TECHNOLOGY FOR THE WELDER'S WORLD.

MIG/MAG



Product Catalogue 3.1 / V1

ABICOR BINZEL®

www.binzel-abicor.com



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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_2 150 A Mixed Gases 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):

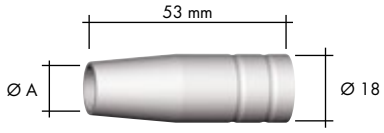
Rating:	230 A CO_2 200 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	60 %
Wire size:	0.8 – 1.2 mm

Torch complete		Part-No.			Swan neck	
Type	**Handle**	**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

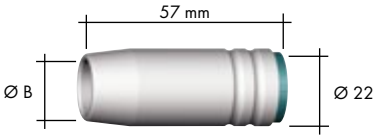
MB GRIP 15, MB GRIP 25

Wear parts

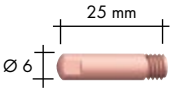
MB GRIP 15 AK

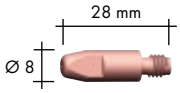


MB GRIP 25 AK



Gas nozzle (10 pcs.)	**Ø A**		**Ø B**	
Cylindrical	Ø 16	145.0041	Ø 18	145.0042
Conical	Ø 12	145.0075[1]	Ø 15	145.0076[2]
Conical	Ø 9.5	145.0123	Ø 11.5	145.0124





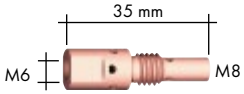
Contact tip (10 pcs.)		**M6**	**M6**
E-Cu	Ø 0.6	140.0008	–
	Ø 0.8	140.0059[1]	140.0051
	Ø 1.0	140.0253	140.0242[2]
	Ø 1.2	–	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	–	141.0010
CuCrZr	Ø 0.6	140.0855	–
	Ø 0.8	140.0062	140.0054
	Ø 1.0	140.0256	140.0245
	Ø 1.2	–	140.0382





Nozzle spring (100 pcs.)		
	002.0058[1]	003.0013[2]





Gas nozzle holder / Contact tip holder		
M6	002.0078[1]	142.0001[2] (10 pcs.)





Liner		**for 3 m**	**for 4 m**	**for 5 m**
Insulated liner	Ø 0.6	124.0011[1]	124.0012[1]	124.0015[1]
	Ø 0.8	124.0011[1]	124.0012[1]	124.0015[1]
	Ø 1.0	124.0026[2]	124.0031[2]	124.0035[2]
	Ø 1.2	124.0026[2]	124.0031[2]	124.0035[2]
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

[1] Included in the standard equipment for complete torches MB GRIP 15 AK.
[2] 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_2 220 A Mixed Gases 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_2 240 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	60 %
Wire size:	0.8 – 1.2 mm

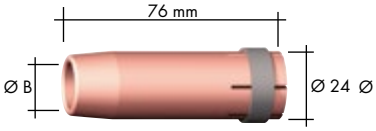
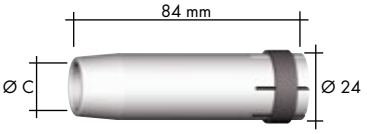
MB GRIP 36 KD
Technical data (EN 60 974-7):

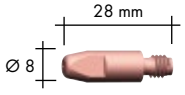
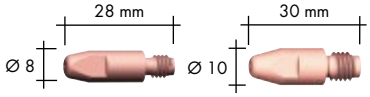
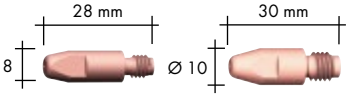
Rating:	320 A CO_2 290 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	60 %
Wire size:	0.8 – 1.2 mm

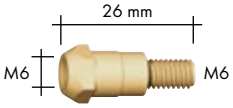
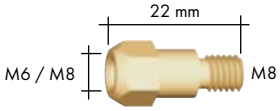
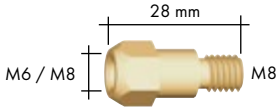
Torch complete		Part-No.			Swan neck	
Type	**Handle**	**3 m**	**4 m**	**5 m**	**Type**	**Part-No.**
MB GRIP 24 KD	Type “MB GRIP”	012.0251	012.0252	012.0253	50°	012.0001
MB GRIP 26 KD	Type “MB GRIP”	018.0146	018.0147	018.0148	50°	018.0001
MB GRIP 36 KD	Type “MB GRIP”	014.0334	014.0335	014.0336	50°	014.0006

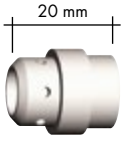
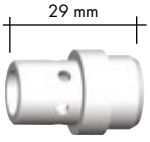
MB GRIP 24, MB GRIP 26, MB GRIP 36

Wear parts

	MB GRIP 24 KD		MB GRIP 26 KD		MB GRIP 36 KD	
						
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[1]	Ø 16	145.0085[2]	Ø 16	145.0078[3]
Conical	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[1]	140.0242[2]	140.0313	140.0242	140.0313
	Ø 1.2	140.0379	140.0379	140.0442	140.0379	140.0442[3]
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[1]	142.0007[2]		142.0005	
M8		–	142.0082		142.0020[3]	

						
Gas diffuser (10 pcs.)						
Standard		012.0183[1]	018.0116[2]		014.0261[3]	
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[1, 2]	124.0031[1, 2]	124.0035[1, 2]
	Ø 1.2	124.0026[3]	124.0031[3]	124.0035[3]
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

[1] Included in the standard equipment for complete torches MB GRIP 24 KD.
[2] Included in the standard equipment for complete torches MB GRIP 26 KD.
[3] 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_2 270 A Mixed Gases 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_2 350 A / 400 A Mixed Gases 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):

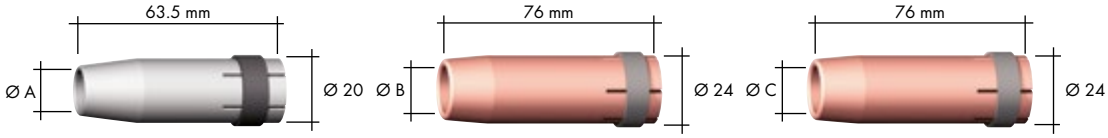
Rating:	500 A / 550 A CO_2 450 A / 500 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	1.0 – 1.6 mm

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.

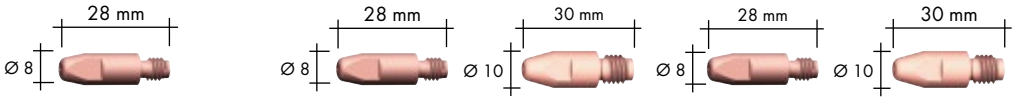
Torch complete		Part-No.			Swan neck	
Type	Handle	3 m	4 m	5 m	Type	Part-No.
MB GRIP 240 D	Type “MB GRIP”	023.0225	023.0226	023.0227	50°	023.0228
MB GRIP 401 D	Type “MB GRIP”	033.0271	033.0272	033.0273	50°	033.0277
MB GRIP 401	Type “MB GRIP”	030.0205	030.0206	030.0207	50°	030.0208
MB GRIP 501 D	Type “MB 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, MB GRIP 401 / 501

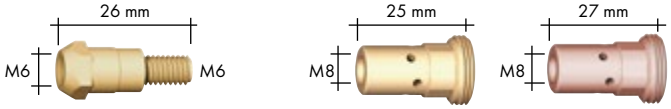
Wear parts



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[1]	Ø 16	145.0085[2]	Ø 16	145.0085[3]
Conical	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[1]	140.0242	140.0313	140.0242	140.0313
	Ø 1.2	140.0379	140.0379	140.0442[2]	140.0379	140.0442[3]
	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[1]	142.0008	–	–
M8	–	142.0022	142.0201.10[2]	–



Gas diffuser (10 pcs.)			
Standard	012.0183[1]	030.0145[2]	030.0145[3]
Long life	–	030.0037	030.0037
Ceramic	–	030.0190	030.0190





Liner		**for 3 m**	**for 4 m**	**for 5 m**
Liner	Ø 0.8	122.0005	122.0007	122.0009
	Ø 1.0	122.0031[1]	122.0036[1]	122.0039[1]
	Ø 1.2	122.0031[2, 3]	122.0036[2, 3]	122.0039[2, 3]
	Ø 1.6	122.0056	122.0060	122.0063
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	Ø 0.8	127.0002	127.0003	127.0004
PTFE liner	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

[1] Included in the standard equipment for complete torches MB GRIP 240 D.
[2] Included in the standard equipment for complete torches MB GRIP 401 D / 501 D.
[3] Included in the standard equipment for complete torches MB GRIP 401 / 501.

MIG/MAG Welding Torches “MB ERGO”

Air and liquid cooled • rating 150 A up to 550 A

The MIG/MAG torch series “MB” is available in air and liquid cooled varieties and combines progressive technology and quality, enabling trouble-free operation for every application. All torches are thoroughly designed to provide comfortable and precise operation.

- Worldwide recognized top quality
- Ergonomically and technically advanced and 100% reliable
- Optimum cooling of the torch, extending torch life
- Time saving torch change over due to the ABICOR BINZEL central adapter system



Technical data (EN 60 974-7):

MIG/MAG Welding Torches “MB ERGO” (air cooled)

Type	Rating (A)		Duty cycle	Wire size
	CO_2	Mixed Gases M21	(%)	(mm)
MB ERGO 15 AK / MB ERGO 15 AK-FX	180	150	60	0.6–1.0
MB ERGO 24 KD	250	220	35	0.8–1.2
MB ERGO 25 AK / MB ERGO 25 AK-FX	230	200	60	0.8–1.2
MB ERGO 26 KD	230	200	35	0.8–1.2
MB ERGO 36 KD	300	270	60	0.8–1.2

MIG/MAG Welding Torches “MB ERGO” (liquid cooled)

Type	Rating (A)		Duty cycle	Wire size
	CO_2	Mixed Gases M21	(%)	(mm)
MB ERGO 240 D	300	270	100	0.8–1.2
MB ERGO 401 D	400	350	100	0.8–1.2
MB ERGO 401	450	400	100	0.8–1.2
MB ERGO 501 D	500	450	100	1.0–1.6
MB ERGO 501	550	500	100	1.0–1.6

Subjected to change without notice.

