Technical data (EN 60 974-7):

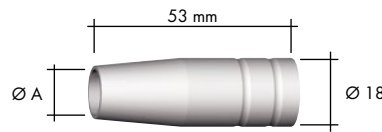
Rating:	230 A CO <sub>2</sub> 200 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8 – 1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB EVO 15	Type "MB EVO"	002.0709.1	002.0710.1	002.0711.1	50°	002.0715.1
MB EVO 25	Type "MB EVO"	004.0668.1	004.0669.1	004.0670.1	50°	004.0663.1

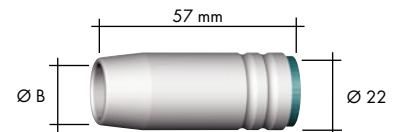
# MB EVO 15, MB EVO 25

## Wear parts

### MB EVO 15

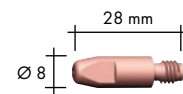
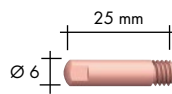


### MB EVO 25



## Gas nozzle (10 pcs.)

	Ø A		Ø B	
Cylindrical	Ø 16	145.0041	Ø 18	145.0042
Conical	Ø 12	145.0075 <sup>1</sup>	Ø 15	145.0076 <sup>2</sup>
Tapered	Ø 9.5	145.0123	Ø 11.5	145.0124



## Contact tip (10 pcs.)

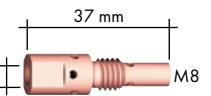
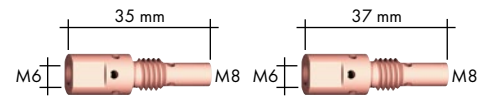
		M6	M6
E-Cu	Ø 0.6	140.0008	-
	Ø 0.8	140.0059 <sup>1</sup>	140.0051
	Ø 1.0	140.0253	140.0242 <sup>2</sup>
	Ø 1.2	-	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	-	141.0010
CuCrZr	Ø 0.6	140.0855	-
	Ø 0.8	140.0062	140.0054
	Ø 1.0	140.0256	140.0245
	Ø 1.2	-	140.0382

## Nozzle spring (100 pcs.)



	002.0058 <sup>1</sup>	003.0013 <sup>2</sup>
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## Gas nozzle holder (1 pc.) / Contact tip holder (10 pcs.)



M6	002.0078 <sup>1</sup>	142.0001 <sup>2</sup>	142.0267.10
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Liner	for 3 m				for 4 m				for 5 m			
	Ø 0.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 0.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 0.6	Ø 0.8	Ø 1.0	Ø 1.2
Liner	Ø 0.6	124.0011	124.0011 <sup>1</sup>	124.0011	124.0012	124.0012 <sup>1</sup>	124.0012	124.0012	124.0015	124.0015 <sup>1</sup>	124.0015	124.0015
	Ø 0.8	124.0011 <sup>1</sup>	124.0011 <sup>1</sup>	124.0011	124.0012 <sup>1</sup>	124.0012 <sup>1</sup>	124.0012	124.0012	124.0015 <sup>1</sup>	124.0015 <sup>1</sup>	124.0015	124.0015
	Ø 1.0	124.0026 <sup>2</sup>	124.0026 <sup>2</sup>	124.0026	124.0031 <sup>2</sup>	124.0031 <sup>2</sup>	124.0031	124.0031	124.0035 <sup>2</sup>	124.0035 <sup>2</sup>	124.0035	124.0035
	Ø 1.2	124.0026	124.0026	124.0026	124.0031	124.0031	124.0031	124.0031	124.0035	124.0035	124.0035	124.0035
PTFE liner	Ø 0.6	126.0005	126.0005	126.0005	126.0008	126.0008	126.0008	126.0008	126.0011	126.0011	126.0011	126.0011
	Ø 0.8	126.0005	126.0005	126.0005	126.0008	126.0008	126.0008	126.0008	126.0011	126.0011	126.0011	126.0011
	Ø 1.0	126.0021	126.0021	126.0021	126.0026	126.0026	126.0026	126.0026	126.0028	126.0028	126.0028	126.0028
	Ø 1.2	126.0021	126.0021	126.0021	126.0026	126.0026	126.0026	126.0026	126.0028	126.0028	126.0028	126.0028
Carbon PTFE liner	Ø 0.6	127.0002	127.0002	127.0002	127.0003	127.0003	127.0003	127.0003	127.0004	127.0004	127.0004	127.0004
	Ø 0.8	127.0002	127.0002	127.0002	127.0003	127.0003	127.0003	127.0003	127.0004	127.0004	127.0004	127.0004
	Ø 1.0	127.0005	127.0005	127.0005	127.0007	127.0007	127.0007	127.0007	127.0008	127.0008	127.0008	127.0008
	Ø 1.2	127.0005	127.0005	127.0005	127.0007	127.0007	127.0007	127.0007	127.0008	127.0008	127.0008	127.0008

<sup>1</sup> Included in the standard equipment for complete torches MB EVO 15.

<sup>2</sup> Included in the standard equipment for complete torches MB EVO 25.

# MIG/MAG welding torches "MB EVO" air cooled

## Rating 220 A up to 320 A

The MB EVO torch series stands for a completely new handling concept that goes down new roads with regard to form and function. The welding torch forms a strong unit together with the welder's hand. The unique ergonomics as interplay between handle, trigger position, trigger design and ball joint construction guarantees a good feeling for welding in all working positions as well as the best results.

- Genuine two-component handle – robust and ergonomical
- Optimum trigger position and tapered handle design – for precise and safe handling
- Special internal geometry with air cooled torches – for "cool" handles and maximum mechanical strength
- Proven "MB" wearing part concept – for a long service life
- Solid, size-optimised central connector



### MB EVO 24

#### Technical data (EN 60 974-7):

Rating: 250 A CO<sub>2</sub>  
220 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB EVO 26

#### Technical data (EN 60 974-7):

Rating: 270 A CO<sub>2</sub>  
240 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB EVO 36

#### Technical data (EN 60 974-7):

Rating: 320 A CO<sub>2</sub>  
290 A mixed gas M21  
(DIN EN ISO 14175)

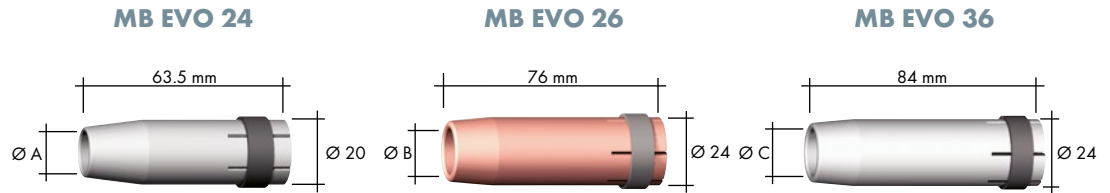
Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB EVO 24	Type "MB EVO"	012.0368.1	012.0369.1	012.0370.1	50°	012.0374.1
MB EVO 26	Type "MB EVO"	018.0208.1	018.0209.1	018.0210.1	50°	018.0214.1
MB EVO 36	Type "MB EVO"	014.0526.1	014.0527.1	014.0528.1	50°	014.0518.1

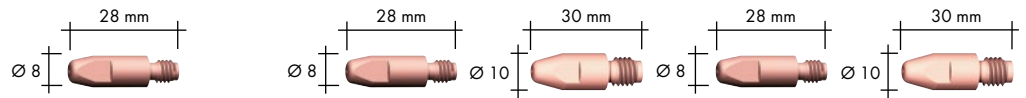
# MB EVO 24, MB EVO 26, MB EVO 36

## Wear parts



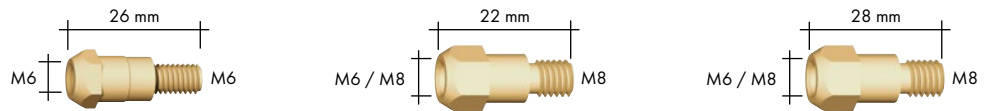
### Gas nozzle (10 pcs.)

	Ø A		Ø B		Ø C	
Cylindrical	Ø 17	145.0047	Ø 20	145.0051	Ø 19	145.0045
Conical	Ø 12.5	145.0080 <sup>1</sup>	Ø 16	145.0085 <sup>2</sup>	Ø 16	145.0078 <sup>3</sup>
Tapered	Ø 10	145.0128	Ø 14	145.0132	Ø 12	145.0126



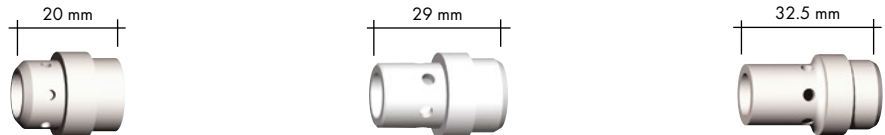
### Contact tip (10 pcs.)

	M6		M6		M8		M6		M8
E-Cu	Ø 0.8	140.0051	140.0051	140.0114	140.0051	140.0114	140.0051	140.0114	
	Ø 1.0	140.0242 <sup>1</sup>	140.0242 <sup>2</sup>	140.0313	140.0242	140.0313	140.0242	140.0313	
	Ø 1.2	140.0379	140.0379	140.0442	140.0379	140.0442 <sup>3</sup>	140.0379	140.0442 <sup>3</sup>	
E-Cu for Al	Ø 0.8	141.0001	141.0001	141.0003	141.0001	141.0003	141.0001	141.0003	
	Ø 1.0	141.0006	141.0006	141.0008	141.0006	141.0008	141.0006	141.0008	
	Ø 1.2	141.0010	141.0010	141.0015	141.0010	141.0015	141.0010	141.0015	
CuCrZr	Ø 0.8	140.0054	140.0054	140.0117	140.0054	140.0117	140.0054	140.0117	
	Ø 1.0	140.0245	140.0245	140.0316	140.0245	140.0316	140.0245	140.0316	
	Ø 1.2	140.0382	140.0382	140.0445	140.0382	140.0445	140.0382	140.0445	



### Contact tip holder (10 pcs.)

M6	142.0003 <sup>1</sup>	142.0007 <sup>2</sup>	142.0005
M8	-	142.0082	142.0020 <sup>3</sup>



### Gas diffuser (10 pcs.)

Standard	012.0183 <sup>1</sup>	018.0116 <sup>2</sup>	014.0261 <sup>3</sup>
Long life	-	-	014.0026
Ceramic	-	018.0141	014.0023

Liner		for 3 m	for 4 m	for 5 m
Liner	Ø 0.8	124.0011	124.0012	124.0015
	Ø 1.0	124.0026 <sup>1, 2</sup>	124.0031 <sup>1, 2</sup>	124.0035 <sup>1, 2</sup>
	Ø 1.2	124.0026 <sup>3</sup>	124.0031 <sup>3</sup>	124.0035 <sup>3</sup>
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008

<sup>1</sup> Included in the standard equipment for complete torches MB EVO 24.

<sup>2</sup> Included in the standard equipment for complete torches MB EVO 26.

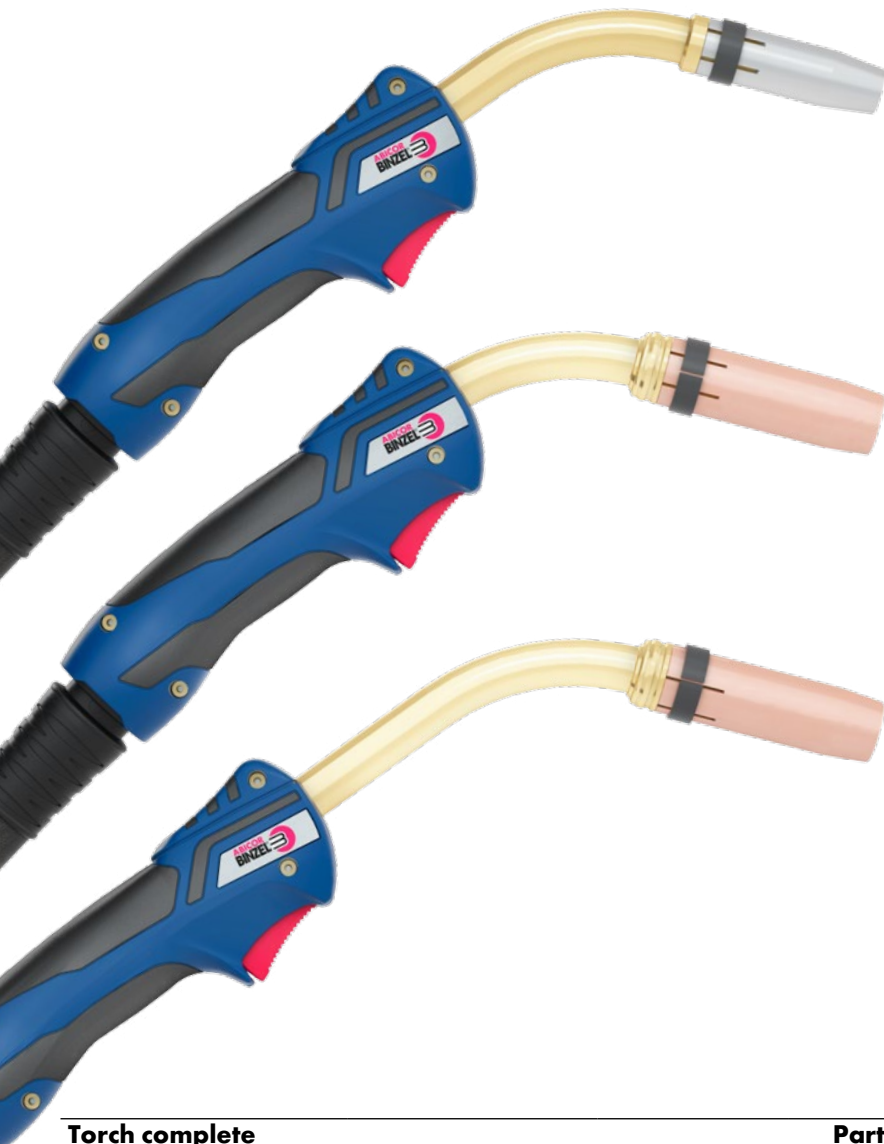
<sup>3</sup> Included in the standard equipment for complete torches MB EVO 36.

# MIG/MAG welding torches "MB EVO" liquid cooled

## Rating 270 A up to 550 A

The MB EVO torch series stands for a completely new handling concept that goes down new roads with regard to form and function. The welding torch forms a strong unit together with the welder's hand. The unique ergonomics as interplay between handle, trigger position, trigger design and ball joint construction guarantees a good feeling for welding in all working positions as well as the best results.

- Genuine two-component handle – robust and ergonomical
- Proven "MB" wearing part concept and media hoses
- Optimum trigger position, tapered handle design and sophisticated ball joint construction – for best handling in all welding positions
- Easy to repair construction down to the last detail – best space conditions for the simplest maintenance measures
- Solid, size-optimised central connector with protected hose guide



### MB EVO 240 D

#### Technical data (EN 60 974-7):

Rating: 300 A CO<sub>2</sub>  
270 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB EVO 401 D / MB EVO 401

#### Technical data (EN 60 974-7):

Rating: 400 A / 450 A CO<sub>2</sub>  
350 A / 400 A mixed gas  
M21 (DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB EVO 501 D / MB EVO 501

#### Technical data (EN 60 974-7):

Rating: 500 A / 550 A CO<sub>2</sub>  
450 A / 500 A mixed gas  
M21 (DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 1.0 – 1.6 mm

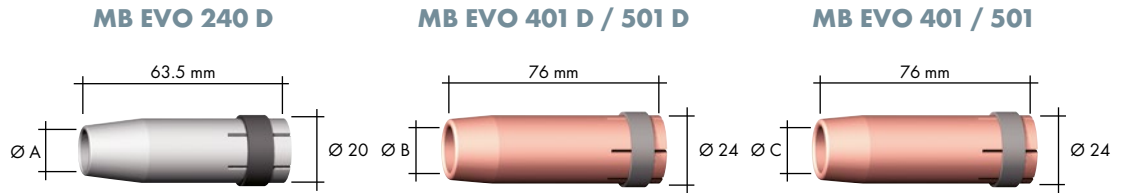
Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB EVO 240 D	Type "MB EVO"	023.0322.1	023.0323.1	023.0324.1	50°	023.0316.1
MB EVO 401 D	Type "MB EVO"	033.0387.1	033.0388.1	033.0389.1	50°	033.0378.1
MB EVO 401	Type "MB EVO"	030.0247.1	030.0248.1	030.0249.1	50°	030.0242.1
MB EVO 501 D	Type "MB EVO"	034.0865.1	034.0866.1	034.0867.1	50°	034.0856.1
MB EVO 501	Type "MB EVO"	032.0272.1	032.0273.1	032.0274.1	50°	032.0267.1

**Note for liquid cooled torches:** To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.



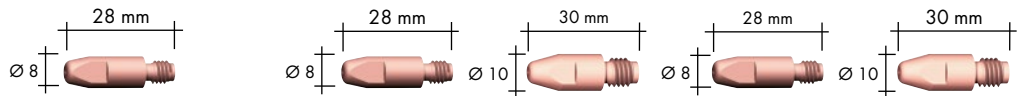
# MB EVO 240 D, MB EVO 401 / 401 D, MB EVO 501 / 501 D

## Wear parts



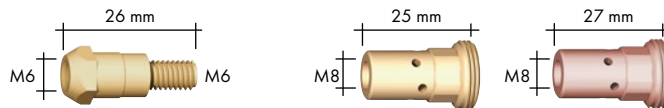
## Gas nozzle (10 pcs.)

