

# Catalogue 2017/2018

**MIG/MAG • Flux • TIG • Plasma • Electrode holders/  
Gouging torches • Accessories**





# Ladies and gentlemen!



On behalf of the ABICOR Group I welcome you warmly as existing or as well as potential users of our products and present to you herewith the new catalogue.

The years 2017/18 will have in our focus the introduction of our new MIG/MAG torch lines "MB EVO PRO" and "ABIMIG® A & W".

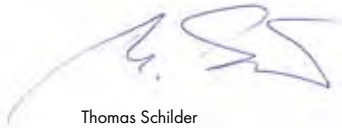
After more than 10 years of "MB Grip" there was the time to subject the MB line to a "facelift" and a technical advancement. As the result was created "MB EVO PRO", another milestone in the field of our MIG/MAG welding torches. The air-cooled industrial torches, besides a new ergonomically conceptualized handle in 2-component technology, are fitted with the super lightweight BIKOX® LW, which has already made a splash being used in the lines ABIMIG® A and ABIMIG® A T. The liquid-cooled torches were revised at the cooling side and thanks to an optimized design possess a power reserve up to 10% compared to previous designs!

ABIMIG® A and ABIMIG® W with fix swan neck continue the success story of the already proven ABIMIG® A T and ABIMIG® W T series, more robust and powerful – the tool for really severe conditions.

The latest development in the field of TIG represents our new cold wire feeder "ABIDRIVE V2" and also in the field of welding accessories you can expect some surprises, such as our new spatter protection fluid "ABIBLUE". Be curious and test our products through their paces, we are anxious to hear your opinion!

I wish you much joy and success in work with our products and look forward to many years of good cooperation.

Faithfully yours

A handwritten signature in blue ink, appearing to read 'T. Schilder', written over a light blue circular stamp.

Thomas Schilder  
Area Manager East  
ABICOR Group

## MIG/MAG Welding Torches

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## Spare Parts

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# Electrode holders / Gouging torches / Accessories

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- DE 2200 / DE 2300 / DE 2400 / DE 2500 Page 134-135

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- Installation of the integrated flow switch Page 152  
**Simple and fast**

- Automatic welding helmet Page 153  
**Surely and reliable**

- Gas pressure regulators Page 154  
**KAYSER Germany**





# MIG/MAG Welding Torches

## **MIG/MAG Welding Torches**

- ABIMIG® A T 155 LW / 255 LW
- ABIMIG® A T 305 LW / 355 LW / 405 LW
- Flexible changeable torch necks
- Gas nozzles for narrow gap welding
- ABIMIG® A 155 LW / 255 LW
- ABIMIG® A 305 LW / 355 LW / 405 LW
- ABIMIG® W T 340 / W T 440 / W T 540
- ABIMIG® W 340 / W 440 / W 540
- Gas nozzles for narrow gap welding
- MB EVO PRO 15 / EVO PRO 25
- MB EVO PRO 24 / EVO PRO 26 / EVO PRO 36
- MB EVO PRO 240 / EVO PRO 401 / 501
- MB EVO 15 / EVO 25
- MB EVO 24 / EVO 26 / EVO 36
- MB EVO 240 / EVO 401 / 501
- ABIMIG® GRIP W 555 D / 555 / 555 D TS
- ABIMIG® GRIP W 605 / 605 D / 605 C
- PP Plus 36 / 240 / 401
- RAB GRIP 15 AK / 24 KD / 25 AK / 36 KD / 240 D / 501 / 501 D
- RAB GRIP
- FES-200 / FES-200 W3
- AUT / ABIMIG® MT

## **Spare Parts**

- Bent gas nozzles, Bikox®, Control Cables, Hoses, Handles, Modules and Liners

## **Central adaptor / central connector system**

- The universal connection ...

## **Central adaptor with spring contacts**

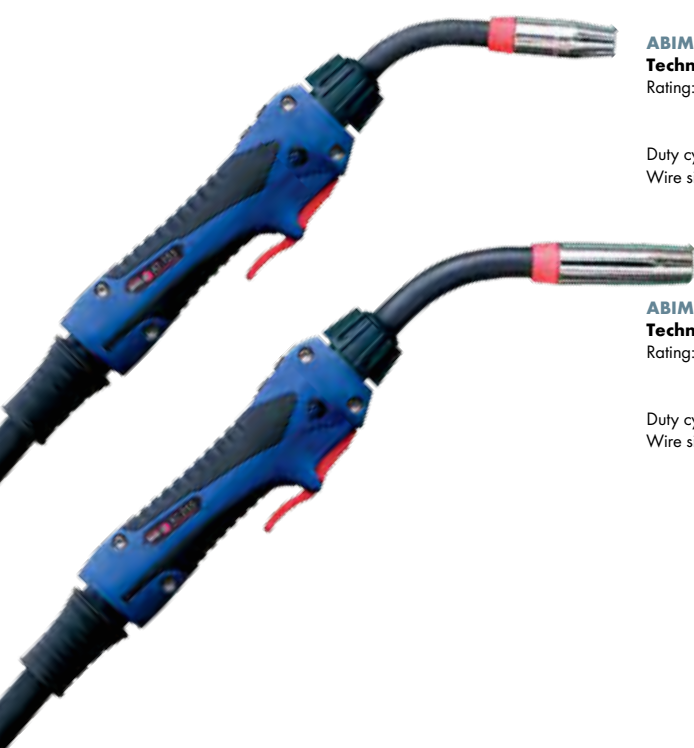
- Flexible contact ...

# 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



### ABIMIG® A T 155 LW

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

Rating: 190 A CO<sub>2</sub>  
180 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8-1.0 mm

### ABIMIG® A T 255 LW

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

Rating: 240 A CO<sub>2</sub>  
220 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8-1.2 mm

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® A T 155 LW	Trigger long	006.D810.1	006.D811.1	006.D812.1	45°	006.D804.1
ABIMIG® A T 255 LW	Trigger long	004.D850.1	004.D851.1	004.D852.1	45°	004.D831.1

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

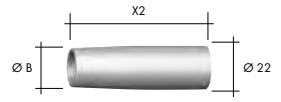
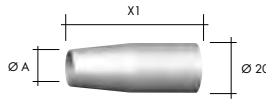
**Attention:** The specified variants correspond to the "BASIC" version. Further versions (COMBI, VARIO, FREE STYLE) on request.

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

## Wear parts

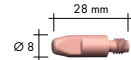
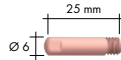
### ABIMIG® A T 155 LW

### ABIMIG® A T 255 LW



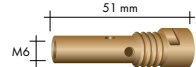
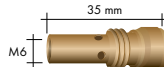
#### Gas nozzle (5 pcs.)

	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	Ø 16	70 mm	145.D011
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	140.0051
	Ø 1.0	140.0253	140.0242
	Ø 1.2	-	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	-	141.0010
CuCrZr	Ø 0.8	140.0062	140.0054
	Ø 1.0	140.0256	140.0245
	Ø 1.2	-	140.0382



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

	006.D719.5	004.D624.5
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#### Spacer (5 pcs.)

	767.D607.5	767.D637.5
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#### Torch neck liner for T-torches



Standard	Ø 0.8	122.D037	122.D037
	Ø 1.0	122.D038	122.D038
	Ø 1.2	-	122.D038
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	124.0012	124.0015
	Ø 1.0	124.0026	124.0031	124.0035
	Ø 1.2	124.0026	124.0031	124.0035
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
Carbon	Ø 0.8	127.0002	127.0003	127.0004
	Ø 1.0	127.0005	127.0007	127.0008
PTFE liner	Ø 1.2	127.0005	127.0007	127.0008

# 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



### ABIMIG® A T 305 LW

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

Rating: 290 A CO<sub>2</sub>  
260 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8-1.2 mm

### ABIMIG® A T 355 LW

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

Rating: 340 A CO<sub>2</sub>  
320 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 1.0-1.6 mm

### ABIMIG® A T 405 LW\*

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

Rating: 400 A CO<sub>2</sub>  
370 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 1.0-1.6 mm  
(up to 2.4 mm on demand)

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® A T 305 LW	Trigger long	018.D960.1	018.D961.1	018.D962.1	45°	014.H356.1
ABIMIG® A T 355 LW	Trigger long	014.H390.1	014.H391.1	014.H392.1	45°	014.H363.1
ABIMIG® A T 405 LW	Trigger long	015.D070.1	015.D071.1	015.D072.1	45°	015.D082.1

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

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

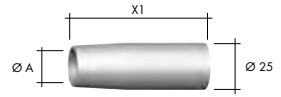
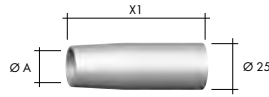
\*The ABIMIG® A T 405 LW is adjustable in 45° steps.

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

## Wear parts

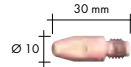
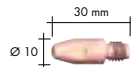
ABIMIG® A T 305 / 355 LW

ABIMIG® A T 405 LW



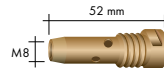
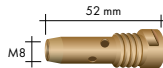
### Gas nozzle (5 pcs.)

	Ø A	X1		Ø A	X1	
Cylindrical	Ø 21	71 mm	145.D024	Ø 21	71 mm	145.D024
Conical	Ø 18	72 mm	145.D021	Ø 18	72 mm	145.D021
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	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	140.0117
	Ø 1.0	140.0316	140.0316
	Ø 1.2	140.0445	140.0445
	Ø 1.6	140.0590	140.0590



### Contact tip holder (5 pcs.)

M8	014.D745.5	014.D745.5
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### Spacer (5 pcs.)

	767.D668.5	015.D080.5
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### Torch neck liner for T-torches



Standard	Ø 0.8	122.D037	-
	Ø 1.0-1.2	122.D038	122.D077
	Ø 1.6	122.D045	122.D078
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	-	124.0015	-	124.0015	-
	1.0	124.0026	124.D113	124.0031	124.D114	124.0035	124.D115	124.0035	124.D115	124.0035	124.D115	124.0035	124.D115
	1.2	124.0026	124.D116	124.0031	124.D117	124.0035	124.D118	124.0035	124.D118	124.0035	124.D118	124.0035	124.D118
	1.6	124.0041	124.D119	124.0042	124.D120	124.0044	124.D121	124.0044	124.D121	124.0044	124.D121	124.0044	124.D121
PTFE liner	0.8	126.0005	-	126.0008	-	126.0011	-	126.0011	-	126.0011	-	126.0011	-
	1.0	126.0021	-	126.0026	-	126.0028	-	126.0028	-	126.0028	-	126.0028	-
	1.2	126.0021	-	126.0026	-	126.0028	-	126.0028	-	126.0028	-	126.0028	-
	1.6	126.0039	-	126.0042	-	126.0045	-	126.0045	-	126.0045	-	126.0045	-
Carbon	0.8	127.0002	-	127.0003	-	127.0004	-	127.0004	-	127.0004	-	127.0004	-
	PTFE liner	1.0	127.0005	-	127.0007	-	127.0008	-	127.0008	-	127.0008	-	127.0008
	1.2	127.0005	-	127.0007	-	127.0008	-	127.0008	-	127.0008	-	127.0008	-
	1.6	127.0010	-	127.0012	-	127.0013	-	127.0013	-	127.0013	-	127.0013	-

Note: Combined wire guides for ABIMIG® A / A T 405 LW on page 33.

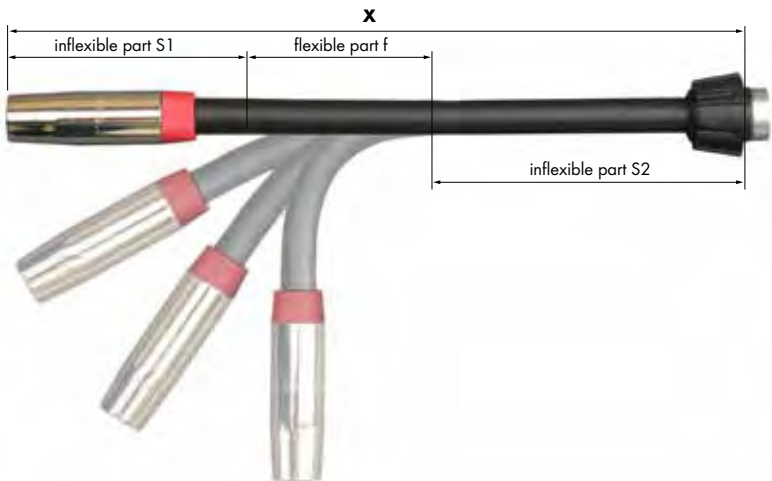
# MIG/MAG Welding Torches "ABIMIG® A T LW"

## Flexible changeable torch necks



Compatible for torch line ABIMIG® T and ABIMIG® A T with torch neck interface (M22 x 1.5).

FLEX copl.		For contact tip	X
006.0133.1	COMBI-Neck A T 155 T8	M6	230
004.0646.1	COMBI-Neck A T 255 T8	M6	250
018.0191.1	COMBI-Neck A T 305 T8	M8	250



Flexible special torch necks:  
The flexible special torch necks combine an inflexible straight torch neck and a flexible front end.

FLEX copl.		For contact tip	X	f	S1	S2
018.0198.1	COMBI-Neck A T 305 T8	M8	350	108	96	146
018.0199.1	COMBI-Neck A T 305 T8	M8	500	180	96	296

# MIG/MAG Gas nozzles and Contact tips

## Gas nozzles for narrow gap welding

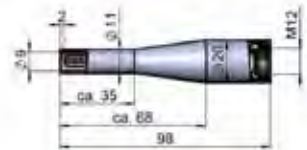


**For all torches ABIMIG®  
155 ... 405**

- Compatible for standard tip holders
- Special gas nozzles and contact tips are necessary
- All Gas nozzles are nickel plated.
- The contact tip material is CuCrZr.

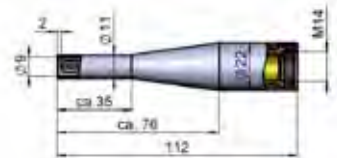
**Attention:**

- The amperage rates are reduced based on the small gap welding conditions and the small tube walls of the gas nozzles.
- Because of the small gap between the gas nozzle and the contact tip a regular cleaning is a protection against short circuit.



**For ABIMIG® 155**

Gas nozzle BOT M12 DN9 L98	145.D450.5
Contact tip CuCrZr M6/0.8/71	140.1644.10
Contact tip CuCrZr M6/0.8/71	140.D465.10



**For ABIMIG® 255**

Gas nozzle BOT M14 DN9 L112	145.D448.5
Contact tip CuCrZr M6/0.8/71	140.1644.10
Contact tip CuCrZr M6/1.0/71	140.D465.10
Contact tip CuCrZr M6/1.2/71	140.D466.10



**For ABIMIG® 305/355/405**

Gas nozzle BOT M16 DN13 L126	145.D437.5
Contact tip CuCrZr M8/1.0/85	140.1584.10
Contact tip CuCrZr M8/1.2/85	140.1585.10

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

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

MIG/MAG welding torches ABIMIG® A LW with fixed torch neck open a new chapter in the development of the successful ABIMIG® line. Optimized production technologies and materials enabled the increase of product strengths, especially for use in the most severe environment. So, tasks with averages up to 350 A can be trouble-free welded air-cooled. The proven ABIMIG® parts show also in this power range secure both gas coverage and durability.

The torches of the ABIMIG® A LW series utilize the 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
- 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® A 155 LW

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

Rating: 190 A CO<sub>2</sub>  
170 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8–1.0 mm

### ABIMIG® A 255 LW

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

Rating: 230 A CO<sub>2</sub>  
220 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8–1.2 mm

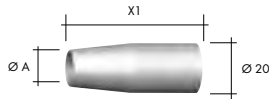
Torch complete Type	Handle	Part-No.			Type	Swan neck Part-No.
		3 m	4 m	5 m		
ABIMIG® A 155 LW	Trigger short	767.0030.1	767.0031.1	767.0032.1	45°	767.0024.1
ABIMIG® A 155 LW	Trigger long	767.0062.1	767.0063.1	767.0064.1	45°	767.0024.1
ABIMIG® A 255 LW	Trigger short	767.0033.1	767.0034.1	767.0035.1	45°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



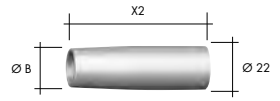
# ABIMIG® A 155 LW, ABIMIG® A 255 LW

## Wear parts

### ABIMIG® A 155 LW



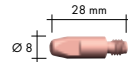
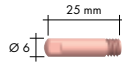
### ABIMIG® A 255 LW



## Gas nozzle (5 pcs.)

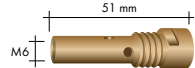
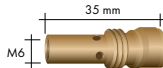
	Ø A	X1		Ø B	X2	
Cylindrical	Ø 17	52 mm	145.D003	Ø 18	69 mm	145.D014
Conical	Ø 12	52 mm	145.D001	Ø 16	70 mm	145.D011
Conical	Ø 12	54 mm	145.D004	Ø 14	67 mm	145.D012

## Contact tip (10 pcs.)



		M6	M6
E-Cu	Ø 0.8	140.0059	140.0051
	Ø 1.0	140.0253	140.0242
	Ø 1.2	-	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	-	141.0010
CuCrZr	Ø 0.8	140.0062	140.0054
	Ø 1.0	140.0256	140.0245
	Ø 1.2	-	140.0382

## Contact tip holder (5 pcs.)



	006.D719.5	004.D624.5
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## Spacer (5 pcs.)



	767.D607.5	767.D637.5
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Liner		for 3 m	for 4 m	for 5 m
Liner	Ø 0.8	124.0011	124.0012	124.0015
	Ø 1.0	124.0026	124.0031	124.0035
	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

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

Air cooled • rating 255 A up to 400 A



## ABIMIG® A 305 LW

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

Rating: 280 A CO<sub>2</sub>  
255 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8-1.2 mm

## ABIMIG® A 355 LW

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

Rating: 350 A CO<sub>2</sub>  
310 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 1.0-1.6 mm

## ABIMIG® A 405 LW

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

Rating: 400 A CO<sub>2</sub>  
355 A Mixed Gases  
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 1.0-1.6 mm  
(up to 2.4 mm on demand)

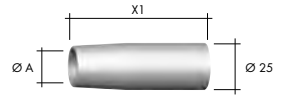
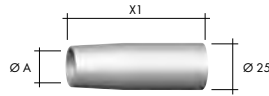
Torch complete			Part-No.			Swan neck	
Type	Handle	3 m	4 m	5 m	Type	Part-No.	
ABIMIG® A 305 LW	Trigger short	767.0036.1	767.0037.1	767.0038.1	45°	767.0045.1	
ABIMIG® A 305 LW	Trigger long	767.0068.1	767.0069.1	767.0070.1	45°	767.0045.1	
ABIMIG® A 355 LW	Trigger short	767.0039.1	767.0040.1	767.0041.1	50°	767.0050.1	
ABIMIG® A 355 LW	Trigger long	767.0071.1	767.0072.1	767.0073.1	50°	767.0050.1	
ABIMIG® A 405 LW	Trigger short	767.0042.1	767.0043.1	767.0044.1	50°	767.0055.1	
ABIMIG® A 405 LW	Trigger long	767.0074.1	767.0075.1	767.0076.1	50°	767.0055.1	

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

## Wear parts

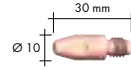
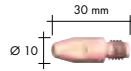
ABIMIG® A 305 / 355 LW

ABIMIG® A 405 LW



### Gas nozzle (5 pcs.)

	Ø A	X1		Ø A	X1	
Cylindrical	Ø 21	71 mm	145.D024	Ø 21	71 mm	145.D024
Conical	Ø 18	72 mm	145.D021	Ø 18	72 mm	145.D021
Conical	Ø 16	69 mm	145.D022	Ø 16	69 mm	145.D022

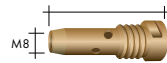
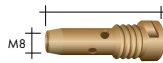


### Contact tip (10 pcs.)

		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	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	140.0117
	Ø 1.0	140.0316	140.0316
	Ø 1.2	140.0445	140.0445
	Ø 1.6	140.0590	140.0590

52 mm

52 mm



### Contact tip holder (5 pcs.)

M8	014.D745.5	014.D745.5
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### Spacer (5 pcs.)

	767.D668.5	015.D080.5
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		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	124.D116	124.0031	124.D117	124.0035	124.D118
	1.6	124.0041	124.D119	124.0042	124.D120	124.0044	124.D121
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 33.