“MB ERGO” Torch series



Torch complete*			Part-No.		Swan neck	
Type	**Handle**	**3 m**	**4 m**	**5 m**	**Type**	**Part-No.**
MB ERGO 15 AK	Type “MB ERGO”	002.0449	002.0450	002.0451	50°	002.0009
MB ERGO 15 AK-FX	Type “MB ERGO”	002.0455	002.0456	002.0469	flexible	002.0029
MB ERGO 24 KD	Type “MB ERGO”	012.0103	012.0104	012.0105	50°	012.0001
MB ERGO 25 AK	Type “MB ERGO”	004.0312	004.0313	004.0314	50°	004.0012
MB ERGO 25 AK-FX	Type “MB ERGO”	004.0329	004.0330	004.0331	flexible	004.0032
MB ERGO 26 KD	Type “MB ERGO”	018.0062	018.0063	018.0064	50°	018.0001
MB ERGO 36 KD	Type “MB ERGO”	014.0143	014.0144	014.0145	50°	014.0006
MB ERGO 240 D	Type “MB ERGO”	023.0077	023.0078	023.0079	50°	023.0001
MB ERGO 401 D	Type “MB ERGO”	033.0107	033.0108	033.0109	50°	033.0001
MB ERGO 401	Type “MB ERGO”	030.0125	030.0126	030.0127	50°	030.0001
MB ERGO 501 D	Type “MB ERGO”	034.0160	034.0161	034.0162	50°	034.0001
MB ERGO 501	Type “MB ERGO”	032.0145	032.0146	032.0147	50°	032.0002

* All torches are equipped including central adapter with spring pins.
Wear parts see ”MB GRIP” torches of similar design (Page 4–9).

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 Welding Torches “ABIMIG® GRIP A LW”

Air cooled • rating 170 A up to 270 A

MIG/MAG Welding Torches ABIMIG® GRIP A LW air 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 torches of the ABIMIG® GRIP A LW series utilize the newly developed Low Weight Bikox®, which gives perfect balance to the torches for effortless welding in all positions.

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

- Low Weight Bikox® – up to 50% weight saving
- Ergonomic short handle with “GRIP” soft components on the handle, thumb rest and ball joint – guarantees optimal handling in all positions
- Screw-on gas nozzle with thermo-protective insulation – extending torch life
- Function integrated tip holder (gas diffuser, gas nozzle holder and contact tip holder in one piece) – reduces stock requirements
- Laminar gas feed – excellent gas coverage for best welding results
- Changeable gas nozzle seat – “extends” operating cycle of the torch neck and reduces maintenance costs
- Electrically insulated liner and connection nut (on the central adaptor) – enables exact setting of the arc parameters and therefore repeatability of welding results



ABIMIG® GRIP A 155 LW

Technical data (EN 60 974-7):

Rating:	240 A / 190 A CO_2
	220 A / 170 A Mixed Gases
	M21 (DIN EN ISO 14175)
Duty cycle:	35% / 60%
Wire size:	0.6 – 1.0 mm

ABIMIG® GRIP A 255 LW

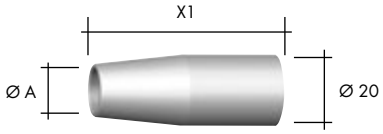
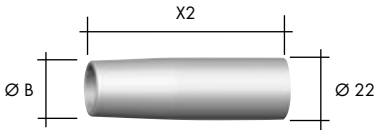
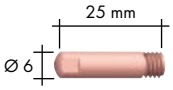
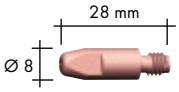
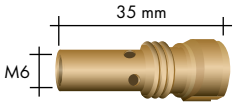
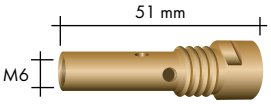
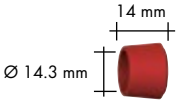
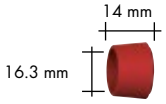
Technical data (EN 60 974-7):

Rating:	270 A / 240 A CO_2
	240 A / 210 A Mixed Gases
	M21 (DIN EN ISO 14175)
Duty cycle:	35% / 60%
Wire size:	0.8 – 1.2 mm

Torch complete		Part-No.			Swan neck	
Type	**Handle**	**3 m**	**4 m**	**5 m**	**Type**	**Part-No.**
ABIMIG® GRIP A 155 LW	Type “MB GRIP”	767.D600.1	767.D601.1	767.D602.1	45°	767.D603.1
ABIMIG® GRIP A 255 LW	Type “MB GRIP”	767.D630.1	767.D631.1	767.D632.1	45°	767.D633.1

ABIMIG® GRIP A 155 LW, ABIMIG® GRIP A 255 LW

Wear parts

	ABIMIG® GRIP A 155 LW			ABIMIG® GRIP A 255 LW		
						
Gas nozzle (5 pcs.)	**Ø**	**X1**		**Ø B**	**X2**	
Cylindrical	Ø 17	52 mm	145.D003	Ø 18	69 mm	145.D014
Conical	Ø 12	52 mm	145.D001[1]	Ø 16	70 mm	145.D011[2]
Conical	Ø 12	54 mm	145.D004	Ø 14	67 mm	145.D012
						
Contact tip (10 pcs.)		**M6**			**M6**	
E-Cu	Ø 0.6	140.0008			–	
	Ø 0.8	140.0059[1]			140.0051	
	Ø 1.0	140.0253			140.0242[2]	
	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	
						
Contact tip holder (5 pcs.)		006.D719.5[1]			004.D624.5[2]	
						
Adapter piece (5 pcs.)		767.D607.5[1]			767.D637.5[2]	





Liner		**for 3 m**	**for 4 m**	**for 5 m**
Liner	Ø 0.6	124.0011	124.0012	124.0015
	Ø 0.8	124.0011[1]	124.0012[1]	124.0015[1]
	Ø 1.0	124.0026[2]	124.0031[2]	124.0035[2]
	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

[1] Included in the standard equipment for complete torches ABIMIG® GRIP A 155 LW.
[2] Included in the standard equipment for complete torches ABIMIG® GRIP A 255 LW.

MIG/MAG Welding Torches "ABIMIG® GRIP A LW"

Air cooled • rating 240 A up to 430 A

- Low Weight Bikox® – up to 50% weight saving
- Ergonomic short handle with "GRIP" soft components on the handle, thumb rest and ball joint – guarantees optimal handling in all positions
- Screw-on gas nozzle with thermo-protective insulation – extending torch life
- Function integrated tip holder (gas diffuser, gas nozzle holder and contact tip holder in one piece) – reduces stock requirements
- Laminar gas feed – excellent gas coverage for best welding results
- Changeable gas nozzle seat – "extends" operating cycle of the torch neck and reduces maintenance costs
- Electrically insulated liner and connection nut (on the central adaptor) – enables exact setting of the arc parameters and therefore repeatability of welding results

Additionally for ABIMIG® GRIP A 405 LW:

- Bikox® with large flow cross-section – guarantees gas coverage
- Specially designed steel liner – guarantees optimum and consistent wire feeding



ABIMIG® GRIP A 305 LW

Technical data (EN 60 974-7):

Rating:	315 A / 270 A CO_2 300 A / 240 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	35 % / 60 %
Wire size:	0.8 – 1.2 mm

ABIMIG® GRIP A 355 LW

Technical data (EN 60 974-7):

Rating:	350 A / 300 A CO_2 320 A / 270 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	35 % / 60 %
Wire size:	1.0 – 1.6 mm

ABIMIG® GRIP A 405 LW

Technical data (EN 60 974-7):

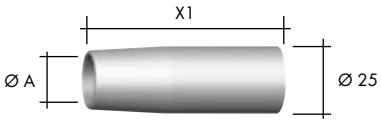
Rating:	430 A / 370 A CO_2 350 A / 300 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	35 % / 60 %
Wire size:	1.0 – 1.6 mm

Torch complete		Part-No.			Swan neck	
Type	**Handle**	**3 m**	**4 m**	**5 m**	**Type**	**Part-No.**
ABIMIG® GRIP A 305 LW	Type "MB GRIP"	767.D660.1	767.D661.1	767.D662.1	45°	767.D663.1
ABIMIG® GRIP A 355 LW	Type "MB GRIP"	767.D690.1	767.D691.1	767.D692.1	45°	767.D693.1
ABIMIG® GRIP A 405 LW	Type "ABIMIG® GRIP"	767.D720.1	767.D721.1	767.D722.1	45°	767.D723.1

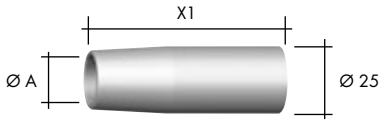
ABIMIG® GRIP A 305 LW, ABIMIG® GRIP A 355 LW, ABIMIG® GRIP A 405 LW

Wear parts

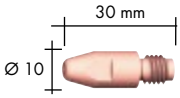
ABIMIG® GRIP A 305 LW
ABIMIG® GRIP A 355 LW

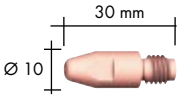


ABIMIG® GRIP A 405 LW

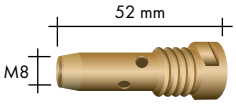


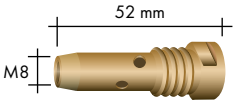
Gas nozzle (5 pcs.)	**Ø A**	**X1**		**Ø A**	**X1**	
Cylindrical	Ø 21	71 mm	145.D024	Ø 21	71 mm	145.D024
Conical	Ø 18	72 mm	145.D021[1, 2]	Ø 18	72 mm	145.D021[3]
Conical	Ø 16	69 mm	145.D022	Ø 16	69 mm	145.D022



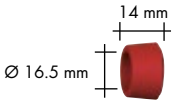


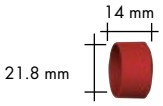
Contact tip (10 pcs.)		**M8**	**M8**
E-Cu	Ø 0.8	140.0114	–
	Ø 1.0	140.0313	140.0313
	Ø 1.2	140.0442	140.0442
	Ø 1.6	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0003	–
	Ø 1.0	141.0008	141.0008
	Ø 1.2	141.0015	141.0015
	Ø 1.6	141.0022	141.0022
CuCrZr	Ø 0.8	140.0117	–
	Ø 1.0	140.0316	140.0316
	Ø 1.2	140.0445[1, 2]	140.0445[3]
	Ø 1.6	140.0590	140.0590





Contact tip holder (5 pcs.)		
M8	014.D745.5[1, 2]	014.D745.5[3]





Adapter piece (5 pcs.)		
	767.D668.5[1, 2]	767.D729.5[3]





Liner		**305 / 355 for 3 m**	**405 for 3 m**	**305 / 355 for 4 m**	**405 for 4 m**	**305 / 355 for 5 m**	**405 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[1, 2]	124.D113	124.0031[1, 2]	124.D114	124.0035[1, 2]	124.D115[3]
	1.6	124.0041	124.D116[3]	124.0042	124.D117[3]	124.0044	124.D118
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	–

Note: Combined wire guides for ABIMIG® A / A T 405 LW on page 35.