	Ø A		Ø B		Ø C	
Cylindrical	Ø 17	145.0047	Ø 20	145.0051	Ø 20	145.0051
Conical	Ø 12.5	145.0080 <sup>1</sup>	Ø 16	145.0085 <sup>2</sup>	Ø 16	145.0085 <sup>3</sup>
Tapered	Ø 10	145.0128	Ø 14	145.0132	Ø 14	145.0132



## Contact tip (10 pcs.)

		M6	M6	M8	M6	M8
E-Cu	Ø 0.8	140.0051	140.0051	140.0114	140.0051	140.0114
	Ø 1.0	140.0242 <sup>1</sup>	140.0242	140.0313	140.0242	140.0313
	Ø 1.2	140.0379	140.0379	140.0442 <sup>2</sup>	140.0379	140.0442 <sup>3</sup>
	Ø 1.6	-	140.0555	140.0587	140.0555	140.0587
E-Cu for Al	Ø 0.8	141.0001	141.0001	141.0003	141.0001	141.0003
	Ø 1.0	141.0006	141.0006	141.0008	141.0006	141.0008
	Ø 1.2	141.0010	141.0010	141.0015	141.0010	141.0015
	Ø 1.6	-	141.0020	141.0022	141.0020	141.0022
CuCrZr	Ø 0.8	140.0054	140.0054	140.0117	140.0054	140.0117
	Ø 1.0	140.0245	140.0245	140.0316	140.0245	140.0316
	Ø 1.2	140.0382	140.0382	140.0445	140.0382	140.0445
	Ø 1.6	-	140.0558	140.0590	140.0558	140.0590



## Contact tip holder (10 pcs.)

M6	142.0003 <sup>1</sup>	142.0008	-	-
M8	-	142.0022 <sup>2</sup>	142.0201.10	-



## Gas diffuser (10 pcs.)

Standard	012.0183 <sup>1</sup>	030.0145 <sup>2</sup>	030.0145 <sup>3</sup>
Long life	-	030.0037	030.0037
Ceramic	-	030.0190	030.0190

Liner		for 3 m			for 4 m			for 5 m			
		Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6	Ø 0.8	Ø 1.0
Liner	Ø 0.8	124.0137	124.0138	124.0138	124.0139						
	Ø 1.0	124.0111 <sup>1</sup>	124.0112 <sup>1</sup>	124.0112 <sup>1</sup>	124.0113 <sup>1</sup>						
	Ø 1.2	124.0111 <sup>2,3</sup>	124.0112 <sup>2,3</sup>	124.0112 <sup>2,3</sup>	124.0113 <sup>2,3</sup>						
	Ø 1.6	124.0114	124.0115	124.0115	124.0116						
PTFE liner	Ø 0.8	126.0005	126.0008	126.0008	126.0011						
	Ø 1.0	126.0021	126.0026	126.0026	126.0028						
	Ø 1.2	126.0021	126.0026	126.0026	126.0028						
	Ø 1.6	126.0039	126.0042	126.0042	126.0045						
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0003	127.0004						
	Ø 1.0	127.0005	127.0007	127.0007	127.0008						
	Ø 1.2	127.0005	127.0007	127.0007	127.0008						
	Ø 1.6	127.0010	127.0012	127.0012	127.0013						

<sup>1</sup> Included in the standard equipment for complete torches MB EVO 240 D.

<sup>2</sup> Included in the standard equipment for complete torches MB EVO 401 D / 501 D.

<sup>3</sup> Included in the standard equipment for complete torches MB EVO 401 / 501.

# MIG/MAG welding torches "MB GRIP" air cooled

## Rating 150 A up to 230 A

The MIG/MAG Torch series "MB GRIP", in air and liquid cooled varieties is the finest solution of its kind. It combines progressive technology and quality with optimum ergonomics, enabling trouble-free operation for every application.

"GRIP" insert and ball joint in the handle guarantees high grip safety as well as optimal handling. All torches are carefully designed to provide comfortable and precise operation.

- Ergonomic short handle with "GRIP" insert – for best accessibility
- "GRIP" soft components on the handle and thumb rest – positive handling even in extreme conditions
- Short ball joint with optimum movement radius – perfect handling
- Optimum cooling of the torch – extending torch life
- Bikox® R air cooled torches – high flexibility even at low temperatures, extremely UV resistant, considerably increased temperature resistance and tensile strength
- Time saving torch change over due to the ABICOR BINZEL central connector



### MB GRIP 15 AK

#### Technical data (EN 60 974-7):

Rating:	180 A CO <sub>2</sub> 150 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.6 – 1.0 mm

### MB GRIP 25 AK

#### Technical data (EN 60 974-7):

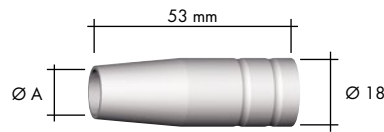
Rating:	230 A CO <sub>2</sub> 200 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8 – 1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB GRIP 15 AK	Type "MB GRIP"	002.0604	002.0605	002.0606	50°	002.0009
MB GRIP 25 AK	Type "MB GRIP"	004.0510	004.0511	004.0512	50°	004.0012

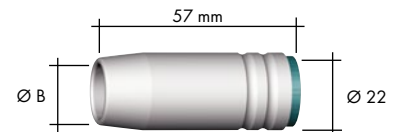
# MB GRIP 15, MB GRIP 25

## Wear parts

### MB GRIP 15 AK

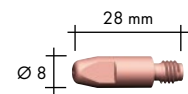
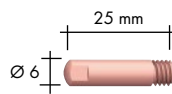


### MB GRIP 25 AK



## Gas nozzle (10 pcs.)

	Ø A		Ø B	
Cylindrical	Ø 16	145.0041	Ø 18	145.0042
Conical	Ø 12	145.0075 <sup>1</sup>	Ø 15	145.0076 <sup>2</sup>
Tapered	Ø 9.5	145.0123	Ø 11.5	145.0124



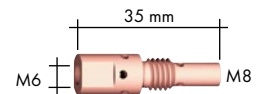
## Contact tip (10 pcs.)

		M6		M6	
E-Cu	Ø 0.6	140.0008	-		
	Ø 0.8	140.0059 <sup>1</sup>	140.0051		
	Ø 1.0	140.0253	140.0242 <sup>2</sup>		
	Ø 1.2	-	140.0379		
E-Cu for Al	Ø 0.8	141.0002	141.0001		
	Ø 1.0	141.0007	141.0006		
	Ø 1.2	-	141.0010		
CuCrZr	Ø 0.6	140.0855	-		
	Ø 0.8	140.0062	140.0054		
	Ø 1.0	140.0256	140.0245		
	Ø 1.2	-	140.0382		



## Nozzle spring (100 pcs.)

	002.0058 <sup>1</sup>	003.0013 <sup>2</sup>
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## Gas nozzle holder / Contact tip holder

M6	002.0078 <sup>1</sup>	142.0001 <sup>2</sup> (10 pcs.)
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Liner	for 3 m				for 4 m				for 5 m								
	Insulated liner	Ø 0.6	124.0011	124.0012	124.0015	Ø 0.8	124.0011 <sup>1</sup>	124.0012 <sup>1</sup>	124.0015 <sup>1</sup>	Ø 1.0	124.0026 <sup>2</sup>	124.0031 <sup>2</sup>	124.0035 <sup>2</sup>	Ø 1.2	124.0026	124.0031	124.0035
PTFE liner	Ø 0.6	126.0005	126.0008	126.0011	Ø 0.8	126.0005	126.0008	126.0011	Ø 1.0	126.0021	126.0026	126.0028	Ø 1.2	126.0021	126.0026	126.0028	
	Carbon PTFE liner	Ø 0.6	127.0002	127.0003	127.0004	Ø 0.8	127.0002	127.0003	127.0004	Ø 1.0	127.0005	127.0007	127.0008	Ø 1.2	127.0005	127.0007	127.0008

<sup>1</sup> Included in the standard equipment for complete torches MB GRIP 15 AK.

<sup>2</sup> Included in the standard equipment for complete torches MB GRIP 25 AK.

# MIG/MAG welding torches "MB GRIP" air cooled

## Rating 220 A up to 320 A

- Ergonomic short handle with "GRIP" insert – for best accessibility
- "GRIP", soft components on the handle and thumb rest – positive handling even in extreme conditions
- Short ball joint with optimum movement radius – perfect handling
- Optimum cooling of the torch – extending torch life
- Bikox® R air cooled torches – high flexibility even at low temperatures, extremely UV resistant, considerably increased temperature resistance and tensile strength
- Time saving torch change over due to the ABICOR BINZEL central connector



### MB GRIP 24 KD

#### Technical data (EN 60 974-7):

Rating: 250 A CO<sub>2</sub>  
220 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB GRIP 26 KD

#### Technical data (EN 60 974-7):

Rating: 270 A CO<sub>2</sub>  
240 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB GRIP 36 KD

#### Technical data (EN 60 974-7):

Rating: 320 A CO<sub>2</sub>  
290 A mixed gas M21  
(DIN EN ISO 14175)

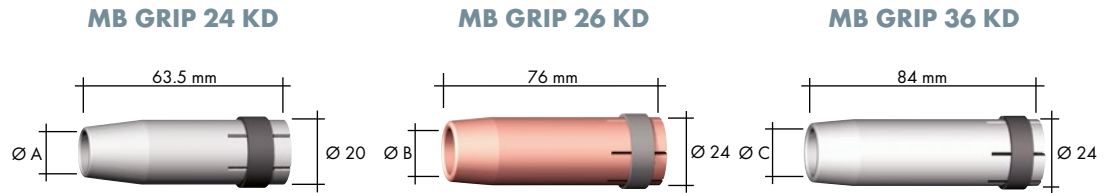
Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB GRIP 24 KD	Type "MB GRIP"	012.0251	012.0252	012.0253	50°	012.0001
MB GRIP 26 KD	Type "MB GRIP"	018.0146	018.0147	018.0148	50°	018.0001
MB GRIP 36 KD	Type "MB GRIP"	014.0334	014.0335	014.0336	50°	014.0006

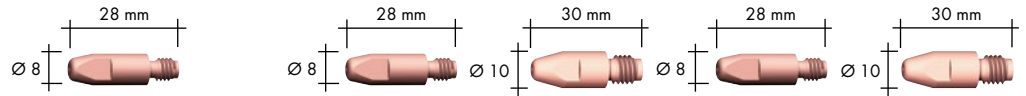
# MB GRIP 24, MB GRIP 26, MB GRIP 36

## Wear parts



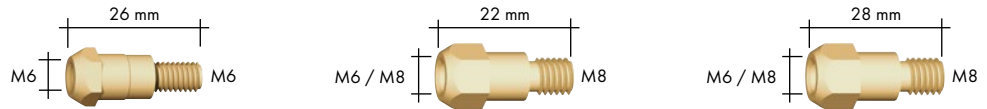
## Gas nozzle (10 pcs.)

	Ø A		Ø B		Ø C	
Cylindrical	Ø 17	145.0047	Ø 20	145.0051	Ø 19	145.0045
Conical	Ø 12.5	145.0080 <sup>1</sup>	Ø 16	145.0085 <sup>2</sup>	Ø 16	145.0078 <sup>3</sup>
Tapered	Ø 10	145.0128	Ø 14	145.0132	Ø 12	145.0126



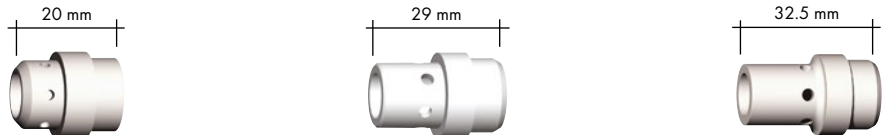
## Contact tip (10 pcs.)

	M6		M6	M8	M6	M8
E-Cu	Ø 0.8	140.0051	140.0051	140.0114	140.0051	140.0114
	Ø 1.0	140.0242 <sup>1</sup>	140.0242 <sup>2</sup>	140.0313	140.0242	140.0313
	Ø 1.2	140.0379	140.0379	140.0442	140.0379	140.0442 <sup>3</sup>
E-Cu for Al	Ø 0.8	141.0001	141.0001	141.0003	141.0001	141.0003
	Ø 1.0	141.0006	141.0006	141.0008	141.0006	141.0008
	Ø 1.2	141.0010	141.0010	141.0015	141.0010	141.0015
CuCrZr	Ø 0.8	140.0054	140.0054	140.0117	140.0054	140.0117
	Ø 1.0	140.0245	140.0245	140.0316	140.0245	140.0316
	Ø 1.2	140.0382	140.0382	140.0445	140.0382	140.0445



## Contact tip holder (10 pcs.)

M6	142.0003 <sup>1</sup>	142.0007 <sup>2</sup>	142.0005
M8	-	142.0082	142.0020 <sup>3</sup>



## Gas diffuser (10 pcs.)

Standard	012.0183 <sup>1</sup>	018.0116 <sup>2</sup>	014.0261 <sup>3</sup>
Long life	-	-	014.0026
Ceramic	-	018.0141	014.0023

Liner		for 3 m	for 4 m	for 5 m
Insulated liner	Ø 0.8	124.0011	124.0012	124.0015
	Ø 1.0	124.0026 <sup>1, 2</sup>	124.0031 <sup>1, 2</sup>	124.0035 <sup>1, 2</sup>
	Ø 1.2	124.0026 <sup>3</sup>	124.0031 <sup>3</sup>	124.0035 <sup>3</sup>
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008

<sup>1</sup> Included in the standard equipment for complete torches MB GRIP 24 KD.

<sup>2</sup> Included in the standard equipment for complete torches MB GRIP 26 KD.

<sup>3</sup> Included in the standard equipment for complete torches MB GRIP 36 KD.

# MIG/MAG welding torches "MB GRIP" liquid cooled

## Rating 270 A up to 550 A

- Ergonomic short handle with "GRIP" insert – for best accessibility
- "GRIP", soft components on the handle and thumb rest – positive handling even in extreme conditions
- Ball joint with optimum movement radius – perfect handling
- Optimum cooling of the torch – extending torch life
- Time saving torch change over due to the ABICOR BINZEL central connector
- Ergonomically and technically proven and 100% reliable



### MB GRIP 240 D

#### Technical data (EN 60 974-7):

Rating: 300 A CO<sub>2</sub>  
270 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB GRIP 401 D / MB GRIP 401

#### Technical data (EN 60 974-7):

Rating: 400 A / 450 A CO<sub>2</sub>  
350 A / 400 A mixed gas  
M21 (DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB GRIP 501 D / MB GRIP 501

#### Technical data (EN 60 974-7):

Rating: 500 A / 550 A CO<sub>2</sub>  
450 A / 500 A mixed gas  
M21 (DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 1.0 – 1.6 mm

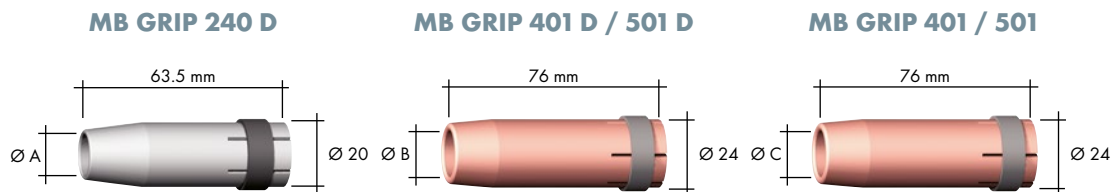
#### Note for liquid cooled torches:

To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB GRIP 240 D	Type "MB GRIP"	023.0225	023.0226	023.0227	50°	023.0228
MB GRIP 401 D	Type "MB GRIP"	033.0271	033.0272	033.0273	50°	033.0277
MB GRIP 401	Type "MB GRIP"	030.0205	030.0206	030.0207	50°	030.0208
MB GRIP 501 D	Type "MB GRIP"	034.0492	034.0493	034.0494	50°	034.0496
MB GRIP 501	Type "MB GRIP"	032.0231	032.0232	032.0233	50°	032.0234

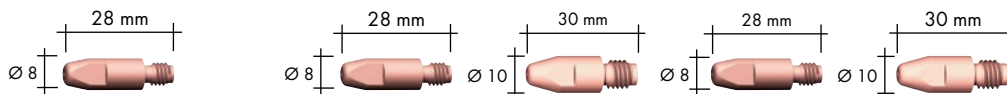
# MB GRIP 240 D, MB GRIP 401 / 401 D, MB GRIP 501 / 501 D

## Wear parts



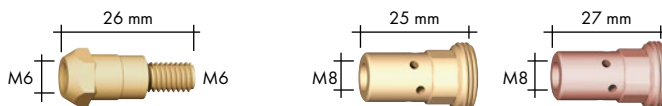
### Gas nozzle (10 pcs.)