# MIG/MAG Welding Torches "ABIMIG® W T"

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

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

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

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

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



### ABIMIG® W T 340

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

Rating: 400 A CO<sub>2</sub>  
 350 A Mixed Gases  
 350 A Pulse  
 M21 (DIN EN 439)  
 Duty cycle: 100%  
 Wire size: 0.8–1.2 mm

### ABIMIG® W T 440

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

Rating: 500 A CO<sub>2</sub>  
 450 A Mixed Gases  
 350 A Pulse  
 M21 (DIN EN 439)  
 Duty cycle: 100%  
 Wire size: 0.8–1.6 mm

### ABIMIG® W T 540

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

Rating: 600 A CO<sub>2</sub>  
 550 A Mixed Gases  
 400 A Pulse  
 M21 (DIN EN 439)  
 Duty cycle: 100%  
 Wire size: 1.0–1.6 mm

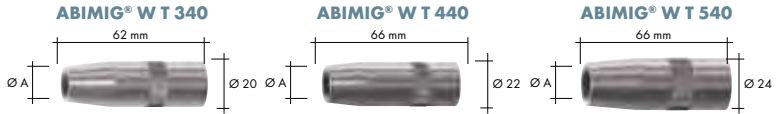
#### Note for liquid cooled torches:

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

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

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

## Wear parts



## Gas nozzle incl. spatter protection<sup>2</sup> (5 pcs.)

	Ø A		Ø A		Ø A	
Cylindrical	Ø 17	145.0740.5	Ø 18	145.0745.5	Ø 20	145.0742.5
Conical	Ø 12.5	145.0737.5 <sup>1</sup>	Ø 14.5	145.D092.5 <sup>1</sup>	Ø 16	145.0735.5 <sup>1</sup>
Conical	Ø 10	145.0739.5	Ø 12	145.0746.5	Ø 14	145.0741.5
Spatter protector		146.0081.10		146.D003.10		146.0080.10

## Contact tip (10 pcs.)

		M6	M8	M8
E-Cu	Ø 0.8	140.0051	140.0114	-
	Ø 1.0	140.0242	140.0313	140.0313
	Ø 1.2	140.0379	140.0442	140.0442
	Ø 1.6	-	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0001	141.0033	-
	Ø 1.0	141.0006	141.0008	141.0008
	Ø 1.2	141.0010	141.0015	141.0015
	Ø 1.6	-	141.0022	141.0022
CuCrZr	Ø 0.8	140.0054	140.0117	-
	Ø 1.0	140.0245 <sup>1</sup>	140.0316	140.0316
	Ø 1.2	140.0382	140.0445 <sup>1</sup>	140.0445 <sup>1</sup>
	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 <sup>1</sup>	28.0	142.0253.5 <sup>1</sup>	27.0	142.0240.5 <sup>1</sup>
	-	-	31.0	142.0243.5	-	-
CuCrZr	-	-	-	-	25.0	142.0247.5
	-	-	-	-	27.0	142.0248.5

## Torch neck liner

Spiral	Ø 0.8-1.2	123.D097 <sup>1</sup>	123.D097 <sup>1</sup>	123.D097 <sup>1</sup>
	Ø 1.4-1.6	-	123.D098	123.D098
BPL liner	Ø 0.8-1.2	149.0418.1	149.0418.1	149.0418.1
	Ø 1.4-1.6	149.0420.1	149.0420.1	149.0420.1

Liner		for 3 m	for 4 m	for 5 m
Spiral	Ø 0.8	124.0137	124.0138	124.0139
	Ø 1.0	124.0111 <sup>1</sup>	124.0112 <sup>1</sup>	124.0113 <sup>1</sup>
	Ø 1.2	124.0111 <sup>1</sup>	124.0112 <sup>1</sup>	124.0113 <sup>1</sup>
	Ø 1.6	124.0114	124.0115	124.0116
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026	126.0028
	Ø 1.6	126.0039	126.0042	126.0045
BPL liner	Ø 0.8	126.0069	126.0070	126.0071
	Ø 1.0	126.0069	126.0070	126.0071
	Ø 1.2	126.0069	126.0070	126.0071
	Ø 1.6	126.0072	126.0073	126.0074

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

<sup>2</sup> The integrated spatter protection is already contained in the above-mentioned gas nozzles and can be ordered separately on request.

# MIG/MAG Welding Torches "ABIMIG® W"

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

Welding torches in the ABIMIG® W 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.

- Long-life screw-in gas nozzles with integrated, exchangeable spatter protection
- Extended and short triggers available - for best handling
- Tried-and-tested ergonomic grip - easy to hold in all positions



### ABIMIG® W 340

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

Rating: 400 A CO<sub>2</sub>  
350 A Mixed Gases  
350 A Pulse  
M21 (DIN EN 439)

Duty cycle: 100 %  
Wire size: 0.8-1.2 mm

### ABIMIG® W 440

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

Rating: 500 A CO<sub>2</sub>  
450 A Mixed Gases  
350 A Pulse  
M21 (DIN EN 439)

Duty cycle: 100 %  
Wire size: 0.8-1.6 mm

### ABIMIG® W 540

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

Rating: 600 A CO<sub>2</sub>  
550 A Mixed Gases  
400 A Pulse  
M21 (DIN EN 439)

Duty cycle: 100 %  
Wire size: 1.0-1.6 mm

#### Note for liquid cooled torches:

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

Torch complete Type	Handle	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
ABIMIG® W T 340	Trigger short	766.1530.1	766.1531.1	766.1532.1	50°	766.1553.1
ABIMIG® W T 340	Trigger long	766.1558.1	766.1559.1	766.1560.1	50°	766.1553.1
ABIMIG® W T 440	Trigger short	766.1533.1	766.1534.1	766.1535.1	50°	766.1548.1
ABIMIG® W T 440	Trigger long	766.1561.1	766.1562.1	766.1563.1	50°	766.1548.1
ABIMIG® W T 540	Trigger short	766.1536.1	766.1537.1	766.1538.1	50°	766.1539.1
ABIMIG® W T 540	Trigger long	766.1564.1	766.1565.1	766.1566.1	50°	766.1539.1

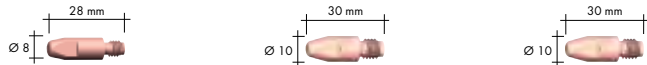
# ABIMIG® W 340, ABIMIG® W 440, ABIMIG® W 540

## Wear parts



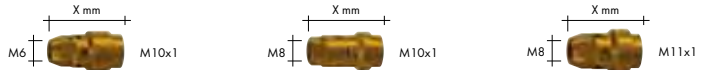
## Gas nozzle incl. spatter protection<sup>2</sup> (5 pcs.)

	Ø A		Ø A		Ø A	
Cylindrical	Ø 17	145.0740.5	Ø 18	145.0745.5	Ø 20	145.0742.5
Conical	Ø 12.5	145.0737.5 <sup>1</sup>	Ø 14.5	145.D092.5 <sup>1</sup>	Ø 16	145.0735.5 <sup>1</sup>
Conical	Ø 10	145.0739.5	Ø 12	145.0746.5	Ø 14	145.0741.5
Spatter protector		146.0081.10		146.D003.10		146.0080.10



## Contact tip (10 pcs.)

		M6	M8	M8
E-Cu	Ø 0.8	140.0051	140.0114	-
	Ø 1.0	140.0242	140.0313	140.0313
	Ø 1.2	140.0379	140.0442	140.0442
	Ø 1.6	-	140.0587	140.0587
E-Cu for Al	Ø 0.8	141.0001	141.0033	-
	Ø 1.0	141.0006	141.0008	141.0008
	Ø 1.2	141.0010	141.0015	141.0015
	Ø 1.6	-	141.0022	141.0022
CuCrZr	Ø 0.8	140.0054	140.0117	-
	Ø 1.0	140.0245 <sup>1</sup>	140.0316	140.0316
	Ø 1.2	140.0382	140.0445 <sup>1</sup>	140.0445 <sup>1</sup>
	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 <sup>1</sup>	28.0	142.0253.5 <sup>1</sup>	27.0	142.0240.5 <sup>1</sup>
	-	-	31.0	142.0243.5	-	-
	-	-	-	-	-	-
CuCrZr	-	-	-	-	25.0	142.0247.5
	-	-	-	-	27.0	142.0248.5

Liner		for 3 m	for 4 m	for 5 m
Spiral	Ø 0.8	124.0137	124.0138	124.0139
	Ø 1.0	124.0111 <sup>1</sup>	124.0112 <sup>1</sup>	124.0113 <sup>1</sup>
	Ø 1.2	124.0111 <sup>1</sup>	124.0112 <sup>1</sup>	124.0113 <sup>1</sup>
	Ø 1.6	124.0114	124.0115	124.0116
	PTFE liner	Ø 0.8	126.0005	126.0008
	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
BPL liner	Ø 0.8	126.0069	126.0070	126.0071
	Ø 1.0	126.0069	126.0070	126.0071
	Ø 1.2	126.0069	126.0070	126.0071
	Ø 1.6	126.0072	126.0073	126.0074

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

<sup>2</sup> The integrated spatter protection is already contained in the above-mentioned gas nozzles and can be ordered separately on request.

# MIG/MAG Gas nozzles and Contact tips

## Gas nozzles for narrow gap welding

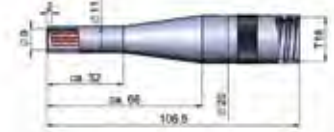


### For all torches ABIMIG® W / W T

- Compatible for standard tip holders
- Special gas nozzles and contact tips are necessary
- All Gas nozzles are nickel plated.
- The contact tip material is CuCrZr.

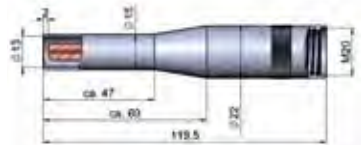
### Attention:

- The amperage rates are reduced based on the small gap welding conditions and the small tube walls of the gas nozzles.
- Because of the small gap between the gas nozzle and the contact tip a regular cleaning is a protection against short circuit.



### For ABIMIG® W / W T 340

Gas nozzle BOT T18 DN9 L106.5	145.0817.5
Contact tip CuCrZr M6/0.8/71	140.1644.10
Contact tip CuCrZr M6/1.0/71	140.D465.10
Contact tip CuCrZr M6/1.2/71	140.D466.10



### For ABIMIG® W / W T 440

Gas nozzle BOT M20 DN13 L119.5	145.0819.5
Contact tip CuCrZr M8/1.0/85	140.1584.10
Contact tip CuCrZr M8/1.2/85	140.1585.10

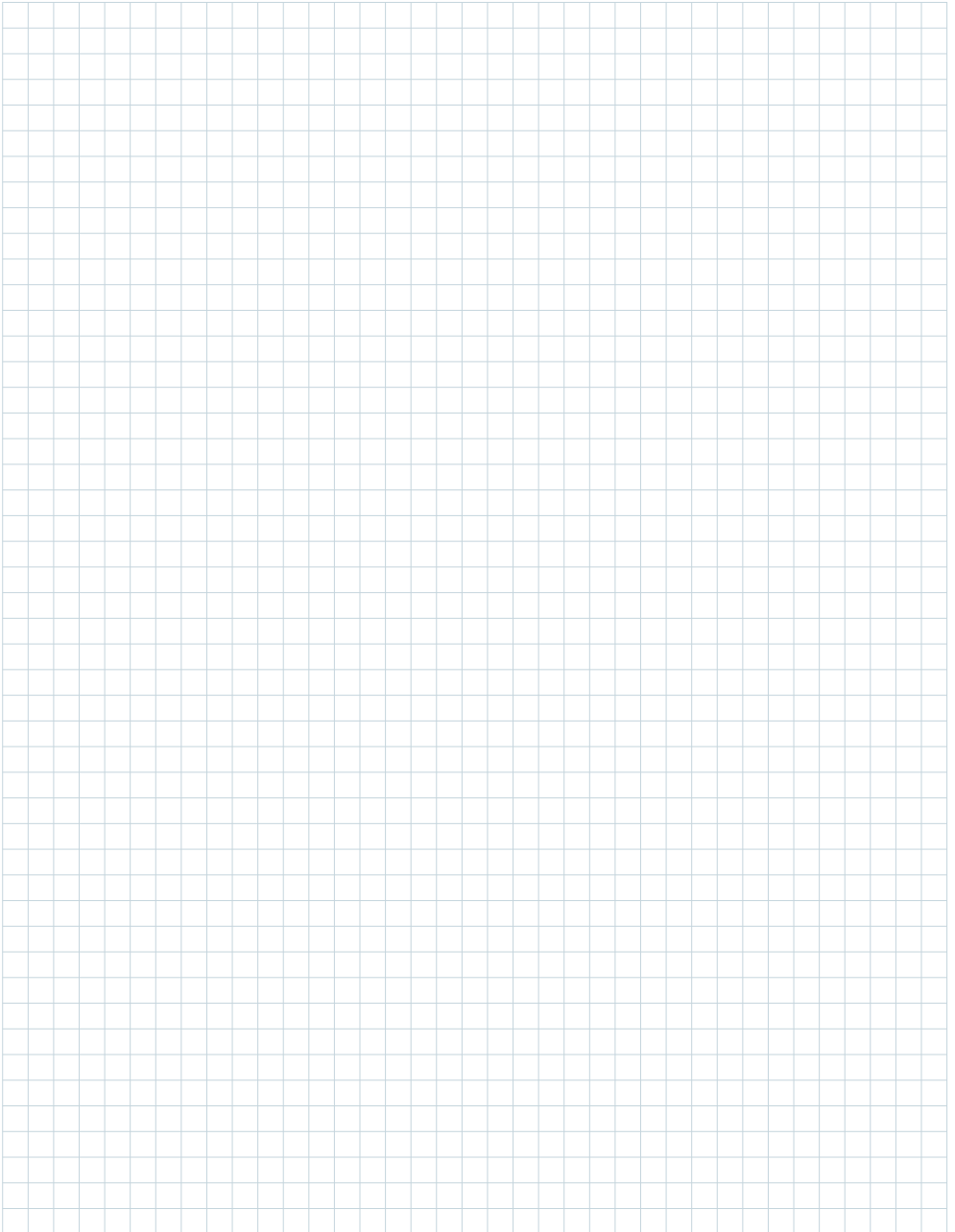


### For ABIMIG® W / W T 540

Gas nozzle BOT R22x1/8 DN13 L120	145.0821.5
Contact tip CuCrZr M8/1.0/85	140.1584.10
Contact tip CuCrZr M8/1.2/85	140.1585.10



# Notes



# MIG/MAG Welding Torches "MB EVO PRO" air cooled

## Rating 150 A up to 230 A

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

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

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

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



### MB EVO PRO 15

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

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

### MB EVO PRO 25

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

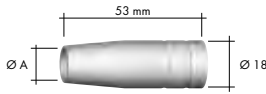
Rating:	230 A CO <sub>2</sub> 200 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8 – 1.2 mm

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

# MB EVO PRO 15, MB EVO PRO 25

## Wear parts

### MB GRIP 15

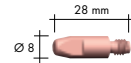
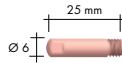


### MB GRIP 25



#### Gas nozzle (10 pcs.)

	Ø A		Ø B	
Cylindrical	Ø 16	145.0041	Ø 18	145.0042
Conical	Ø 12	145.0075	Ø 15	145.0076
Conical	Ø 9,5	145.0123	Ø 11,5	145.0124



#### Contact tip (10 pcs.)

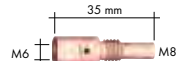
		M6	M6
E-Cu	Ø 0.6	140.0008	-
	Ø 0.8	140.0059	140.0051
	Ø 1.0	140.0253	140.0242
	Ø 1.2	-	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	-	141.0010
CuCrZr	Ø 0.6	140.0855	-
	Ø 0.8	140.0062	140.0054
	Ø 1.0	140.0256	140.0245
	Ø 1.2	-	140.0382



#### Nozzle spring (100 pcs.)

	002.0058	003.0013
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#### Gas nozzle holder / Contact tip holder



M6	002.0078	142.0001 (10 pcs.)
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Liner		for 3 m	for 4 m	for 5 m
Insulated liner	Ø 0.6	124.0137	124.0138	124.0139
	Ø 0.8	124.0137	124.0138	124.0139
	Ø 1.0	124.0111	124.0112	124.0113
	Ø 1.2	124.0111	124.0112	124.0113
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



# MIG/MAG Welding Torches "MB EVO PRO" air cooled

## Rating 250 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 EVO PRO 24

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

Rating:	250 A CO <sub>2</sub> 220 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8 - 1.2 mm

### MB EVO PRO 26

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

Rating:	270 A CO <sub>2</sub> 240 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8 - 1.2 mm

### MB EVO PRO 36

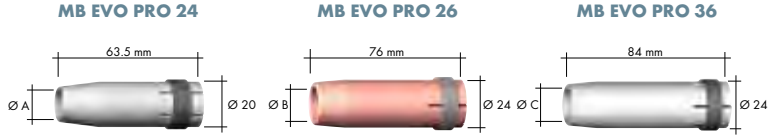
#### Technical data (EN 60 974-7):

Rating:	320 A CO <sub>2</sub> 290 A Mixed Gases M21 (DIN EN ISO 14175)
Duty cycle:	60%
Wire size:	0.8 - 1.2 mm

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

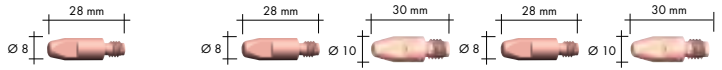
# MB EVO PRO 24, MB EVO PRO 26, MB EVO PRO 36

**Wear parts**



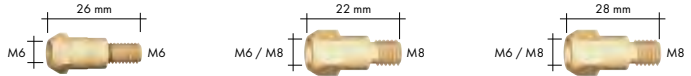
**Gas nozzle (10 pcs.)**

	Ø A		Ø B		Ø C	
Cylindrical	Ø 17	145.0047	Ø 20	145.0051	Ø 19	145.0045
Conical	Ø 12.5	145.0080	Ø 16	145.0085	Ø 16	145.0078
Conical	Ø 10	145.0128	Ø 14	145.0132	Ø 12	145.0126



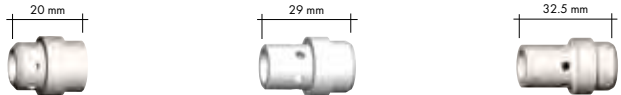
**Contact tip (10 pcs.)**

		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	140.0242	140.0313	140.0242	140.0313
	Ø 1.2	140.0379	140.0379	140.0442	140.0379	140.0442
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	142.0007	142.0005
M8	-	142.0082	142.0020



**Gas diffuser (10 pcs.)**

Standard	012.0183	018.0116	014.0261
Long life	-	-	014.0026
Ceramic	-	018.0141	014.0023

Liner		for 3 m	for 4 m	for 5 m
Insulated liner	Ø 0.8	124.0137	124.0138	124.0139
	Ø 1.0	124.0111	124.0112	124.0113
	Ø 1.2	124.0026	124.0112	124.0113
Carbon 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

# MIG/MAG Welding Torches "MB EVO PRO" liquid cooled

## Rating 300 A up to 575 A

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

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

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



### MB EVO PRO 240 D

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

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

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

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

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

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

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

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

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

Rating: 550 A / 575 A CO<sub>2</sub>  
500 A / 525 A Mixed Gases M21 (DIN EN 14175)

Duty cycle: 100%

Wire size: 1.0 – 1.6 mm

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

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

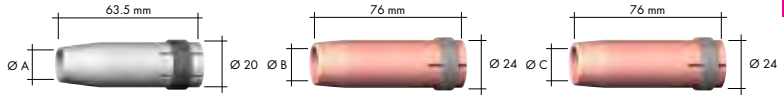
# MB EVO PRO 240, MB EVO PRO 401 / 501

## Wear parts

### MB GRIP 240 D

### MB GRIP 401 D / 501 D

### MB GRIP 401 / 501



## 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	Ø 16 145.0085	Ø 16 145.0085
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	140.0242	140.0313	140.0242	140.0313
	Ø 1.2 140.0379	140.0379	140.0442	140.0379	140.0442
	Ø 1.6 -	140.0555	140.0587	140.0555	140.0587
E-Cu for Al	Ø 0.8 141.0001	141.0001	141.0003	141.0001	141.0003
	Ø 1.0 141.0006	141.0006	141.0008	141.0006	141.0008
	Ø 1.2 141.0010	141.0010	141.0015	141.0010	141.0015
	Ø 1.6 -	141.0020	141.0022	141.0020	141.0022
CuCrZr	Ø 0.8 140.0054	140.0054	140.0117	140.0054	140.0117
	Ø 1.0 140.0245	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	M8
M6	142.0003	142.0008
M8	-	142.0022 142.0201.10

## Gas diffuser (10 pcs.)

	012.0183	030.0145	030.0145
Standard	012.0183	030.0145	030.0145
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	122.0137	122.0138	122.0139
	Ø 1.0	122.0111	122.0112	122.0113
	Ø 1.2	122.0111	122.0112	122.0113
	Ø 1.6	122.0114	122.0115	122.0116
	PTFE liner	Ø 0.8	126.0005	126.0008
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
PTFE liner	Ø 1.0	127.0005	127.0007	127.0004
	Ø 1.2	127.0005	127.0007	127.0008
	Ø 1.6	127.0010	127.0012	127.0013

# MIG/MAG Welding Torches "MB EVO" air cooled

## Rating 150 A up to 230 A

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

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



### MB EVO 15

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

Rating: 180 A CO<sub>2</sub>  
150 A Mixed Gases M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.6 – 1.0 mm

### MB EVO 25

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

Rating: 230 A CO<sub>2</sub>  
200 A Mixed Gases M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.8 – 1.2 mm