[1] Included in the standard equipment for complete torches ABIMIG® GRIP A 305 LW.
[2] Included in the standard equipment for complete torches ABIMIG® GRIP A 355 LW.
[3] Included in the standard equipment for complete torches ABIMIG® GRIP A 405 LW.

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



■ **NEW!**
Super lightweight torches with turnable and changeable torch neck

ABIMIG® A T 155 LW

Technical data (EN 60 974-7):

Rating:	190 A CO_2
	180 A Mixed Gases
	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):

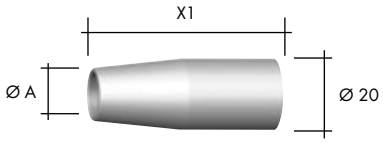
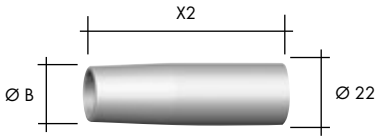
Rating:	240 A CO_2
	220 A Mixed Gases
	M21 (DIN EN ISO 14175)
Duty cycle:	60 %
Wire size:	0.8–1.2 mm

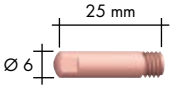
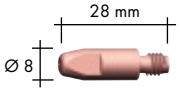
Torch complete		Part-No.			Swan neck	
Type	Handle	3 m	4 m	5 m	Type	Part-No.
ABIMIG® A T 155 LW	Push-button short	006.D821.1	006.D822.1	006.D823.1	45°	006.D804.1
ABIMIG® A T 155 LW	Push-button long	006.D810.1	006.D811.1	006.D812.1	45°	006.D804.1
ABIMIG® A T 255 LW	Push-button short	004.D880.1	004.D881.1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

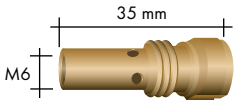
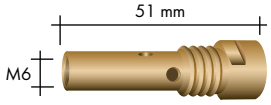
Definition: T = turnable/exchangeable torch neck, LW = lightweight cable assembly
Attention: The specified variants correspond to the “BASIC” version. Further versions (COMBI, VARIO, FREE STYLE) on request.

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[1]	Ø 16	70 mm	145.D011[2]
Conical	Ø 12	54 mm	145.D004	Ø 14	67 mm	145.D012

			
Contact tip (10 pcs.)		**M6**	**M6**
E-Cu	Ø 0.8	140.0059[1]	140.0051
	Ø 1.0	140.0253	140.0242[2]
	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[1]	004.D624.5[2]

		
Adapter piece (5 pcs.)		
	767.D607.5[1]	767.D637.5[2]

		
Torch neck liner for T-torches		
Standard	Ø 0.8	122.D037[1]	122.D037
	Ø 1.0	122.D038	122.D038[2]
	Ø 1.2	–	122.D038[2]
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[1]	124.0012[1]	124.0015[1]
	Ø 1.0	124.0026[2]	124.0031[2]	124.0035[2]
	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 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

[1] Included in the standard equipment for complete torches ABIMIG® A T 155 LW.
[2] 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



■ **NEW!**
Super lightweight torches with turnable and changeable torch neck

ABIMIG® A T 305 LW

Technical data (EN 60 974-7):

Rating:	290 A CO_2
	260 A Mixed Gases
	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_2
	320 A Mixed Gases
	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):

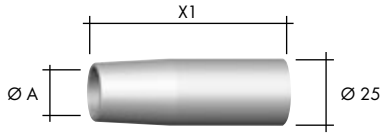
Rating:	400 A CO_2
	370 A Mixed Gases
	M21 (DIN EN ISO 14175)
Duty cycle:	60 %
Wire size:	1.0–1.6 mm
	(up to 2.4 mm on demand)

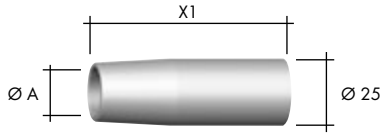
Torch complete		Part-No.			Swan neck	
Type	**Handle**	**3 m**	**4 m**	**5 m**	**Type**	**Part-No.**
ABIMIG® A T 305 LW	Push-button short	018.D953.1	018.D954.1	018.D955.1	45°	014.H356.1
ABIMIG® A T 305 LW	Push-button long	018.D960.1	018.D961.1	018.D962.1	45°	014.H356.1
ABIMIG® A T 355 LW	Push-button short	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.

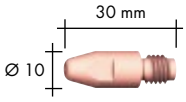
ABIMIG® A T 305 LW, ABIMIG® A T 355 LW, ABIMIG® A T 405 LW

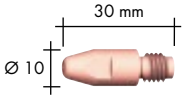
Wear parts



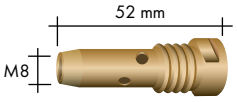


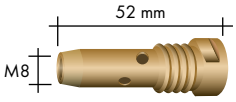
Gas nozzle (5 pcs.)	ABIMIG® A T 305 / 355 LW			ABIMIG® A T 405 LW		
	Ø A	**X1**		**Ø A**	**X1**	
Cylindrical	Ø 21	71 mm	145.D024	Ø 21	71 mm	145.D024
Conical	Ø 18	72 mm	145.D021[1, 2]	Ø 18	72 mm	145.D021[3]
Conical	Ø 16	69 mm	145.D022	Ø 16	69 mm	145.D022





Contact tip (10 pcs.)		**M8**	**M8**
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[1, 2]	140.0445
	Ø 1.6	140.0590	140.0590[3]





Contact tip holder (5 pcs.)		
M8	014.D745.5[1, 2]	014.D745.5[3]





Adapter piece (5 pcs.)		
	767.D668.5[1, 2]	015.D080.5[3]



Torch neck liner for T-torches			
Standard	Ø 0.8	122.D037	–
	Ø 1.0–1.2	122.D038[1, 2]	122.D077
	Ø 1.6	122.D045	122.D078[3]
Brass for Al	Ø 1.0	122.D040	122.D040
	Ø 1.0–1.2	122.D041	122.D041





Liner		**305 / 355 for 3 m**	**405 for 3 m**	**305 / 355 for 4 m**	**405 for 4 m**	**305 / 355 for 5 m**	**405 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[1, 2]	124.D113	124.0031[1, 2]	124.D114	124.0035[1, 2]	124.D115
	1.6	124.0041	124.D116[3]	124.0042	124.D117[3]	124.0044	124.D118[3]
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	–

Note: Combined wire guides for ABIMIG® A / A T 405 LW on page 35.

[1] Included in the standard equipment for complete torches ABIMIG® A T 305 LW.
[2] Included in the standard equipment for complete torches ABIMIG® A T 355 LW.
[3] Included in the standard equipment for complete torches ABIMIG® A T 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



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.

ABIMIG® W T 340

Technical data (EN 60 974-7):

Rating:	400 A CO_2
	350 A Mixed Gases
	350 A Pulse
	M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	0.8 – 1.2 mm

ABIMIG® W T 440

Technical data (EN 60 974-7):

Rating:	500 A CO_2
	450 A Mixed Gases
	350 A Pulse
	M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	0.8 – 1.6 mm

ABIMIG® W T 540

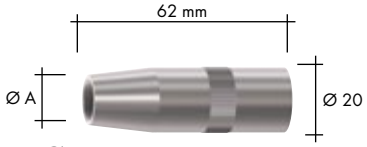
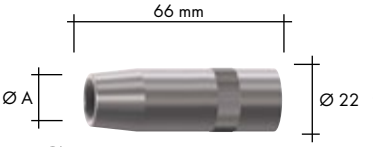
Technical data (EN 60 974-7):

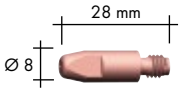
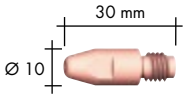
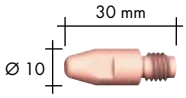
Rating:	600 A CO_2
	550 A Mixed Gases
	400 A Pulse
	M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	1.0 – 1.6 mm

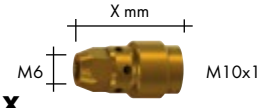
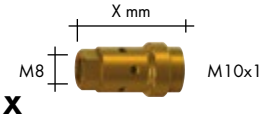
Torch complete		Part-No.			Swan neck	
Type	Handle	3 m	4 m	5 m	Type	Part-No.
ABIMIG® W T 340	Type “ABIMIG® T short trigger”	788.0041.1	788.0042.1	788.0043.1	50°	788.0020.1
ABIMIG® W T 340	Type “ABIMIG® T long trigger”	788.0116.1	788.0117.1	788.0118.1	50°	788.0020.1
ABIMIG® W T 440	Type “ABIMIG® T short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

	ABIMIG® W T 340		ABIMIG® W T 440		ABIMIG® W T 540	
						
Gas nozzle incl. spatter protection[1] (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[2]	Ø 14.5	145.D092.5[3]	Ø 16	145.0735.5[4]
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[2]	140.0316	140.0316
	Ø 1.2	140.0382	140.0445[3]	140.0445[4]
	Ø 1.6	–	140.0590	140.0590

				
Contact tip holder (5 pcs.)		**X**	**X**	**X**
Brass		24.0	142.0241.5	26.0	142.0252.5	25.0	142.0239.5
		26.0	142.0242.5[2]	28.0	142.0253.5[3]	27.0	142.0240.5[4]
		–	–	31.0	142.0243.5	–	–
CuCrZr		–	–	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[2]	123.D097[3]	123.D097[4]
	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[2]	124.0112[2]	124.0113[2]
	Ø 1.2	124.0111[3, 4]	124.0112[3, 4]	124.0113[3, 4]
	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

[1] The integrated spatter protection is already contained in the above-mentioned gas nozzles and can be ordered separately on request.
[2] Included in the standard equipment for complete torches ABIMIG® W T 340.
[3] Included in the standard equipment for complete torches ABIMIG® W T 340.
[4] Included in the standard equipment for complete torches ABIMIG® W T 340.