	Ø A		Ø B		Ø C	
Cylindrical	Ø 17	145.0047	Ø 20	145.0051	Ø 20	145.0051
Conical	Ø 12.5	145.0080 <sup>1</sup>	Ø 16	145.0085 <sup>2</sup>	Ø 16	145.0085 <sup>3</sup>
Tapered	Ø 10	145.0128	Ø 14	145.0132	Ø 14	145.0132



### Contact tip (10 pcs.)

		M6	M6	M8	M6	M8
E-Cu	Ø 0.8	140.0051	140.0051	140.0114	140.0051	140.0114
	Ø 1.0	140.0242 <sup>1</sup>	140.0242	140.0313	140.0242	140.0313
	Ø 1.2	140.0379	140.0379	140.0442 <sup>2</sup>	140.0379	140.0442 <sup>3</sup>
	Ø 1.6	-	140.0555	140.0587	140.0555	140.0587
E-Cu for Al	Ø 0.8	141.0001	141.0001	141.0003	141.0001	141.0003
	Ø 1.0	141.0006	141.0006	141.0008	141.0006	141.0008
	Ø 1.2	141.0010	141.0010	141.0015	141.0010	141.0015
	Ø 1.6	-	141.0020	141.0022	141.0020	141.0022
CuCrZr	Ø 0.8	140.0054	140.0054	140.0117	140.0054	140.0117
	Ø 1.0	140.0245	140.0245	140.0316	140.0245	140.0316
	Ø 1.2	140.0382	140.0382	140.0445	140.0382	140.0445
	Ø 1.6	-	140.0558	140.0590	140.0558	140.0590



### Contact tip holder (10 pcs.)

M6	142.0003 <sup>1</sup>	142.0008	-	-
M8	-	142.0022	142.0201.10 <sup>2</sup>	-



### Gas diffuser (10 pcs.)

Standard	012.0183 <sup>1</sup>	030.0145 <sup>2</sup>	030.0145 <sup>3</sup>
Long life	-	030.0037	030.0037
Ceramic	-	030.0190	030.0190

Liner		for 3 m			for 4 m			for 5 m		
		Ø 0.8	Ø 1.0	Ø 1.2	Ø 0.8	Ø 1.0	Ø 1.2	Ø 0.8	Ø 1.0	Ø 1.2
Liner	Ø 0.8	122.0005	122.0007	122.0009	122.0005	122.0007	122.0009	122.0005	122.0007	122.0009
	Ø 1.0	122.0031 <sup>1</sup>	122.0036 <sup>1</sup>	122.0039 <sup>1</sup>	122.0031 <sup>1</sup>	122.0036 <sup>1</sup>	122.0039 <sup>1</sup>	122.0031 <sup>1</sup>	122.0036 <sup>1</sup>	122.0039 <sup>1</sup>
	Ø 1.2	122.0031 <sup>2,3</sup>	122.0036 <sup>2,3</sup>	122.0039 <sup>2,3</sup>	122.0031 <sup>2,3</sup>	122.0036 <sup>2,3</sup>	122.0039 <sup>2,3</sup>	122.0031 <sup>2,3</sup>	122.0036 <sup>2,3</sup>	122.0039 <sup>2,3</sup>
	Ø 1.6	122.0056	122.0060	122.0063	122.0056	122.0060	122.0063	122.0056	122.0060	122.0063
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011	126.0005	126.0008	126.0011	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028	126.0021	126.0026	126.0028	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028	126.0021	126.0026	126.0028	126.0021	126.0026	126.0028
	Ø 1.6	126.0039	126.0042	126.0045	126.0039	126.0042	126.0045	126.0039	126.0042	126.0045
Carbon	Ø 0.8	127.0002	127.0003	127.0004	127.0002	127.0003	127.0004	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008	127.0005	127.0007	127.0008	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008	127.0005	127.0007	127.0008	127.0005	127.0007	127.0008
	Ø 1.6	127.0010	127.0012	127.0013	127.0010	127.0012	127.0013	127.0010	127.0012	127.0013

<sup>1</sup> Included in the standard equipment for complete torches MB GRIP 240 D.

<sup>2</sup> Included in the standard equipment for complete torches MB GRIP 401 D / 501 D.

<sup>3</sup> Included in the standard equipment for complete torches MB GRIP 401 / 501.

# MIG/MAG welding torches "ABIMIG® GRIP W"

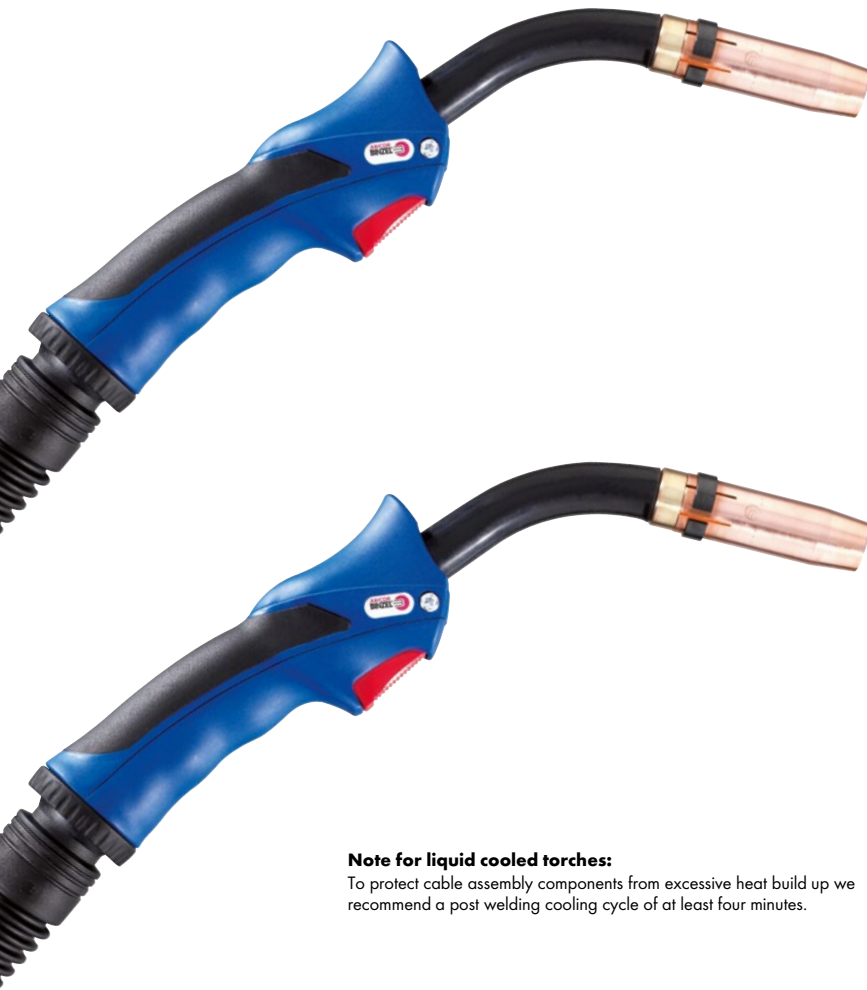
## Liquid cooled • rating 400 A up to 575 A

MIG/MAG welding torches ABIMIG® GRIP W liquid cooled with the innovative two-component handle system "GRIP" combine ergonomics and feel with all common module variations (for switch and control functions) as well as "top trigger" solutions. "GRIP" insert and ball joint in the handle guarantees secure grip and optimal handling.

The liquid cooled ABIMIG® GRIP W torches particularly excel in pulse arc welding due to an optimized dual-circuit cooling system that ensures "extra-cool" wear parts and therefore extended service life.

All torches are thoroughly designed to provide comfortable and precise operation.

- Dual-circuit cooling system with increased cooling liquid flow and novel heat dissipation for optimum power and heat conduction – guarantees less spatter adhesion and therefore extremely extended service life of wear and spare parts
- Additional torch neck protection through a UV, ozone and temperature resistant protective cover – for longer torch service life
- The newly developed torch neck and handle system ABIMIG® GRIP with ball joint guarantees optimum balance – even for welding tasks when access is difficult
- Except the tip holder, all spare and wear parts of the ABIMIG® GRIP W 555 series are compatible with the torch series MB 401/501 – reduced stocking requirements
- Mechanically resilient and robust tip holder (optionally soldered or changeable) – long service life



### ABIMIG® GRIP W 555 D / ABIMIG® GRIP W 555 D TS

#### Technical data (EN 60 974-7):

Rating:	550 A CO <sub>2</sub> 500 A mixed gas 400 A Pulse
Duty cycle:	M21 (DIN EN ISO 14175) 100%
Wire size:	0.8 – 1.6 mm

### ABIMIG® GRIP W 555

#### Technical data (EN 60 974-7):

Rating:	575 A CO <sub>2</sub> 525 A mixed gas 400 A Pulse
Duty cycle:	M21 (DIN EN ISO 14175) 100%
Wire size:	0.8 – 1.6 mm

#### Note for liquid cooled torches:

To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

Torch complete Type	Handle	3 m	Part-No.			Swan neck	
			4 m	5 m	Type	Part-No.	
ABIMIG® GRIP W 555 D	Type "ABIMIG® GRIP"	766.0526.1	766.0527.1	766.0528.1	50°	766.0532.1	
ABIMIG® GRIP W 555 D TS	Type "ABIMIG® GRIP"	766.1457.1	766.1458.1	766.1459.1	50°	766.0900.1	
ABIMIG® GRIP W 555	Type "ABIMIG® GRIP"	766.0529.1	766.0530.1	766.0531.1	50°	766.0533.1	



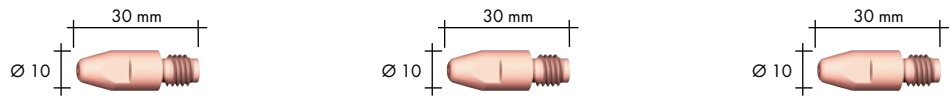
# ABIMIG® GRIP W 555 D, ABIMIG® GRIP W 555, ABIMIG® GRIP W 555 D TS

## Wear parts



## Gas nozzle

	Ø A	ABIMIG® GRIP W 555 D (10 pcs.)	ABIMIG® GRIP W 555 D TS (5 pcs.)	ABIMIG® GRIP W 555 (10 pcs.)
Cylindrical	Ø 20	145.0051	145.0709.5	145.0051
Conical	Ø 16	145.0085 <sup>1</sup>	145.0708.5 <sup>2</sup>	145.0085 <sup>3</sup>
Tapered	Ø 14	145.0132	145.0734.5	145.0132



## Contact tip (10 pcs.)

		M8	M8	M8
E-Cu	Ø 0.8	140.0114	140.0114	140.0114
	Ø 1.0	140.0313	140.0313	140.0313
	Ø 1.2	140.0442	140.0442	140.0442
	Ø 1.6	140.0587	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0003	141.0003	141.0003
	Ø 1.0	141.0008	141.0008	141.0008
	Ø 1.2	141.0015	141.0015	141.0015
	Ø 1.6	141.0022	141.0022	141.0022
CuCrZr	Ø 0.8	140.0117	140.0117	140.0117
	Ø 1.0	140.0316	140.0316	140.0316
	Ø 1.2	140.0445 <sup>1</sup>	140.0445 <sup>2</sup>	140.0445 <sup>3</sup>
	Ø 1.6	140.0590	140.0590	140.0590




## Contact tip holder (10 pcs.)

M8	142.0201.10 <sup>1</sup>	142.0201.10 <sup>2</sup>	-
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## Gas diffuser (10 pcs.)

	030.0145 <sup>1</sup>	030.0145 <sup>2</sup>	030.0145 <sup>3</sup>
Standard	030.0145 <sup>1</sup>	030.0145 <sup>2</sup>	030.0145 <sup>3</sup>
Long life	030.0037	030.0037	030.0037
Ceramic	030.0190	030.0190	030.0190

	Liner	for 3 m			for 4 m			for 5 m					
		Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6	Ø 0.8	Ø 1.0	Ø 1.2	Ø 1.6
	Liner	124.0137	124.0111	124.0111 <sup>1, 2, 3</sup>	124.0114	124.0138	124.0112	124.0112 <sup>1, 2, 3</sup>	124.0115	124.0139	124.0113	124.0113 <sup>1, 2, 3</sup>	124.0116
	PTFE liner	126.0005	126.0021	126.0021	126.0039	126.0008	126.0026	126.0026	126.0042	126.0011	126.0028	126.0028	126.0045
	Carbon	127.0002	127.0005	127.0005	127.0010	127.0003	127.0007	127.0007	127.0012	127.0004	127.0008	127.0008	127.0013
	PTFE liner	127.0005	127.0005	127.0005	127.0010	127.0007	127.0007	127.0007	127.0012	127.0008	127.0008	127.0008	127.0013

<sup>1</sup> Included in the standard equipment for complete torches ABIMIG® GRIP W 555 D.

<sup>2</sup> Included in the standard equipment for complete torches ABIMIG® GRIP W 555 D TS.

<sup>3</sup> Included in the standard equipment for complete torches ABIMIG® GRIP W 555.

# MIG/MAG welding torches Push-Pull Plus

## Air and liquid cooled



### Note for liquid cooled torches:

To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.



The screw-type torch necks can be replaced quickly. They are available as either straight or 45° angled versions. A special interface between the handle and the torch neck makes it possible to turn the necks up to 360°. All torches, both air and liquid-cooled for capacities of up to 400 A, are based on the tried-and-trusted "MB" torch neck design.

The main areas of application for these welding torches include wharfs, manufacturers of containers and ships etc., as well as in vehicle and wagon building. Wherever exact and constant wire feeding is an absolute must.

The welding torches of the Push-Pull Plus series, specially developed for aluminum welding requirements and the use of thin wires, makes problem-free and consistent wire feed and constant wire feed possible, even with longer cable assemblies. A powerful, sturdy pull motor with potentiometer guarantees exact speed regulation. For an optimum wire feed without frictional loss, the contact pressure of the feeding rollers can be regulated precisely and easily directly on the handle. The ergonomic handle ensures optimum, low-fatigue handling.

- Identical motor characteristics as standard Push-Pull
- Consistent and problem-free wire feeding thanks to a powerful pull motor
- Precise contact pressure regulation of the wire feeding rollers directly on the torch
- Available with optional potentiometer for speed regulation
- Wearing parts are identical to those of the tried-and-trusted MB torch series – minimised stocking
- Optimum torch cooling – long tool lives
- Sturdy design – long service life

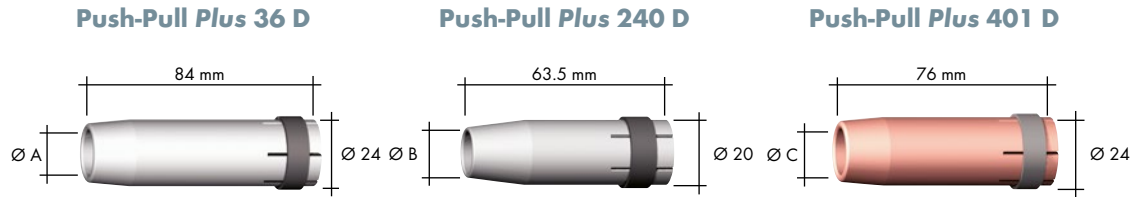
Type	Cooling	Rating		Duty cycle (%)	Wire size (mm)
		CO <sub>2</sub>	Mixed gas M21		
Push-Pull Plus 36 D	air	300 A	270 A	60	0.8-1.2
Push-Pull Plus 240 D	liquid	270 A	240 A	100	0.8-1.2
Push-Pull Plus 401 D	liquid	400 A	350 A	100	0.8-1.2

Torch complete (40 V motor) Type	Part-No.	Part-No.	Part-No.
	8 m without Poti	8 m with Poti	Swan neck
Push-Pull Plus 36 D; straight; GZ-2	085.0104.1	085.0106.1	085.0116.1
Push-Pull Plus 36 D; 45° bend; GZ-2	085.0105.1	085.0107.1	085.0117.1
Push-Pull Plus 240 D; straight; WZ-2	095.0110.1	095.0119.1	095.0040.1
Push-Pull Plus 240 D; 45° bend; WZ-2	095.0111.1	095.0120.1	095.0052.1
Push-Pull Plus 401 D; straight; WZ-2	095.0100.1	095.0114.1	095.0002
Push-Pull Plus 401 D; 45° bend; WZ-2	095.0101.1	095.0115.1	095.0015

Wire feeding roll	Ø 0.8	Ø 1.0	Ø 1.2
ST/AL	095.0064.1	095.0065.1	095.0066.1

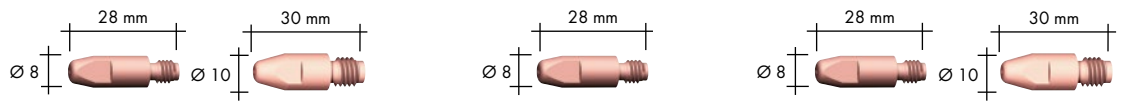
# Push-Pull Plus 36 D, Push-Pull Plus 240 D, Push-Pull Plus 401 D

## Wear parts



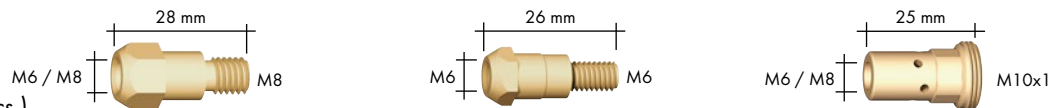
## Gas nozzle (10 pcs.)

	Ø A		Ø B		Ø C	
Cylindrical	Ø 19	145.0045	Ø 17	145.0047	Ø 20	145.0051
Conical	Ø 16	145.0078 <sup>1</sup>	Ø 12.5	145.0080 <sup>2</sup>	Ø 16	145.0085 <sup>3</sup>
Tapered	Ø 12	145.0126	Ø 10	145.0128	Ø 14	145.0132



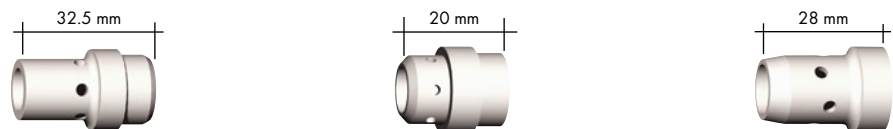
## Contact tip (10 pcs.)