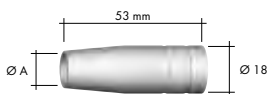
Torch complete Type	Handle Type "MB EVO"	Part-No.			Swan neck	
		3 m	4 m	5 m	Type	Part-No.
MB EVO 15	Type "MB EVO"	002.0709.1	002.0710.1	002.0711.1	50°	002.0715.1
MB EVO 25	Type "MB EVO"	004.0668.1	004.0669.1	004.0670.1	50°	004.0663.1



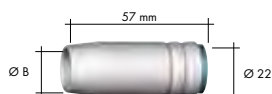
# MB EVO 15, MB EVO 25

## Wear parts

### MB GRIP 15

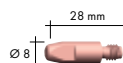
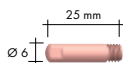


### MB GRIP 25



#### Gas nozzle (10 pcs.)

	Ø A		Ø B	
Cylindrical	Ø 16	145.0041	Ø 18	145.0042
Conical	Ø 12	145.0075	Ø 15	145.0076
Conical	Ø 9,5	145.0123	Ø 11,5	145.0124



#### Contact tip (10 pcs.)

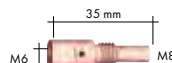
		M6	M6
E-Cu	Ø 0.6	140.0008	-
	Ø 0.8	140.0059	140.0051
	Ø 1.0	140.0253	140.0242
	Ø 1.2	-	140.0379
E-Cu for Al	Ø 0.8	141.0002	141.0001
	Ø 1.0	141.0007	141.0006
	Ø 1.2	-	141.0010
CuCrZr	Ø 0.6	140.0855	-
	Ø 0.8	140.0062	140.0054
	Ø 1.0	140.0256	140.0245
	Ø 1.2	-	140.0382



#### Nozzle spring (100 pcs.)

	002.0058	003.0013
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#### Gas nozzle holder / Contact tip holder



M6	002.0078	142.0001 (10 pcs.)
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Liner		for 3 m	for 4 m	for 5 m
Insulated liner	Ø 0.6	124.0011	124.0012	124.0015
	Ø 0.8	124.0011	124.0012	124.0015
	Ø 1.0	124.0026	124.0031	124.0035
	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

# MIG/MAG Welding Torches "MB EVO" air cooled

## Rating 220 A up to 320 A

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

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



### MB EVO 24

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

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

Duty cycle: 60%

Wire size: 0.8 – 1.2 mm

### MB EVO 26

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

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

Duty cycle: 60%

Wire size: 0.8 – 1.2 mm

### MB EVO 36

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

Rating: 320 A CO<sub>2</sub>  
290 A Mixed 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 EVO 24	Type "MB EVO"	012.0368.1	012.0369.1	012.0370.1	50°	012.0374.1	
MB EVO 26	Type "MB EVO"	018.0208.1	018.0209.1	018.0210.1	50°	018.0214.1	
MB EVO 36	Type "MB EVO"	014.0526.1	014.0527.1	014.0528.1	50°	014.0518.1	

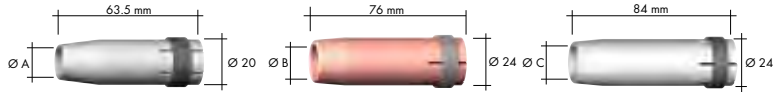
# MB EVO 24, MB EVO 26, MB EVO 36

## Wear parts

### MB EVO PRO 24

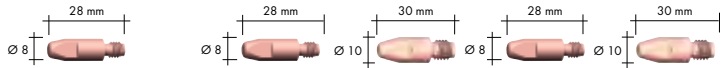
### MB EVO PRO 26

### MB EVO PRO 36



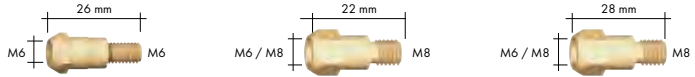
## Gas nozzle (10 pcs.)

	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	Ø 16	145.0085	Ø 16	145.0078
Conical	Ø 10	145.0128	Ø 14	145.0132	Ø 12	145.0126



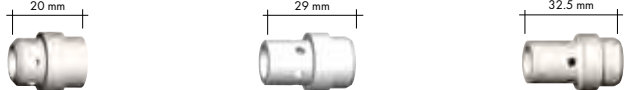
## Contact tip (10 pcs.)

	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	140.0242	140.0313	140.0242	140.0313
	Ø 1.2	140.0379	140.0379	140.0442	140.0379	140.0442
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	142.0007	142.0005
M8	-	142.0082	142.0020



## Gas diffuser (10 pcs.)

Standard	012.0183	018.0116	014.0261
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	124.0031	124.0035
	Ø 1.2	124.0026	124.0031	124.0035
Carbon 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

# MIG/MAG Welding Torches "MB EVO" liquid cooled

## Rating 270 A up to 550 A

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

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



### MB EVO 240 D

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

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

Duty cycle: 100%

Wire size: 0.8 - 1.2 mm

### MB EVO 401 D / MB EVO 401

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

Rating: 400 A / 450 A CO<sub>2</sub>  
350 A / 400 A Mixed Gases M21 (DIN EN 14175)

Duty cycle: 100%

Wire size: 0.8 - 1.2 mm

### MB EVO 501 D / MB EVO 501

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

Rating: 500 A / 550 A CO<sub>2</sub>  
450 A / 500 A Mixed Gases M21 (DIN EN 14175)

Duty cycle: 100%

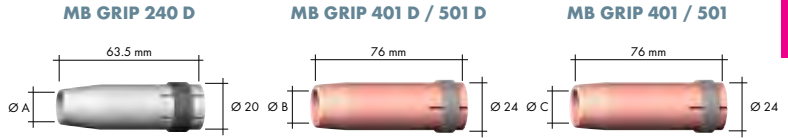
Wire size: 1.0 - 1.6 mm

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

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

# MB EVO 240, MB EVO 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	Ø 16 145.0085	Ø 16 145.0085
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	140.0242	140.0313	140.0242	140.0313
	Ø 1.2 140.0379	140.0379	140.0442	140.0379	140.0442
	Ø 1.6 -	140.0555	140.0587	140.0555	140.0587
E-Cu for Al	Ø 0.8 141.0001	141.0001	141.0003	141.0001	141.0003
	Ø 1.0 141.0006	141.0006	141.0008	141.0006	141.0008
	Ø 1.2 141.0010	141.0010	141.0015	141.0010	141.0015
	Ø 1.6 -	141.0020	141.0022	141.0020	141.0022
CuCrZr	Ø 0.8 140.0054	140.0054	140.0117	140.0054	140.0117
	Ø 1.0 140.0245	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	142.0008	-	-
M8	-	142.0022	142.0201.10	-

## Gas diffuser (10 pcs.)

Standard	012.0183	030.0145	030.0145
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	122.0036	122.0039
	Ø 1.2	122.0031	122.0036	122.0039
	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
	Ø 1.0	127.0005	127.0007	127.0004
PTFE liner	Ø 1.2	127.0005	127.0007	127.0008
	Ø 1.6	127.0010	127.0012	127.0013



# MIG/MAG Welding Torches "ABIMIG® GRIP W"

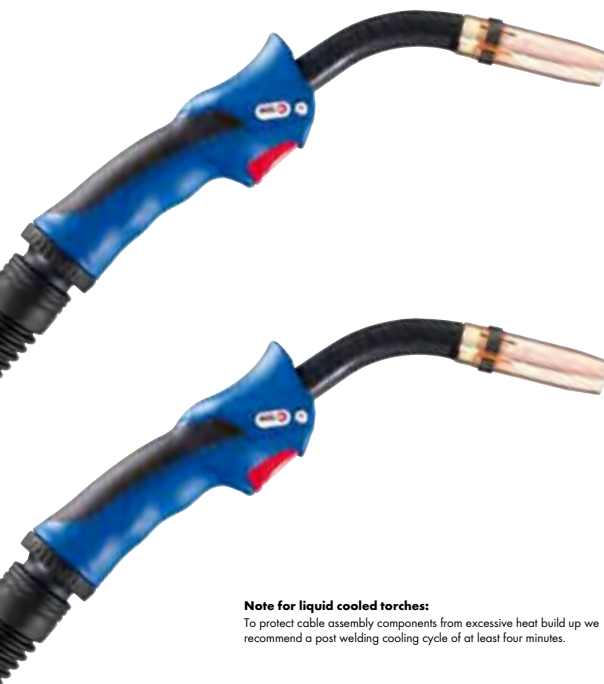
## Liquid cooled • rating 400 A up to 575 A

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

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

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

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



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

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

Rating:	550 A CO <sub>2</sub> 500 A Mixed Gases 400 A Pulse M21 (DIN EN 439)
Duty cycle:	100%
Wire size:	0.8 – 1.6 mm

### ABIMIG® GRIP W 555

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

Rating:	575 A CO <sub>2</sub> 525 A Mixed Gases 400 A Pulse M21 (DIN EN 439)
Duty cycle:	100%
Wire size:	0.8 – 1.6 mm

#### Note for liquid cooled torches:

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

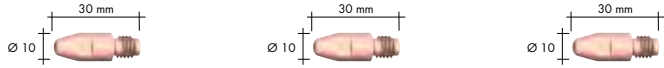
Torch complete		Part-No.			Swan neck	
Type	Handle	3 m	4 m	5 m	Type	Part-No.
ABIMIG® GRIP W 555 D	Type "ABIMIG® GRIP"	766.0526.1	766.0527.1	766.0528.1	50°	766.0532.1
ABIMIG® GRIP W 555 D TS	Type "ABIMIG® GRIP"	766.1457.1	766.1458.1	766.1459.1	50°	766.0900.1
ABIMIG® GRIP W 555	Type "ABIMIG® GRIP"	766.0529.1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



<b>Gas nozzle</b>	<b>Ø A</b>	<b>ABIMIG® GRIP W 555 D</b> (10 pcs.)	<b>ABIMIG® GRIP W 555 D TS</b> (5 pcs.)	<b>ABIMIG® GRIP W 555</b> (10 pcs.)
Cylindrical	Ø 20	145.0051	145.0709.5	Ø 20 145.0051
Conical	Ø 16	145.0085	145.0708.5	Ø 16 145.0085
Conical	Ø 14	145.0132	-	Ø 14 145.0132



<b>Contact tip (10 pcs.)</b>	<b>M8</b>	<b>M8</b>	<b>M8</b>	
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	140.0445	140.0445
	Ø 1.6	140.0590	140.0590	140.0590



<b>Contact tip holder (10 pcs.)</b>	<b>M8</b>	<b>M8</b>	<b>M8</b>
M8	142.0201.10	142.0201.10	-



<b>Gas diffuser (10 pcs.)</b>	<b>030.0145</b>	<b>030.0145</b>	<b>030.0145</b>
Standard	030.0145	030.0145	030.0145
Long life	030.0037	030.0037	030.0037
Ceramic	030.0190	030.0190	030.0190

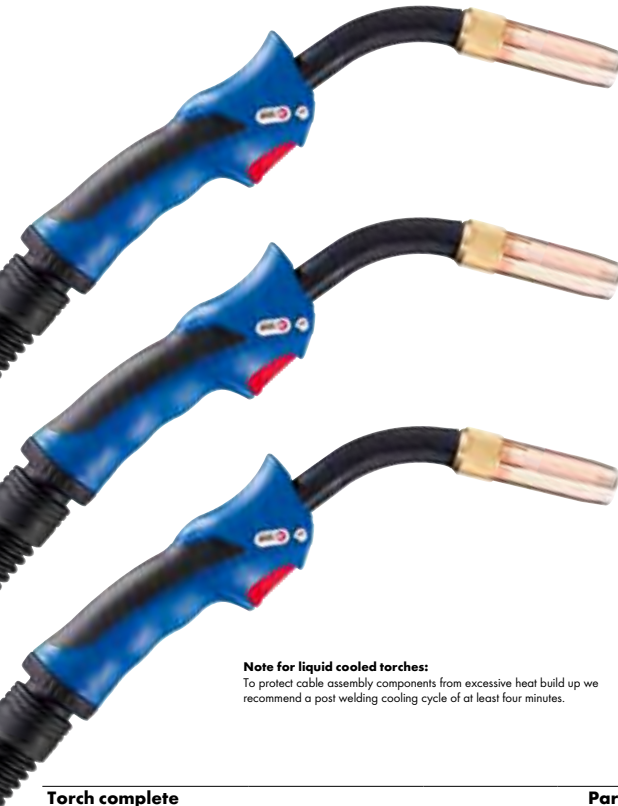
<b>Liner</b>	<b>for 3 m</b>	<b>for 4 m</b>	<b>for 5 m</b>	
Liner	Ø 0.8	124.0137	124.0138	124.0139
	Ø 1.0	124.0111	124.0112	124.0113
	Ø 1.2	124.0111	124.0112	124.0113
	Ø 1.6	124.0114	124.0115	124.0116
PTFE liner	Ø 0.8	126.0005	126.0008	126.0011
	Ø 1.0	126.0021	126.0026	126.0028
	Ø 1.2	126.0021	126.0026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



# 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<sub>2</sub>  
575 A Mixed Gases  
450 A Pulse  
M21 (DIN EN 439)

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<sub>2</sub>  
550 A Mixed Gases  
450 A Pulse  
M21 (DIN EN 439)

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<sub>2</sub>  
550 A Mixed Gases  
450 A Pulse  
M21 (DIN EN 439)

Duty cycle: 100 %  
Wire size: 1.0 – 1.6 mm

Torch complete Type	Handle	3 m	Part-No.			Swan neck	
			4 m	5 m	Type	Part-No.	
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	



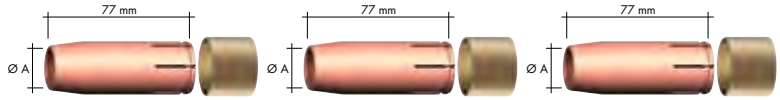
# ABIMIG® GRIP W 605, ABIMIG® GRIP W 605 D, ABIMIG® GRIP W 605 C

**Wear parts**

**ABIMIG® GRIP W 605**

**ABIMIG® GRIP W 605 D**

**ABIMIG® GRIP W 605 C**

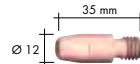


**Gas nozzle (10 pcs.)**

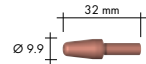
	Ø A		Ø A		Ø A	
Cylindrical	Ø 20	145.0678.10	Ø 20	145.0678.10	Ø 20	145.0678.10
Conical	Ø 17	145.0669	Ø 17	145.0669	Ø 17	145.0669
Gas nozzle adapter		766.1070		766.1070		766.1070



**M10**



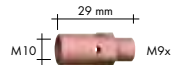
**M10**



**Contact tip (10 pcs.)**

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	140.0481	140.1319
	Ø 1.6	140.0616	140.0616	140.1321

**Contact tip holder / Collet body (10 pcs.)**






Contact tip holder M10	-	142.0202.10	-
Collet body	-	-	766.1051



**Gas diffuser (10 pcs.)**

Long Life (Standard)	766.0518	766.0518	766.0518
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	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	124.0112	124.0113
		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	Ø 1.0	127.0005	127.0007	127.0008
	PTFE liner	Ø 1.2	127.0005	127.0007	127.0008
		Ø 1.6	127.0010	127.0012	127.0013

# MIG/MAG Welding Torches Push-Pull Plus

## Air and liquid cooled



**Note for liquid cooled torches:**

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



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

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

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

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

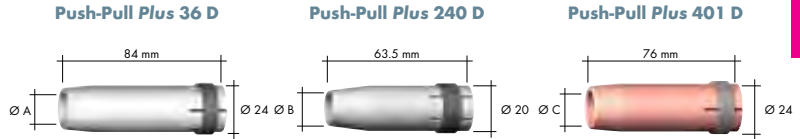
Type	Cooling	Rating		Duty cycle (%)	Wire size (mm)
		CO <sub>2</sub>	Mixed Gases M21		
Push-Pull Plus 36 D	air	300 A	270 A	60	0.8–1.2
Push-Pull Plus 240 D	liquid	270 A	240 A	100	0.8–1.2
Push-Pull Plus 401 D	liquid	400 A	350 A	100	0.8–1.2

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

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

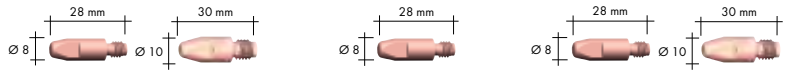
# Push-Pull Plus 36, Push-Pull Plus 240, Push-Pull Plus 401

## Wear parts



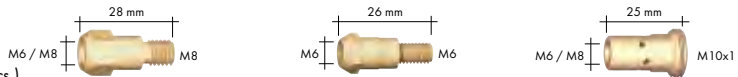
### Gas nozzle (10 pcs.)

	Ø A		Ø B		Ø C
Cylindrical	Ø 19	145.0045	Ø 17	145.0047	Ø 20
Conical	Ø 16	145.0078	Ø 12.5	145.0080	Ø 16
Conical	Ø 12	145.0126	Ø 10	145.0128	Ø 14



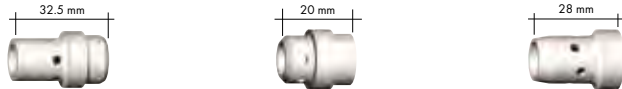
### Contact tip (10 pcs.)

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



### Contact tip holder (10 pcs.)

M6	142.0005	142.0003	142.0008
M8	142.0020	-	142.0022



### Gas diffuser (10 pcs.)

Standard	014.0261	012.0183	030.0145
Long life	014.0026	-	030.0037
Ceramic	014.0023	-	030.0190

### Liner

Neck liner <sup>1</sup> 0.8-1.0 mm	149.0260.3	149.0264.3	149.0264.3
Neck liner <sup>1</sup> 1.2 mm	149.0261.3	149.0265.3	149.0265.3
Neck liner <sup>2</sup> 0.8-1.0 mm	149.0262.3	149.0266.3	149.0266.3
Neck liner <sup>2</sup> 1.2 mm	149.0263.3	149.0267.3	149.0267.3
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 liner 1.0-1.2 mm	126.0030	126.0030	126.0030
Carb. PTFE liner 0.8 mm	127.0015	127.0015	127.0015
Carb. PTFE l. 1.0-1.2 mm	127.0009	127.0009	127.0009
PA liner 1.0-1.2 mm	128.0019	128.0019	128.0019

<sup>1</sup> For straight torch necks (0°).

<sup>2</sup> For banded torch necks (45°).

# MIG/MAG Fume Extraction Torches "RAB GRIP"

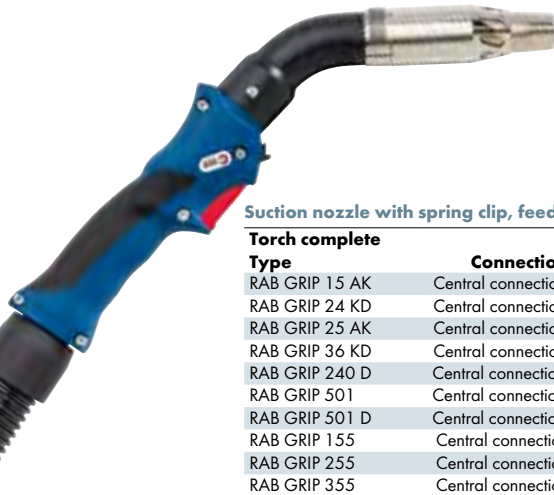
## Air and liquid cooled

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
RAB GRIP 155	Central connection KZ-2	602.D008.1	602.D001.1	602.D009.1
RAB GRIP 255	Central connection KZ-2	604.D001.1	604.D002.1	604.D003.1
RAB GRIP 355	Central connection KZ-2	614.D004.1	614.D005.1	614.D006.1

\*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 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.

Type	Suction nozzle spring clip	Swan neck	Outer neck
RAB GRIP 155	600.D007.1	602.D002.1	600.3007.1
RAB GRIP 255	600.2004	604.D004.1	600.3007.1
RAB GRIP 355	600.D045	614.D001	600.2002

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

## Technical Data

Type	Cooling	Rating		Duty cycle (%)	Wire size (mm)
		CO <sub>2</sub>	Mixed Gases M21		
RAB GRIP 15 AK	air	180 A	150 A	60	0.6-1.0
RAB GRIP 24 KD	air	250 A	220 A	60	0.8-1.2
RAB GRIP 25 AK	air	230 A	200 A	60	0.8-1.2
RAB GRIP 36 KD	air	300 A	270 A	60	0.8-1.2
RAB GRIP 240 D	liquid	300 A	270 A	100	0.8-1.2
RAB GRIP 501	liquid	550 A	500 A	100	1.0-1.6
RAB GRIP 501 D	liquid	500 A	450 A	100	1.0-1.6
RAB GRIP 155	air	190 A	170 A	60	0.6-1.0
RAB GRIP 255	air	240 A	210 A	60	0.8-1.2
RAB GRIP 355	air	270 A	270 A	60	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 especially to meet the demands of chrome and nickel material joining, and is certified by the Institute of Work Safety with the **W3 license for all welding applications** or related procedures with emissions suitable to KMR / 1.2 materials\*. Thus, this device enables the filtering of the exhaust, and work to be conducted without these otherwise harmful effects.