MIG/MAG Welding Torches “ABIMIG® GRIP W”

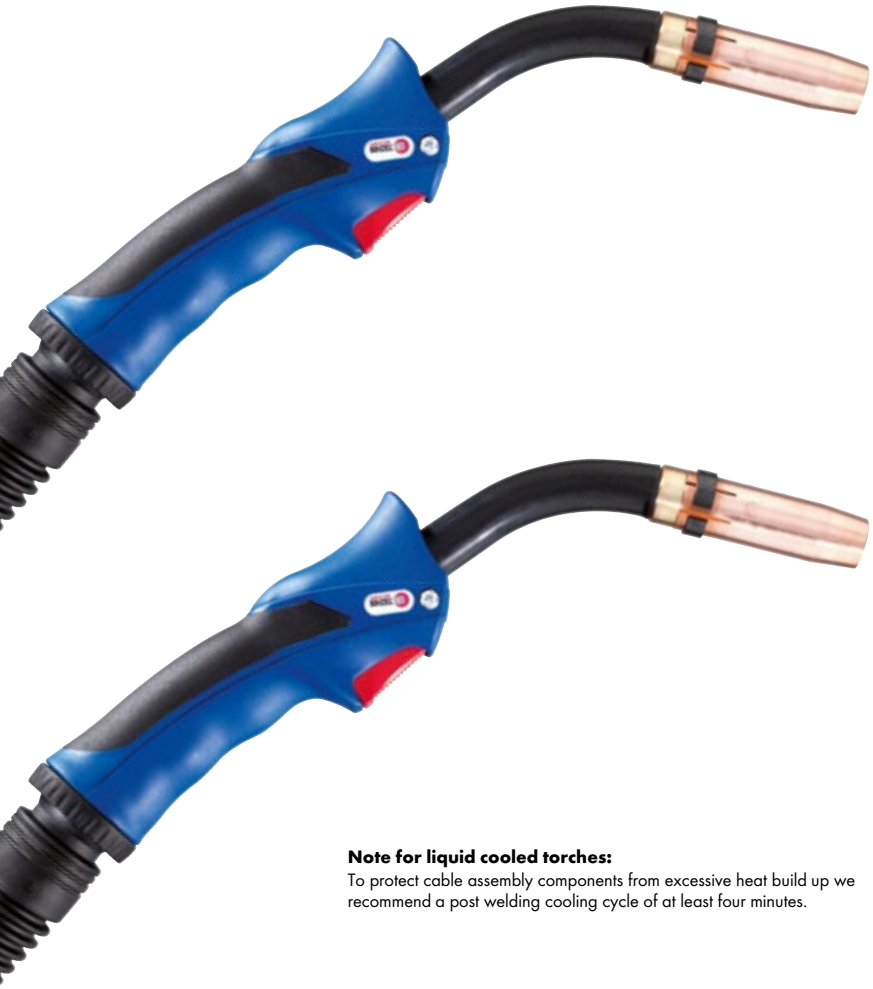
Liquid cooled • rating 400 A up to 575 A

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 fuctions) 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



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.

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

Technical data (EN 60 974-7):

Rating:	550 A CO_2
	500 A Mixed Gases
	400 A Pulse
	M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	0.8 – 1.6 mm

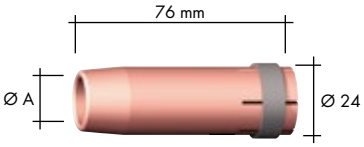
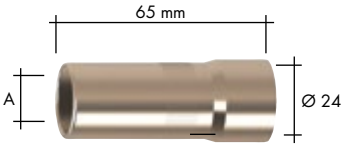
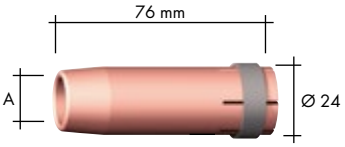
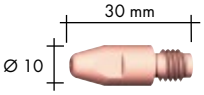
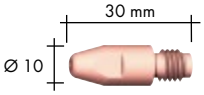
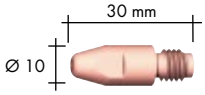
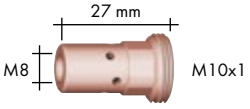
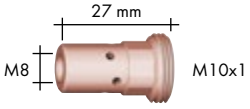
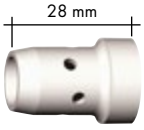
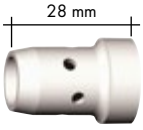
ABIMIG® GRIP W 555

Technical data (EN 60 974-7):

Rating:	575 A CO_2
	525 A Mixed Gases
	400 A Pulse
	M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	0.8 – 1.6 mm

Torch complete		Part-No.			Swan neck	
Type	Handle	3 m	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		**ABIMIG® GRIP W 555 D** (10 pcs.)		**ABIMIG® GRIP W 555 D TS** (5 pcs.)		**ABIMIG® GRIP W 555** (10 pcs.)	
							
Gas nozzle		**Ø A**		**Ø A**		**Ø A**	
Cylindrical		Ø 20	145.0051	Ø 20	145.0709.5	Ø 20	145.0051
Conical		Ø 16	145.0085[1]	Ø 16	145.0708.5[2]	Ø 16	145.0085[3]
Conical		Ø 14	145.0132	Ø 14	–	Ø 14	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[1]		140.0445[2]		140.0445[3]	
	Ø 1.6	140.0590		140.0590		140.0590	
							
Contact tip holder (10 pcs.)							
M8		142.0201.10[1]		142.0201.10[2]		–	
							
Gas diffuser (10 pcs.)							
Standard		030.0145[1]		030.0145[2]		030.0145[3]	
Long life		030.0037		030.0037		030.0037	
Ceramic		030.0190		030.0190		030.0190	





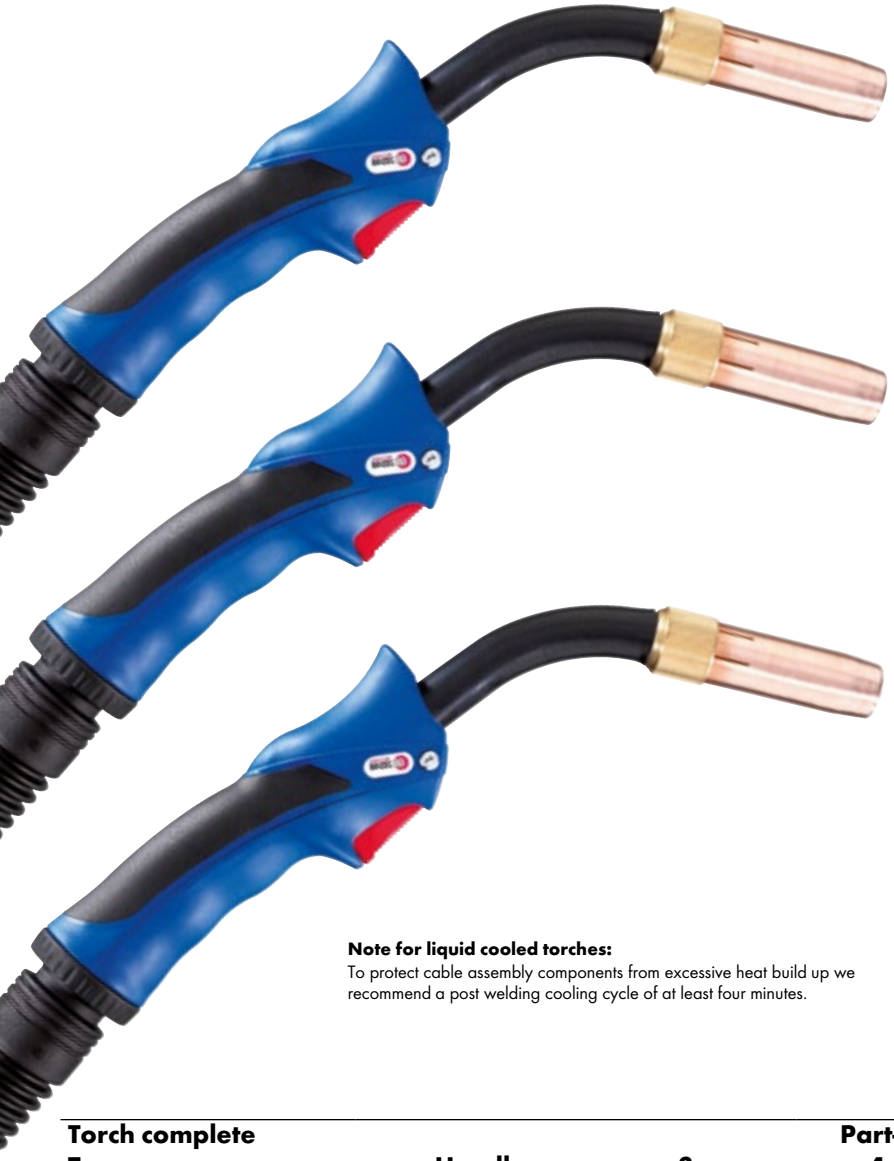
Liner		**for 3 m**	**for 4 m**	**for 5 m**
Liner	Ø 0.8	124.0137	124.0138	124.0139
	Ø 1.0	124.0111	124.0112	124.0113
	Ø 1.2	124.0111[1, 2, 3]	124.0112[1, 2, 3]	124.0113[1, 2, 3]
	Ø 1.6	124.0114	124.0115	124.0116
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	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

[1] Included in the standard equipment for complete torches ABIMIG® GRIP W 555 D.
[2] Included in the standard equipment for complete torches ABIMIG® GRIP W 555 D TS.
[3] Included in the standard equipment for complete torches ABIMIG® GRIP W 555.

MIG/MAG Welding Torches “ABIMIG® GRIP W”

Liquid cooled • rating 450 A up to 625 A

- Dual-circuit cooling system with increased cooling liquid flow and new heat dissipation for optimal 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 optimal balance – even for welding tasks when access is difficult
- Specially designed spare and wear parts for the high-performance application range – excellent results especially in pulse arc welding
- Gas nozzle with innovative “plug-screw connection” – optimal fixing and heat dissipation
- Swan neck can be delivered in three versions – with soldered or changeable tip holder M10 as well as with collet body version for push-fit “click” contact tip



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.