		M6	M8	M6	M6	M8
E-Cu	Ø 0.8	140.0051	140.0114	140.0051	140.0051	140.0114
	Ø 1.0	140.0242	140.0313	140.0242	140.0242	140.0313
	Ø 1.2	140.0379	140.0442 <sup>1</sup>	140.0379 <sup>2</sup>	140.0379	140.0442 <sup>3</sup>
E-Cu for Al	Ø 0.8	141.0001	141.0003	141.0001	141.0001	141.0003
	Ø 1.0	141.0006	141.0008	141.0006	141.0006	141.0008
	Ø 1.2	141.0010	141.0015	141.0010	141.0010	141.0015
CuCrZr	Ø 0.8	140.0054	140.0117	140.0054	140.0054	140.0117
	Ø 1.0	140.0245	140.0316	140.0245	140.0245	140.0316
	Ø 1.2	140.0382	140.0445	140.0382	140.0382	140.0445



## Contact tip holder (10 pcs.)

M6	142.0005	142.0003 <sup>2</sup>	142.0008
M8	142.0020 <sup>1</sup>	-	142.0022 <sup>3</sup>



## Gas diffuser (10 pcs.)

Standard	014.0261 <sup>1</sup>	012.0183 <sup>2</sup>	030.0145 <sup>3</sup>
Long life	014.0026	-	030.0037
Ceramic	014.0023	-	030.0190

## Liner

Neck liner <sup>4</sup> 0.8-1.0 mm	149.0260.3	149.0264.3	149.0264.3
Neck liner <sup>4</sup> 1.2 mm	149.0261.3 <sup>1</sup>	149.0265.3 <sup>2</sup>	149.0265.3 <sup>3</sup>
Neck liner <sup>5</sup> 0.8-1.0 mm	149.0262.3	149.0266.3	149.0266.3
Neck liner <sup>5</sup> 1.2 mm	149.0263.3 <sup>1</sup>	149.0267.3 <sup>2</sup>	149.0267.3 <sup>3</sup>
Liner blank 0.8 mm	122.0010	122.0010	122.0010
Liner blank 1.0-1.2 mm	122.0040	122.0040	122.0040
Liner insulated 0.8 mm	124.0169	124.0169	124.0169
PTFE liner 0.8 mm	126.0013	126.0013	126.0013
PTFE liner 1.0-1.2 mm	126.0030	126.0030	126.0030
Carb. PTFE liner 0.8 mm	127.0015	127.0015	127.0015
Carb. PTFE l. 1.0-1.2 mm	127.0009	127.0009	127.0009
PA liner 1.0-1.2 mm	128.0019 <sup>1</sup>	128.0019 <sup>2</sup>	128.0019 <sup>3</sup>

<sup>1</sup> Included in the standard equipment for complete torches Push-Pull Plus 36 D.

<sup>2</sup> Included in the standard equipment for complete torches Push-Pull Plus 240 D.

<sup>3</sup> Included in the standard equipment for complete torches Push-Pull Plus 401 D.

<sup>4</sup> For straight torch necks (0°).

<sup>5</sup> For bended torch necks (45°).

# MIG/MAG machine welding torches

## Air and liquid cooled

Machine welding processes are used wherever high precision and productivity is required. Accessibility to the components very often requires special solutions with mechanical torches. ABICOR BINZEL offers an almost infinite variety of solutions, always based on the design of the world-wide recognized manual torches.

This means, experience in service life and quality offers additional advantages, so that special parts are not required.

### Your ABICOR BINZEL advantages:

- Expert competence
- Separate special torch production – short delivery time
- High availability
- Right solution for every job



### Note for liquid cooled torches:

To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

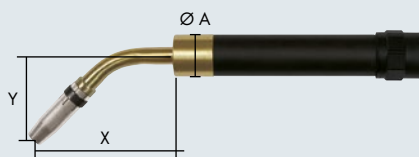


## Fixed swan neck

Typ	Geo- metry	X (mm)	Y (mm)	Duty cycle	Rating <sup>1</sup> CO <sub>2</sub> / M21		Gas nozzle	Wire-Ø (mm)	Part-No.
AUT 24 KD	0°	154		60%	250 A	220 A	ND 12.5	0.8-1.2	912.0001
AUT 24 KD	45°	125	80	60%	250 A	220 A	ND 12.5	0.8-1.2	912.0002
AUT 25 KD	0°	140		60%	230 A	200 A	ND 15	0.8-1.2	904.0003
AUT 25 KD	45°	110	75	60%	230 A	200 A	ND 15	0.8-1.2	904.0004
AUT 26 KD	0°	185		60%	270 A	240 A	ND 16	0.8-1.2	914.0002
AUT 26 KD	45°	145	95	60%	270 A	240 A	ND 16	0.8-1.2	914.0001
AUT 36 KD	0°	185		60%	320 A	290 A	ND 16	0.8-1.2	914.0002
AUT 36 KD	45°	145	95	60%	320 A	290 A	ND 16	0.8-1.2	914.0001
AUT 240 D	0°	154		100%	300 A	270 A	ND 12.5	0.8-1.2	923.0001
AUT 240 D	45°	126	73	100%	300 A	270 A	ND 12.5	0.8-1.2	923.0002
AUT 501	0°	167		100%	550 A	500 A	ND 16	1.0-1.6	932.0001
AUT 501	45°	135	82	100%	550 A	500 A	ND 16	1.0-1.6	932.0002
AUT 501 D	0°	167		100%	500 A	450 A	ND 16	1.0-1.6	934.0001
AUT 501 D	45°	135	82	100%	500 A	450 A	ND 16	1.0-1.6	934.0002
ABIMIG® MT W 555	0°	175		100%	575 A	525 A	ND 16	0.8-1.6	766.0878.1
ABIMIG® MT W 555	22°	168	38	100%	575 A	525 A	ND 16	0.8-1.6	766.0879.1
ABIMIG® MT W 555	45°	144	84	100%	575 A	525 A	ND 16	0.8-1.6	766.0880.1
ABIMIG® MT W 555 D	0°	175		100%	550 A	500 A	ND 16	0.8-1.6	766.0865.1
ABIMIG® MT W 555 D	22°	168	38	100%	550 A	500 A	ND 16	0.8-1.6	766.0866.1
ABIMIG® MT W 555 D	45°	144	84	100%	550 A	500 A	ND 16	0.8-1.6	766.0867.1
ABIMIG® MT W 555 D TS	0°	175		100%	550 A	500 A	ND 16	0.8-1.6	766.0917.1
ABIMIG® MT W 555 D TS	22°	169	33	100%	550 A	500 A	ND 16	0.8-1.6	766.0918.1
ABIMIG® MT W 555 D TS	45°	148	74	100%	550 A	500 A	ND 16	0.8-1.6	766.0919.1
ABIMIG® MT W 605	0°	184		100%	625 A	575 A	ND 17	1.0-1.6	766.0883.1
ABIMIG® MT W 605	22°	176	41	100%	625 A	575 A	ND 17	1.0-1.6	766.0884.1
ABIMIG® MT W 605	45°	150	90	100%	625 A	575 A	ND 17	1.0-1.6	766.0885.1
ABIMIG® MT W 605 D	0°	183.5		100%	600 A	550 A	ND 17	1.0-1.6	766.0871.1
ABIMIG® MT W 605 D	22°	176	41	100%	600 A	550 A	ND 17	1.0-1.6	766.0872.1
ABIMIG® MT W 605 D	45°	150	90	100%	600 A	550 A	ND 17	1.0-1.6	766.0873.1
ABIMIG® MT W 645	0°	182		100%	600 A	450 A	ND 16	1.0-1.6	766.0459
ABIMIG® MT W 645	22°	175	40	100%	600 A	450 A	ND 16	1.0-1.6	766.0479.1
ABIMIG® MT W 645	45°	149	89	100%	600 A	450 A	ND 16	1.0-1.6	766.0460

Further torch geometries on request.

### Fixed swan neck

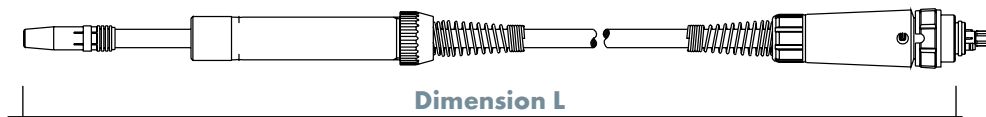


Ø A air cooled torches: 38 mm  
liquid cooled torches: 38 mm

### Order information:

When ordering complete torches, please indicate the torch type, torch geometry (straight or bent) and dimension "L" (see sketch).

The wear parts - contact tip, gas nozzle, gas diffuser, contact tip holder, neck liner or liner - are identical with those of the manual welding torches of same size (ABIMIG® 605 / 645 on request).



# MIG/MAG fume extraction torches "RAB GRIP"

## Air and liquid cooled

Every welding job generates fumes and smoke that could be hazardous if inhaled. Based on the well-established torch series "MB" the RAB GRIP Fume Extraction Torches offer efficient fume extraction through the torch itself. Special design solutions guarantee highly efficient smoke removal directly at its source without affecting the protective gas shield.

- Direct extraction at the arc – ensures protection of the welder's respiratory system
- Problem free installation in all existing MIG/MAG work stations
- Small extraction tube diameter – better accessibility
- Aluminium extraction tube – considerable weight saving



- Handle with extraction control and swivel joint – optimized handling
- Smaller diameter extraction hoses for all types – lower handling weight, optimum flexibility
- Considerable weight reduction of air cooled torches due to the innovative ABICOR BINZEL Low-Weight Bikox®



Suction nozzle with spring clip, feed air slide below\*

Torch complete Type	Connection	Part-No.		
		3 m	4 m	5 m
RAB GRIP 15 AK	Central connection KZ-2	602.3001.1	602.3002.1	602.3003.1
RAB GRIP 24 KD	Central connection KZ-2	612.3001.1	612.3002.1	612.3003.1
RAB GRIP 25 AK	Central connection KZ-2	604.3001.1	604.3002.1	604.3003.1
RAB GRIP 36 KD	Central connection KZ-2	614.3001.1	614.3002.1	614.3003.1
RAB GRIP 240 D	Central connection WZ-2	623.3003.1	623.3004.1	623.3005.1
RAB GRIP 501	Central connection WZ-2	632.3003.1	632.3004.1	632.3005.1
RAB GRIP 501 D	Central connection WZ-2	634.3003.1	634.3004.1	634.3005.1

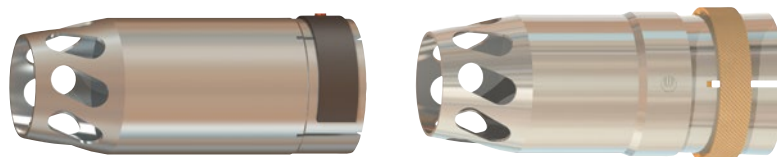
\*Module solutions on demand.



Suction nozzle with Quicklock, feed air slide on top

Torch complete Type	Connection	Part-No.		
		3 m	4 m	5 m
RAB GRIP 15 AK	Central connection KZ-2	602.3008.1	602.3009.1	602.3010.1
RAB GRIP 24 KD	Central connection KZ-2	612.3007.1	612.3008.1	612.3009.1
RAB GRIP 25 AK	Central connection KZ-2	604.3007.1	604.3008.1	604.3009.1
RAB GRIP 36 KD	Central connection KZ-2	614.3007.1	614.3008.1	614.3009.1
RAB GRIP 240 D	Central connection WZ-2	623.3011.1	623.3012.1	623.3013.1
RAB GRIP 501	Central connection WZ-2	632.3015.1	632.3016.1	632.3017.1
RAB GRIP 501 D	Central connection WZ-2	634.3030.1	634.3031.1	634.3032.1

## RAB GRIP specific wear parts



Type	Suction nozzle spring clip	Suction nozzle Quicklock
RAB GRIP 15 AK	600.2047.1	600.3017.1
RAB GRIP 24 KD	600.2045.1	600.3018.1
RAB GRIP 25 AK	600.2046.1	600.3019.1
RAB GRIP 36 KD	600.2044.1	600.3009.1
RAB GRIP 240 D	600.2045.1	600.3018.1
RAB GRIP 501	600.2044.1	600.3009.1
RAB GRIP 501 D	600.2044.1	600.3009.1

Replacement spring clip for the fixation of the suction nozzle on request.  
Suction funnel (replaces the suction nozzle) on request.

Type	Swan neck	Outer neck	Gas nozzle holder
RAB GRIP 15 AK	602.3004.1	600.3007.1	902.0007
RAB GRIP 24 KD	612.2001	600.2002	-
RAB GRIP 25 AK	604.2001	600.3007.1	-
RAB GRIP 36 KD	614.2001	600.2002	-
RAB GRIP 240 D	623.3001.1	600.2002	-
RAB GRIP 501	632.3001.1	632.2009	-
RAB GRIP 501 D	634.3001.1	600.2002	-

The wear parts - contact tip, gas nozzle, gas diffuser, contact tip holder, neck liner or liner - are identical with those of the manual welding torches of same size.

## Technical Data

Type	Cooling	Rating		Duty cycle (%)	Wire size (mm)
		CO <sub>2</sub>	Mixed gas M21		
RAB GRIP 15 AK	air	180 A	150 A	60	0.6-1.0
RAB GRIP 24 KD	air	250 A	220 A	60	0.8-1.2
RAB GRIP 25 AK	air	230 A	200 A	60	0.8-1.2
RAB GRIP 36 KD	air	300 A	270 A	60	0.8-1.2
RAB GRIP 240 D	liquid	300 A	270 A	100	0.8-1.2
RAB GRIP 501	liquid	550 A	500 A	100	1.0-1.6
RAB GRIP 501 D	liquid	500 A	450 A	100	1.0-1.6

### Note for liquid cooled torches:

To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

## MIG/MAG Fume Extraction Torches in action ...



MIG/MAG **without** fume extraction



RAB GRIP **with** fume extraction

# Bikox<sup>®</sup>, control cables, hoses and liners

## I. Cable assemblies air cooled

Type	Bikox <sup>®</sup>	Cable assembly length			
		3 m	4 m	5 m	8 m
MB EVO PRO 15	R18 / LW	160.H025.1	160.H026.1	160.H027.1	-
MB EVO PRO 24	R37 / LW	160.1330.1	160.1331.1	160.1332.1	-
MB EVO PRO 25	R28 / LW	160.H032.1	160.H033.1	160.H034.1	-
MB EVO PRO 26	R42 / LW	160.H039.1	160.H040.1	160.H041.1	-
MB EVO PRO 36	R53 / LW	160.H046.1	160.H047.1	160.H048.1	-
MB EVO 15	R10	160.1291.1	160.1292.1	160.1293.1	-
MB EVO 24	R25	160.D427	160.D428	160.D429	-
MB EVO 25	R20	160.1294.1	160.1295.1	160.1296.1	-
MB EVO 26	R30	160.1305.1	160.1306.1	160.1307.1	-
MB EVO 36	R30	160.1308.1	160.1309.1	160.1310.1	-
MB GRIP 15 AK	R4 / Typ 16	160.D520	160.D521	160.D522	-
MB GRIP 24 KD / 26 KD	R6 / Typ 35	160.D430	160.D431	160.D432	-
MB GRIP 25 AK	R5 / Typ 25	160.D427	160.D428	160.D429	-
MB GRIP 36 KD	R7 / Typ 50	160.D434	160.D435	160.D436	-
RAB GRIP 15	R4 / LW	160.H025.1	160.H026.1	160.H027.1	-
RAB GRIP 25	R5 / LW	160.H032.1	160.H033.1	160.H034.1	-
RAB GRIP 24	R6 / LW	160.H039.1	160.H040.1	160.H041.1	-
RAB GRIP 36	R7 / LW	160.H046.1	160.H047.1	160.H048.1	-
Push-Pull Plus 36 D	Type 35	-	-	-	118.0074

## II. Cable assemblies liquid cooled

Type	Description	Cable assembly length				
		3 m	4 m	5 m	8 m	per m
MB EVO PRO 240 / 401 / 501	Power cable FRH	115.0830.1	115.0831.1	115.0832.1	-	-
MB EVO 240 / 401 / 501	Power cable PVC	115.0833.1	115.0834.1	115.0835.1	-	-
MB GRIP 240 / 401 / 501	Power cable FRH	115.0065	115.0070	115.0074	-	-
ABIMIG <sup>®</sup> GRIP W 555	Power cable PVC	115.0581	115.0582	115.0583	-	-
RAB GRIP 240 / 501	Power cable PVC	115.0581	115.0582	115.0583	-	-
Push-Pull Plus 240 / 401	Power cable PVC	-	-	-	115.0043	-
MB EVO PRO 240 / 401 / 501	Wire conduit/gas hose	154.0017.1	154.0018.1	154.0019.1	-	-
MB EVO 240 / 401 / 501	Wire conduit/gas hose	154.0017.1	154.0018.1	154.0019.1	-	-
MB GRIP 240 / 401 / 501	Wire conduit	156.0275	156.0276	156.0277	-	-
ABIMIG <sup>®</sup> GRIP W 555	Wire conduit	156.0275	156.0276	156.0277	-	-
RAB GRIP 240 / 501	Wire conduit	154.0002	154.0003	154.0004	-	-
Push-Pull Plus 240 / 401	Wire conduit	-	-	-	156.0273	-
MB EVO PRO 240 / 401 / 501	Water hose black FRH; Ø 5.5x1.5	-	-	-	-	109.0052
MB EVO 240 / 401 / 501	Water hose blue PVC; Ø 5.5x1.5	-	-	-	-	109.0057
MB EVO 240 / 401 / 501	Water hose red PVC; Ø 5.5x1.5	-	-	-	-	109.0056
MB GRIP 240 / 401 / 501	Water hose black FRH	-	-	-	-	109.0052
ABIMIG <sup>®</sup> GRIP W 555	Water hose blue PVC	-	-	-	-	109.0057
ABIMIG <sup>®</sup> GRIP W 555	Water hose red PVC	-	-	-	-	109.0056
RAB GRIP 240 / 501	Water hose blue PVC	-	-	-	-	109.0057
RAB GRIP 240 / 501	Water hose red PVC	-	-	-	-	109.0056
Push-Pull Plus 240 / 401	Water hose blue PVC	-	-	-	-	109.0057
Push-Pull Plus 240 / 401	Water hose red PVC	-	-	-	-	109.0056