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

# Fume Extraction System & Accessories

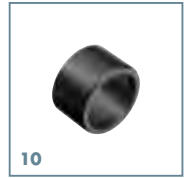
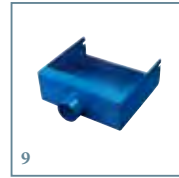
## Complete extraction unit



### Extraction unit package includes:

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

## Replacement parts and accessories



Pos.	Description	Part-No.
1	Complete unit FES-200 (230 V)	601.0001.1
	Complete unit FES-200 (115 V)	601.0002.1
2	Complete unit FES-200 W3 (230 V)	601.0034.1
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 W3	601.0048.1
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, 7-pole	601.0020.1
not ill.	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

# 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

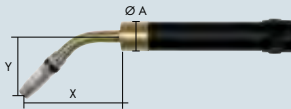
## Fixed swan neck

Type	Geometry	Part-No.	X	Y
AUT 24 KD	0°	912.0001	154 mm	
AUT 24 KD	45°	912.0002	125 mm	80 mm
AUT 25 KD	0°	904.0003	140 mm	
AUT 25 KD	45°	904.0004	110 mm	75 mm
AUT 26 / 36 KD	0°	914.0002	185 mm	
AUT 26 / 36 KD	45°	914.0001	145 mm	95 mm
AUT 240 D	0°	923.0001	154 mm	
AUT 240 D	45°	923.0002	126 mm	73 mm
AUT 501	0°	932.0001	167 mm	
AUT 501	45°	932.0002	135 mm	82 mm
AUT 501 D	0°	934.0001	167 mm	
AUT 501 D	45°	934.0002	135 mm	82 mm
ABIMIG® W 555 MT	0°	766.0878.1	175 mm	
ABIMIG® W 555 MT	22°	766.0879.1	168 mm	38 mm
ABIMIG® W 555 MT	45°	766.0880.1	144 mm	84 mm
ABIMIG® W 555 D MT	0°	766.0865.1	175 mm	
ABIMIG® W 555 D MT	22°	766.0866.1	168 mm	38 mm
ABIMIG® W 555 D MT	45°	766.0867.1	144 mm	84 mm
ABIMIG® W 605 MT	0°	766.0883.1	184 mm	
ABIMIG® W 605 MT	22°	766.0884.1	176 mm	41 mm
ABIMIG® W 605 MT	45°	766.0885.1	150 mm	90 mm
ABIMIG® W 605 D MT	0°	766.0871.1	183.5 mm	
ABIMIG® W 605 D MT	22°	766.0872.1	176 mm	41 mm
ABIMIG® W 605 D MT	45°	766.0873.1	150 mm	90 mm
ABIMIG® 645 W MT	0°	766.0459	182 mm	
ABIMIG® 645 W MT	45°	766.0460	149 mm	89 mm

## Changeable swan neck

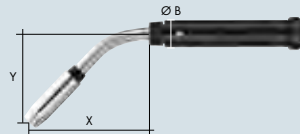
Type	Geometry	Part-No.	X	Y
ABIMIG® MT 255 T8M	0°	012.D122	195 mm	
ABIMIG® MT 255 T8M	45°	004.D785	140 mm	85 mm
ABIMIG® MT 355 T8M	0°	014.D812	224 mm	
ABIMIG® MT 355 T8M	45°	014.D808	185 mm	95 mm
ABIMIG® MT 455 T8M	0°	016.D250	230 mm	
ABIMIG® MT 455 T8M	45°	016.D225	190 mm	100 mm

### Fixed swan neck



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

### Changeable swan neck

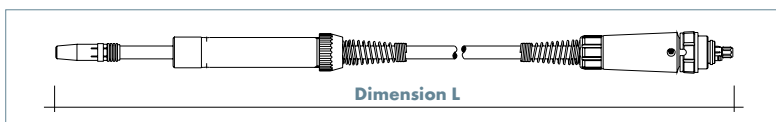


Ø B air cooled torches: 37 mm  
liquid cooled torches: 40 mm

### Order information:

When ordering complete torches, please indicate the torch type, torch geometry (straight or 45° 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.



# MIG/MAG Gas nozzles and Contact tips

## Bent gas nozzles and contact tips for MB 15 / 24 / 26 and MB 240 / 401 / 501

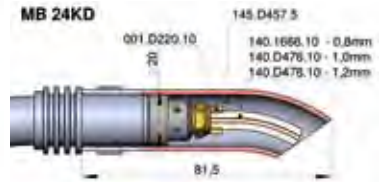
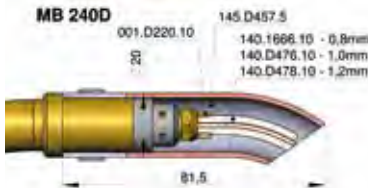
These special gas nozzle and contact tip packages are available for use of MB torches in special applications in welding positions with limited accessibility. The bent contact tip can be turned into the desired position and can be fixed by a counter nut.

Bent contact tips for higher amperages are silver plated. All bent gas nozzles are slip-on gas nozzles and, therefore, can be easily positioned according to the contact tip.

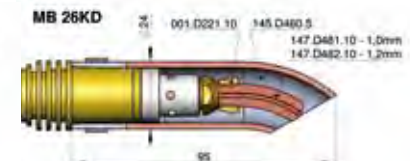
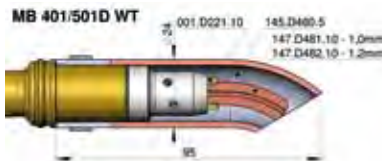
Discription	Welding wire	Part-No.
<b>For MB 15AK</b>		
Gas nozzle bent D12 ID16 L68	-	145.D368
Contact tip E-Cu M6 / 1.0/35.5 bend	D=6 / R31	Up to 1.0 mm 140.D468.10
Hexagon nut M6 SW8	-	001.D220.10



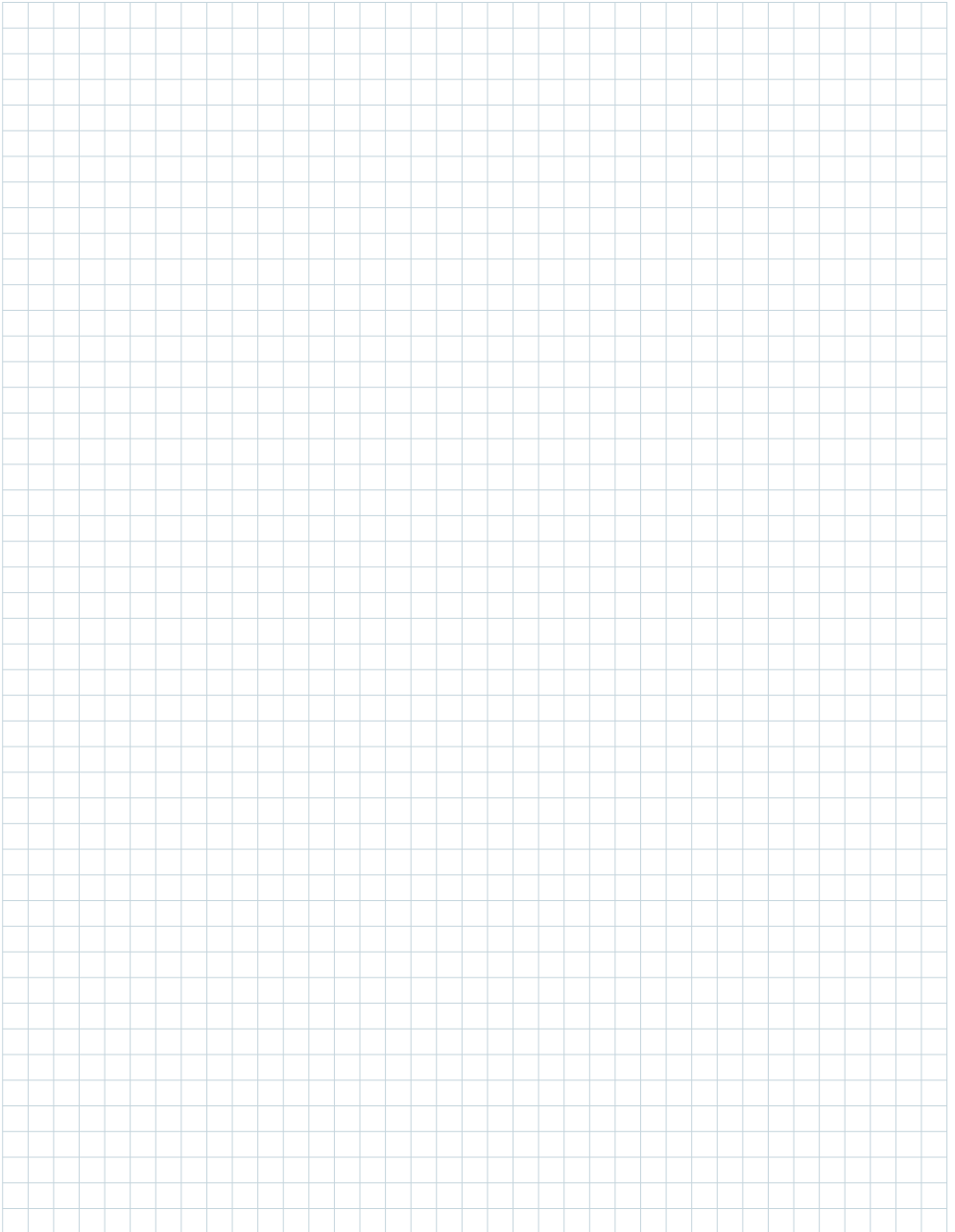
<b>For MB 240D and MB 24KD</b>			
Gas nozzle bent OD20 ID17 L82	NI Typ 24 / 240	-	145.D457.5
Contact tip E-Cu M6 / 0.8 bend	D=6 / R40	0.8 mm	1401.666.10
Contact tip E-Cu M6 / 1.0 bend	D=6 / R40	1.0 mm	147.D476.10
Contact tip E-Cu M6 / 1.2 bend	D=6 / R40	1.2 mm	147.D478.10
Hexagon nut M6 SW8	-	-	001.D220.10



<b>For MB 401D / 501D and MB 26KD</b>			
Gas nozzle bent OD24 ID20 L95	NI Typ 24 / 240	-	145.D460.5
Contact tip CuCrZr M8 / 1.0 bend	D=8 / R36 silver plated	Up to 1.0 mm	147.D481.10
Contact tip CuCrZr M8 / 1.2 bend	D=8 / R36 silver plated	1.2 mm	147.D482.10
Hexagon nut M8 SW11	-	-	001.D221.10



# Notes



# 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 EVO 15	R10	160.1291.1	160.1292.1	160.1293.1	-
MB EVO 24	R25	160.D427	160.D428	160.D429	-
MB EVO 25	R20	160.1294.1	160.1295.1	160.1296.1	-
MB EVO 26	R30	160.1305.1	160.1306.1	160.1307.1	-
MB EVO 36	R40	160.1308.1	160.1309.1	160.1310.1	-
MB EVO PRO 15	R18 LW	160.H025.1	160.H026.1	160.H027.1	-
MB EVO PRO 24	R37 LW	160.1330.1	160.1331.1	160.1332.1	-
MB EVO PRO 25	R28 LW	160.H032.1	160.H033.1	160.H034.1	-
MB EVO PRO 26	R42 LW	160.H039.1	160.H040.1	160.H041.1	-
MB EVO PRO 36	R53 LW	160.H046.1	160.H047.1	160.H048.1	-
ABIMIG® A 155 LW / ABIMIG® A T 155 LW / RAB GRIP 15	R18 LW	160.H025.1	160.H026.1	160.H027.1	-
ABIMIG® A 255 LW / ABIMIG® A T 255 LW / RAB GRIP 25	R28 LW	160.H032.1	160.H033.1	160.H034.1	-
ABIMIG® A 305 LW / ABIMIG® A T 305 LW / RAB GRIP 24	R42 LW	160.H039.1	160.H040.1	160.H041.1	-
ABIMIG® A 355 LW / ABIMIG® A T 355 LW / RAB GRIP 36	R53 LW	160.H046.1	160.H047.1	160.H048.1	-
ABIMIG® A 405 LW ABIMIG® A T 405 LW	RA70 LW	160.H344.1	160.H345.1	160.H346.1	-
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 EVO 240 / 401 / 501	Power cable PVC	115.0833.1	115.0834.1	115.0835.1	-	-
MB EVO PRO 240 / 401 / 501	Power cable FRH	115.0830.1	115.0831.1	115.0832.1	-	-
ABIMIG® W 340 / 440 / 540	Power cable PVC	115.0855.1	115.0856.1	115.0857.1	-	-
ABIMIG® W T 340 / 440 / 540	Power cable PVC	115.0581	115.0582	115.0583	-	-
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® 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	-
MB EVO 240 / 401 / 501	Water hose blue PVC	-	-	-	-	109.0057
MB EVO PRO 240 / 401 / 501	Water hose black FRH	-	-	-	-	109.0052
ABIMIG® W 340 / 440 / 540	Water hose blue PVC	-	-	-	-	109.0057
ABIMIG® W T 340 / 440 / 540	Water hose blue PVC	-	-	-	-	109.0057
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® GRIP W 555 / 605	Gas hose	-	-	-	-	109.0040
RAB GRIP 240 / 501	Gas hose	-	-	-	-	109.0040
PP Plus 240 / 401	Gas hose	-	-	-	-	109.0040

### III. Cable assemblies liquid cooled

Type	Description	Cable assembly length				
		3 m	4 m	5 m	8 m	per m
MB EVO 240 / 401 / 501	Gas /wire hose	154.0017.1	154.0018.1	154.0019.1	-	-
MB EVO PRO 240 / 401 / 501	Gas /wire hose	154.0017.1	154.0018.1	154.0019.1	-	-
ABIMIG <sup>®</sup> W 340 / 440 / 540	Gas /wire hose	154.0020.1	154.0021.1	154.0022.1	-	-
ABIMIG <sup>®</sup> W T 340 / 440 / 540	Gas /wire hose	109.0094.1	115.0095.1	115.0096.1	-	-
All torches	Control cable 2-pole	-	-	-	-	100.0019

### IV. Outer and Suction Hose

Type	Description	Cable assembly length				
		3 m	4 m	5 m	8 m	per m
MB EVO 240 / 401 / 501	Outer hose 25x1.5	107.0109.1	107.0110.1	107.0111.1	-	-
MB EVO PRO 240 / 401 / 501	Outer hose 25x1.5	107.0109.1	107.0110.1	107.0111.1	-	-
ABIMIG <sup>®</sup> W 340 / 440 / 540	Outer hose 25x1.5	107.0109.1	107.0110.1	107.0111.1	-	-
ABIMIG <sup>®</sup> W T 340 / 440 / 540	Outer hose 25x1.5 (with cable support)	107.0079	107.0044	107.0080	-	-
ABIMIG <sup>®</sup> GRIP W 555 / 605	Outer hose 25x1.5	-	-	-	-	107.0004
RAB GRIP 15 / 24 / 25 / 36	Outer hose LW 32	-	-	-	-	109.0043
RAB GRIP 155 / 255 / 355						
RAB GRIP 240 / 501	Outer hose LW 38	-	-	-	-	109.0044
PP Plus 36 / 240 / 401	Outer hose 25x1.5	-	-	-	-	107.0004

### V. 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	-	•	-	•

### VI. 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 <sup>®</sup> A / A T 405 LW)	1.0	126.D026.1	126.D027.1	126.D028.1	-
P (for ABIMIG <sup>®</sup> A / A T 405 LW)	1.2-1.4	126.D029.1	126.D030.1	126.D031.1	-

### VII. 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 cone	grey	2.3 / 4.7	1.2-1.6	128.0058.1	128.0059.1	128.0060.1	-

### VIII. BPL-Liner

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

# Handles and control modules

## ABIMIG A T / W T

### IX. Handle ABIMIG® A T / W T without module

Type	Description	Part-No.
ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	Trigger long, blind cover	180.D077.1
ABIMIG® A T LW 155 / 255 / 305 / 355 / 405	Trigger short, blind cover	180.D078.1
Cable support ABIMIG® A T LW	short	400.D574.1
Half rings for cable support A T	1 pair	400.D561.2
ABIMIG® W T 340 / 440 / 540	Trigger long, blind cover	180.0164.1
ABIMIG® W T 340 / 440 / 540	Trigger short, blind cover	180.0165.1
Half rings for cable support W T	1 pair	400.D561.2



Trigger long, blind cover  
Part-No.: 180.D077.1



Trigger short, blind cover  
Part-No.: 180.D078.1

### X. Handle ABIMIG® A T / W T with module

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



Trigger long, Up/Down  
Part-No.: 180.D079.1



Trigger short, Up/Down  
Part-No.: 180.D080.1

# Handles and control modules

## ABIMIG A / W

### XI. Handle ABIMIG® A / W without modules

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



Trigger long, blind cover  
Part-No.: 180.0180.1



Trigger short, blind cover  
Part-No.: 180.0181.1

### XII. Handle ABIMIG® A / W with module

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



Trigger long, Up/Down  
Part-No.: 180.D082.1



Trigger short, Up/Down  
Part-No.: 180.D083.1

# Handles and control modules

## EVO PRO/EVO

### XIII. Handle MIG/MAG Welding Torches "MB EVO PRO" air cooled / liquid cooled

Type	Description	Part-No.
MB EVO PRO 15 / 24 / 25 / 26 / 36	Handle 2K MB EVO PRO, 2 pole ac complete	180.0176.1
MB EVO PRO 240 / 401 / 501	Handle 2K MB EVO PRO, 2 pole lc complete	180.0177.1
Cable support	short	400.D574.1
Half rings (fixes cable protection on handle)	1 pair	400.D561.2



air cooled  
Part-No.: 180.0176.1



liquid cooled  
Part-No.: 180.0177.1

### XIV. Handle MIG/MAG Welding Torches "MB EVO" air cooled / liquid cooled

Type	Description	Part-No.
MB EVO 15 / 24 / 25 / 26 / 36	Handle 2K MB EVO, 2 pole ac complete	180.0178.1
MB EVO 240 / 401 / 501	Handle 2K MB EVO, 2 pole lc complete	180.0179.1
Cable support	short	400.D574.1
Half rings (fixes cable protection on handle)	1 pair	400.D561.2



air cooled  
Part-No.: 180.0178.1



liquid cooled  
Part-No.: 180.0179.1



# Handles and control modules

## RAB GRIP

### XV. Handles RAB GRIP without modules

Type	Description	Part-No.
RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	Handle Type Standard (feed air slide below)	180.0138.1
RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	Handle Type ZO (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



RAB GRIP Standard, feed air slide below  
Part-No.: 180.0138.1



RAB GRIP ZO, feed air slide on top  
Part-No.: 180.0144.1

### XVI. Handles RAB GRIP with modules

Type	Description	Part-No.
RAB GRIP 15 / 24 / 25 / 36 / 240 / 501	Handle Type SH without module (feed air slide below)	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



RAB GRIP SH, feed air slide below  
Part-No.: 180.0154.1



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



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

# Handles and control modules

## ABIMIG® GRIP

### XVII. Handles ABIMIG® GRIP / Handle tubes AUT, MT

Type	Description	Part-No.
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

### XVIII. 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 Migatronix	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)	

# Handles and control modules

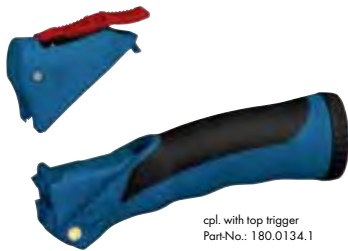
## ABIMIG® GRIP

### Handle Type "ABIMIG® GRIP S"



Part-No.: 180.0132.1

### Handle Type "ABIMIG® GRIP TO"



cpl. with top trigger  
Part-No.: 180.0134.1

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

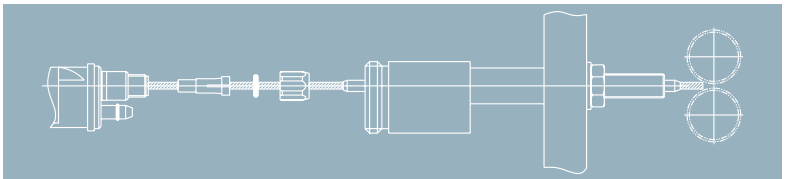
Part-No.: 180.0133.1

# 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	Δ 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
Capillary tubes for wire Ø 2.0 and 2.4 mm	1000 mm	129.0227
	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 with spring contacts

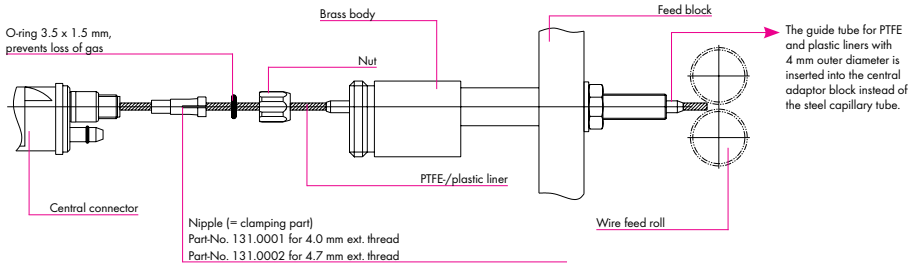
Type	Description	Part-No.
Central adaptor KZ-2	for MB ERGO / MB GRIP / ABIMIG® GRIP A LW 155-355 / ABIMIG® A T LW 155-355 / RAB GRIP, air cooled	501.0003
Central adaptor WZ-2	for MB ERGO / MB GRIP / ABIMIG® / Push-Pull Plus / RAB GRIP, liquid cooled	501.0015
Central adaptor GZ-2	for Push-Pull Plus, air 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.