ABIMIG® GRIP W 605

Technical data (EN 60 974-7):

Rating:	625 A CO_2
	575 A Mixed Gases
	450 A Pulse
	M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	1.0 – 1.6 mm

ABIMIG® GRIP W 605 D

Technical data (EN 60 974-7):

Rating:	600 A CO_2
	550 A Mixed Gases
	450 A Pulse
	M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	1.0 – 1.6 mm

ABIMIG® GRIP W 605 C

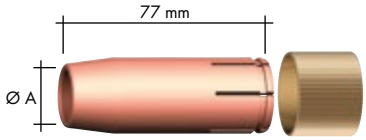
Technical data (EN 60 974-7):

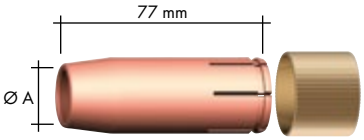
Rating:	600 A CO_2
	550 A Mixed Gases
	450 A Pulse
	M21 (DIN EN ISO 14175)
Duty cycle:	100 %
Wire size:	1.0 – 1.6 mm

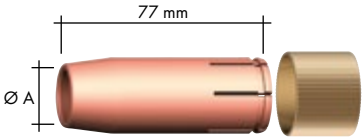
Torch complete		Part-No.			Swan neck	
Type	Handle	3 m	4 m	5 m	Type	Part-No.
ABIMIG® GRIP W 605	Type “ABIMIG® GRIP”	766.0537.1	766.0538.1	766.0539.1	50°	766.0541.1
ABIMIG® GRIP W 605 D	Type “ABIMIG® GRIP”	766.0534.1	766.0535.1	766.0536.1	50°	766.0540.1
ABIMIG® GRIP W 605 C	Type “ABIMIG® GRIP”	766.0543.1	766.0544.1	766.0545.1	50°	766.0542.1

ABIMIG® GRIP W 605, ABIMIG® GRIP W 605 D, ABIMIG® GRIP W 605 C

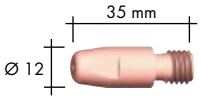
Wear parts	ABIMIG® GRIP W 605	ABIMIG® GRIP W 605 D	ABIMIG® GRIP W 605 C

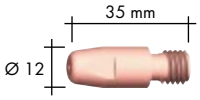


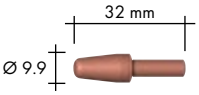




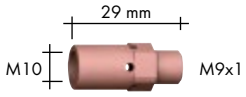
Gas nozzle (10 pcs.)	**Ø A**		**Ø A**		**Ø A**	
Cylindrical	Ø 20	145.0678.10	Ø 20	145.0678.10	Ø 20	145.0678.10
Conical	Ø 17	145.0669[1]	Ø 17	145.0669[2]	Ø 17	145.0669[3]
Gas nozzle adapter		766.1070[1]		766.1070[2]		766.1070[3]

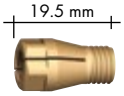




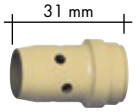


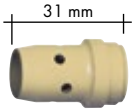
Contact tip (10 pcs.)		**M10**	**M10**	
E-Cu	Ø 1.0	140.1542.10	140.1542.10	–
	Ø 1.2	140.1543.10	140.1543.10	–
	Ø 1.6	140.1544.10	140.1544.10	–
CuCrZr	Ø 1.0	140.0348	140.0348	140.1318
	Ø 1.2	140.0481[1]	140.0481[2]	140.1319[3]
	Ø 1.6	140.0616	140.0616	140.1321

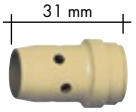




Contact tip holder / Collet body (10 pcs.)		
Contact tip holder M10	–	142.0202.10[2]	–
Collet body	–	–	766.1051[3]







Gas diffuser (10 pcs.)				
Long Life (Standard)		766.0518[1]	766.0518[2]	766.0518[3]





Liner		**for 3 m**	**for 4 m**	**for 5 m**
Liner	Ø 1.0	124.0111	124.0112	124.0113
	Ø 1.2	124.0111[1, 2, 3]	124.0112[1, 2, 3]	124.0113[1, 2, 3]
	Ø 1.6	124.0114	124.0115	124.0116
PTFE liner	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 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

[1] Included in the standard equipment for complete torches ABIMIG® GRIP W 605.
[2] Included in the standard equipment for complete torches ABIMIG® GRIP W 605 D.
[3] Included in the standard equipment for complete torches ABIMIG® GRIP W 605 C.

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 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.



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.

- 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**
		CO_2	**Mixed Gases M21**	(%)	(mm)
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

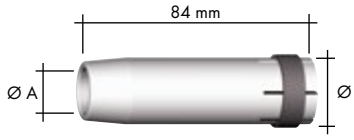
Torch complete (40 V motor) **Type**	**Part-No.** **8 m without Poti**	**Part-No.** **8 m with Poti**	**Part-No.** **Swan neck**
Push-Pull *Plus* 36 D; straight; GZ-2	085.0104.1	085.0106.1	085.0116.1
Push-Pull *Plus* 36 D; 45° bend; GZ-2	085.0105.1	085.0107.1	085.0117.1
Push-Pull *Plus* 240 D; straight; 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

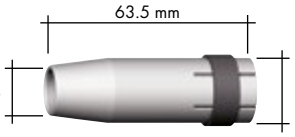
Push-Pull *Plus* 36, Push-Pull *Plus* 240, Push-Pull *Plus* 401

Wear parts

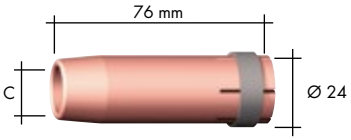
Push-Pull *Plus* 36 D



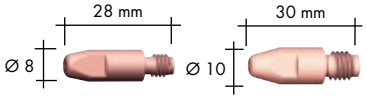
Push-Pull *Plus* 240 D

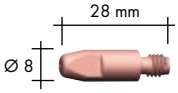


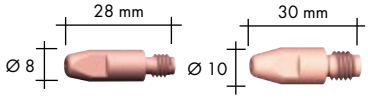
Push-Pull *Plus* 401 D



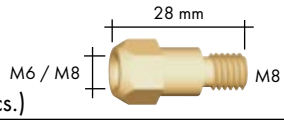
Gas nozzle (10 pcs.)	**Ø A**		**Ø B**		**Ø C**	
Cylindrical	Ø 19	145.0045	Ø 17	145.0047	Ø 20	145.0051
Conical	Ø 16	145.0078[1]	Ø 12.5	145.0080[2]	Ø 16	145.0085[3]
Conical	Ø 12	145.0126	Ø 10	145.0128	Ø 14	145.0132

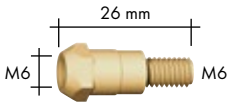


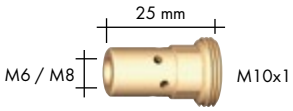




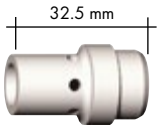
Contact tip (10 pcs.)		**M6**	**M8**	**M6**	**M6**	**M8**
E-Cu	Ø 0.8	140.0051	140.0114	140.0051	140.0051	140.0114
	Ø 1.0	140.0242	140.0313	140.0242	140.0242	140.0313
	Ø 1.2	140.0379	140.0442[1]	140.0379[2]	140.0379	140.0442[3]
E-Cu for Al	Ø 0.8	141.0001	141.0003	141.0001	141.0001	141.0003
	Ø 1.0	141.0006	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[2]	142.0008
M8	142.0020[1]	–	142.0022[3]







Gas diffuser (10 pcs.)			
Standard	014.0261[1]	012.0183[2]	030.0145[3]
Long life	014.0026	–	030.0037
Ceramic	014.0023	–	030.0190

Liner			
Neck liner[4] 0.8–1.0 mm	149.0260.3	149.0264.3	149.0264.3
Neck liner[4] 1.2 mm	149.0261.3[1]	149.0265.3[2]	149.0265.3[3]
Neck liner[5] 0.8–1.0 mm	149.0262.3	149.0266.3	149.0266.3
Neck liner[5] 1.2 mm	149.0263.3[1]	149.0267.3[2]	149.0267.3[3]
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 liner1.0–1.2 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[1]	128.0019[2]	128.0019[3]

[1] Included in the standard equipment for complete torches Push-Pull Plus 36 D.
[2] Included in the standard equipment for complete torches Push-Pull Plus 240 D.
[3] Included in the standard equipment for complete torches Push-Pull Plus 401 D.
[4] For straight torch necks (0°).
[5] For bended torch necks (45°).

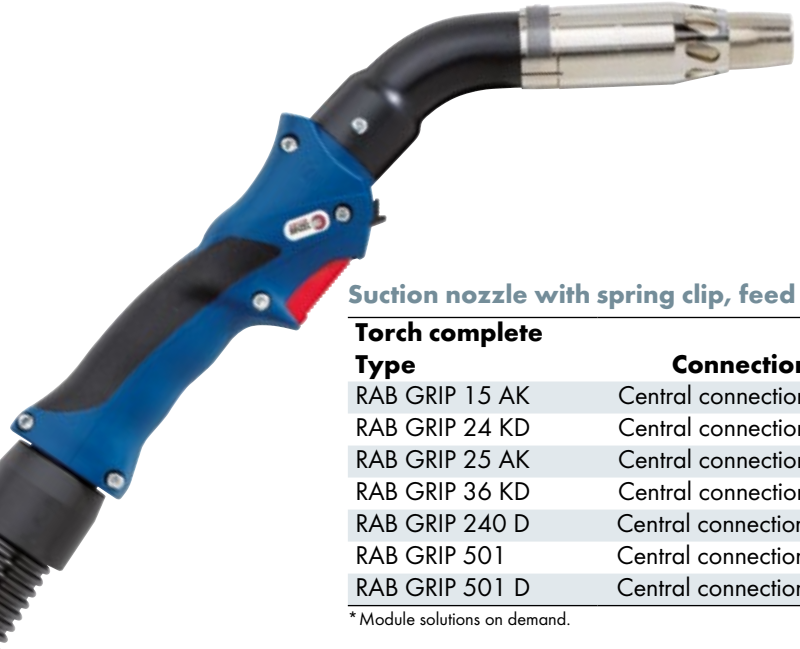
MIG/MAG Fume Extraction Torches “RAB GRIP”
Air and liquid cooled