## II. Cable assemblies liquid cooled

Type	Description	Cable assembly length				
		3 m	4 m	5 m	8 m	per m
MB GRIP 240 / 401 / 501	Gas hose	-	-	-	-	109.0040
ABIMIG® GRIP W 555	Gas hose	-	-	-	-	109.0040
RAB GRIP 240 / 501	Gas hose	-	-	-	-	109.0040
Push-Pull Plus 240 / 401	Gas hose	-	-	-	-	109.0040
All torches	Control cable 2-pole	-	-	-	-	100.0019

## III. Outer and suction hose

Type	Description	Cable assembly length				
		3 m	4 m	5 m	per m	
MB EVO PRO 240 / 401 / 501	Outer hose 25x1.5 (with bend protection)	107.0109.1	107.0110.1	107.0111.1	107.0004	
MB EVO 240 / 401 / 501	Outer hose 25x1.5 (with bend protection)	107.0109.1	107.0110.1	107.0111.1	107.0004	
MB GRIP 240 / 401 / 501	Outer hose 25x1.5	107.0079	107.0044	107.0080	107.0004	
ABIMIG® GRIP W 555	Outer hose 25x1.5	-	-	-	107.0004	
RAB GRIP 15 / 24 / 25 / 36	Outer hose LW 32	-	-	-	109.0043	
RAB GRIP 240 / 501	Outer hose LW 38	-	-	-	109.0044	
Push-Pull Plus 36 / 240 / 401	Outer hose 25x1.5	-	-	-	107.0004	

## IV. Hose clamps, quick connector and Marking washer

Type	Pcs.	Part-No.	for hose			
			109.0040	109.0052	109.0056	109.0057
Hose clamp D=9.5 infinitely; MB EVO PRO / MB EVO	20	173.0015.20		•	•	•
Hose clamp Ø=8.7	100	171.0002	•			
Hose clamp Ø=9.0 with ring (mark. 9.5)	100	173.0001			•	•
Hose clamp Ø=9.5 with ring (mark. 10.0)	100	173.0002		•		
Quick connector ND 5 / Ø=6.0	20	501.0114		•	•	•
Marking washer red	20	501.2166		•		
Marking washer blue	20	501.2167		•		
Fastener cap red	20	501.2423		•	•	
Fastener cap blue	20	501.2424		•		•

## V. Combined wire guides

Type	for wire size	for 3 m	for 4 m	for 5 m	for 8 m
PTFE / Brass	0.8	126.M002	126.M003	126.M004	-
PTFE / Brass	1.0-1.2	126.M006	126.M007	126.M008	-
PTFE / Brass	1.6	126.M009	126.M010	126.M011	-
Carbon-PTFE / Brass	0.8	127.M002	127.M003	127.M004	-
Carbon-PTFE / Brass	1.0-1.2	127.M006	127.M007	127.M008	-
PA / Brass	1.0-1.2	128.M002	128.M003	128.M004	-

## VI. Liner for special wire

Liner	Color	Ø inside / outside	for wire size	for 3 m	for 4 m	for 5 m	for 8 m
PA liner	grey	2.0 / 4.0	1.0-1.2	128.0012	128.0015	128.0016	128.0019
PA liner	grey	2.3 / 4.7	1.6	128.0020	128.0021	128.0030	128.0023
PA liner	grey	2.9 / 4.7	2.4	128.0024	128.0025	128.0027	128.0032
PA liner with inlet-tip	grey	2.3 / 4.7	1.2-1.6	128.0058.1	128.0059.1	128.0060.1	-

## VII. BPL liner

Liner	Color	Ø inside / outside	for wire size	for 3 m	for 4 m	for 5 m	for 8 m
BPL liner with inlet-tip	orange	2.0 / 4.7	0.8-1.2	126.0069	126.0070	126.0071	-
BPL liner with inlet-tip	petrol	2.7 / 4.7	1.6	126.0072	126.0073	126.0074	-

# Handles and control modules

## Handle MB EVO PRO without modules



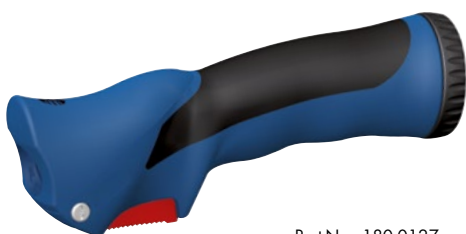
Type	Description	Part-No.
Handle type MB EVO PRO air cooled	for MB EVO PRO 15 / 24 / 25 / 26 / 36	180.0176.1
Handle type MB EVO PRO liquid cooled	for MB EVO PRO 240 / 401 / 501	180.0177.1
Ball joint cable protection MB EVO PRO	for MB EVO PRO 15 / 24 / 25 / 26 / 36 240 / 401 / 501	400.D574.1
Half rings red	for ball joint cable protection (400.D574.1)	400.D561.2

## Handle MB EVO without modules



Type	Description	Part-No.
Handle type MB EVO air cooled	for MB EVO 15 / 24 / 25 / 26 / 36	180.0178.1
Handle type MB EVO liquid cooled	for MB EVO 240 / 401 / 501	180.0179.1
Ball joint cable protection MB EVO	for MB EVO 15 / 24 / 25 / 26 / 36 240 / 401 / 501	400.D574.1
Half rings black	for ball joint cable protection (400.D574.1)	400.D451.2

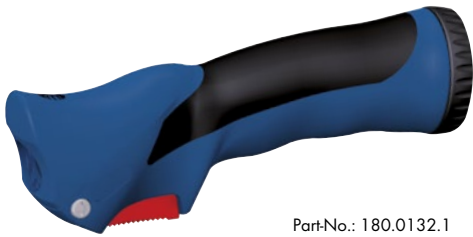
## Handle MB GRIP without modules



Part-No.: 180.0127

Type	Description	Part-No.
Handle type MB GRIP	for MB GRIP 15 / 24 / 25 / 26 / 36 / 240 / 401 / 501	180.0127
Ball joint cable protection MB GRIP air cooled	for MB GRIP 15 / 24 / 25 / 26 / 36	400.1395.1
Ball joint cable protection MB GRIP liquid cooled	for MB GRIP 240 / 401 / 501	400.1392.1
Inner ring MB GRIP	for ball joint cable protection (400.1392.1) liquid cooled	400.0790

### Handle type "ABIMIG® GRIP S" without modules

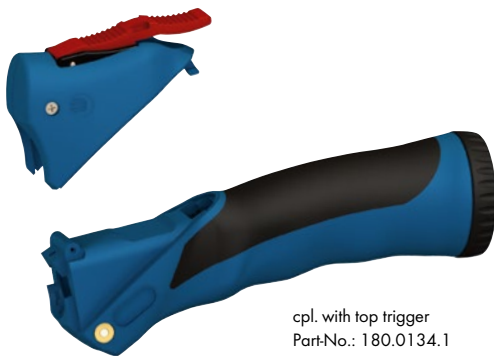


**Adapter**

For torch necks MB GRIP 15 / 24 / 25 / 26 / 36 / 240 / 401 / 501  
for using the handles ABIMIG® GRIP S / ABIMIG® GRIP SH / ABIMIG®  
GRIP TO  
PartNo.: 400.1341.1

Type	Description	Part-No.
Handle type ABIMIG® GRIP S	for ABIMIG® GRIP W 555	180.0132.1
Ball joint cable protection ABIMIG® GRIP W liquid cooled	for ABIMIG® GRIP W 555	400.1392.1
Inner ring ABIMIG® GRIP W liquid cooled	for Ball joint cable protection (400.1392.1),	400.0790

### Handle type "ABIMIG® GRIP TO" without modules



**Adapter**

For torch necks MB GRIP 15 / 24 / 25 / 26 / 36 / 240 / 401 / 501  
for using the handles ABIMIG® GRIP S / ABIMIG® GRIP SH / ABIMIG®  
GRIP TO  
PartNo.: 400.1341.1

Type	Description	Part-No.
Handle type ABIMIG® GRIP TO (cpl. with top trigger)	for MB GRIP 15 / 24 / 25 / 26 / 36 / 240 / 401 / 501; to use only with adapter 400.1341.1	180.0134.1
Handle type ABIMIG® GRIP TO (cpl. with top trigger)	for ABIMIG® GRIP W 555	180.0134.1

# Handles and control modules

## Handle type "ABIMIG® GRIP SH" and control modules



incl. add-on for control modules  
Part-No.: 180.0133.1



### Adapter

For torch necks MB GRIP 15 / 24 / 25 / 26 / 36 / 240 / 401 / 501  
for using the handles ABIMIG® GRIP S / ABIMIG® GRIP SH / ABIMIG®  
GRIP TO  
Part-No.: 400.1341.1



BIS-01L



BIS-01R



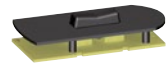
BIS-02



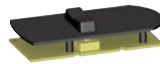
BIS-06



BIS-07B



BIS-10A



BIS-10B



BIS-10D



BIS-13A



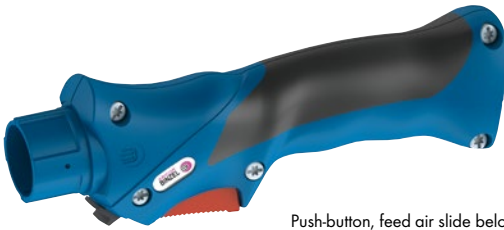
BIS-18



BIS-19

Type	Description	Part-No.
Handle Type ABIMIG® GRIP SH, without control module	for MB GRIP 15 / 24 / 25 / 26 / 36 / 240 / 401 / 501; to use only with adapter 400.1341.1	180.0133.1
Handle Type ABIMIG® GRIP SH, without control module	for ABIMIG® GRIP W 555	
BIS-01L	Control module with potentiometer left 10 kΩ	400.0956
BIS-01R	Control module with potentiometer right 10 kΩ	400.0957
BIS-02	Control module with potentiometer left 10 kΩ LED for Migatronik	400.0958
BIS-06	Control module with push-button and 4 LED	400.0959
BIS-07B	Control module Up/Down 7-segment switch crosswise	400.0961
BIS-10A	Control module Up/Down switch lengthwise	400.0963
BIS-10B	Control module Up/Down switch crosswise	400.0964
BIS-10D	Control module Up/Down switch crosswise for Fronius	400.1085
BIS-13A	Control module Up/Down 2x switch lengthwise for EWM	400.0966
BIS-18	Control module Up/Down 2x push-button for Cloos	400.1545.1
BIS-19	Control module push-button 3-step	400.1088

### Handles RAB GRIP without modules



Push-button, feed air slide below

Type	Description	Part-No.
Handle feed air slide below	for RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	180.0138.1
Connector air cooled	for RAB GRIP 15 / 24 / 25 / 36	600.2008
Connector liquid cooled	for RAB GRIP 240 / 501	600.0080

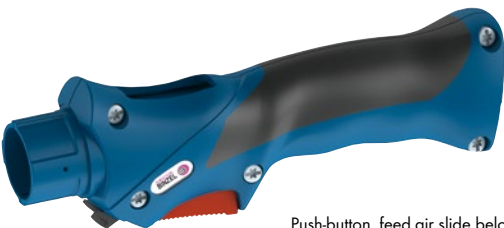
### Handles RAB GRIP without modules



Push-button, feed air slide on top

Type	Description	Part-No.
Handle feed air slide on top	for RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	180.0144.1
Connector air cooled	for RAB GRIP 15 / 24 / 25 / 36	600.2008
Connector liquid cooled	for RAB GRIP 240 / 501	600.0080

### Handle RAB GRIP for modules



Push-button, feed air slide below



**BIS-51**  
Control module push-button



**BIS-52**  
Control module Up/Down  
2x push-button

Type	Description	Part-No.
Handle feed air slide below (without module)	for RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	180.0154.1
Connector air cooled	for RAB GRIP 15 / 24 / 25 / 36	600.2008
Connector liquid cooled	for RAB GRIP 240 / 501	600.0080
BIS-51	Module push-button	400.1296.1
BIS-52	Module Up/Down 2x push-button	400.1292.1



Wear parts "ABIMIG®"



# MIG/MAG welding torches "ABIMIG® A T LW"

## Air cooled • rating 180 A up to 240 A

The newly developed, super lightweight MIG/MAG welding torch series "ABIMIG® A T LW" with ergonomic and universal two-component handle offer flexibility in perfection. They are equipped standard with ball joint and lightweight "Bikox® LW" cable assembly as well as exchangeable and 360° rotatable torch neck, so the torches enable ergonomic and relaxed welding in every position.

- New welding torch series and lightweight "Bikox® LW" cable assembly – Reduction of the torch weight up to 50 %
- Newly designed ergonomic handle, optionally available with Up/Down module – Improved working comfort
- Universal contact tip holder (contact tip holder, gas diffuser and gas nozzle holder all in one) – Reduction of the number of spare parts and thus the costs
- Screwable, thermally insulated gas nozzle – Longer service life of the torch and cost reduction
- Turnable, quick-change torch neck – increased working comfort and reduction of service costs



Super lightweight torches with turnable and changeable torch neck

### ABIMIG® A T 155 LW

#### Technical data (EN 60 974-7):

Rating: 190 A CO<sub>2</sub>  
180 A mixed gas M21 (DIN EN ISO 14175)  
Duty cycle: 60%  
Wire size: 0.8-1.0 mm

### ABIMIG® A T 255 LW

#### Technical data (EN 60 974-7):

Rating: 240 A CO<sub>2</sub>  
220 A mixed gas M21 (DIN EN ISO 14175)  
Duty cycle: 60%  
Wire size: 0.8-1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® A T 155 LW	Push-button short	006.D821.1	006.D822.1	006.D823.1	45°	006.D804.1
ABIMIG® A T 155 LW	Push-button long	006.D810.1	006.D811.1	006.D812.1	45°	006.D804.1
ABIMIG® A T 255 LW	Push-button short	004.D880.1	004.D881.1	004.D882.1	45°	004.D831.1
ABIMIG® A T 255 LW	Push-button long	004.D850.1	004.D851.1	004.D852.1	45°	004.D831.1

**Definition:** T = turnable/exchangeable torch neck, LW = lightweight cable assembly

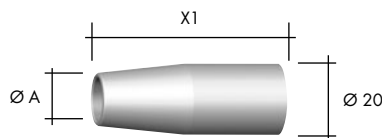
**Attention:** The specified variants correspond to the "BASIC" version. Further versions (COMBI, VARIO, FREE STYLE) on request.



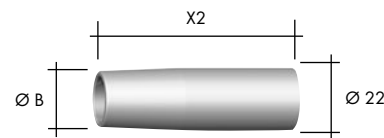
# ABIMIG® A T 155 LW, ABIMIG® A T 255 LW

## Wear parts

### ABIMIG® A T 155 LW

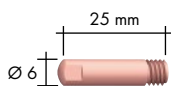


### ABIMIG® A T 255 LW



#### Gas nozzle (5 pcs.)

	Ø A	X1		Ø B	X2	
Cylindrical	Ø 17	52 mm	145.D003	Ø 18	69 mm	145.D014
Conical	Ø 12	52 mm	145.D001 <sup>1</sup>	Ø 16	70 mm	145.D011 <sup>2</sup>
Conical	Ø 12	54 mm	145.D004	Ø 14	67 mm	145.D012



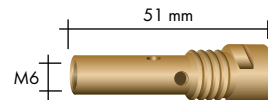
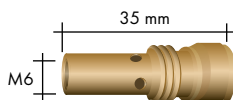
#### M6



#### M6

#### Contact tip (10 pcs.)

E-Cu	Ø 0.8	140.0059 <sup>1</sup>	140.0051
	Ø 1.0	140.0253	140.0242 <sup>2</sup>
	Ø 1.2	-	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	-	141.0010
CuCrZr	Ø 0.8	140.0062	140.0054
	Ø 1.0	140.0256	140.0245
	Ø 1.2	-	140.0382



#### Contact tip holder (5 pcs.)

	006.D719.5 <sup>1</sup>	004.D624.5 <sup>2</sup>
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#### Adapter piece (5 pcs.)

	767.D607.5 <sup>1</sup>	767.D637.5 <sup>2</sup>
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#### Torch neck liner for T-torches

Standard	Ø 0.8	122.D037 <sup>1</sup> (5 pcs.)	122.D037 (5 pcs.)
	Ø 1.0	122.D038 (5 pcs.)	122.D038 <sup>2</sup> (5 pcs.)
	Ø 1.2	-	122.D038 (5 pcs.)
Brass for Al	Ø 0.8	122.D040	122.D040
	Ø 1.0	122.D040	122.D041
	Ø 1.2	-	122.D041

Liner		for 3 m	for 4 m	for 5 m
Liner	Ø 0.8	124.0011 <sup>1</sup>	124.0012 <sup>1</sup>	124.0015 <sup>1</sup>
	Ø 1.0	124.0026 <sup>2</sup>	124.0031 <sup>2</sup>	124.0035 <sup>2</sup>
	Ø 1.2	124.0026	124.0031	124.0035
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
Carbon	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
PTFE liner	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008

<sup>1</sup> Included in the standard equipment for complete torches ABIMIG® A T 155 LW.