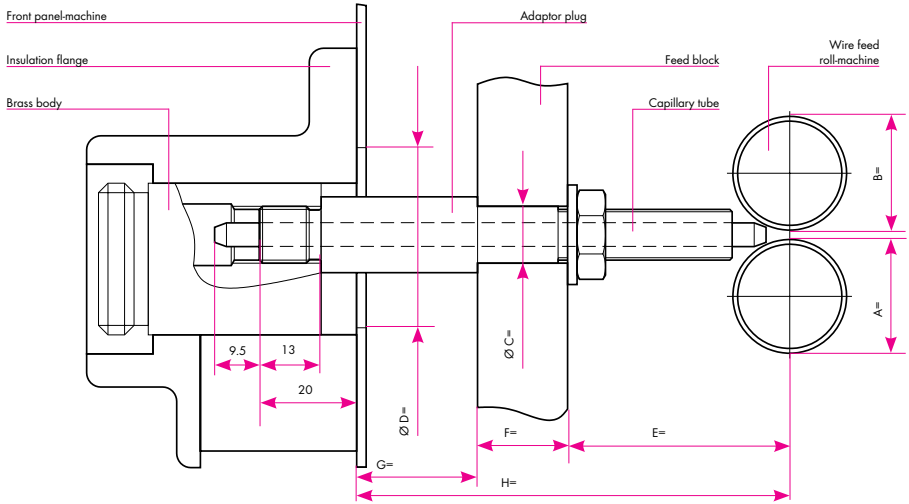


# Central adaptor and central connector system

## 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 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>		

### Sender

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

Name:	
Phone:	
Fax:	
Date:	
Signature:	

### Hint:

Copy this page so you can use it several times.





# ALPHA FLUX

## FCAW Welding Torches air cooled

- ALPHA FLUX

# Welding Torches "ALPHA FLUX"

## Rating up to 330 A

ALPHA FLUX – the new generation of Flux-Cored Self Shielding Welding Torches – suitable for extreme applications in pipeline construction, cladding and rail joint welding as well as at repair work.

Equipped with interchangeable torch neck, fixable at all angles as well as with the heavy duty highly flexible coaxial cable BIKOX® R for applications down to -30° C, the ALPHA FLUX offers optimal handling.

- Interchangeable torch neck, fixable at all angles
- Silver-plated contact tips – low spatter adhesion
- Optional additional switch for adjustment of welding current
- Highly flexible coaxial cable BIKOX® R for applications
  - down to -30° C
  - Changeable liner
  - Torch protection caps for different wire sizes



### Welding Torches "ALPHA FLUX"

#### Technical Data (IEC EN 60 974-7):

Rating: 330 A with self shielding Flux-Cored Wire  
 Duty cycle: 60% ED  
 Wire size: 1.2 - 2.4

#### Torch neck 65° bent Standard version



Part-No. 013.D144

X = 108 mm  
Y = 115 mm

#### Torch neck 90° bent



Part-No. 013.D136

X = 85 mm  
Y = 157 mm

#### Torch neck 45° bent



Part-No. 013.D169

X = 280 mm  
Y = 70 mm

Torch complete Type	Connection	Part-No.	
		3 m	4,5 m
ALPHA FLUX 350 KZ-2	Standard	013.D160	013.D161
ALPHA FLUX 350 LN	Standard <sup>1)</sup>	013.D152	013.D153
ALPHA FLUX 350 KZ-2	with welding current switch <sup>2)</sup>	013.D158	013.D159
ALPHA FLUX 350 LN	with welding current switch <sup>1) 2)</sup>	013.D164	013.D165

<sup>1</sup> LN=applicable for wire feeding devices LINCOLN.

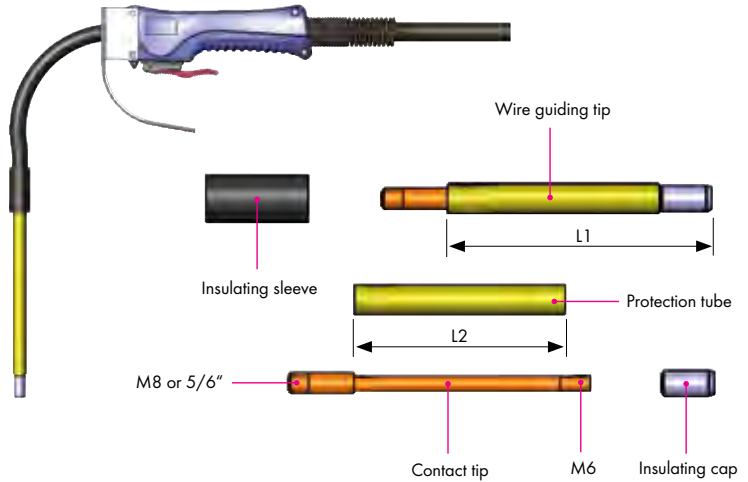
<sup>2</sup> Control lead without plug for additional switch.

# Welding Torches "ALPHA FLUX"

## Wire guiding tips for narrow gap applications

Wire guiding tip and insulation sleeve are to be exchanged against contact tip on ceramic insulator of ALPHA FLUX 350.

Denomination	L1	L2	Part-No.
Insulating sleeve	-	-	013.D155
Wire guiding tip M8 / 180 cpl.	183 mm	-	140.D075
Contact tip M8 / 1.2 - 2.0 / 180	-	-	140.D122
Wire guiding tip M8 / 90 cpl.	100 mm	-	140.D076
Contact tip M8 / 1.2 - 2.0 / 90	-	-	140.D123
Wire guiding tip 5/6" / 180 cpl.	183 mm	-	140.D077
Contact tip 5/6" / 1.2 - 2.0 / 180	-	-	140.D120
Wire guiding tip 5/6" / 90 cpl.	100 mm	-	140.D078
Contact tip 5/6" / 1.2 - 2.0 / 90	-	-	140.D121
Protection tube for tip 180	-	600.2002	140.D124
Protection tube for tip 90	-	632.2009	140.D125
Insulating cap	-	-	140.D126





# TIG Welding Torches

## TIG Welding Torches

- ABITIG® GRIP 9 / ABITIG® GRIP 20
- ABITIG® GRIP 17 / ABITIG® GRIP 18 / ABITIG® GRIP 26
- ABITIG® GRIP 24 G / ABITIG® GRIP 24 W
- ABITIG® GRIP 12-1
- ABITIG® GRIP 18 SC
- ABITIG® 9 V and FV / ABITIG® 17 V and FV / ABITIG® 26 V and FV
- ABITIG® GRIP Little 90 / 180 W
- ABITIG® GRIP 150 / ABITIG® GRIP 260 W
- ABITIG® GRIP 200 / ABITIG® GRIP 450 W / ABITIG® GRIP 450 W SC
- ABITIG® GRIP 500 W
- ABITIG® GRIP Little 9 / 9 F / 20 / 20 F
- ABITIG® GRIP Little 17 / 24 G / 24 W
- ABITIG® GRIP Little 90 / 150 / 150 F / 260 W / 180 W
- ABITIG® 150 MT / ABITIG® 260 W MT / ABITIG® 200 MT /
- ABITIG® 300 W MT / ABITIG® 400 W MT / ABITIG® 500 W MT

## Accessories

- Tungsten electrodes

## TIG Cold Wire

- Cold Wire Feeder System "ABIDRIVE-CW"
- ABITIG® 260 W / ABITIG® 450 W / ABITIG® 260 W MT /
- ABITIG® 300 W MT / ABITIG® 400 W MT / ABITIG® 500 W MT

## Component Kits

- ABITIG® 9 / 12-1 / 17 / 18 / 18 SC / 20 / 24 G / 24 W / 26 ABITIG® 150 / 200 / 260 W / 450 W / 450 W SC

## Spare Parts

- Power cables, Control cables, Hoses
- Handles and Modules

# TIG Welding Torches "ABITIG® GRIP"

## air and liquid cooled

ABITIG® GRIP – the complete solution in the field of TIG welding torches. This range represents a logical development of the ABITIG® torch range, which has distinguished itself by its consistent implementation of modular design and optimum ergonomics.

The torches in various ratings, both air and liquid cooled, are fitted with a uniform ergonomic handle with "GRIP" and optimised cable assembly management, into which numerous switch and control functions can be integrated. All consumables are compatible to the international "SR-Standard".

The flexible cable assemblies are available with modular and robust machine-side connections.

- One ergonomic handle with "GRIP" for all ABITIG® GRIP torch types – offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle – individually and ergonomically
- Short ball joint for optimum movement radius and ideal handling
- Light and flexible cable assemblies with modular machine-side connections for most available TIG welding power sources
- Consumables compatible to the international standard



### ABITIG® GRIP 9

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

Type of cooling:	air cooled
Rating:	110 A DC
	80 A AC
Duty cycle:	35%
Tungsten electrodes:	Ø 0.5-1.6 mm

### ABITIG® GRIP 20

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	240 A DC
	170 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 0.5-3.2 mm

<sup>1</sup> Torch input pressure:  
Min. 2.5 bar (max. 3.5 bar);  
Min. flow rate: 0.7 l/min.




Technical data based on cable assembly lengths of up to 8.00 m.



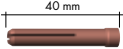
Torch complete Type	Cooling	Part-No.	Torch body	
			Version	Part-No.
ABITIG® GRIP 9	air cooled	see comment <sup>2</sup>	Standard; 46.0 mm	712.5020
ABITIG® GRIP 9 F	air cooled	see comment <sup>2</sup>	Flexible; 46.0 mm	712.5030
ABITIG® GRIP 20	liquid cooled	see comment <sup>2</sup>	Standard; 46.0 mm	712.3020
ABITIG® GRIP 20 F	liquid cooled	see comment <sup>2</sup>	Flexible; 46.0 mm	712.3030
ABITIG® GRIP 20 F	liquid cooled	see comment <sup>2</sup>	Flexible; 75.0 mm	712.3040.1
ABITIG® GRIP 20 F	liquid cooled	see comment <sup>2</sup>	Flexible; 110.0 mm	712.3050.1

<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).




# ABITIG® GRIP 9, ABITIG® GRIP 20




## Wear parts



			
<b>Back cap</b> (10 pcs.)	<b>Short</b>	<b>Medium</b>	<b>Long</b>
	701.0240 / 41V33	701.0244 / 41V35	701.0247 / 41V24

			
	25 mm	25 mm	40 mm
<b>Collet</b> (10 pcs.)	<b>Standard version</b>	<b>Brass version</b>	<b>Jumbo version</b>
Ø 0.5 mm	701.0249 / 13N20	701.1060	701.1225 / 13N20L
Ø 1.0 mm	701.0250 / 13N21	701.1061	701.1226 / 13N21L
Ø 1.2 mm	701.0254 / -	-	-
Ø 1.6 mm	701.0251 / 13N22	701.1019	701.1227 / 13N22L
Ø 2.0 mm	701.0255 / -	-	-
Ø 2.4 mm	701.0252 / 13N23	701.1020	701.1228 / 13N23L
Ø 3.2 mm	701.0253 / 13N24	701.1063	701.1229 / 13N24L

		
<b>Insulating ring / Adaptor</b>	<b>Insulating ring</b> (10 pcs.)	<b>Adaptor</b> (5 pcs.)
	702.0055 / 598882	701.1234 / 54N63-20

			
<b>Collet body</b>	<b>Standard version</b> (10 pcs.)	<b>Standard version with gas lens</b> (10 pcs.)	<b>Jumbo version with gas lens</b> (5 pcs.)
Ø 0.5-1.0 mm	701.0275 / 13N26	701.0301 / 45V42	701.1230 / 45V0204S
Ø 1.2 mm	701.0279 / -	701.0313 / -	-
Ø 1.6 mm	701.0276 / 13N27	701.0307 / 45V43	701.1231 / 45V116S
Ø 2.0 mm	701.0280 / -	701.0315 / -	-
Ø 2.4 mm	701.0277 / 13N28	701.0309 / 45V44	701.1232 / 45V64S
Ø 3.2 mm	701.0278 / 13N29	701.0311 / 45V45	701.1233 / 99S795S

			
	30 mm	25.5 mm	48 mm
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Standard version for gas lens</b>	<b>Jumbo version for gas lens</b>
No. 4 Ø 6.5 mm	701.0281 / 13N08	701.0317 / 53N58	-
No. 5 Ø 8.0 mm	701.0282 / 13N09	701.0318 / 53N59	-
No. 6 Ø 9.5 mm	701.0283 / 13N10	701.0319 / 53N60	701.1199 / 57N75
No. 7 Ø 11.0 mm	701.0284 / 13N11	701.0320 / 53N61	-
No. 8 Ø 12.5 mm	701.0285 / 13N12	701.0322 / 53N61S	701.1200 / 57N74
No. 10 Ø 16.0 mm	701.0286 / 13N13	-	701.1201 / 53N88
No. 12	-	-	701.1121 / 53N87

		
	X1	34 mm
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Jumbo version for gas lens<sup>1</sup></b>
No. 4 Ø 6.5 mm 48 mm	701.0289 / 796F71	701.1202 / 53N89
No. 5 Ø 8.0 mm 48 mm	701.0290 / 796F72	
No. 6 Ø 9.5 mm 48 mm	701.0291 / 796F73	
No. 4 Ø 6.5 mm 63 mm	701.0293 / 796F75	
No. 5 Ø 8.0 mm 63 mm	701.0294 / 796F76	
No. 4 Ø 6.5 mm 89 mm	701.0296 / 796F79	

<sup>1</sup> not suitable for high frequency

# TIG Welding Torches "ABITIG® GRIP"

## air and liquid cooled



- One ergonomic handle with "GRIP" for all ABITIG® GRIP torch types – offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle – individually and ergonomically
- Short ball joint for optimum movement radius and ideal handling
- Light and flexible cable assemblies with modular machine-side connections for most available TIG welding power sources
- Consumables compatible to the international standard

### ABITIG® GRIP 17

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

Type of cooling: air cooled  
 Rating: 140 A DC  
 100 A AC  
 Duty cycle: 35 %  
 Tungsten electrodes: Ø 0.5–2.4 mm

### ABITIG® GRIP 18

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

Type of cooling: liquid cooled<sup>1</sup>  
 Rating: 320 A DC  
 230 A AC  
 Duty cycle: 100 %  
 Tungsten electrodes: Ø 0.5–4.0 mm

<sup>1</sup>Torch input pressure:  
 Min. 2.5 bar (max. 3.5 bar);  
 Min. flow rate: 0.9 l/min.

### ABITIG® GRIP 26

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

Type of cooling: air cooled  
 Rating: 180 A DC  
 130 A AC  
 Duty cycle: 35 %  
 Tungsten electrodes: Ø 0.5–4.0 mm

Technical data based on cable assembly lengths of up to 8.00 m.

Torch complete			Torch body	
Type	Cooling	Part-No.	Version	Part-No.
ABITIG® GRIP 17	air cooled	see comment <sup>2</sup>	Standard; 65.0 mm	712.1020
ABITIG® GRIP 17 F	air cooled	see comment <sup>2</sup>	Flexible; 65.0 mm	712.1030
ABITIG® GRIP 18	liquid cooled	see comment <sup>2</sup>	Standard; 69.0 mm	712.2020
ABITIG® GRIP 18 F	liquid cooled	see comment <sup>2</sup>	Flexible; 69.0 mm	712.2030
ABITIG® GRIP 18 K	liquid cooled	see comment <sup>2</sup>	Short; 59.0 mm	712.2230
ABITIG® GRIP 26	air cooled	see comment <sup>2</sup>	Standard; 79.0 mm	712.4020
ABITIG® GRIP 26 F	air cooled	see comment <sup>2</sup>	Flexible; 79.0 mm	712.4030
ABITIG® GRIP 26 K	air cooled	see comment <sup>2</sup>	Short; 59.0 mm	712.4230



<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).









# ABITIG® GRIP 17, ABITIG® GRIP 18, ABITIG® GRIP 26

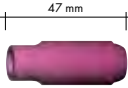

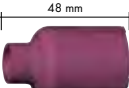
## Wear parts

		
<b>Back cap</b> (10 pcs.)	<b>Short</b> 712.1053	<b>Long</b> 712.1051

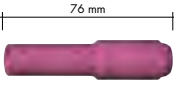
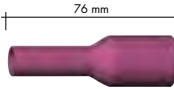

		
<b>Collet</b> (10 pcs.)	<b>Version</b> (50 mm)	<b>Version</b> (52 mm)
Ø 0.5 mm	702.0005 / 10N21	701.0169 / 10N21D
Ø 1.0 mm	702.0006 / 10N22	701.0171 / 10N22D
Ø 1.2 mm	702.0007 / -	701.0170 / -
Ø 1.6 mm	702.0008 / 10N23	701.0172 / 10N23D
Ø 2.0 mm	702.0012 / -	701.0176 / -
Ø 2.4 mm	702.0009 / 10N24	701.0173 / 10N24D
Ø 3.2 mm	702.0010 / 10N25	701.0174 / 10N25D
Ø 4.0 mm	702.0011 / 54N20	701.0175 / 54N20D

			
<b>Insulating ring / Adaptor</b>	<b>Insulating ring</b> (10 pcs.) 703.0012 / 18CG	<b>Adaptor</b> (10 pcs.) 701.0130 / 54N01	<b>Adaptor</b> (5 pcs.) 701.1122 / 54N63

			
<b>Collet body</b>	<b>Standard version</b> (10 pcs.)	<b>Standard version with gas lens</b> (10 pcs.)	<b>Jumbo version with gas lens</b> (5 pcs.)
Ø 0.5–1.2 mm	701.0190 / 10N30	701.0201 / 45V24	-
Ø 1.6 mm	701.0191 / 10N31	701.0203 / 45V25	701.1116 / 45V116
Ø 2.0 mm	701.0196 / 10N32	701.0207 / 45V26	-
Ø 2.4 mm	701.0196 / 10N32	701.0207 / 45V26	701.1117 / 45V64
Ø 3.2 mm	701.0197 / 10N28	701.0209 / 45V27	701.1118 / 995795
Ø 4.0 mm	701.0198 / 406488	701.0211 / 45V28	701.1208 / 45V63

			
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Standard version for gas lens</b>	<b>Jumbo version for gas lens</b>
No. 4 Ø 6.5 mm	701.0107 / 10N50	701.0420 / 54N18	-
No. 5 Ø 8.0 mm	701.0108 / 10N49	701.0421 / 54N17	-
No. 6 Ø 9.5 mm	701.0109 / 10N48	701.0422 / 54N16	701.1199 / 57N75
No. 7 Ø 11.0 mm	701.0110 / 10N47	701.0423 / 54N15	-
No. 8 Ø 12.5 mm	701.0111 / 10N46	701.0424 / 54N14	701.1200 / 57N74
No. 10 Ø 16.0 mm	701.0113 / 10N45	-	701.1201 / 53N88
No. 12 Ø 19.5 mm	701.0114 / 10N44 <sup>1</sup>	701.0426 / 54N19	701.1121 / 53N87

<sup>1</sup> 50 mm long

			
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Standard version for gas lens</b>	<b>Jumbo version for gas lens<sup>2</sup></b>
No. 5 Ø 8.0 mm	701.0115 / 10N49L	701.0427 / 54N17L	-
No. 6 Ø 9.5 mm	701.0116 / 10N48L	701.0428 / 54N16L	-
No. 7 Ø 11.0 mm	701.0117 / 10N47L	701.0429 / 54N15L	-
Ø 24.0 mm	-	-	701.1202 / 53N89

<sup>2</sup> not suitable for high frequency

TIG

# TIG Welding Torches "ABITIG® GRIP"

## air and liquid cooled

- One ergonomic handle with "GRIP" for all ABITIG® GRIP torch types – offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle – individually and ergonomically
- Short ball joint for optimum movement radius and ideal handling
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- Consumables compatible to the international standard



### ABITIG® GRIP 24 G

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

Type of cooling:	air cooled
Rating:	110 A DC 80 A AC
Duty cycle:	35%
Tungsten electrodes:	Ø 0.5–1.6 mm

### ABITIG® GRIP 24 W

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	140 A DC 100 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 0.5–2.4 mm

<sup>1</sup> Torch input pressure:  
Min. 2.5 bar (max. 3.5 bar);  
Min. flow rate: 0.7 l/min.

Technical data based on cable assembly lengths of up to 8.00 m.

Torch complete			Torch body	
Type	Cooling	Part-No.	Version	Part-No.
ABITIG® GRIP 24 G	air cooled	see comment <sup>2</sup>	Standard; 55.0 mm	712.7020
ABITIG® GRIP 24 W	liquid cooled	see comment <sup>2</sup>	Standard; 55.0 mm	712.7120

<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).