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

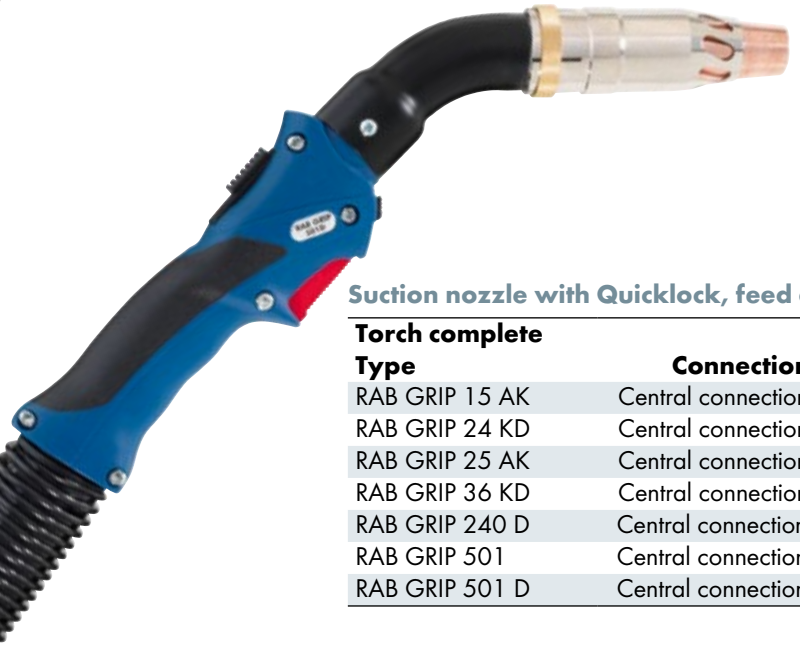
- Handle with extraction control and swivel joint – optimized handling
- Smaller diameter extraction hoses for all types – lower handling weight, optimum flexibility
- Considerable weight reduction of air cooled torches due to the innovative ABICOR BINZEL Low-Weight Bikox®



Suction nozzle with spring clip, feed air slide below*

Torch complete		Part-No.		
Type	Connection	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		Part-No.		
Type	Connection	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

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 CO_2	Rating Mixed Gases M21	Duty cycle (%)	Wire size (mm)
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

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



1

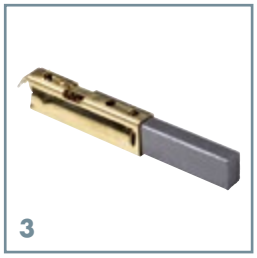


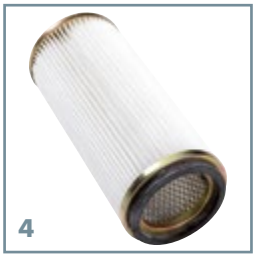
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Extraction unit package includes:

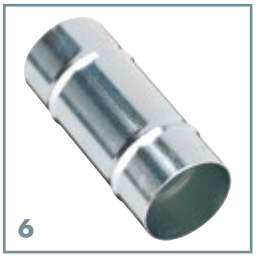
- Extraction hose with sleeve
- Start/Stop shunt
- 10 dust collection bags
- Filter cartridge

Replacement parts and accessories


3

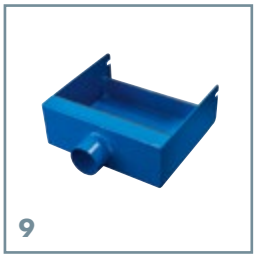

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11

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
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, 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

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.



MIG/MAG Machine Welding Torches

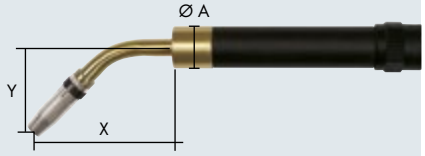
Fixed swan neck

Type	Duty cycle	Rating CO_2 / M21	X (mm)	Y (mm)	Part-No.
AUT 24 KD; 0°	60%	250 A / 220 A	154		912.0001
AUT 24 KD; 45°	60%	250 A / 220 A	125	80	912.0002
AUT 25 KD; 0°	60%	230 A / 200 A	140		904.0003
AUT 25 KD; 45°	60%	230 A / 200 A	110	75	904.0004
AUT 36 KD; 0°	60%	320 A / 290 A	185		914.0002
AUT 36 KD; 45°	60%	320 A / 290 A	145	95	914.0001
AUT 240 D; 0°	100%	300 A / 270 A	154		923.0001
AUT 240 D; 45°	100%	300 A / 270 A	126	73	923.0002
AUT 501; 0°	100%	550 A / 500 A	167		932.0001
AUT 501; 45°	100%	550 A / 500 A	135	82	932.0002
AUT 501 D; 0°	100%	500 A / 450 A	167		934.0001
AUT 501 D; 45°	100%	500 A / 450 A	135	82	934.0002
ABIMIG® MT W 555; 0°	100%	575 A / 525 A	175		766.0878.1
ABIMIG® MT W 555; 22°	100%	575 A / 525 A	168	38	766.0879.1
ABIMIG® MT W 555; 45°	100%	575 A / 525 A	144	84	766.0880.1
ABIMIG® MT W 555 D; 0°	100%	550 A / 500 A	175		766.0865.1
ABIMIG® MT W 555 D; 22°	100%	550 A / 500 A	168	38	766.0866.1
ABIMIG® MT W 555 D; 45°	100%	550 A / 500 A	144	84	766.0867.1
ABIMIG® MT W 555 D TS; 0°	100%	550 A / 500 A	175		766.0917.1
ABIMIG® MT W 555 D TS; 22°	100%	550 A / 500 A	169	33	766.0918.1
ABIMIG® MT W 555 D TS; 45°	100%	550 A / 500 A	148	74	766.0919.1
ABIMIG® MT W 605; 0°	100%	625 A / 575 A	184		766.0883.1
ABIMIG® MT W 605; 22°	100%	625 A / 575 A	176	41	766.0884.1
ABIMIG® MT W 605; 45°	100%	625 A / 575 A	150	90	766.0885.1
ABIMIG® MT W 605 D; 0°	100%	600 A / 550 A	183,5		766.0871.1
ABIMIG® MT W 605 D; 22°	100%	600 A / 550 A	176	41	766.0872.1
ABIMIG® MT W 605 D; 45°	100%	600 A / 550 A	150	90	766.0873.1
ABIMIG® MT W 645; 0°	100%	650 A / 600 A	182		766.0459
ABIMIG® MT W 645; 45°	100%	650 A / 600 A	149	89	766.0460

Changeable swan neck

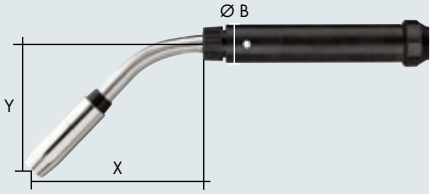
Type	Duty cycle	Rating CO_2 / M21	X (mm)	Y (mm)	Part-No.
ABIMIG® MT 255 T8M; 0°	60%	250 A / 220 A	195		012.D122
ABIMIG® MT 255 T8M; 45°	60%	250 A / 220 A	140	85	004.D785
ABIMIG® MT 355 T8M; 0°	60%	360 A / 320 A	224		014.D812
ABIMIG® MT 355 T8M; 45°	60%	360 A / 320 A	185	95	014.D808
ABIMIG® MT 455 T8M; 0°	60%	450 A / 400 A	230		016.D250
ABIMIG® MT 455 T8M; 45°	60%	450 A / 400 A	190	100	016.D225

Fixed swan neck

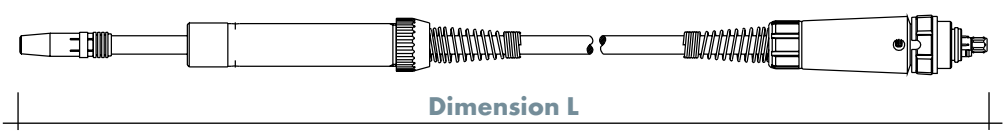


Ø A air cooled torches: 38 mm
liquid cooled torches: 38 mm

Changeable swan neck



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



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 / 645 on request).

Bikox®, Control cables, Hoses and Liners

I. Cable assemblies air cooled

Type	Bikox®	Cable assembly length			
		3 m	4 m	5 m	8 m
MB GRIP 15 AK	R4 / Type 16	160.D520	160.D521	160.D522	–
MB GRIP 24 KD / 26 KD	R6 / Type 35	160.D430	160.D431	160.D432	–
MB GRIP 25 AK	R5 / Type 25	160.D427	160.D428	160.D429	–
MB GRIP 36 KD	R7 / Type 50	160.D434	160.D435	160.D436	–
ABIMIG® GRIP A 155 LW / ABIMIG® A T 155 LW / RAB GRIP 15	R4 / LW	160.H025.1	160.H026.1	160.H027.1	–
ABIMIG® GRIP A 255 LW / ABIMIG® A T 255 LW / RAB GRIP 25	R5 / LW	160.H032.1	160.H033.1	160.H034.1	–
ABIMIG® GRIP A 305 LW / ABIMIG® A T 305 LW / RAB GRIP 24	R6 / LW	160.H039.1	160.H040.1	160.H041.1	–
ABIMIG® GRIP A 355 LW / ABIMIG® A T 355 LW / RAB GRIP 36	R7 / LW	160.H046.1	160.H047.1	160.H048.1	–
ABIMIG® A T 405 LW	R9 / LW	160.H344.1	160.H345.1	160.H346.1	–
ABIMIG® GRIP A 405 LW	R9 / LW	160.H053.1	160.H054.1	160.H055.1	–
PP 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 GRIP 240 / 401 / 501	Power cable FRH	115.0065	115.0070	115.0074	–	–
ABIMIG® GRIP W 555 / 605	Power cable PVC	115.0581	115.0582	115.0583	–	–
RAB GRIP 240 / 501	Power cable PVC	115.0581	115.0582	115.0583	–	–
PP Plus 240 / 401	Power cable PVC	–	–	–	115.0043	–
ABIMIG® W T 340 / 440 / 540	Power cable PVC	115.0581	115.0582	115.0583	–	–
MB GRIP 240 / 401 / 501	Wire conduit	156.0275	156.0276	156.0277	–	–
ABIMIG® GRIP W 555 / 605	Wire conduit	156.0275	156.0276	156.0277	–	–
RAB GRIP 240 / 501	Wire conduit	154.0002	154.0003	154.0004	–	–
PP Plus 240 / 401	Wire conduit	–	–	–	156.0273	–
ABIMIG® W T 340 / 440 / 540	Wire conduit	109.0094.1	109.0095.1	109.0096.1	–	–
MB GRIP 240 / 401 / 501	Water hose black FRH	–	–	–	–	109.0052
ABIMIG® GRIP W 555 / 605	Water hose blue PVC	–	–	–	–	109.0057
ABIMIG® GRIP W 555 / 605	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
PP Plus 240 / 401	Water hose blue PVC	–	–	–	–	109.0057
PP Plus 240 / 401	Water hose red PVC	–	–	–	–	109.0056
ABIMIG® W T 340 / 440 / 540	Water hose blue PVC	–	–	–	–	109.0057
MB GRIP 240 / 401 / 501	Gas hose	–	–	–	–	109.0040
ABIMIG® GRIP W 555 / 605	Gas hose	–	–	–	–	109.0040
RAB GRIP 240 / 501	Gas hose	–	–	–	–	109.0040
PP Plus 240 / 401	Gas hose	–	–	–	–	109.0040
All torches	Control cable 2-pole	–	–	–	–	100.0019