<sup>2</sup> Included in the standard equipment for complete torches ABIMIG® A T 255 LW.

# MIG/MAG welding torches "ABIMIG® A T LW"

Air cooled • rating 260 A up to 400 A

- New welding torch series and lightweight "Bikox® LW" cable assembly - Up to 50% lighter than comparable standard torches
- Newly designed ergonomic torch handle, available with optional Up/Down module - Improved working comfort
- Universal contact tip holder (contact tip holder, gas diffuser and gas nozzle holder all in one) - Reduces stocking requirements and costs
- Screwable, thermally insulated gas nozzle - Longer service life of the torch - Cost reduction
- Turnable, quick-change torch neck - increased working comfort and reduction of service costs



Super lightweight torches with turnable and changeable torch neck

## ABIMIG® A T 305 LW

### Technical data (EN 60 974-7):

Rating: 290 A CO<sub>2</sub>  
260 A mixed gas M21 (DIN EN ISO 14175)  
Duty cycle: 60%  
Wire size: 0.8-1.2 mm

## ABIMIG® A T 355 LW

### Technical data (EN 60 974-7):

Rating: 340 A CO<sub>2</sub>  
320 A mixed gas M21 (DIN EN ISO 14175)  
Duty cycle: 60%  
Wire size: 1.0-1.6 mm

## ABIMIG® A T 405 LW\*

### Technical data (EN 60 974-7):

Rating: 400 A CO<sub>2</sub>  
370 A mixed gas M21 (DIN EN ISO 14175)  
Duty cycle: 60%  
Wire size: 1.0-1.6 mm (up to 2.4 mm on demand)

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® A T 305 LW	Push-button short	018.D953.1	018.D954.1	018.D955.1	45°	014.H356.1
ABIMIG® A T 305 LW	Push-button long	018.D960.1	018.D961.1	018.D962.1	45°	014.H356.1
ABIMIG® A T 355 LW	Push-button short	014.H509.1	014.H510.1	014.H511.1	45°	014.H363.1
ABIMIG® A T 355 LW	Push-button long	014.H390.1	014.H391.1	014.H392.1	45°	014.H363.1
ABIMIG® A T 405 LW	Push-button short	015.D101.1	015.D102.1	015.D103.1	45°	015.D082.1
ABIMIG® A T 405 LW	Push-button long	015.D070.1	015.D071.1	015.D072.1	45°	015.D082.1

**Definition:** T = turnable/exchangeable torch neck, LW = lightweight cable assembly

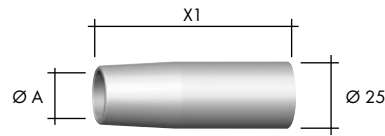
**Attention:** The specified variants correspond to the „BASIC“ version. Further versions (COMBI, VARIO, FREE STYLE) on request.

\*The ABIMIG® A T 405 LW is adjustable in 45° steps.

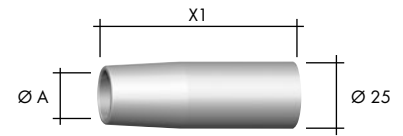
# ABIMIG® A T 305 LW, ABIMIG® A T 355 LW, ABIMIG® A T 405 LW

## Wear parts

### ABIMIG® A T 305 / 355 LW

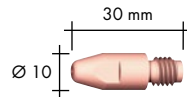


### ABIMIG® A T 405 LW

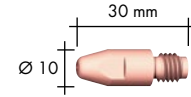


## Gas nozzle (5 pcs.)

	Ø A	X1		Ø A	X1	
Cylindrical	Ø 21	71 mm	145.D024	Ø 21	71 mm	145.D024
Conical	Ø 18	72 mm	145.D021 <sup>1,2</sup>	Ø 18	72 mm	145.D021 <sup>3</sup>
Conical	Ø 16	69 mm	145.D022	Ø 16	69 mm	145.D022



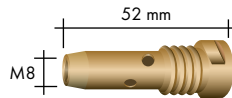
**M8**



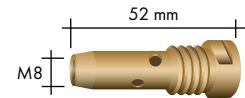
**M8**

## Contact tip (10 pcs.)

E-Cu	Ø 0.8	140.0114	140.0114
	Ø 1.0	140.0313	140.0313
	Ø 1.2	140.0442	140.0442
	Ø 1.6	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0003	-
	Ø 1.0	141.0008	141.0008
	Ø 1.2	141.0015	141.0015
	Ø 1.6	141.0022	141.0022
CuCrZr	Ø 0.8	140.0117	-
	Ø 1.0	140.0316	140.0316
	Ø 1.2	140.0445 <sup>1,2</sup>	140.0445
	Ø 1.6	140.0590	140.0590 <sup>3</sup>



M8



M8

## Contact tip holder (5 pcs.)

M8	014.D745.5 <sup>1,2</sup>	014.D745.5 <sup>3</sup>
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## Adapter piece (5 pcs.)

	767.D668.5 <sup>1,2</sup>	015.D080.5 <sup>3</sup>
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## Torch neck liner for T-torches



Standard	Ø 0.8	122.D037 (5 pcs.)	-
	Ø 1.0-1.2	122.D038 <sup>1,2</sup> (5 pcs.)	122.D077 (5 pcs.)
	Ø 1.6	122.D045 (5 pcs.)	122.D078 <sup>3</sup> (5 pcs.)
Brass for Al	Ø 1.0	122.D040	122.D040
	Ø 1.0-1.2	122.D041	122.D041

Liner	Ø	305 / 355	405	305 / 355	405	305 / 355	405
		for 3 m	for 3 m	for 4 m	for 4 m	for 5 m	for 5 m
Liner	0.8	124.0011	-	124.0012	-	124.0015	-
	1.0	124.0026	124.D113	124.0031	124.D114	124.0035	124.D115
	1.2	124.0026 <sup>1,2</sup>	124.D113	124.0031 <sup>1,2</sup>	124.D114	124.0035 <sup>1,2</sup>	124.D115
	1.6	124.0041	124.D116 <sup>3</sup>	124.0042	124.D117 <sup>3</sup>	124.0044	124.D118 <sup>3</sup>
PTFE liner	0.8	126.0005	-	126.0008	-	126.0011	-
	1.0	126.0021	-	126.0026	-	126.0028	-
	1.2	126.0021	-	126.0026	-	126.0028	-
	1.6	126.0039	-	126.0042	-	126.0045	-
Carbon PTFE liner	0.8	127.0002	-	127.0003	-	127.0004	-
	1.0	127.0005	-	127.0007	-	127.0008	-
	1.2	127.0005	-	127.0007	-	127.0008	-
	1.6	127.0010	-	127.0012	-	127.0013	-

<sup>1</sup> Included in the standard equipment for complete torches ABIMIG® A T 305 LW.

<sup>2</sup> Included in the standard equipment for complete torches ABIMIG® A T 355 LW.

<sup>3</sup> Included in the standard equipment for complete torches ABIMIG® A T 405 LW.

# MIG/MAG welding torches "ABIMIG® A LW"

## Air cooled • rating 170 A up to 230 A

ABIMIG® A LW torches are optimal whenever the best possible welding results are to be achieved with a torch neck geometry. Thanks to the slim straight handles, the torches fit comfortably in the hand and allow different postural positions and flexibility in torch neck alignment. ABIMIG® A LW torches are very hard-wearing and, thanks to the double fixation of the torch neck, are particularly well protected against mechanical deformation.

ABIMIG® A LW torches are fitted with weight-optimised LW cable assemblies and are particularly light.

- Double torch neck fixation – durable construction
- Lightweight "Bikox® LW" cable assembly – reduction of the torch weight of up to 50 %
- Universal contact tip holder (contact tip holder, gas diffuser and gas nozzle holder all in one) – reduction of the number of spare parts and thus the costs
- Screwable, thermally insulated gas nozzle – longer service life of the torch and cost reduction
- Extended and short triggers available – for best handling



### ABIMIG® A 155 LW

#### Technical data (EN 60 974-7):

Rating:	170 A CO <sub>2</sub> 170 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8–1.0 mm

### ABIMIG® A 255 LW

#### Technical data (EN 60 974-7):

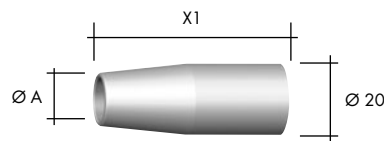
Rating:	230 A CO <sub>2</sub> 220 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8–1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® A 155 LW	Push-button short	767.0030.1	767.0031.1	767.0032.1	45°	767.0024.1
ABIMIG® A 155 LW	Push-button long	767.0062.1	767.0063.1	767.0064.1	45°	767.0024.1
ABIMIG® A 255 LW	Push-button short	767.0033.1	767.0034.1	767.0035.1	45°	767.0027.1
ABIMIG® A 255 LW	Push-button long	767.0065.1	767.0066.1	767.0067.1	45°	767.0027.1

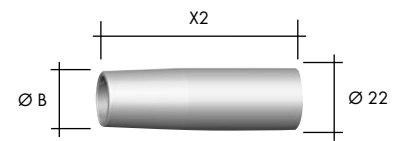
# ABIMIG® A 155 LW, ABIMIG® A 255 LW

## Wear parts

### ABIMIG® A 155 LW

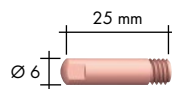


### ABIMIG® A 255 LW

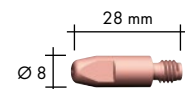


## Gas nozzle (5 pcs.)

	Ø A	X1		Ø B	X2	
Cylindrical	Ø 17	52 mm	145.D003	Ø 18	69 mm	145.D014
Conical	Ø 12	52 mm	145.D001 <sup>1</sup>	Ø 16	70 mm	145.D011 <sup>2</sup>
Conical	Ø 12	54 mm	145.D004	Ø 14	67 mm	145.D012



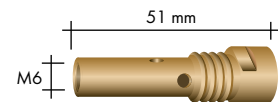
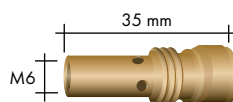
### M6



### M6

## Contact tip (10 pcs.)

E-Cu	Ø 0.8	140.0059 <sup>1</sup>	140.0051	
	Ø 1.0	140.0253	140.0242 <sup>2</sup>	
	Ø 1.2	-	140.0379	
E-Cu for Al	Ø 0.8	141.0002	141.0001	
	Ø 1.0	141.0007	141.0006	
	Ø 1.2	-	141.0010	
CuCrZr	Ø 0.8	140.0062	140.0054	
	Ø 1.0	140.0256	140.0245	
	Ø 1.2	-	140.0382	



## Contact tip holder (5 pcs.)

	006.D719.5 <sup>1</sup>	004.D624.5 <sup>2</sup>
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## Adapter piece (5 pcs.)

767.D607.5<sup>1</sup>

767.D637.5<sup>2</sup>

Liner		for 3 m	for 4 m	for 5 m
Liner	Ø 0.8	124.0011 <sup>1</sup>	124.0012 <sup>1</sup>	124.0015 <sup>1</sup>
	Ø 1.0	124.0026 <sup>2</sup>	124.0031 <sup>2</sup>	124.0035 <sup>2</sup>
	Ø 1.2	124.0026	124.0031	124.0035
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
Carbon	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
PTFE liner	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008

<sup>1</sup> Included in the standard equipment for complete torches ABIMIG® A 155 LW.

<sup>2</sup> Included in the standard equipment for complete torches ABIMIG® A 255 LW.

# MIG/MAG welding torches "ABIMIG® A LW"

## Air cooled • rating 255 A up to 400 A

ABIMIG® A LW torches are optimal whenever the best possible welding results are to be achieved with a torch neck geometry. Thanks to the slim straight handles, the torches fit comfortably in the hand and allow different postural positions and flexibility in torch neck alignment. ABIMIG® A LW torches are very hard-wearing and, thanks to the double fixation of the torch neck, are particularly well protected against mechanical deformation.

ABIMIG® A LW torches are fitted with weight-optimised LW cable assemblies and are particularly light.

- Double torch neck fixation – durable construction
- Lightweight "Bikox® LW" cable assembly – reduction of the torch weight of up to 50 %
- Universal contact tip holder (contact tip holder, gas diffuser and gas nozzle holder all in one) – reduction of the number of spare parts and thus the costs
- Screwable, thermally insulated gas nozzle – longer service life of the torch and cost reduction
- Extended and short triggers available – for best handling



### ABIMIG® A 305 LW

#### Technical data (EN 60 974-7):

Rating:	280 A CO <sub>2</sub> 260 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8–1.2 mm

### ABIMIG® A 355 LW

#### Technical data (EN 60 974-7):

Rating:	330 A CO <sub>2</sub> 310 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	1.0–1.6 mm

### ABIMIG® A 405 LW

#### Technical data (EN 60 974-7):

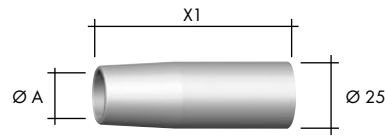
Rating:	400 A CO <sub>2</sub> 350 A mixed gas M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	1.0–1.6 mm (up to 2.4 mm on demand)

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® A 305 LW	Push-button short	767.0036.1	767.0037.1	767.0038.1	45°	767.0045.1
ABIMIG® A 305 LW	Push-button long	767.0068.1	767.0069.1	767.0070.1	45°	767.0045.1
ABIMIG® A 355 LW	Push-button short	767.0039.1	767.0040.1	767.0041.1	45°	767.0050.1
ABIMIG® A 355 LW	Push-button long	767.0071.1	767.0072.1	767.0073.1	45°	767.0050.1
ABIMIG® A 405 LW	Push-button short	767.0042.1	767.0043.1	767.0044.1	45°	767.0055.1
ABIMIG® A 405 LW	Push-button long	767.0074.1	767.0075.1	767.0076.1	45°	767.0055.1

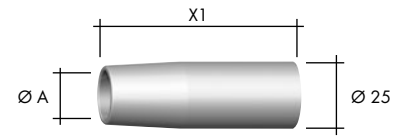
# ABIMIG® A 305 LW, ABIMIG® A 355 LW, ABIMIG® A 405 LW

## Wear parts

### ABIMIG® A 305 / 355 LW

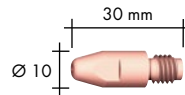


### ABIMIG® A 405 LW

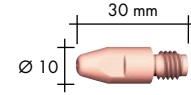


## Gas nozzle (5 pcs.)

	Ø A	X1		Ø A	X1	
Cylindrical	Ø 21	71 mm	145.D024	Ø 21	71 mm	145.D024
Conical	Ø 18	72 mm	145.D021 <sup>1,2</sup>	Ø 18	72 mm	145.D021 <sup>3</sup>
Conical	Ø 16	69 mm	145.D022	Ø 16	69 mm	145.D022



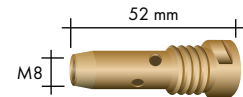
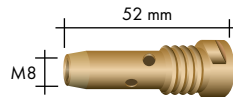
## M8



## M8

## Contact tip (10 pcs.)

E-Cu	Ø 0.8	140.0114	140.0114
	Ø 1.0	140.0313	140.0313
	Ø 1.2	140.0442	140.0442
	Ø 1.6	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0003	-
	Ø 1.0	141.0008	141.0008
	Ø 1.2	141.0015	141.0015
	Ø 1.6	141.0022	141.0022
CuCrZr	Ø 0.8	140.0117	-
	Ø 1.0	140.0316	140.0316
	Ø 1.2	140.0445 <sup>1,2</sup>	140.0445
	Ø 1.6	140.0590	140.0590 <sup>3</sup>



## Contact tip holder (5 pcs.)

M8	014.D745.5 <sup>1,2</sup>	014.D745.5 <sup>3</sup>
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## Adapter piece (5 pcs.)



	767.D668.5 <sup>1,2</sup>	015.D080.5 <sup>3</sup>
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Liner		305 / 355		405		305 / 355		405	
		for 3 m	for 3 m	for 4 m	for 4 m	for 5 m	for 5 m		
Liner	0.8	124.0011	-	124.0012	-	124.0015	-		
	1.0	124.0026	124.D113	124.0031	124.D114	124.0035	124.D115		
	1.2	124.0026 <sup>1,2</sup>	124.D113	124.0031 <sup>1,2</sup>	124.D114	124.0035 <sup>1,2</sup>	124.D115		
	1.6	124.0041	124.D116 <sup>3</sup>	124.0042	124.D117 <sup>3</sup>	124.0044	124.D118 <sup>3</sup>		
PTFE liner	0.8	126.0005	-	126.0008	-	126.0011	-		
	1.0	126.0021	-	126.0026	-	126.0028	-		
	1.2	126.0021	-	126.0026	-	126.0028	-		
	1.6	126.0039	-	126.0042	-	126.0045	-		
Carbon PTFE liner	0.8	127.0002	-	127.0003	-	127.0004	-		
	1.0	127.0005	-	127.0007	-	127.0008	-		
	1.2	127.0005	-	127.0007	-	127.0008	-		
	1.6	127.0010	-	127.0012	-	127.0013	-		

<sup>1</sup> Included in the standard equipment for complete torches ABIMIG® A 305 LW.

<sup>2</sup> Included in the standard equipment for complete torches ABIMIG® A 355 LW.

<sup>3</sup> Included in the standard equipment for complete torches ABIMIG® A 405 LW.