# ABITIG® GRIP 24 G, ABITIG® GRIP 24 W

## Wear parts



**Insulating sleeve**

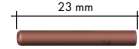


**Insulator for gas lens**

**Insulating sleeve /  
Insulator** (10 pcs.)

701.0458 / 53N22

701.0459 / 53N66



**Collet** (10 pcs.)

**Standard version**

**Standard version for gas lens**

Ø 0.5 mm	701.0452 / 53N15	-
Ø 1.0 mm	701.0453 / 53N16	701.0462 / 53N63
Ø 1.2 mm	701.0455 / -	701.0464 / -
Ø 1.6 mm	701.0454 / 53N14	701.0463 / 54N64
Ø 2.0 mm	701.0456 / -	701.0466 / -
Ø 2.4 mm	701.0457 / 24C332	701.0465 / 24GLC332



**Standard version**



**Standard version with gas lens**

**Collet body** (10 pcs.)

Ø 0.5 mm	701.0479 / 53N17	701.0301 / 45V41
Ø 1.0 mm	701.0480 / 53N18	701.0301 / 45V42
Ø 1.2 mm	701.0483 / -	701.0313 / -
Ø 1.6 mm	701.0481 / 53N19	701.0307 / 45V43
Ø 2.0 mm	701.0484 / -	701.0315 / -
Ø 2.4 mm	701.0482 / 24CB332	701.0309 / 45V44



**Standard version**



**Standard version for gas lens**

**Gas nozzle, ceramic**  
(10 pcs.)

No. 4 Ø 6.5 mm	701.0468 / 53N24	701.0317 / 53N58
No. 5 Ø 8.0 mm	701.0469 / 53N25	701.0318 / 53N59
No. 6 Ø 9.5 mm	701.0470 / 53N27	701.0319 / 53N60
No. 7 Ø 11.0 mm	-	701.0320 / 53N61



**Standard version**

**Gas nozzle, ceramic**  
(10 pcs.) **X1**

No. 4L Ø 6.5 mm 29.0 mm	701.0471 / 53N28
No. 6L Ø 9.5 mm 29.0 mm	701.0472 / 53N26
No. 4L Ø 6.5 mm 62.5 mm	701.0473 / 53N24L
No. 5L Ø 8.0 mm 91.5 mm	701.0474 / 53N27L

# TIG Welding Torches "ABITIG® GRIP"

## liquid cooled

- One ergonomic handle with "GRIP" for all ABITIG® GRIP torch types – offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle – individually and ergonomically
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### ABITIG® GRIP 12-1

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	350 A DC 250 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 1.6–4.0 mm

<sup>1</sup> Torch input pressure:

- Min. 2.5 bar (max. 3.5 bar);
- Min. flow rate: 0.7 l/min.



Technical data based on cable assembly lengths of up to 8.00 m.

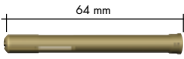
Torch complete		Torch body		
Type	Cooling	Part-No.	Version	Part-No.
ABITIG® GRIP 12-1	liquid cooled	see comment <sup>2</sup>	Standard; 70.0 mm	712.0020



<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).

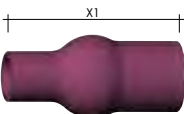
# ABITIG® GRIP 12-1

## Wear parts

		
	<b>Short</b>	<b>Long</b>
<b>Back cap</b> (1 pc.)	712.0053	712.0051

	
	<b>Standard version</b>
<b>Collet</b> (10 pcs.)	712.0062
Ø 1.6 mm	712.0063
Ø 2.4 mm	712.0064
Ø 3.2 mm	712.0065
Ø 4.0 mm	712.0065

		
	<b>Standard version</b>	<b>Standard version with gas lens</b>
<b>Collet body</b> (10 pcs.)	712.0072	712.0101
Ø 1.6 mm	712.0073	712.0102
Ø 2.4 mm	712.0074	712.0103
Ø 3.2 mm	712.0075	712.0104
Ø 4.0 mm		

	
	<b>Standard version</b>
<b>Gas nozzle, ceramic</b> (10 pcs.) <b>X1</b>	704.0046 / <b>130.00</b>
No. 4 Ø 6.5 mm 43 mm	704.0047 / <b>131.00</b>
No. 5 Ø 8.0 mm 43 mm	704.0048 / <b>132.00</b>
No. 6 Ø 9.5 mm 43 mm	704.0049 / <b>133.00</b>
No. 7 Ø 11.0 mm 43 mm	704.0050 / <b>134.00</b>
No. 8 Ø 12.5 mm 43 mm	704.0051 / <b>135.00</b>
No. 9 Ø 14.5 mm 43 mm	704.0052 / <b>136.00</b>
No. 10 Ø 16.0 mm 43 mm	704.0053 / <b>137.00</b>
No. 11 Ø 17.5 mm 48 mm	

# TIG Welding Torches "ABITIG® GRIP" liquid cooled

- One ergonomic handle with "GRIP" for all ABITIG® GRIP torch types – offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle – individually and ergonomically
- Short ball joint for optimum movement radius and ideal handling
- Light and flexible cable assemblies with modular machine-side connections for all available TIG welding power sources
- Consumables compatible to the international standard



## ABITIG® GRIP 18 SC

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	400 A DC 280 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 0.5–4.8 mm

<sup>1</sup> Torch input pressure:  
Min. 2.5 bar (max. 3.5 bar);  
Min. flow rate: 0.9 l/min.

Technical data based on cable assembly lengths of up to 8.00 m.

Torch complete		Torch body		
Type	Cooling	Part-No.	Version	Part-No.
ABITIG® GRIP 18 SC	liquid cooled	see comment <sup>2</sup>	Standard; 75.0 mm	712.6020

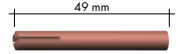
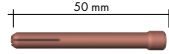
<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).

# ABITIG® GRIP 18 SC

## Wear parts



Back cap (10 pcs.)	Short	Long
	712.1053	712.1051



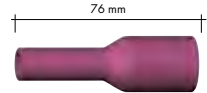
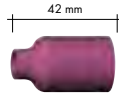
Collet (10 pcs.)	Standard version	HL version <sup>1</sup>
Ø 0.5 mm	702.0005 / 10N21	-
Ø 1.0 mm	702.0006 / 10N22	-
Ø 1.6 mm	702.0008 / 10N23	-
Ø 2.4 mm	702.0009 / 10N24	-
Ø 3.2 mm	702.0010 / 10N25	712.6064 / 10N25HD
Ø 4.0 mm	-	712.6065 / 54N20HD
Ø 4.8 mm	-	712.6066 / 18C36



Insulating ring (5 pcs.)	Insulating ring
	712.6043 / 18NG



Collet body (10 pcs.)	Standard version	Standard version with gas lens	HL version <sup>1</sup>
Ø 0.5 mm	-	712.6099 / 18GL02	-
Ø 1.0 mm	-	712.6100 / 18GL04	-
Ø 1.6 mm	-	712.6101 / 18GL16	-
Ø 2.4 mm	-	712.6102 / 18GL32	-
Ø 3.2 mm	-	712.6103 / 18GL18	-
Ø 4.0 mm	-	712.6104 / 18GL53	-
Ø 4.8 mm	-	712.6105 / 18GL36	-
Ø 0.5-3.2 mm	712.6074 / NCB-53	-	-
Ø 3.2-4.8 mm	-	-	712.6076 / NCB-36



Gas nozzle, ceramic (10 pcs.)	Standard version	Standard version
No. 4 Ø 6.5 mm	701.0420 / 54N18	-
No. 5 Ø 8.0 mm	701.0421 / 54N17	701.0427 / 54N17L
No. 6 Ø 9.5 mm	701.0422 / 54N16	701.0428 / 54N16L
No. 7 Ø 11.0 mm	701.0423 / 54N15	701.0429 / 54N15L
No. 8 Ø 12.5 mm	701.0424 / 54N14	-
No. 12 Ø 19.5 mm	701.0426 / 54N19	-

<sup>1</sup> Please note: HL = Heavy duty version

# TIG Welding Torches "ABITIG®" with rotary valve

## air cooled

- Rotary valve for regulating gas mounted directly on the torch body
- Light and flexible cable assemblies for all common TIG welding power sources
- Consumables compatible to the international standard



ABITIG® 9 V

### ABITIG® 9 V / FV<sup>1</sup>

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

Type of cooling: air cooled  
 Rating: 110 A DC  
 80 A AC  
 Duty cycle: 35%  
 Tungsten electrodes: Ø 0.5–1.6 mm

<sup>1</sup> FV = Torch body (with rotary valve)  
 Flexible

Torch complete		Part-No.		Torch body	
Type	Version <sup>2</sup>	4 m	8 m	Type	Part-No.
ABITIG® 9 V	Rotary valve / Plug 10-25	706.5057	706.5058	Standard; 60.0 mm	705.0007
ABITIG® 9 FV	Rotary valve / Plug 10-25	on demand	on demand	Flexible; 78.0 mm	703.0311.1




<sup>2</sup> Power cable / gas hose separate, gas hose with G1/4" union nut. Other versions available on request.



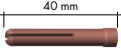
Wear parts - back cap, collet, collet body, adaptor, insulating ring and gas nozzle - are identical with those of the same type for ABITIG® torches.







# ABITIG® GRIP 9, ABITIG® GRIP 20




## Wear parts



			
<b>Back cap</b> (10 pcs.)	<b>Short</b>	<b>Medium</b>	<b>Long</b>
	701.0240 / 41V33	701.0244 / 41V35	701.0247 / 41V24

			
	25 mm	25 mm	40 mm
<b>Collet</b> (10 pcs.)	<b>Standard version</b>	<b>Brass version</b>	<b>Jumbo version</b>
Ø 0.5 mm	701.0249 / 13N20	701.1060	701.1225 / 13N20L
Ø 1.0 mm	701.0250 / 13N21	701.1061	701.1226 / 13N21L
Ø 1.2 mm	701.0254 / -	-	-
Ø 1.6 mm	701.0251 / 13N22	701.1019	701.1227 / 13N22L
Ø 2.0 mm	701.0255 / -	-	-
Ø 2.4 mm	701.0252 / 13N23	701.1020	701.1228 / 13N23L
Ø 3.2 mm	701.0253 / 13N24	701.1063	701.1229 / 13N24L

		
<b>Insulating ring / Adaptor</b>	<b>Insulating ring</b> (10 pcs.)	<b>Adaptor</b> (5 pcs.)
	702.0055 / 598882	701.1234 / 54N63-20

			
<b>Collet body</b>	<b>Standard version</b> (10 pcs.)	<b>Standard version with gas lens</b> (10 pcs.)	<b>Jumbo version with gas lens</b> (5 pcs.)
Ø 0.5-1.0 mm	701.0275 / 13N26	701.0301 / 45V42	701.1230 / 45V0204S
Ø 1.2 mm	701.0279 / -	701.0313 / -	-
Ø 1.6 mm	701.0276 / 13N27	701.0307 / 45V43	701.1231 / 45V116S
Ø 2.0 mm	701.0280 / -	701.0315 / -	-
Ø 2.4 mm	701.0277 / 13N28	701.0309 / 45V44	701.1232 / 45V64S
Ø 3.2 mm	701.0278 / 13N29	701.0311 / 45V45	701.1233 / 99S795S

			
	30 mm	25.5 mm	48 mm
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Standard version for gas lens</b>	<b>Jumbo version for gas lens</b>
No. 4 Ø 6.5 mm	701.0281 / 13N08	701.0317 / 53N58	-
No. 5 Ø 8.0 mm	701.0282 / 13N09	701.0318 / 53N59	-
No. 6 Ø 9.5 mm	701.0283 / 13N10	701.0319 / 53N60	701.1199 / 57N75
No. 7 Ø 11.0 mm	701.0284 / 13N11	701.0320 / 53N61	-
No. 8 Ø 12.5 mm	701.0285 / 13N12	701.0322 / 53N61S	701.1200 / 57N74
No. 10 Ø 16.0 mm	701.0286 / 13N13	-	701.1201 / 53N88
No. 12	-	-	701.1121 / 53N87

		
	X1	34 mm
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Jumbo version for gas lens<sup>1</sup></b>
No. 4 Ø 6.5 mm 48 mm	701.0289 / 796F71	701.1202 / 53N89
No. 5 Ø 8.0 mm 48 mm	701.0290 / 796F72	
No. 6 Ø 9.5 mm 48 mm	701.0291 / 796F73	
No. 4 Ø 6.5 mm 63 mm	701.0293 / 796F75	
No. 5 Ø 8.0 mm 63 mm	701.0294 / 796F76	
No. 4 Ø 6.5 mm 89 mm	701.0296 / 796F79	

<sup>1</sup> not suitable for high frequency

# TIG Welding Torches "ABITIG®" with rotary valve air cooled

- Rotary valve for regulating gas mounted directly on the torch body
- Light and flexible cable assemblies for all common TIG welding power sources
- Consumables compatible to the international standard



ABITIG® 26 V

## ABITIG® 17 V / FV<sup>1</sup>

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

Type of cooling: air cooled  
 Rating: 140 A DC  
 100 A AC  
 Duty cycle: 35%  
 Tungsten electrodes: Ø 0.5–2.4 mm

## ABITIG® 26 V / FV<sup>1</sup>

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

Type of cooling: air cooled  
 Rating: 180 A DC  
 130 A AC  
 Duty cycle: 35%  
 Tungsten electrodes: Ø 0.5–4.0 mm

<sup>1</sup> FV = Torch body (with rotary valve)  
 Flexible



Torch complete		Part-No.		Torch body	
Type	Version <sup>2</sup>	4 m	8 m	Type	Part-No.
ABITIG® 17 V	Rotary valve / Plug 10-25	706.1057	706.1058	Standard; 65.0 mm	705.0038
ABITIG® 17 V	Rotary valve / Plug 35-50	706.1037	706.1038	Standard; 65.0 mm	705.0038
ABITIG® 17 FV	Rotary valve / Plug 10-25	706.1157	706.1158	Flexible; 80.0 mm	703.0010
ABITIG® 17 FV	Rotary valve / Plug 35-50	706.1137	706.1138	Flexible; 80.0 mm	703.0010
ABITIG® 26 V	Rotary valve / Plug 35-50	706.4037	706.4038	Standard; 80.0 mm	705.0091
ABITIG® 26 FV	Rotary valve / Plug 35-50	706.4137	706.4138	Flexible; 80.0 mm	703.0290



<sup>2</sup> Power cable / gas hose separate, gas hose with G1/4" union nut. Other versions available on request.




Wear parts – back cap, collet, collet body, adaptor, insulating ring and gas nozzle – are identical with those of the same type for ABITIG® torches.




# ABITIG® GRIP 17, ABITIG® GRIP 18, ABITIG® GRIP 26

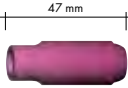

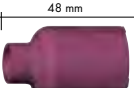
## Wear parts

		
<b>Back cap</b> (10 pcs.)	<b>Short</b> 712.1053	<b>Long</b> 712.1051

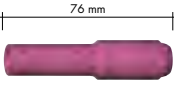
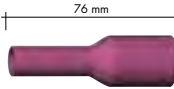
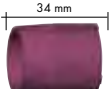
		
<b>Collet</b> (10 pcs.)	<b>Version</b> (50 mm)	<b>Version</b> (52 mm)
Ø 0.5 mm	702.0005 / 10N21	701.0169 / 10N21D
Ø 1.0 mm	702.0006 / 10N22	701.0171 / 10N22D
Ø 1.2 mm	702.0007 / -	701.0170 / -
Ø 1.6 mm	702.0008 / 10N23	701.0172 / 10N23D
Ø 2.0 mm	702.0012 / -	701.0176 / -
Ø 2.4 mm	702.0009 / 10N24	701.0173 / 10N24D
Ø 3.2 mm	702.0010 / 10N25	701.0174 / 10N25D
Ø 4.0 mm	702.0011 / 54N20	701.0175 / 54N20D

			
<b>Insulating ring / Adaptor</b>	<b>Insulating ring</b> (10 pcs.) 703.0012 / 18CG	<b>Adaptor</b> (10 pcs.) 701.0130 / 54N01	<b>Adaptor</b> (5 pcs.) 701.1122 / 54N63

			
<b>Collet body</b>	<b>Standard version</b> (10 pcs.)	<b>Standard version with gas lens</b> (10 pcs.)	<b>Jumbo version with gas lens</b> (5 pcs.)
Ø 0.5–1.2 mm	701.0190 / 10N30	701.0201 / 45V24	-
Ø 1.6 mm	701.0191 / 10N31	701.0203 / 45V25	701.1116 / 45V116
Ø 2.0 mm	701.0196 / 10N32	701.0207 / 45V26	-
Ø 2.4 mm	701.0196 / 10N32	701.0207 / 45V26	701.1117 / 45V64
Ø 3.2 mm	701.0197 / 10N28	701.0209 / 45V27	701.1118 / 995795
Ø 4.0 mm	701.0198 / 406488	701.0211 / 45V28	701.1208 / 45V63

			
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Standard version for gas lens</b>	<b>Jumbo version for gas lens</b>
No. 4 Ø 6.5 mm	701.0107 / 10N50	701.0420 / 54N18	-
No. 5 Ø 8.0 mm	701.0108 / 10N49	701.0421 / 54N17	-
No. 6 Ø 9.5 mm	701.0109 / 10N48	701.0422 / 54N16	701.1199 / 57N75
No. 7 Ø 11.0 mm	701.0110 / 10N47	701.0423 / 54N15	-
No. 8 Ø 12.5 mm	701.0111 / 10N46	701.0424 / 54N14	701.1200 / 57N74
No. 10 Ø 16.0 mm	701.0113 / 10N45	-	701.1201 / 53N88
No. 12 Ø 19.5 mm	701.0114 / 10N44 <sup>1</sup>	701.0426 / 54N19	701.1121 / 53N87

<sup>1</sup> 50 mm long

			
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Standard version for gas lens</b>	<b>Jumbo version for gas lens<sup>2</sup></b>
No. 5 Ø 8.0 mm	701.0115 / 10N49L	701.0427 / 54N17L	-
No. 6 Ø 9.5 mm	701.0116 / 10N48L	701.0428 / 54N16L	-
No. 7 Ø 11.0 mm	701.0117 / 10N47L	701.0429 / 54N15L	-
Ø 24.0 mm	-	-	701.1202 / 53N89

<sup>2</sup> not suitable for high frequency

TIG

# TIG Welding Torch "ABITIG® GRIP Little"

## air and liquid cooled

After having been welcomed by TIG welders all over the world for many years, the ABITIG® GRIP Little product range provides perfect access and optimum handling and now has been extended by adding the ABITIG® GRIP Little 90 as well as the ABITIG® GRIP Little 180 W torches.

The new ABITIG® GRIP Little 90 and 180 W torches with their small, ergonomic handle are the ideal solution in cases of particularly restricted access or demanding quality requirements. Nobody has to do without the well-known benefits of this torch series:

- Ergonomic "GRIP" handles for a reliable grip and a perfect feel
- Modular switching and control functions in the handle – personalised and user-friendly
- Excellent HF security
- Lightweight and flexible cable-hose assemblies with modular connectors to most standard TIG welding equipment at the machine end
- Optimised service life due to a significantly larger current and process temperature transfer area
- Reduced stocking requirements – just three spare parts



### ABITIG® GRIP Little 90

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

Type of cooling:	air cooled
Rating:	90 A DC 60 A AC
Duty cycle:	35 %
Tungsten electrodes:	Ø 1.0–1.6 mm

### ABITIG® GRIP Little 180 W

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	180 A DC 130 A AC
Duty cycle:	100 %
Tungsten electrodes:	Ø 1.0–3.2 mm

<sup>1</sup>Torch input pressure:  
Min. 2.5 bar (max. 3.5 bar);  
Min. flow rate: 0.7 l/min.

Technical data based on cable assembly lengths of up to 8.00 m.

Torch complete		Torch body		
Type	Cooling	Part-No.	Version	Part-No.
ABITIG® GRIP Little 90	air cooled	see comment <sup>2</sup>	Standard; 60.0 mm	770.0040.1
ABITIG® GRIP Little 180 W	liquid cooled	see comment <sup>2</sup>	Standard; 60.0 mm	772.0040.1

<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).

# ABITIG® GRIP Little 90, ABITIG® GRIP Little 180 W

## Wear parts



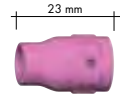
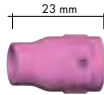
<b>Back cap</b>	<b>Short</b> (10 pcs.) 771.0053	<b>Standard</b> (1 pc.) 771.0051
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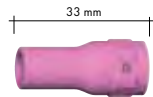
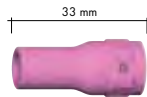
<b>Spring</b> (10 pcs.)	771.0037	
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<b>Electrode holder/ Gas diffuser</b>	<b>Electrode holder</b> (5 pcs.)	<b>Gas diffuser</b> (1 pc.)	<b>Gas diffuser cylindrical</b> (1 pc.)
Ø 1.0 mm	771.0061	771.0111	-
Ø 1.6 mm	771.0062	771.0112	-
Ø 2.0 mm	771.0067	771.0117	-
Ø 2.4 mm	771.0063	771.0113	771.0123
Ø 3.2 mm	771.0064	771.0114	771.0124



<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard</b>	<b>Standard</b>
Ø 6.0 mm (No. 1)	771.0081	-
Ø 8.0 mm (No. 2)	771.0082	-
Ø 10.5 mm (No. 3)	771.0083	771.0083



<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Long</b>	<b>Long</b>
Ø 6.0 mm (No. 1)	771.2171	-
Ø 8.0 mm (No. 2)	771.2172	-
Ø 10.5 mm (No. 3)	771.2173	771.2173

# TIG Welding Torches "ABITIG® GRIP"

## air and liquid cooled

The ABITIG® GRIP line "ABICOR BINZEL-Style", air and liquid cooled, offer leading edge performance in a comfortable and light weight package. The cooling system guarantees long service life and enables the use of smaller tungsten electrodes through optimised heat dissipation.