Bikox®, Control cables, Hoses and Liners

III. Outer and Suction Hose

Type	Description	Cable assembly length			
		3 m	4 m	5 m	per m
MB GRIP 240 / 401 / 501	Outer hose 25x1.5	–	–	–	107.0004
ABIMIG® GRIP W 555 / 605	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
PP Plus 36 / 240 / 401	Outer hose 25x1.5	–	–	–	107.0004
ABIMIG® W T 340 / 440 / 540	Outer hose 25x1.5 (with bend protection)	107.0079	107.0044	107.0080	–

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 NW 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. 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

VII. Handles / Handle tubes

Type	Description	Part-No.
MB GRIP 15 / 24 / 25 / 26 / 36	Handle Type MB GRIP	180.0127
Ball joint cable protection MB GRIP	air cooled	400.1395.1
MB GRIP 240 / 401 / 501	Handle Type MB GRIP	180.0127
Ball joint cable protection MB GRIP	liquid cooled	400.1392.1
Inner ring MB GRIP	for ball joint cable protection (400.1392.1), liquid cooled	400.0790
ABIMIG® GRIP A LW 155 / 255 / 305 / 355	Handle Type MB GRIP	180.0127
Ball joint cable protection short ABIMIG® GRIP A LW	air cooled	400.1323.1
ABIMIG® GRIP A 405 LW	Handle Type ABIMIG® GRIP S	180.0132.1
Ball joint cable protection short ABIMIG® GRIP A LW	air cooled	400.1323.1
ABIMIG® GRIP W 555 / 605	Handle Type ABIMIG® GRIP S	180.0132.1
Ball joint cable protection ABIMIG® GRIP W	liquid cooled	400.1392.1
Inner ring ABIMIG® GRIP W	for ball joint cable protection (400.1392.1), liquid cooled	400.0790
AUT 24 / 25 / 26 / 36 / 240 / 401 / 501	Handle tube AUT	180.0097
ABIMIG® W MT 555 / 605 / 645	Handle tube MT	180.0114

VIII. Handle Type SH and control modules / Handle Type TO and control modules

Type	Description	Details	Part-No.
All ABIMIG® GRIP Torches	Handle Type ABIMIG® GRIP SH, without control module		180.0133.1
All ABIMIG® GRIP Torches	Control module with potentiometer left 10 kΩ	BIS-01L	400.0956
	Control module with potentiometer right 10 kΩ	BIS-01R	400.0957
	Control module with potentiometer left 10 kΩ LED for Migatronic	BIS-02	400.0958
	Control module with push-button and 4 LED	BIS-06	400.0959
	Control module Up/Down 7-segment switch crosswise	BIS-07B	400.0961
	Control module Up/Down switch lengthwise	BIS-10A	400.0963
	Control module Up/Down switch crosswise	BIS-10B	400.0964
	Control module Up/Down switch crosswise for Fronius	BIS-10D	400.1085
	Control module Up/Down 2x switch lengthwise for EWM	BIS-13A	400.0966
	Control module Up/Down 2x push-button for Cloos	BIS-18	400.1545.1
	Control module push-button 3-step	BIS-19	400.1088
All ABIMIG® GRIP Torches	Handle Type ABIMIG® GRIP TO (top trigger)		180.0134.1

IX. Adapter

Type	Description	Part-No.
For all torch types MB ERGO / MB GRIP / ABIMIG® GRIP 155–355	For use of handle type ABIMIG® GRIP / ABIMIG® GRIP SH / ABIMIG® GRIP TO	400.1341.1

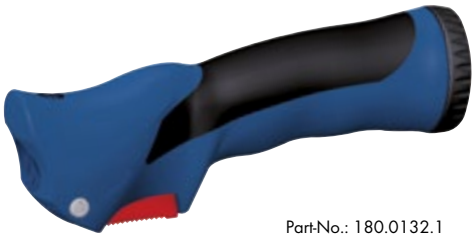
Handles and control modules

Handle Type "MB GRIP"



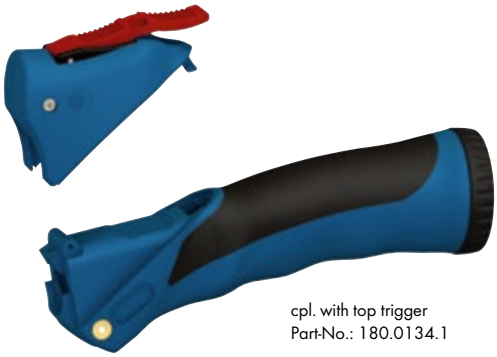
Part-No.: 180.0127

Handle Type " ABIMIG® GRIP S"



Part-No.: 180.0132.1

Handle Type "ABIMIG® GRIP TO"



cpl. with top trigger
Part-No.: 180.0134.1

Adapter



for all torch types MB ERGO / MB GRIP / ABIMIG® GRIP 155–355
for using the handles Type ABIMIG® GRIP / ABIMIG® GRIP SH / ABIMIG® GRIP TO
Part-No.: 400.1341.1

Handle Type "ABIMIG® GRIP SH"



BIS-01L
Control module with potentiometer
left 10 kΩ



BIS-01R
Control module with potentiometer
right 10 kΩ



BIS-02
Control module with potentiometer
left 10 kΩ LED for Migatronic



BIS-06
Control module with push-button and 4 LED



BIS-07B
Control module Up/Down 7-segment
switch crosswise



BIS-10A
Control module Up/Down switch lengthwise



BIS-10B
Control module Up/Down switch crosswise



BIS-10D
Control module Up/Down switch crosswise
for Fronius



BIS-13A
Control module Up/Down 2x switch
lengthwise for EWM



BIS-18
Control module Up/Down 2x push-button
for Cloos



BIS-19
Control module push-button 3-step



incl. add-on for control modules

Part-No.: 180.0133.1

Please note: All trademarks mentioned in this catalogue are property of the respective companies.

Handles and Modules

X. Handle ABIMIG® T without Modules



Push-button long, blind cover



Push-button short, blind cover

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

XI. Handle ABIMIG® T with Module



Push-button long, Up/Down



Push-button short, Up/Down

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

Handles and Modules

XII. Handles RAB GRIP without Modules



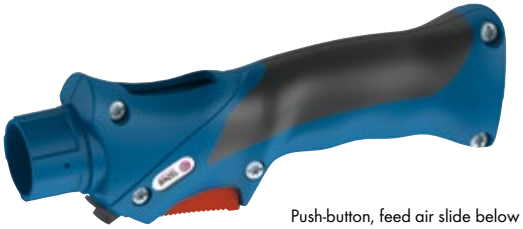
Push-button, feed air slide below



Push-button, feed air slide on top

Type	Description	Part-No.
RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	Handle feed air slide below	180.0138.1
RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	Handle feed air slide on top	180.0144.1
Connector RAB GRIP 15 / 24 / 25 / 36	air cooled	600.2008
Connector RAB GRIP 240 / 501	liquid cooled	600.0080

XIII. 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.
RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	Handle feed air slide below (without module)	180.0154.1
Connector RAB GRIP 15 / 24 / 25 / 36	air cooled	600.2008
Connector RAB GRIP 240 / 501	liquid cooled	600.0080
Module push-button	BIS-51	400.1296.1
Module Up/Down 2x push-button	BIS-52	400.1292.1

Please note: All trademarks mentioned in this catalogue are property of the respective companies.

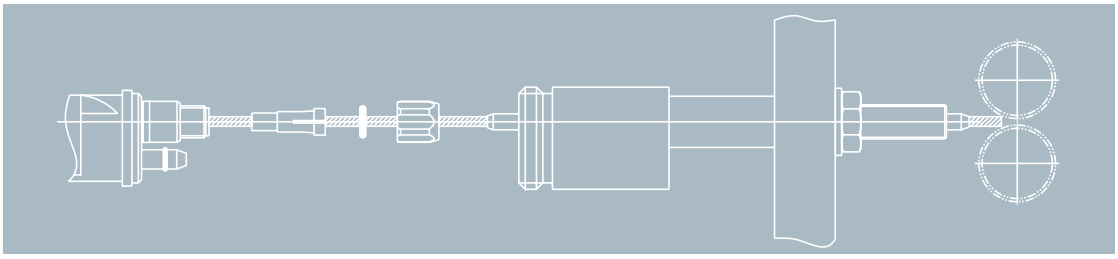
Central adaptor and central connector system

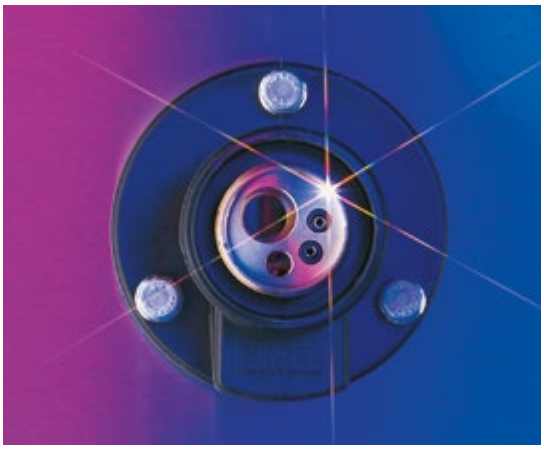
The universal connection ...

The original ABICOR BINZEL central adaptor and central connector, for air and liquid cooled MIG/MAG machines, have been the industry standard for more than 40 years.

All machine types are different in construction and all wire feeding systems have their own dimensions. However, there is a common denominator the central adaptor system from ABICOR BINZEL.







We offer more than 500 different central adaptor types. Please indicate manufacturer and type of your wire feeder or your compact power source and we will supply you with the appropriate adaptor. However, if an adaptation problem should occur, please contact us – we will take care of it.