# MIG/MAG welding torches "ABIMIG® W T"

## Liquid cooled • rating 350 A up to 600 A

Welding torches in the ABIMIG® W T series convince through higher load limits than traditional torches of the same size, because the cooling concept that was redesigned by ABICOR BINZEL protects wearing parts even better against overheating with high power consumption as well.

A spatter protector integrated in the gas nozzles makes them particularly resistant and can be replaced separately where required. In addition, the torch necks and the gas nozzle are nickel-plated, in order to reduce spatter adhesions to a minimum.

Thanks to the rotatable and exchangeable torch necks in various lengths and geometries welders can adjust the ABIMIG® W T torch exactly to their needs.

- Long-life screw-in gas nozzles with integrated, exchangeable spatter protection
- A single basic torch for three capacities - reduces storage and maintenance costs
- Quick change, freely positionable torch necks - increase working comfort and reduce servicing costs
- Torch necks available in many different lengths and bending angles - for best accessibility
- Extended and short triggers available - for best handling
- Tried-and-tested ergonomic grip - easy to hold in all positions



### ABIMIG® W T 340

#### Technical data (EN 60 974-7):

Rating: 400 A CO<sub>2</sub>  
350 A mixed gas M21  
(DIN EN ISO 14175)  
350 A pulse  
Duty cycle: 100%  
Wire size: 0.8-1.2 mm

### ABIMIG® W T 440

#### Technical data (EN 60 974-7):

Rating: 500 A CO<sub>2</sub>  
450 A mixed gas M21  
(DIN EN ISO 14175)  
350 A pulse  
Duty cycle: 100%  
Wire size: 0.8-1.6 mm

### ABIMIG® W T 540

#### Technical data (EN 60 974-7):

Rating: 600 A CO<sub>2</sub>  
550 A mixed gas M21  
(DIN EN ISO 14175)  
400 A pulse  
Duty cycle: 100%  
Wire size: 1.0-1.6 mm

#### Note for liquid cooled torches:

To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® W T 340	Push-button short	788.0041.1	788.0042.1	788.0043.1	50°	788.0020.1
ABIMIG® W T 340	Push-button long	788.0116.1	788.0117.1	788.0118.1	50°	788.0020.1
ABIMIG® W T 440	Push-button short	788.0044.1	788.0045.1	788.0046.1	50°	788.0005.1
ABIMIG® W T 440	Push-button long	788.0119.1	788.0120.1	788.0121.1	50°	788.0005.1
ABIMIG® W T 540	Push-button short	788.0047.1	788.0048.1	788.0049.1	50°	788.0026.1
ABIMIG® W T 540	Push-button long	788.0122.1	788.0123.1	788.0124.1	50°	788.0026.1



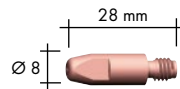
# ABIMIG® W T 340, ABIMIG® W T 440, ABIMIG® W T 540

## Wear parts

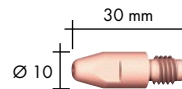


## Gas nozzle incl. spatter protection<sup>1</sup> (5 pcs.)

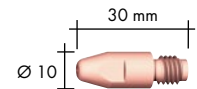
	Ø A			Ø A		Ø A	
Cylindrical	Ø 17	145.0740.5	Ø 18	145.0745.5	Ø 20	145.0742.5	
Conical	Ø 12.5	145.0737.5 <sup>2</sup>	Ø 14.5	145.D092.5 <sup>3</sup>	Ø 16	145.0735.5 <sup>4</sup>	
Conical	Ø 10	145.0739.5	Ø 12	145.0746.5	Ø 14	145.0741.5	



**M6**



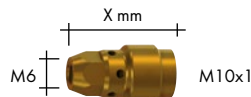
**M8**



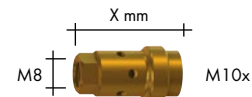
**M8**

## Contact tip (10 pcs.)

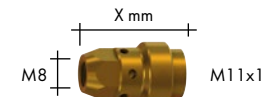
E-Cu	Ø 0.8	140.0051	140.0114	-	
	Ø 1.0	140.0242	140.0313	140.0313	
	Ø 1.2	140.0379	140.0442	140.0442	
	Ø 1.6	-	140.0587	140.0587	
E-Cu for Al	Ø 0.8	141.0001	141.0033	-	
	Ø 1.0	141.0006	141.0008	141.0008	
	Ø 1.2	141.0010	141.0015	141.0015	
	Ø 1.6	-	141.0022	141.0022	
CuCrZr	Ø 0.8	140.0054	140.0117	-	
	Ø 1.0	140.0245 <sup>2</sup>	140.0316	140.0316	
	Ø 1.2	140.0382	140.0445 <sup>3</sup>	140.0445 <sup>4</sup>	
	Ø 1.6	-	140.0590	140.0590	



**X**



**X**



**X**

## Contact tip holder (5 pcs.)

Brass	24.0	142.0241.5	26.0	142.0252.5	25.0	142.0239.5
	26.0	142.0242.5 <sup>2</sup>	28.0	142.0253.5 <sup>3</sup>	27.0	142.0240.5 <sup>4</sup>
	-	-	31.0	142.0243.5	-	-
	-	-	-	-	-	-
CuCrZr	26.0	142.0274.5	29.5	142.0262.5	25.0	142.0247.5
	-	-	-	-	27.0	142.0248.5
	-	-	-	-	28.5	142.0261.5
	-	-	-	-	-	-

## Torch neck spiral

Spiral	Ø 0.8-1.2	123.D097 <sup>2</sup>	123.D097 <sup>3</sup>	123.D097 <sup>4</sup>
	Ø 1.4-1.6	-	123.D098	123.D098
BPL liner with inlet-tip	Ø 0.8-1.2	149.0418.1	149.0418.1	149.0418.1
	Ø 1.4-1.6	149.0420.1	149.0420.1	149.0420.1

Liner		for 3 m	for 4 m	for 5 m
Spiral	Ø 0.8	124.0137	124.0138	124.0139
	Ø 1.0	124.0111 <sup>2</sup>	124.0112 <sup>2</sup>	124.0113 <sup>2</sup>
	Ø 1.2	124.0111 <sup>3,4</sup>	124.0112 <sup>3,4</sup>	124.0113 <sup>3,4</sup>
	Ø 1.6	124.0114	124.0115	124.0116
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
	Ø 1.6	126.0039	126.0042	126.0045
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008
	Ø 1.6	127.0010	127.0012	127.0013



<sup>1</sup> The integrated spatter protection is already contained in the above-mentioned gas nozzles and can be ordered separately on request.

<sup>2</sup> Included in the standard equipment for complete torches ABIMIG® W T 340.

<sup>3</sup> Included in the standard equipment for complete torches ABIMIG® W T 340.

<sup>4</sup> Included in the standard equipment for complete torches ABIMIG® W T 340.

# MIG/MAG welding torches "ABIMIG® W"

## Liquid cooled • rating 350 A up to 600 A

ABIMIG® W torches are optimal whenever the best possible welding results are to be achieved with a torch neck geometry. Thanks to the slim straight handles, the torches fit comfortably in the hand and allow different postural positions and flexibility in torch neck alignment. ABIMIG® W torches are very hard-wearing and, thanks to the double fixation of the torch neck, are particularly well protected against mechanical deformation.

- Coated torch necks and robust design for use at high process temperatures
- Durable, screwable gas nozzles with integrated, replaceable spatter protection
- Extended and short triggers available - for best handling
- Tried-and-tested ergonomic grip - easy to hold in all positions



### ABIMIG® W 340

#### Technical data (EN 60 974-7):

Rating: 400 A CO<sub>2</sub>  
350 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 0.8-1.2 mm

### ABIMIG® W 440

#### Technical data (EN 60 974-7):

Rating: 500 A CO<sub>2</sub>  
450 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 0.8-1.6 mm

### ABIMIG® W 540

#### Technical data (EN 60 974-7):

Rating: 600 A CO<sub>2</sub>  
550 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 100%

Wire size: 1.0-1.6 mm

#### Note for liquid cooled torches:

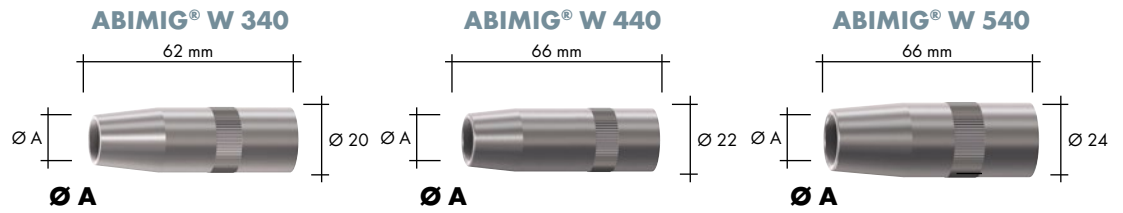
To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® W 340	Push-button short	788.1530.1	766.1531.1	766.1532.1	50°	766.1553.1
ABIMIG® W 340	Push-button long	766.1558.1	766.1559.1	766.1560.1	50°	766.1553.1
ABIMIG® W 440	Push-button short	766.1533.1	766.1534.1	766.1535.1	50°	766.1548.1
ABIMIG® W 440	Push-button long	766.1561.1	766.1562.1	766.1563.1	50°	766.1548.1
ABIMIG® W 540	Push-button short	766.1536.1	766.1537.1	766.1538.1	50°	766.1539.1
ABIMIG® W 540	Push-button long	766.1564.1	766.1565.1	766.1566.1	50°	766.1539.1

Up/Down module on request.

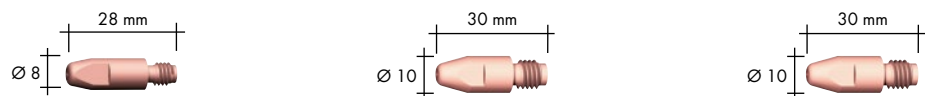
# ABIMIG® W 340, ABIMIG® W 440, ABIMIG® W 540

## Wear parts



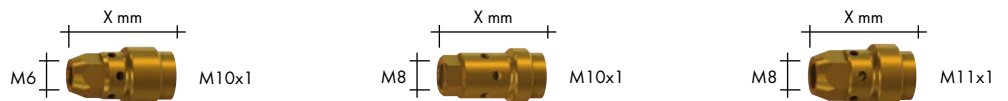
## Gas nozzle incl. spatter protection<sup>1</sup> (5 pcs.)

	Ø A		Ø A		Ø A	
Cylindrical	Ø 17	145.0740.5	Ø 18	145.0745.5	Ø 20	145.0742.5
Conical	Ø 12.5	145.0737.5 <sup>2</sup>	Ø 14.5	145.D092.5 <sup>3</sup>	Ø 16	145.0735.5 <sup>4</sup>
Conical	Ø 10	145.0739.5	Ø 12	145.0746.5	Ø 14	145.0741.5



## Contact tip (10 pcs.)

		M6	M8	M8
E-Cu	Ø 0.8	140.0051	140.0114	-
	Ø 1.0	140.0242	140.0313	140.0313
	Ø 1.2	140.0379	140.0442	140.0442
	Ø 1.6	-	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0001	141.0033	-
	Ø 1.0	141.0006	141.0008	141.0008
	Ø 1.2	141.0010	141.0015	141.0015
	Ø 1.6	-	141.0022	141.0022
CuCrZr	Ø 0.8	140.0054	140.0117	-
	Ø 1.0	140.0245 <sup>2</sup>	140.0316	140.0316
	Ø 1.2	140.0382	140.0445 <sup>3</sup>	140.0445 <sup>4</sup>
	Ø 1.6	-	140.0590	140.0590



## Contact tip holder (5 pcs.)

	X	X	X	X
Brass	24.0	142.0241.5	26.0	142.0252.5
	26.0	142.0242.5 <sup>2</sup>	28.0	142.0253.5 <sup>3</sup>
	-	-	31.0	142.0243.5
	-	-	-	-
CuCrZr	26.0	142.0274.5	29.5	142.0262.5
	-	-	-	-
	-	-	-	-
	-	-	-	-

Liner		for 3 m	for 4 m	for 5 m
Spiral	Ø 0.8	124.0137	124.0138	124.0139
	Ø 1.0	124.0111 <sup>2</sup>	124.0112 <sup>2</sup>	124.0113 <sup>2</sup>
	Ø 1.2	124.0111 <sup>3,4</sup>	124.0112 <sup>3,4</sup>	124.0113 <sup>3,4</sup>
	Ø 1.6	124.0114	124.0115	124.0116
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
	Ø 1.6	126.0039	126.0042	126.0045
Carbon PTFE liner	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
	Ø 1.2	127.0005	127.0007	127.0008
	Ø 1.6	127.0010	127.0012	127.0013

<sup>1</sup> The integrated spatter protection is already contained in the above-mentioned gas nozzles and can be ordered separately on request.

<sup>2</sup> Included in the standard equipment for complete torches ABIMIG® W 340.

<sup>3</sup> Included in the standard equipment for complete torches ABIMIG® W 440.

<sup>4</sup> Included in the standard equipment for complete torches ABIMIG® W 540.

# MIG/MAG machine welding torches

## Air and liquid cooled

ABIMIG® torches in the MT series were developed specially for the requirements in partially mechanised welding processes and are just as robust and versatile as all ABIMIG® models. ABIMIG® MT W T and A T torches with changeable torch necks are able to display their advantages in particular in tasks with different demands on the required neck geometries. In addition, the quick torch neck change ensures short setting up and maintenance times.

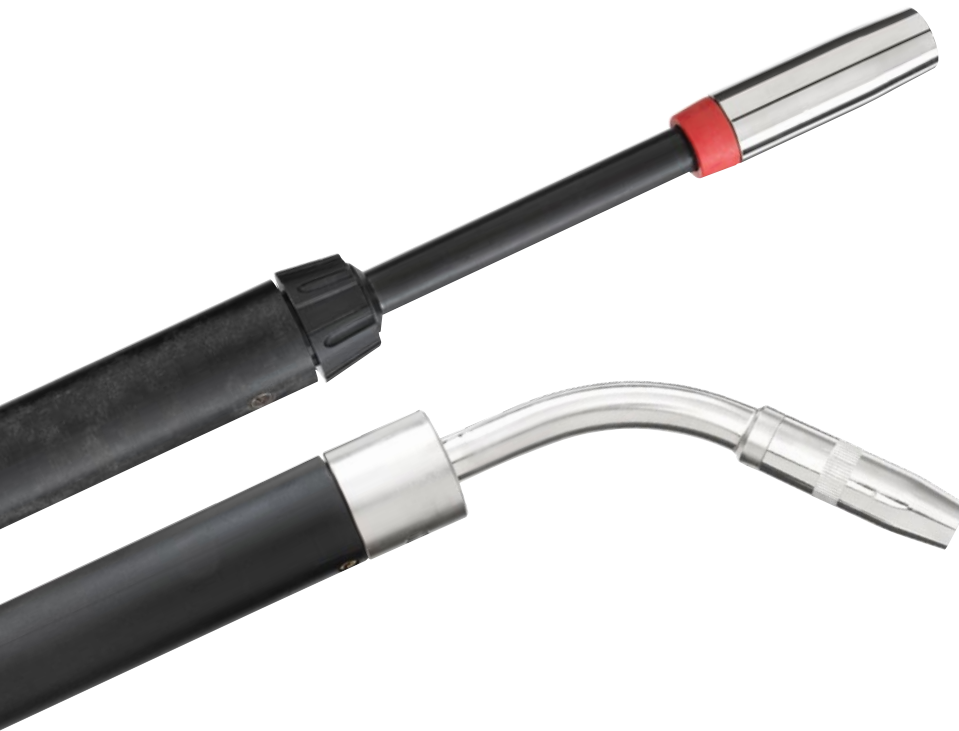
Liquid-cooled ABIMIG® MT W torches with a fixed torch neck and easily reproducible TCP (working point/tool centre point) are suitable for mechanised welding with a long duty cycle, in particular with components without a restriction on accessibility.

### Advantages ABIMIG® MT A T & W T

- Rotatable and exchangeable torch neck
- Robust welding torch, durable construction
- 8-fold positioning of the torch neck for optimal accessibility also for demanding seam geometries
- Reduction of set-up and repair times with quick-change torch neck

### Advantages ABIMIG® MT W

- Fixed torch neck with distinct reproducible TCP
- Robust welding torch, durable construction
- Very good accessibility due to a slim front end (ABIMIG® MT W 340 & 440)

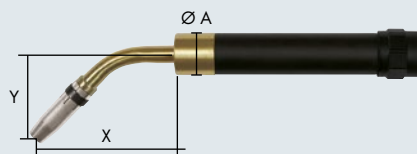


### Order information:

When ordering complete torches, please indicate the torch type, torch geometry (straight or bent) and dimension „L“ (see sketch).

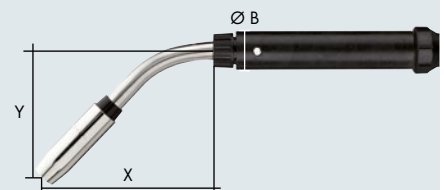
The wear parts – contact tip, gas nozzle, gas diffuser, contact tip holder, neck liner or liner – are identical with those of the manual welding torches of same size (ABIMIG® 455 on request).