The reduction in the quantity of consumables to only three components (back cap, electrode holder / gas diffuser and threaded gas nozzle) simplifies use and helps reduce stocking costs.

The innovative torch design prevents the heat from the gas nozzle reaching the torch body. This protects the torch, increases service life and further reduces operating costs.

The intelligent ABITIG® GRIP handle offers increased comfort due to the integration of numerous switching and control functions. Furthermore it is well protected against high frequency (HF) flashover.

- One ergonomic handle with "GRIP" for all ABITIG® GRIP torch types – offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle – individually and ergonomically
- Short ball joint for optimum movement radius and ideal handling
- Light and flexible cable assemblies with modular machine-side connections for most available TIG welding power sources
- Reduced storage costs with only three consumable parts



### ABITIG® GRIP 150 / ABITIG® GRIP 150 F

#### Technical data (EN 60 974-7) (with gas nozzle 36 mm):

Type of cooling:	air cooled
Rating:	150 A DC 105 A AC
Duty cycle:	35%
Tungsten electrodes:	Ø 1.0–2.4 mm

### ABITIG® GRIP 260 W

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	280 A DC / 260 A DC 195 A AC / 185 A AC
Duty cycle:	60% / 100%
Tungsten electrodes:	Ø 1.0–3.2 mm

<sup>1</sup> Torch input pressure:  
Min. 2.5 bar (max. 3.5 bar);  
Min. flow rate: 0.7 l/min.



Technical data based on cable assembly lengths of up to 8.00 m.

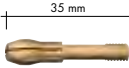
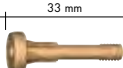
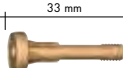
Torch complete		Torch body		
Type	Cooling	Part-No.	Version	Part-No.
ABITIG® GRIP 150	air cooled	see comment <sup>2</sup>	Standard; 60.0 mm	776.0010
ABITIG® GRIP 150 F	air cooled	see comment <sup>2</sup>	Flexible; 60.0 mm	776.0130
ABITIG® GRIP 260 W	liquid cooled	see comment <sup>2</sup>	Standard; 60.0 mm	777.0010



<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).


# ABITIG® GRIP 150, ABITIG® GRIP 260 W


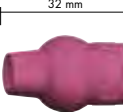
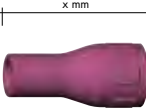

## Wear parts

		
<b>Back cap</b> (1 pc.)	<b>Short</b>	<b>Medium</b>
	776.0053	771.0051

			
<b>Electrode holder / Gas diffuser</b> (5 pcs.)	<b>Electrode holder</b>	<b>Gas diffuser</b>	<b>Gas diffuser</b>
Ø 1.0 mm	776.0061	776.0171	776.0171
Ø 1.6 mm	776.0062	776.0172	776.0172
Ø 2.0 mm	776.0067	776.0177	776.0177
Ø 2.4 mm	776.0063	776.0173	776.0173
Ø 3.2 mm	776.0064	776.0174	776.0174

		
<b>Insulator / Adaptor ring</b>	<b>Standard version</b>	<b>for gas diffuser</b>
	(10 pcs.)	(1 pc.)
Insulator	776.1043	776.0443
Adaptor ring	-	776.0441

	
<b>Gas diffuser</b> (1 pc.)	<b>Gas diffuser</b>
Ø 1.6 mm	775.0122
Ø 2.4 mm	775.0123
Ø 3.2 mm	775.0124

				
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>	<b>Ball version</b>	<b>Standard version</b>	<b>For gas diffuser</b>
			x = 36 mm x = 60 mm	
Ø 6.5 mm	777.0081	770.0081.10	777.2171 777.2175	-
Ø 8.0 mm	777.0082	770.0082.10	777.2172 777.2176	-
Ø 10.0 mm	777.0083	770.0083.10	777.2173 -	-
Ø 11.5 mm	777.0084	770.0084.10	777.2174 -	-
Ø 12.5 mm	-	-	-	778.1183
Ø 16.0 mm	-	-	-	778.1184
Ø 19.5 mm	-	-	-	778.1188

# TIG Welding Torches "ABITIG® GRIP"

## air and liquid cooled



- One ergonomic handle with "GRIP" for all ABITIG® GRIP torch types - offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle - individually and ergonomically
- Short ball joint for optimum movement radius and ideal handling
- Light and flexible cable assemblies with modular machine-side connections for most available TIG welding power sources
- Reduced storage costs with only three consumable parts

### ABITIG® GRIP 200 / ABITIG® GRIP 200 F

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

Type of cooling:	air cooled
Rating:	200 A DC 140 A AC
Duty cycle:	35%
Tungsten electrodes:	Ø 1.6-3.2 mm

### ABITIG® GRIP 450 W

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	420 A DC / 400 A DC 300 A AC / 280 A AC
Duty cycle:	60% / 100%
Tungsten electrodes:	Ø 1.6-4.8 mm

### ABITIG® GRIP 450 W SC

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	480 A DC / 450 A DC 340 A AC / 320 A AC
Duty cycle:	60% / 100%
Tungsten electrodes:	Ø 1.6-4.8 mm

<sup>1</sup> Torch input pressure:

Min. 2.5 bar (max. 3.5 bar);

Min. flow rate: 0.7 l/min.

Technical data based on cable assembly lengths of up to 8.00 m.

Torch complete			Torch body	
Type	Cooling	Part-No.	Version	Part-No.
ABITIG® GRIP 200	air cooled	see comment <sup>2</sup>	Standard; 80.0 mm	774.0010
ABITIG® GRIP 200 F	air cooled	see comment <sup>2</sup>	Flexible; 80.0 mm	774.0130
ABITIG® GRIP 200 K	air cooled	see comment <sup>2</sup>	Short; 60.0 mm	774.0230
ABITIG® GRIP 450 W	liquid cooled	see comment <sup>2</sup>	Standard; 80.0 mm	775.0010
ABITIG® GRIP 450 WK	liquid cooled	see comment <sup>2</sup>	Short; 60.0 mm	775.0230

The torch bodies (standard and short) for ABITIG® 450 W SC are identical with those for ABITIG® 450 W. The complete torches differ only in terms of the layout of the cable assembly.

<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches - this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).

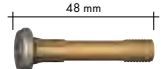
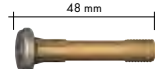


# ABITIG® GRIP 200, ABITIG® GRIP 450 W, ABITIG® GRIP 450 W SC

## Wear parts



<b>Back cap</b> (1 pc.)	<b>Short</b> 773.0053	<b>Medium</b> 773.0055.1	<b>Long</b> 773.0051
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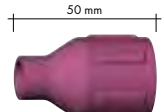
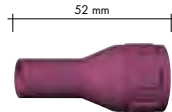
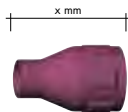
<b>Electrode holder / Gas diffuser</b> (5 pcs.)	<b>Electrode holder</b>	<b>Gas diffuser</b>	<b>Gas diffuser</b>
Ø 1.6 mm	775.0062	773.0172	773.0172
Ø 2.0 mm	775.0067	773.0177	773.0177
Ø 2.4 mm	775.0063	773.0173	773.0173
Ø 3.2 mm	775.0064	773.0174	773.0174
Ø 4.0 mm	775.0065	773.0175	773.0175
Ø 4.8 mm	775.0066	773.0176	773.0176



<b>Insulator</b> (1 pc.)	<b>Standard version</b> 775.1043	<b>For gas diffuser</b> 775.1143
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<b>Gas diffuser</b> (1 pc.)	<b>Gas diffuser</b>
Ø 1.6 mm	775.0122
Ø 2.4 mm	775.0123
Ø 3.2 mm	775.0124
Ø 4.0 mm	775.0125
Ø 4.8 mm	775.0126



<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard version</b>		<b>Standard version</b>	<b>For gas diffuser</b>
	x = 26 mm	x = 37 mm		
Ø 7.5 mm	-	775.0081	775.2171	-
Ø 10.0 mm	775.0152	775.0082	775.2172	-
Ø 12.5 mm	-	-	-	778.1183
Ø 13.0 mm	775.0153	775.0083	775.2173	-
Ø 13.0 mm (boosted)	-	775.0183	-	-
Ø 15.0 mm	-	775.0084	775.2174	-
Ø 15.0 mm (boosted)	-	775.0184	-	-
Ø 16.0 mm	-	-	-	778.1184
Ø 19.5 mm	-	-	-	778.1188

# TIG Welding Torch "ABITIG® GRIP" liquid cooled

In the upper performance level ABITIG® GRIP 500 W is the ideal solution and exceeds the product portfolio of the ABITIG® GRIP torch series in an optimal way. High performance welding for all thick sheet TIG welding applications.

This powerful torch offers all known advantages of the ABITIG® GRIP torch series:

- Best arc characteristics and reliable gas coverage up to 500 A
- Ergonomic "GRIP" handles for a reliable grip and a perfect feel

- Modular switching and control functions in the handle – personalised and user-friendly
- Short ball joint provides maximum mobility, flexibility and ideal handling
- Excellent HF security
- Lightweight and flexible cable-hose assemblies with modular connectors to all standard TIG welding equipment at the machine end
- Optimised service life due to a significantly larger current and process temperature transfer area
- Reduced stocking requirements – just three spare parts



## ABITIG® GRIP 500 W

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

Type of cooling:	liquid cooled <sup>1</sup>
Rating:	500 A DC 350 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 1.6–6.4 mm

<sup>1</sup>Torch input pressure:  
Min. 2.5 bar (max. 3.5 bar);  
Min. flow rate: 0.7 l/min.



Technical data based on cable assembly lengths of up to 8.00 m.


Torch complete Type	Cooling	Part-No.	Version	Torch body Part-No.
ABITIG® GRIP 500 W	liquid cooled	see comment <sup>2</sup>	Standard; 79.0 mm	775.0041.1

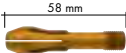
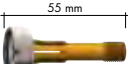
<sup>2</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).


# ABITIG® GRIP 500 W

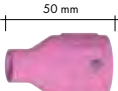
## Wear parts

		
<b>Back cap</b> (1 pc.)	<b>Short</b> 775.0053.1	<b>Standard</b> 775.0051.1

	
<b>Insulator</b> (1 pc.)	<b>Insulator</b> 775.0058.1

		
<b>Electrode holder/ Gas diffuser</b> (1 pc.)	<b>Electrode holder</b>	<b>Gas diffuser</b>
Ø 1.6 mm	779.6044	779.6058
Ø 2.0 mm	779.6049	779.6063
Ø 2.4 mm	779.6045	779.6059
Ø 3.2 mm	779.6046	779.6060
Ø 4.0 mm	779.6047	779.6061
Ø 4.8 mm	779.6048	779.6062
Ø 6.4 mm	779.6050	779.6064

		
<b>Gas nozzle, ceramic</b> (10 pcs.)		<b>Short<sup>3</sup></b>
Ø 24.0 mm	-	778.1189

	
<b>Gas nozzle, ceramic</b> (10 pcs.)	<b>Standard</b>
Ø 12.5 mm	778.1183
Ø 16.0 mm	778.1184
Ø 19.5 mm	778.1188

<sup>3</sup> Not suitable for high frequency.

# TIG Welding Torches "ABITIG® GRIP Little"

## air and liquid cooled

The welding torch line ABITIG® GRIP Little – particularly suited to those everyday, less accessible welding jobs. Maximum flexibility with no compromises.

The torches of various ratings, both air and liquid cooled, are combined with a standardized ergonomic handle with "GRIP" and optimised cable

assembly management, into which standard switching and control functions

can be integrated.

In addition the flexible cable assemblies are available with modular and robust machine-side connections.



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

#### TIG Welding Torches "ABITIG® GRIP Little" (air cooled)

Type	Rating (A)		Duty cycle (%)	Tungsten electrodes (Ø in mm)
	DC	AC		
ABITIG® GRIP Little 9 / 9 F	110	80	35	0.5-1.6
ABITIG® GRIP Little 17 / 17 F	140	100	35	0.5-2.4
ABITIG® GRIP Little 24 G	110	80	35	0.5-1.6
ABITIG® GRIP Little 90	90	60	35	1.0-1.6
ABITIG® GRIP Little 150 / 150 F	140	100	35	1.0-2.4

#### TIG Welding Torches "ABITIG® GRIP Little" (liquid cooled)

Type	Rating (A)		Duty cycle (%)	Tungsten electrodes (Ø in mm)
	DC	AC		
ABITIG® GRIP Little 20 / 20 F	220	150	100	0.5-3.2
ABITIG® GRIP Little 24 W	140	100	100	0.5-2.4
ABITIG® GRIP Little 180 W	180	130	100	1.0-3.2
ABITIG® GRIP Little 260 W	240	170	100	1.0-3.2

Subject to change without notice.

# “ABITIG® GRIP Little”

- One ergonomic handle with “GRIP” for all ABITIG® GRIP torch types – offers high gripability and optimum feel
- Modular switching and control functions integrated into the handle
- Excellent protection against high frequency flashover
- Light and flexible cable assemblies (High-Flex-Leather) with modular machine-side connections for most available TIG welding power sources
- Consumables (Types 9 / 17 / 20 / 24) compatible to the international standard
- Air cooled up to 140 A – at 35% duty cycle
- Liquid cooled up to 240 A – at 100% duty cycle



- 1 ABITIG® 9 / 9 F
- 2 ABITIG® 17 / 17 F
- 3 ABITIG® 20 / 20 F
- 4 ABITIG® 24 G
- 5 ABITIG® 24 W
- 6 ABITIG® 90
- 7 ABITIG® 150 / 150 F
- 8 ABITIG® 180 W
- 9 ABITIG® 260 W

TIG

## Torch complete

Type	Handle	Part-No.	Torch body	
ABITIG® 9 <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 46.0 mm	705.0001
ABITIG® 9 F <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Flexible; 46.0 mm	703.0001
ABITIG® 17 <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 65.0 mm	705.0033
ABITIG® 17 F <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Flexible; 62.0 mm	703.0009
ABITIG® 20 <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 46.0 mm	705.0058
ABITIG® 20 F <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Flexible; 46.0 mm	703.0302
ABITIG® 20 F <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Flexible; 75.0 mm	703.0305
ABITIG® 20 F <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Flexible 110.0 mm	703.0306
ABITIG® 24 G <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 55.0 mm	705.0075
ABITIG® 24 W <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 55.0 mm	705.0080
ABITIG® 90 <sup>2</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 60.0 mm	770.0040.1
ABITIG® 150 <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 46.0 mm	770.0010.1
ABITIG® 150 F <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Flexible; 46.0 mm	770.0130.1
ABITIG® 180 W <sup>2</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 60.0 mm	772.0040.1
ABITIG® 260 W <sup>1</sup>	ABITIG® GRIP Little	see comment <sup>3</sup>	Standard; 46.0 mm	772.0010.1

<sup>1</sup> Wear parts see “ABITIG® GRIP” torches of similar design (Page 4–13 and 18–21).

<sup>2</sup> Wear parts see page 16 and 17.

<sup>3</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).

# TIG Machine Torches "ABITIG®-MT"

## air and liquid cooled

The compact designed machine torches of the ABITIG®-MT series represent an effective solution for welding operations with simple geometries.

With a wide range of current options, the torches are available in both air and liquid cooled options, with side mounted cable assemblies.

- Compact in design
- Rugged cable assemblies suitable for all established welding machines
- Ideally suited for welding operations with simple geometries



ABITIG® 150 MT

ABITIG® 260 W MT

### ABITIG® 150 MT

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

Type of cooling: air cooled  
 Rating: 150 A DC  
 110 A AC  
 Duty cycle: 60%  
 Tungsten electrodes: Ø 1.0-3.2 mm

### ABITIG® 260 W MT

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

Type of cooling: liquid cooled  
 Rating: 260 A DC  
 180 A AC  
 Duty cycle: 100%  
 Tungsten electrodes: Ø 1.0-3.2 mm

Torch complete		Torch body		
Type	Cooling	Part-No.	Type	Part-No.
ABITIG® 150 MT	air cooled	see comment <sup>1</sup>	Standard; 214.0 mm	778.1020
ABITIG® 260 W MT	liquid cooled	see comment <sup>1</sup>	Standard; 214.0 mm	779.1020

<sup>1</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. For the order of complete torches please indicate the cable assembly length and the machine side connection.

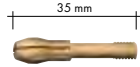
# ABITIG® 150 MT, ABITIG® 260 W MT

## Wear parts

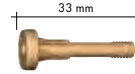


**Guide tube** (1 pc.)

779.1030



**Electrode holder**



**Gas diffuser**

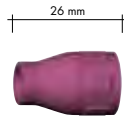
**Electrode holder /  
Gas diffuser** (5 pcs.)

Ø 1.0 mm	776.0061	776.0171
Ø 1.6 mm	776.0062	776.0172
Ø 2.0 mm	776.0067	776.0177
Ø 2.4 mm	776.0063	776.0173
Ø 3.2 mm	776.0064	776.0174



**Insulator** (1 pc.)

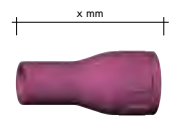
779.1043



**Standard version**



**Ball version**



**Long version**

(10 pcs.)

			x = 36 mm	x = 60 mm
Ø 6.5 mm	777.0081	770.0081.10	777.2171	777.2175
Ø 8.0 mm	777.0082	770.0082.10	777.2172	777.2176
Ø 9.5 mm	777.0083	770.0083.10	777.2173	-
Ø 11.0 mm	777.0084	770.0084.10	777.2174	-

# TIG Machine Torches "ABITIG®-MT"

## air and liquid cooled



- Compact in design
- Rugged cable assemblies suitable for all established welding machines
- ABITIG® 200 MT / 300 W MT with adjustable tungsten electrode
- Ideally suited for welding operations with simple geometries

### ABITIG® 200 MT

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

Type of cooling: air cooled  
 Rating: 200 A DC  
 140 A AC  
 Duty cycle: 60%  
 Tungsten electrodes: Ø 1.6–4.0 mm

### ABITIG® 300 W MT

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

Type of cooling: liquid cooled  
 Rating: 300 A DC  
 210 A AC  
 Duty cycle: 100%  
 Tungsten electrodes: Ø 1.6–4.8 mm

#### Torch complete

Type	Cooling	Part-No.	Torch body Type	Part-No.
ABITIG® 200 MT	air cooled	see comment <sup>1</sup>	Standard; 249.0 mm	778.2020
ABITIG® 300 W MT	liquid cooled	see comment <sup>1</sup>	Standard; 249.0 mm	779.2020

<sup>1</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. For the order of complete torches please indicate the cable assembly length and the machine side connection.



# ABITIG® 200 MT, ABITIG® 300 W MT

## Wear parts



**Guide tub** (1 pc.)

778.1030

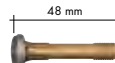


**Collet** (1 pc.)

778.1140



**Electrode holder**



**Gas diffuser**

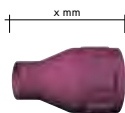
**Electrode holder / Gas diffuser** (5 pcs.)

Ø 1.6 mm	775.0062	773.0172
Ø 2.0 mm	775.0067	773.0177
Ø 2.4 mm	775.0063	773.0173
Ø 3.2 mm	775.0064	773.0174
Ø 4.0 mm	775.0065	773.0175
Ø 4.8 mm	775.0066	773.0176

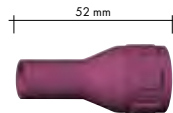


**Insulator** (1 pc.)

775.1043



**Standard version**



**Long version**

**Gas nozzle, ceramic** (10 pcs.)

	x = 26 mm	x = 37 mm	
Ø 7.5 mm	-	775.0081	775.2171
Ø 10.0 mm	775.0152	775.0082	775.2172
Ø 12.5 mm	-	-	-
Ø 13.0 mm	775.0153	775.0083	775.2173
Ø 13.0 mm (boosted)	-	775.0183	-
Ø 15.0 mm	-	775.0084	775.2174
Ø 15.0 mm (boosted)	-	775.0184	-
Ø 16.0 mm	-	-	-
Ø 19.5 mm	-	-	-

Further options, e.g. the "Jumbo" version up to NS 24 or metal gas nozzles, please see chapter 10 of our spare parts list - this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).