Central adaptor and central connector system

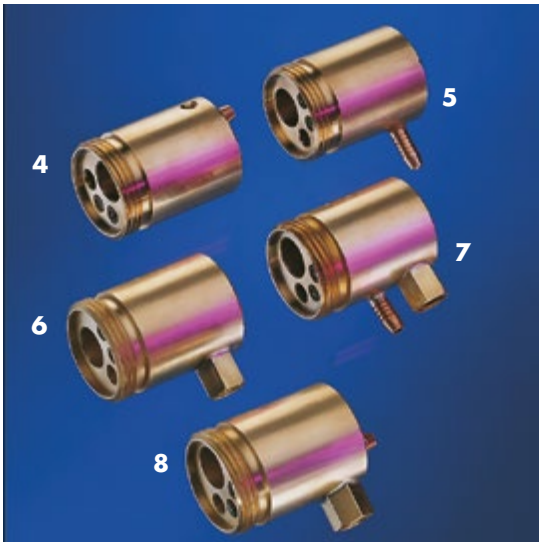
Insulation flanges

Description	Pos.	Details	Part-No.
Insulation flange	not ill.	Ø 120 mm	501.0602
Insulation flange	1	▵ 85 mm	501.2381
Insulation flange	2	Ø 85 mm	501.0616
Insulation flange	3	Ø 50 mm	501.0588
Insulation flange	not ill.	□ 60 mm	501.2308



Brass bodies

Description	Pos.	Details	Part-No.
Brass body	4	Gas axial	501.0168
Brass body	5	Gas axial	501.0169
Brass body	6	Power / Gas radial	501.0170
Brass body	7	Power and Gas radial	501.0172
Brass body	8	Power radial / Gas axial	501.0175
Connector with control line	not ill.	600 mm (white)	501.0183
Connector with control line	not ill.	600 mm (brown)	501.2020



Adaptor plugs

Description	Pos.	Details	Part-No.
Blank Ø 16	9	100 mm	501.2191
Blank Ø 16	10	170 mm	501.2192
Blank Ø 16	11	250 mm	501.2193
Blank Ø 22	12	200 mm	501.2190

Here you can see a small selection of adaptor plug blanks for individual adaption, representing more than 500 different adaptor plugs available in the ABICOR BINZEL range.

We supply ready made adaptors on request, please specify the make and type of wire feeding device and/or compact machine in your order.





Description	Part-No.
Power lug	501.0280

Central adaptor and central connector system



Capillary tubes

Description	Details	Part-No.
Capillary tubes for wire up to Ø 1.0 mm	200 mm	129.0164
	300 mm	129.0187
	500 mm	129.0189
	1000 mm	129.0107
Capillary tubes for wire up to Ø 1.6 mm	200 mm	129.0313
	300 mm	129.0357
	500 mm	129.0361
	1000 mm	129.0227
Capillary tubes for wire Ø 2.0 and 2.4 mm	200 mm	129.0395
	300 mm	129.0411
	500 mm	129.0412
	1000 mm	129.0366

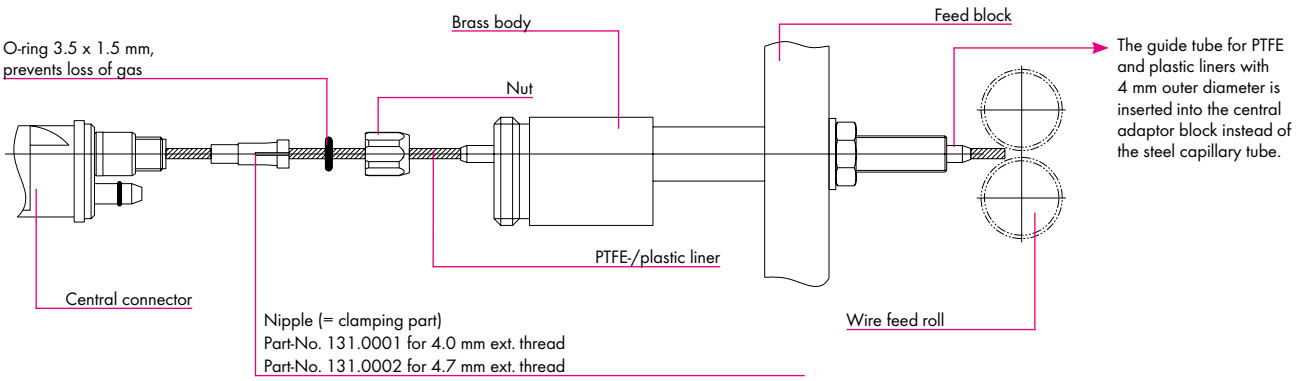
Guide tubes

Description	Details	Part-No.
Guide tubes for liners	200 mm	129.0461
Guide tubes for liners	300 mm	129.0471
Guide tubes for liners	500 mm	129.0473
Guide tubes for liners	1000 mm	129.0426

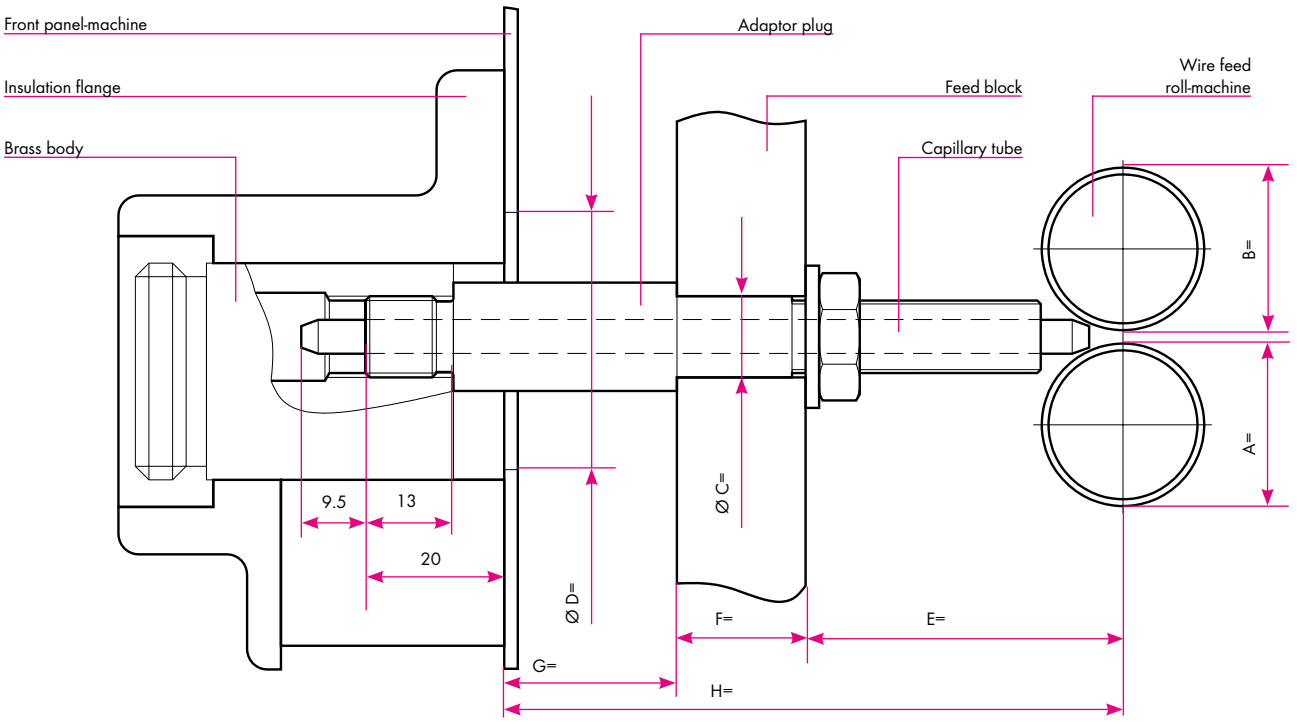
The guide tubes must be fitted as shown in the assembly instructions on page 41.

Central adaptor and central connector system

Assembly instruction for use of PTFE- and plastic liners:



Dimension sketch for central adaptors (please insert the exact dimensions and send back by fax or e-mail):



	Power source	Wire feeder
Manufacturer		
Type		
Serial No.		
Constr. year		

	Connections		Hose cable length (in mm)	Connections	
	Plug conn.	Thread		inside	outside
Gas					
Current					
Water preflow					
Current / Water					
Control lead	1 ☐	2 ☐	3 ☐		

Sender

Company:	
Street / No.:	
Post code:	
City:	

Name:	
Phone:	
Fax:	
Date:	
Signature:	

Hint:
Copy this page so you can use it several times.

Central adaptor with spring contacts
Flexible contact ...

The system works!
No matter what happens.

Whether the contact guides have become slightly damaged due to rough operating conditions or have even been deformed by improper handling – this central adaptor will ensure a safe contact even with female connectors from other manufacturers.



The new original.
The new central adaptor with flexible spring contacts.

Because when the adaptor and female connector are joined together, the contact pins on the adaptor are no longer inserted into the female connector. Instead, hemispherical contact is made with the insertion openings, whereby spring force ensures additional contact pressure.

Even in the case of misuse or the wrong female connectors nothing can happen, nothing becomes bent. Because the contact pins then retract flexibly. For longer service life and better contact!

Central adaptor with spring contacts

Type	Description	Part-No.
Central adaptor KZ-2	for MB ERGO / MB GRIP / ABIMIG® GRIP A LW 155–355 / ABIMIG® A T LW 155–355 / RAB GRIP, air cooled	501.0003
Central adaptor WZ-2	for MB ERGO / MB GRIP / ABIMIG® / Push-Pull Plus / RAB GRIP, liquid cooled	501.0015
Central adaptor GZ-2	for Push-Pull Plus, air cooled	501.0018
Adaptor with control line	100 mm (white)	501.2539.10
Adaptor with control line	100 mm (brown)	501.2538.10

The central adaptor that always produces a good connection thanks to its flexible spring contacts.



Notes

Notes

Notes

M&W

Our product range:

- **MIG/MAG**
  - Welding torches
  - Machine and special torches
  - Push-Pull welding torches
  - Fume extraction torches
  - Central adaptor system
- **TIG**
  - Welding torches
  - Machine and special torches
- **PLASMA**
  - Cutting torches
  - Welding torches
  - Machine and special torches
- **ROBOTIC SYSTEMS**
  - Robot torches MIG/TIG/Plasma
  - Electronic welding regulator
  - Laser heads
  - Seam tracking sensors
  - Robot mounts
  - Wire cutting station DAV
  - Torch cleaning station
  - Wire feeding systems
- **Welding accessories**
  - Fume extraction systems
  - Coolers
  - Welding cable plug and socket
  - Anti-spatter spray and paste
  - and so on ...



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