#### Fixed swan neck

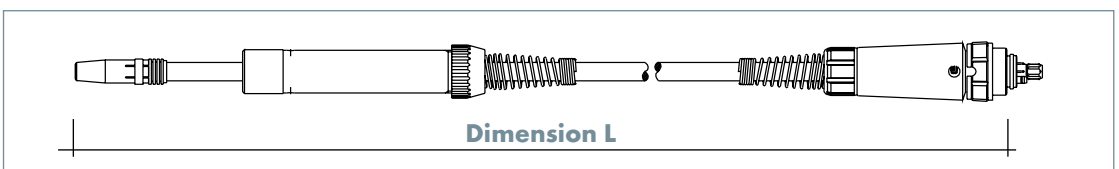


Ø A	air cooled torches:	38 mm
	liquid cooled torches:	38 mm

#### Changeable swan neck



Ø B	air cooled torches:	37 mm
	liquid cooled torches:	40 mm



**ABIMIG® MT A T** – base torch with changeable swan neck interface (air cooled)

Type	Length	Connection	Part-No.
ABIMIG® MTG 255	3.00 m	KZ-2	904.D010.1
ABIMIG® MTG 305	3.00 m	KZ-2	918.D023.1
ABIMIG® MTG 355	3.00 m	KZ-2	914.D020.1
ABIMIG® MTG 405 / 455	3.00 m	KZ-2	916.D005.1

**ABIMIG® MT A T** – COMBI swan necks (equipped with contact tip E-Cu, screwed gas nozzle, neck liner)

Type	Geo- metry	X (mm)	Y (mm)	Duty cycle	Rating <sup>1</sup> CO <sub>2</sub> / M21	Gas nozzle	Wire size	Part-No.
COMBI swan neck A T 255 T8	0°	195	0	60%	240 A 220 A	ND 16	1.0 mm	004.0690.1
COMBI swan neck A T 255 T8	45°	160	85	60%	240 A 220 A	ND 16	1.0 mm	004.0628.1
COMBI swan neck A T 305K T8M	0°	170	0	60%	290 A 260 A	ND 18	1.2 mm	014.0538.1
COMBI swan neck A T 305K T8M	45°	135	75	60%	290 A 260 A	ND 18	1.2 mm	014.0468.1
COMBI swan neck A T 305 T8M	0°	195	0	60%	290 A 260 A	ND 18	1.2 mm	014.0540.1
COMBI swan neck A T 305 T8M	45°	185	95	60%	290 A 260 A	ND 18	1.2 mm	014.0474.1
COMBI swan neck A T 355K T8M	0°	195	0	60%	340 A 320 A	ND 18	1.2 mm	014.0540.1
COMBI swan neck A T 355 T8M	45°	185	95	60%	340 A 320 A	ND 18	1.2 mm	014.0474.1
COMBI swan neck A T 405 T8M	0°	250	0	60%	400 A 370 A	ND 18	1.6 mm	015.0103.1
COMBI swan neck A T 405 T8M	45°	210	95	60%	400 A 370 A	ND 18	1.6 mm	015.0089.1
COMBI swan neck A T 455 T8M	0°	270	0	60%	400 A 370 A	ND 19	1.6 mm	016.0034.1

**ABIMIG® MT W T** – base torch with changeable swan neck interface (liquid cooled)

Type	Length	Connection	Part-No.
ABIMIG® MT W T G	2.00 m	WZ-0	933.0001.1
ABIMIG® MT W T G	3.00 m	WZ-0	933.D007

**ABIMIG® MT W T** – COMBI swan necks (equipped with contact tip CuCrZr, screwed gas nozzle, neck liner)

Type	Geo- metry	X (mm)	Y (mm)	Duty cycle	Rating <sup>1</sup> CO <sub>2</sub> / M21	Gas nozzle	Wire size	Part-No.
COMBI swan neck W T 340	0°	170	0	100%	400 A 350 A	ND 12.5	1.0 mm	788.0127.1
COMBI swan neck W T 340	50°	140	85	100%	400 A 350 A	ND 12.5	1.0 mm	788.0019.1
COMBI swan neck W T 440	0°	175	0	100%	500 A 450 A	ND 14.5	1.2 mm	788.0129.1
COMBI swan neck W T 440	50°	145	85	100%	500 A 450 A	ND 14.5	1.2 mm	788.0004.1
COMBI swan neck W T 540	0°	190	0	100%	600 A 550 A	ND 16.0	1.2 mm	788.0133.1
COMBI swan neck W T 540	50°	150	90	100%	600 A 550 A	ND 16.0	1.2 mm	788.0025.1

**ABIMIG® MT W** – complete torch fixed

Type	Length	Geo- metry	X (mm)	Y (mm)	Duty cycle	Rating CO <sub>2</sub> / M21	Gas nozzle	Wire size	Part-No.
ABIMIG® MT W 340	2.0 m	50°	135	85	100%	400 A 350 A	ND 12.5	1.0 mm	788.0179.1
ABIMIG® MT W 440	2.0 m	50°	140	85	100%	500 A 450 A	ND 14.5	1.2 mm	788.0168.1
ABIMIG® MT W 540	2.0 m	50°	155	90	100%	600 A 550 A	ND 16.0	1.2 mm	788.0184.1

Other lengths of cable assemblies and torch neck geometries on request.

<sup>1</sup> Performance data, each in combination with a corresponding base torch of the same size (e.g. COMBI swan neck A T 255 T8 with ABIMIG® MTG 255).

# Bikox<sup>®</sup>, control cables, hoses and liners

## I. Cable assemblies air cooled

Type	Bikox <sup>®</sup>	Cable assembly length			
		3 m	4 m	5 m	8 m
ABIMIG <sup>®</sup> A T 155 LW	R4 / LW	160.H025.1	160.H026.1	160.H027.1	-
ABIMIG <sup>®</sup> A T 255 LW	R5 / LW	160.H032.1	160.H033.1	160.H034.1	-
ABIMIG <sup>®</sup> A T 305 LW	R6 / LW	160.H039.1	160.H040.1	160.H041.1	-
ABIMIG <sup>®</sup> A T 355 LW	R7 / LW	160.H046.1	160.H047.1	160.H048.1	-
ABIMIG <sup>®</sup> A T 405 LW	R9 / LW	160.H344.1	160.H345.1	160.H346.1	-
ABIMIG <sup>®</sup> A 155 LW	R18 / LW	160.H025.1	160.H026.1	160.H027.1	-
ABIMIG <sup>®</sup> A 255 LW	R28 / LW	160.H032.1	160.H033.1	160.H034.1	-
ABIMIG <sup>®</sup> A 305 LW	R42 / LW	160.H039.1	160.H040.1	160.H041.1	-
ABIMIG <sup>®</sup> A 355 LW	R53 / LW	160.H046.1	160.H047.1	160.H048.1	-
ABIMIG <sup>®</sup> A 405 LW	RA 70 / LW	160.H344.1	160.H345.1	160.H346.1	-

## II. Cable assemblies liquid cooled

Type	Description	Cable assembly length				
		3 m	4 m	5 m	8 m	per m
ABIMIG <sup>®</sup> W T 340 / 440 / 540	Power cable PVC	115.0581	115.0582	115.0583	-	-
ABIMIG <sup>®</sup> W 340	Power cable PVC	115.0855.1	115.0856.1	115.0857.1	-	-
ABIMIG <sup>®</sup> W T 340 / 440 / 540	Wire conduit	109.0094.1	109.0095.1	109.0096.1	-	-
ABIMIG <sup>®</sup> W 340 / 440 / 540	Wire conduit / gas hose	154.0020.1	154.0021.1	154.0022.1	-	-
ABIMIG <sup>®</sup> W T 340 / 440 / 540	Water hose blue PVC	-	-	-	-	109.0057
ABIMIG <sup>®</sup> W 340 / 440 / 540	Water hose blue PVC, Ø 5.5x1.5	-	-	-	-	109.0057
ABIMIG <sup>®</sup> W 340 / 440 / 540	Water hose red PVC, Ø 5.5x1.5	-	-	-	-	109.0056
All torches	Control cable 2-pole	-	-	-	-	100.0019

## III. Outer and suction hose

Type	Description	Cable assembly length			
		3 m	4 m	5 m	per m
ABIMIG <sup>®</sup> W T 340 / 440 / 540	Outer hose 25x1.5 (with bend protection))	107.0079	107.0044	107.0080	-
ABIMIG <sup>®</sup> W 340 / 440 / 540	Outer hose 25x1.5 (with bend protection))	107.0109.1	107.0110.1	107.0111.1	107.0004

## IV. Hose clamps, quick connector and marking washer

Type	Pcs.	Part-No.	for hose			
			109.0040	109.0052	109.0056	109.0057
Hose clamp Ø=8.7	100	171.0002	•			
Hose clamp Ø=9.0 with ring (mark. 9.5)	100	173.0001			•	•
Hose clamp Ø=9.5 with ring (mark.10.0)	100	173.0002		•		
Quick connector ND 5 / Ø=6.0	20	501.0114		•	•	•
Marking washer red	20	501.2166		•		
Marking washer blue	20	501.2167		•		
Fastener cap red	20	501.2423		•	•	
Fastener cap blue	20	501.2424		•		•

## V. Combined wire guides

Type	for wire size	for 3 m	for 4 m	for 5 m	for 8 m
PTFE / brass	0.8	126.M002	126.M003	126.M004	-
PTFE / brass	1.0-1.2	126.M006	126.M007	126.M008	-
PTFE / brass	1.6	126.M009	126.M010	126.M011	-
Carbon-PTFE / brass	0.8	127.M002	127.M003	127.M004	-
Carbon-PTFE / brass	1.0-1.2	127.M006	127.M007	127.M008	-
PA / brass	1.0-1.2	128.M002	128.M003	128.M004	-
P (for ABIMIG® A / A T 405 LW)	1.0	126.D026.1	126.D027.1	126.D028.1	-
P (for ABIMIG® A / A T 405 LW)	1.2	126.D029.1	126.D030.1	126.D031.1	-

## VI. PA liner

Liner	Color	Ø inside / outside	for wire size	for 3 m	for 4 m	for 5 m	for 8 m
PA liner	grey	2.0 / 4.0	1.0-1.2	128.0012	128.0015	128.0016	128.0019
PA liner	grey	2.3 / 4.7	1.6	128.0020	128.0021	128.0030	128.0023
PA liner	grey	2.9 / 4.7	2.4	128.0024	128.0025	128.0027	128.0032
PA liner with inlet-tip	grey	2.3 / 4.7	1.2-1.6	128.0058.1	128.0059.1	128.0060.1	-

## VII. BPL liner

Liner	Color	Ø inside / outside	for wire size	for 3 m	for 4 m	for 5 m	for 8 m
BPL liner with inlet-tip	orange	2.0 / 4.7	0.8-1.2	126.0069	126.0070	126.0071	-
BPL liner with inlet-tip	petrol	2.7 / 4.7	1.6	126.0072	126.0073	126.0074	-

# Handles and modules

## Handles ABIMIG® A T / W T without modules



Push-button long, blind cover



Push-button short, blind cover

Type	Description	Part-No.
Handle ABIMIG® A T push-button long	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	180.D077.1
Handle ABIMIG® A T push-button short	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	180.D078.1
Cable protection ABIMIG® A T, short	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	400.D574.1
Handle ABIMIG® W T push-button long	for ABIMIG® W T 340 / 440 / 540	180.0164.1
Handle ABIMIG® W T push-button short	for ABIMIG® W T 340 / 440 / 540	180.0165.1
Half rings (fixes cable protection on handle), 1 pair	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405 / ABIMIG® W T 340 / 440 / 540	400.D561.2

## Handles ABIMIG® A T / W T with module Up/Down



Push-button long, Up/Down



Push-button short, Up/Down

Type	Description	Part-No.
Handle push-button long, incl. module BIS-52 Up/Down 2x push-button (400.1292.1)	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	180.D079.1
Handle push-button short, incl. module BIS-52 Up/Down 2x push-button (400.1292.1)	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	180.D080.1
Cable protection ABIMIG® A T, short	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	400.D574.1
Handle push-button long, incl. module BIS-52 Up/Down 2x push-button (400.1292.1)	for ABIMIG® W T 340 / 440 / 540	180.0166.1
Handle push-button short, incl. module BIS-52 Up/Down 2x push-button (400.1292.1)	for ABIMIG® W T 340 / 440 / 540	180.0167.1
Half rings (fixes cable protection on handle), 1 pair	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405 / ABIMIG® W T 340 / 440 / 540	400.D561.2



### Handles ABIMIG® A / W without modules



Push-button long, blind cover



Push-button short, blind cover

Type	Description	Part-No.
Handle ABIMIG® A push-button long	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	180.0180.1
Handle ABIMIG® A push-button short	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	180.0181.1
Cable protection ABIMIG® A, short	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	400.D574.1
Handle ABIMIG® W push-button long	for ABIMIG® W T 340 / 440 / 540	180.0180.1
Handle ABIMIG® W push-button short	for ABIMIG® W T 340 / 440 / 540	180.0181.1
Half rings (fixes cable protection on handle), 1 pair	for ABIMIG® A T LW 155 / 255 / 305 / 355 / 405 / ABIMIG® W T 340 / 440 / 540	400.D561.2

### Handles ABIMIG® A / W with module Up/Down



Push-button long, Up/Down



Push-button short, Up/Down

Type	Description	Part-No.
Handle push-button long, incl. module BIS-52 Up/Down 2x push-button (400.1292.1)	for ABIMIG® A LW 155 / 255 / 305 / 355 / 405	180.0182.1
Handle push-button short, incl. module BIS-52 Up/Down 2x push-button (400.1292.1)	for ABIMIG® A LW 155 / 255 / 305 / 355 / 405	180.D083.1
Cable protection ABIMIG® A, short	for ABIMIG® A LW 155 / 255 / 305 / 355 / 405	400.D574.1
Handle push-button long, incl. module BIS-52 Up/Down 2x push-button (400.1292.1)	for ABIMIG® W 340 / 440 / 540	180.0182.1
Handle push-button short, incl. module BIS-52 Up/Down 2x push-button (400.1292.1)	for ABIMIG® W 340 / 440 / 540	180.0183.1
Half rings (fixes cable protection on handle), 1 pair	for ABIMIG® A LW 155 / 255 / 305 / 355 / 405 / ABIMIG® W 340 / 440 / 540	400.D561.2

# Fume extraction system

## FES-200 and FES-200 W3

Mobile, powerful and easy to use! The Fume Extraction System FES-200 - for optimum extraction of contaminants with fume extraction directly at the arc. The W3 version is certified for all CrNi-steels!

The high-vacuum extraction unit FES-200 and FES-200 W3 with the RAB GRIP torches constitutes the perfect system to extract welding fumes most effectively. Hence, the welder and his environment are best protected, and the most productive work enabled.

- Weighs approx. 23 kg
- Automatic start/stop function included in basic equipment
- Integrated manual filter cleaning system for longer uses
- A filter contamination meter; only clean when necessary
- IFA certified W3-License



The FES-200 W3 was developed specifically to meet the demands of chrome and nickel material joining, and is certified by the Institute of Work Safety with the **W3 license for all welding applications** or related procedures with emissions suitable to KMR / 1.2 materials\*. Thus, this device enables the filtering of the exhaust, and work to be conducted without these otherwise harmful effects.

\* List of carcinogenic, mutagenic, or toxic to reproduction materials

# Fume extraction system & accessories

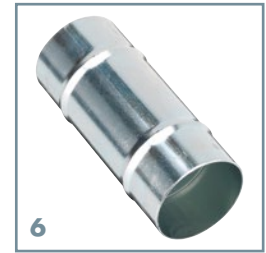
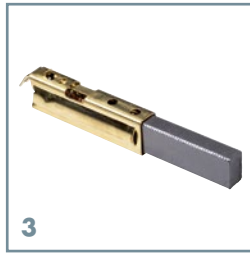
## Complete extraction unit



### Extraction unit package includes:

- Extraction hose with sleeve
- Start/Stop shunt
- 10 dust collection bags
- Filter cartridge

## Replacement parts and accessories



Pos.	Description	Part-No.
1	Complete unit FES-200 (230 V)	601.0001.1
	Complete unit FES-200 (115 V)	601.0002.1
2	Complete unit FES-200 W3 (230 V)	601.0034.1
	Complete unit FES-200 W3 (115 V)	601.0035.1
3	Carbon brush (230 V)	601.0005.1
	Carbon brush (115 V)	601.0017.1
4	Filter cartridge FES-200	601.0008.1
	Filter cartridge FES-200, carbonized	601.0056.1
	Filter cartridge FES-200 W3	601.0048.1
	Filter cartridge FES-200 W3, carbonized	601.0053.1
5	Hose with sleeve, L = 5.00 m	601.0015.1
6	Adapter ring (connection for two hoses)	601.0046.1
7	Start/stop shunt, 4-pole	601.0041.1
8	Dust collection bag (w/o pan)	601.0021.10
9	Exhaust casting FES-200 (optional)	601.0023.1
10	Adapter ring FES-200 / RAB Plus (50 / 44 mm)	601.0031.1
11	Suction funnel flexible with stand	601.0016.1

\*Included in the standard equipment of the complete unit.

## Our product range:

### ■ MIG/MAG

- Welding torches
- Machine and special torches
- Push-Pull welding torches
- Fume extraction torches
- Central adapter system

### ■ TIG

- Welding torches
- Machine and special torches

### ■ PLASMA

- Cutting torches
- Welding torches
- Machine and special torches

### ■ Robotic peripheral equipment

- Robot torches  
MIG/TIG/PLASMA
- Robot mount CAT2/iCAT
- Torch change system  
ATS-Rotor
- Tool change system WWS
- Wire cutting station DAV
- Torch cleaning stations  
BRS-LC, BRS-CC and BRS-FP
- Wire feeding station APD-MF

### ■ Welding accessories

- Fume extraction systems
- Coolers
- Welding cable plug and socket
- Anti spatter Spray and paste  
and so on ...



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