**Setting gauge** (1 pc.)

778.1157

# TIG Machine Torches "ABITIG®-MT"

## air and liquid cooled

- Compact in design
- Rugged cable assemblies suitable for all established welding machines
- Ideally suited for welding operations with simple geometries



ABITIG® 400 W MT

ABITIG® 500 W MT

### ABITIG® 400 W MT

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

Type of cooling: liquid cooled  
 Rating: 400 A DC  
 280 A AC  
 Duty cycle: 100 %  
 Tungsten electrodes: Ø 1.6-4.8 mm

### ABITIG® 500 W MT

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

Type of cooling: liquid cooled  
 Rating: 500 A DC  
 350 A AC  
 Duty cycle: 100 %  
 Tungsten electrodes: Ø 1.6-6.4 mm



ABITIG® 500 W MT with cold wire feeding  
 (see page 38).

#### Torch complete

Type	Cooling	Part-No.	Torch body Type	Part-No.
ABITIG® 400 W MT	liquid cooled	see comment <sup>1</sup>	Standard; 228.0 mm	779.4020
ABITIG® 500 W MT	liquid cooled	see comment <sup>1</sup>	Standard; 265.0 mm	779.6020

<sup>1</sup> Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches.  
 For the order of complete torches please indicate the cable assembly length and the machine side connection.

# ABITIG® 400 W MT, ABITIG® 500 W MT

## Wear parts

### ABITIG® 400 W MT

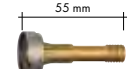
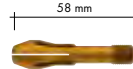
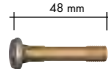
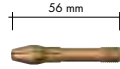
### ABITIG® 500 W MT

#### Guide tube (1 pc.)



779.4030

779.6026



#### Electrode holder / Gas diffuser

#### Electrode holder (5 pcs.)

#### Gas diffuser (5 pcs.)

#### Electrode holder (1 pc.)

#### Gas diffuser (1 pc.)

Ø 1.6 mm	775.0062	773.0172
Ø 2.0 mm	775.0067	773.0177
Ø 2.4 mm	775.0063	773.0173
Ø 3.2 mm	775.0064	773.0174
Ø 4.0 mm	775.0065	773.0175
Ø 4.8 mm	775.0066	773.0176
Ø 6.4 mm	-	-

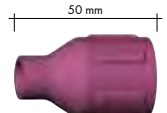
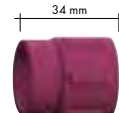
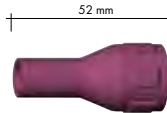
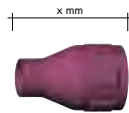
779.6044	779.6058
779.6049	779.6063
779.6045	779.6059
779.6046	779.6060
779.6047	779.6061
779.6048	779.6062
779.6050	779.6064

#### Insulator (1 pc.)



779.4043

779.6033



#### Gas nozzle, ceramic (10 pcs.)

#### Standard version x = 26 mm x = 37 mm

#### Long version

#### Standard version

#### Long version

Ø 7.5 mm	-	775.0081	775.2171
Ø 10.0 mm	775.0152	775.0082	775.2172
Ø 12.5 mm	-	-	-
Ø 13.0 mm	775.0153	775.0083	775.2173
Ø 13.0 mm (boosted)	-	775.0183	-
Ø 15.0 mm	-	775.0084	775.2174
Ø 15.0 mm (boosted)	-	775.0184	-
Ø 16.0 mm	-	-	-
Ø 19.5 mm	-	-	-
Ø 24.0 mm	-	-	-

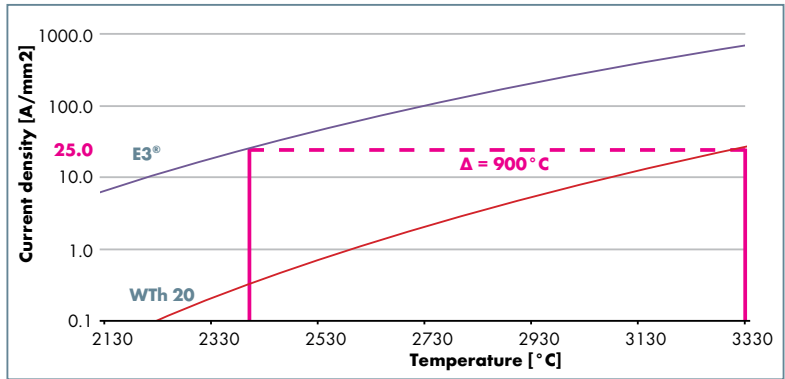
-	-
-	-
-	778.1183
-	-
-	-
-	-
-	778.1184
-	778.1188
778.1189	-

Further options please see chapter 10 of our spare parts list - this you can find in the download area of our website [www.binzel-abicor.com](http://www.binzel-abicor.com).

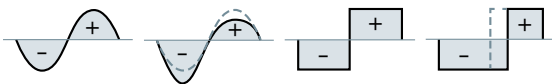
# Tungsten electrodes

- The welder is no longer exposed to radiation
- Reduced environmental impact. Remaining pieces and grinding dust are no longer treated as hazardous
- No special safeguards required for storage and transport
- Electrode tip remains "cooler" than thoriated types
- Superior repeatable ignition characteristics
- Increased arc stability
- Reduced burn off
- Higher current carrying capacity
- Lower degradation to the electrode tip
- Increased application flexibility

## Higher electrical rating



	E3® purple	WLa 15 gold	WLa 20 blue	WCe 20 grey	WP green	WZr 08 white
DC negative	+++	++	+++	+	-	-
Alternating current	+++	+	+	+	+	++
Arc stability	++	+	++	+	-	++
Ignitability	++++	++	+++	+	-	+
Service life	++++	++	+++	+	+	++
High-alloy steels suitability	++++	+++	+++	+++	-	-
Aluminium suitability	++++	+	+	+	++	++



WP electrodes are not suitable for alternating current welding with the rectangular pulse waveform. In contrast, E3® electrodes achieve best welding results with high service life if the following parameters are complied with:

### Rectangular sinusoidal pulse

- Grinding angle: 60°
- Smallest possible igniting current

### Rectangular pulse

- Frequency: max. 75 Hz
- Balance: 25% + / 75% -



E3® electrodes remain approx. 900°C colder than WTh 20 electrodes with the same load.



After 150 striking the E3® electrode displays considerably less wear.

# Tungsten electrodes

## E3<sup>®2</sup>

Electrodes with rare earth (mixed oxides). In comparison to thoriated electrodes this electrode is less harmful to the environment and not radioactive. The electrodes offer excellent ignition characteristics and consistent welding properties. They are universal and suitable for all applications in the whole range of DC and AC welding for non-alloyed and high-alloyed steel, aluminium, titanium, nickel, copper and magnesium alloys. Because of their great ignition properties they are also suitable for automated welding. Due to the low electrode temperature, they offer an increased current carrying capacity and longer service life than thoriated electrodes.

Colour-coding: **E3<sup>®</sup> = purple**

## WLa 10 / 15 / 20

Lanthanated electrodes are suitable for applications in DC and AC welding. Their main areas of application are the welding of non-alloyed and high-alloyed steel, aluminium, titanium, nickel, copper and magnesium alloys. These electrodes are also suitable for the use in micro-plasma welding. Ignition characteristics are enhanced with increased amounts of lanthanum oxide (La<sub>2</sub>O<sub>3</sub>). The overall service life and current carrying capacity is lower than the E3<sup>®</sup> electrodes.

Colour-coding: **WLa 10 = black / WLa 15 = gold / WLa 20 = blue**

## WCe 20

By adding cerium oxide (CeO<sub>2</sub>), these electrodes have an increased capacity compared to pure tungsten electrodes, however the WCe electrodes have a lower capacity than the E3<sup>®</sup> and WL electrodes. Main areas of application are in the DC and AC welding of non-alloyed and high-alloyed steel, aluminium, titanium, nickel, copper and magnesium alloys in the low and middle current range.

Colour-coding: **WCe 20 = grey**

## WP

Undoped electrodes – consist of pure tungsten. The main area of application for this type of electrode is the AC welding of aluminium alloys with excellent arc stability. The WP-electrodes are not suitable for DC welding.

Colour-coding: **WP = green**

## WZr 08

Tungsten electrodes with the addition of zirconium have a lower risk of contaminating the weld from deposits of tungsten. The main area of application for this electrode is AC welding. They are limited in their suitability for DC welding.

Colour-coding: **WZr 08 = white**

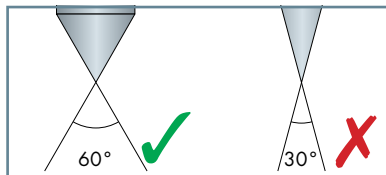
### Tungsten electrodes per DIN EN ISO 6848 (10 pcs.)

Length: 175 mm <sup>1</sup> Electrodes-Ø	E3 <sup>®2</sup> purple	WLa 10 black	WLa 15 gold	WLa 20 blue	WCe 20 grey	WP green	WZr 08 white
1.0 mm	700.0304.10	700.0157	700.1183	700.0219	700.0166	700.0003	700.0028
1.6 mm	700.0306.10	700.0158	700.1184	700.0220	700.0167	700.0007	700.0030
2.0 mm	700.0307.10	700.0159	700.1185	700.0221	700.0168	700.0009	700.0032
2.4 mm	700.0308.10	700.0160	700.1186	700.0222	700.0169	700.0012	700.0034
3.2 mm	700.0310.10	700.0162	700.1187	700.0223	700.0170	700.0016	700.0036
4.0 mm	700.0311.10	700.0163	700.0255	700.0242	700.0171	700.0018	700.0037

<sup>1</sup> Tungsten electrodes in 150 mm length on demand.

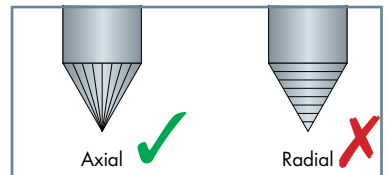
<sup>2</sup> According to DIN EN ISO 6848..

### Important for best results: angle and direction of grinding



E3<sup>®</sup> electrodes generate the best welding result if they are ground at an angle of 60° and are used within their amperage-range.

More acute angles should only be used in low current ranges. However, changing to a thinner electrode would be better.



Along with the grinding quality, the arc is influenced by the direction of grinding.

The arc can break off with a radial grinding direction. In addition, this considerably reduces the service life of the electrodes.

# Cold Wire Feeder System "ABIDRIVE-V2"

The new ABIDRIVE V2 from ABICOR BINZEL with 4 drive rolls offers a constantly precise wire feeding for manual and automated TIG welding. With the intuitive menu individual adjustments of wire feeding are simple and offer detailed customization possibilities to the task and the result.

## Advantages

- Wire speed adjustable from 0.2 to 8 m/min
- Fine adjustment of wire speed in steps of 0.02 m/min
- 4 driven rolls for minimal slippage and maximum feed constancy
- With interface for automated TIG welding
- Individualized wire retraction
- Fine adjustable interval function to define the seam shaping and optics
- Optional remote controllers - potentiometer or up/down
- Commercial standard connections / quick couplings



Part-No. 525.2002.1

## Technical data (IEC 60974):

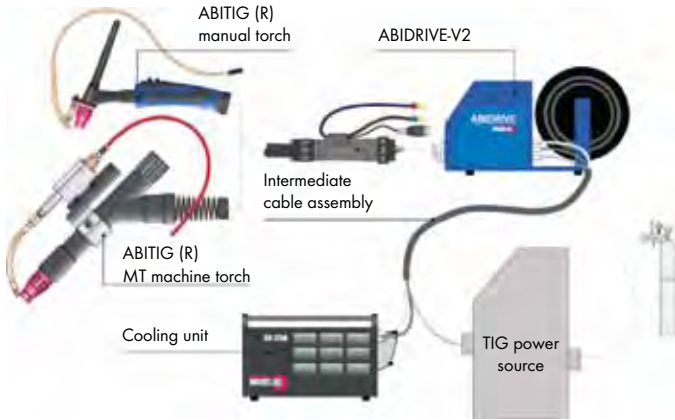
### Feeding unit

Weight:	19 kg
Measurements (LxWxH):	approx. 580x280x380 mm
Wire feeding speed:	1 - 10 m/min.
Standard drive rolls:	0.8 mm / 1.2 mm

### Power supply

Weight:	7.5 kg
Measurements (LxWxH):	approx. 185x200x175 mm
Inlet voltage:	230 V / 50 Hz
Power consumption:	40 W / 28 V
Power input:	0.15 kVA
Interval frequency:	approx. 0.5 Hz
Protection class:	IP 21

# Cold Wire Feeder System "ABIDRIVE-V2"



## Wire feed rolls

Wire feed roll 1.0 cpl.	4x U-groove driven	525.2053.1
Wire feed roll 1.2 cpl.	4x U-groove driven	525.2004.1
Wire feed roll 1.6 cpl.	4x U-groove driven	525.2005.1
Wire feed roll 0.8 cpl.	2x V-groove / 2x smooth	525.2008.1
Wire feed roll 1.0 cpl.	2x V-groove / 2x smooth	525.2009.1
Wire feed roll 1.2 cpl.	2x V-groove / 2x smooth	525.2010.1
Wire feed roll 1.6 cpl.	2x V-groove / 2x smooth	525.2011.1
Wire feed roll 0.8 cpl.	2x V-groove / 2x smooth driven	525.2012.1
Wire feed roll 1.0 cpl.	2x V-groove / 2x smooth driven	525.2013.1
Wire feed roll 1.2 cpl.	2x V-groove / 2x smooth driven	525.2014.1
Wire feed roll 1.6 cpl.	2x V-groove / 2x smooth driven	525.2015.1
Wire feed roll 0.8	2x V-groove w/o pressure roll	525.2049.1
Wire feed roll 1.0	2x V-groove w/o pressure roll	525.2050.1
Wire feed roll 1.2	2x V-groove w/o pressure roll	525.2051.1
Wire feed roll 1.6	2x V-groove w/o pressure roll	525.2052.1

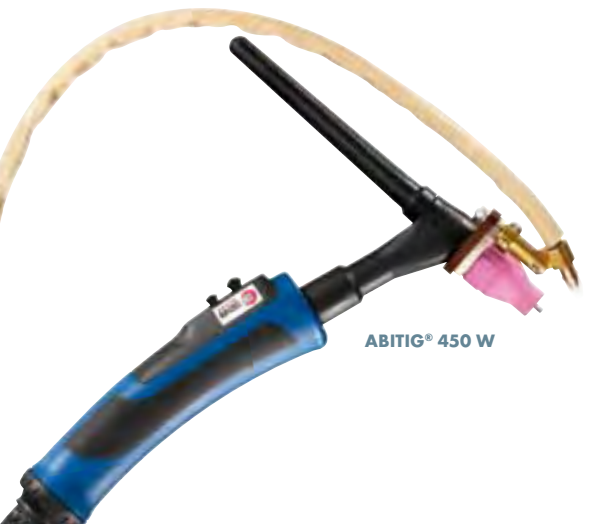
## Intermediate cable assembly

TIG-intermed. cable assy. 2.0 m	plug 50-70 BLS-37 BHC-11	525.2017.1
TIG-intermed. cable assy. 2.0 m	plug 50-70 BLS-01A BHC-11	525.2018.1
TIG-intermed. cable assy. 2.0 m	plug 50-70 BLS-01B BHC-16	525.2019.1
TIG-intermed. cable assy. 2.0 m	plug 50-70 BLS-03A BHC-16	525.2020.1
TIG-intermed. cable assy. 2.0 m	BCS-11 BLS-46B BHC-12	525.2021.1
TIG-intermed. cable assy. 2.0 m	BCS-11 BLS-46B BHC-00	525.2022.1
TIG-intermed. cable assy. 2.0 m	BCS-03 BLS-01A BHC-12	525.2023.1
TIG-intermed. cable assy. 2.0 m	BCS-06 BLS-15A BHC-00	525.2024.1
TIG-intermed. cable assy. 2.0 m	plug 50-70 BLS-01B BHC-11	525.2025.1
TIG-intermed. cable assy. 2.0 m	BCS-36 BLS-15A BHC-12	525.2026.1
TIG-intermed. cable assy. 2.0 m	BCS-06 BLS-10A BHC-15	525.2027.1
TIG-intermed. cable assy. 2.0 m	plug 50-70 BLS-09A BHC-21	525.2028.1
TIG-intermed. cable assy. 2.0 m	BCS-19 BLS-04A BHC-00	525.2029.1
TIG-intermed. cable assy. 2.0 m	BCS-25 BLS-04A BHC-12	525.2030.1
TIG-intermed. cable assy. 2.0 m	BCS-07 BLS-99A BHC-12	525.2031.1
TIG-intermed. cable assy. 2.0 m	plug 50-70 BLS-01B BHC-30	525.2032.1
TIG-intermed. cable assy. 2.0 m	BCS-37 BLS-01A BHC-12	525.2033.1
TIG-intermed. cable assy. 2.0 m	plug 50-70 BLS-01B BHC-26	525.2036.1

# TIG Welding Torches "ABITIG®" and "ABITIG®-MT" with cold wire feed • liquid cooled

- The ABITIG® Cold Wire Feeding can be perfectly adjusted to any application due to the three-dimensional positioning and the individually exchangeable feeding nozzles, adjusted to the wire electrode diameter.

- Precise, easy three-dimensional positioning of the cold wire feeding
- Light dead weight provides a fatigue-free working
- Highly flexible wire feeding hose inside the cable assembly – no restrictions during handling
- Higher welding speeds compared to the manual feeding of welding material
- Exact welding wire feeding



ABITIG® 450 W



ABITIG® 300 W MT



ABITIG® 500 W MT

**The ABITIG®-MT Cold Wire feeding**  
Rugged version for the automatic operation retro-fittable. ABITIG®-MT 500 W optional with liquid cooled guide tube.

## ABITIG® 260 W

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

Type of cooling:	liquid cooled
Rating:	280 A DC / 260 A DC 195 A AC / 185 A AC
Duty cycle:	60% / 100%
Tungsten electrodes:	Ø 1.0–3.2 mm

## ABITIG® 450 W

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

Type of cooling:	liquid cooled
Rating:	420 A DC / 400 A DC 300 A AC / 280 A AC
Duty cycle:	60% / 100%
Tungsten electrodes:	Ø 1.6–4.8 mm

## ABITIG® 260 W MT

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

Type of cooling:	liquid cooled
Rating:	260 A DC 180 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 1.0–3.2 mm

## ABITIG® 300 W MT

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

Type of cooling:	liquid cooled
Rating:	300 A DC 210 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 1.6–4.8 mm

## ABITIG® 400 W MT

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

Type of cooling:	liquid cooled
Rating:	400 A DC 280 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 1.6–4.8 mm

## ABITIG® 500 W MT

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

Type of cooling:	liquid cooled
Rating:	500 A DC 350 A AC
Duty cycle:	100%
Tungsten electrodes:	Ø 1.6–6.4 mm



# “ABITIG®” and “ABITIG®-MT” with cold wire feed

## Torches cpl.

### TIG Manual Welding Torches ABITIG® with cold wire feed

Type		Part-No.
ABITIG® 260 W	with cold wire feed (4.00 m; BIS-75; BHC-12; WZ) <sup>1</sup>	777.2005
ABITIG® 450 W	with cold wire feed (4.00 m; BIS-75; BHC-12; WZ) <sup>1</sup>	775.2541

<sup>1</sup> incl. cold wire feeding tip 1.0 mm

### TIG Machine Welding Torches ABITIG®-MT with cold wire feed

Type		1.5 m	3.0 m	4.0 m
ABITIG® 260 W MT	with cold wire feed <sup>2</sup>	525.1016	525.1017	525.1018
ABITIG® 300 W MT	with cold wire feed <sup>2</sup>	525.1021	525.1022	525.1023
ABITIG® 400 W MT	with cold wire feed <sup>2</sup>	525.1024	525.1025	525.1026
ABITIG® 500 W MT	with cold wire feed <sup>2</sup>	525.1040.1	525.1041.1	525.1042.1

<sup>2</sup> incl. cold wire feeding tip 1.0 mm

## Wear parts

Cold wire feeding tip	ABITIG®	ABITIG® MT
Ø 0.8 mm	729.0071	967.0329
Ø 1.0 mm	729.0072	967.0330
Ø 1.2 mm	729.0073	967.0331
Ø 1.6 mm	-	967.0332

### Cold wire feeding

ABITIG®	Cold wire guide liner 2.0x4.5 mm (L=0.45 m) Double nipple	729.0080 729.0057
ABITIG®-MT	Cold wire feeding tube for ABITIG®-MT 260 W / 300 W / 400 W Cold wire feeding tube for ABITIG®-MT 500 W optional: Cold wire feeding tube for ABITIG®-MT 500 W – liquid cooled	779.6513.1 967.0326 779.6505

### Wire guides

Carbon PTFE core liner 2.0/4.0; Wire-Ø 1.0–1.2; for 4.00 m	127.0007
Polyamid core liner 2.0/4.0; Wire-Ø 1.0–1.2; for 4.00 m	128.0015
Polyamid core liner 2.0x4.0; Wire-Ø 1.6; for 6.00 m	128.0017
Polyamid core liner 2.3x4.7; Wire-Ø 1.6; for 6.00 m	128.0037

## Component kits

### Backfitting kits

Cold wire feeding cpl. for ABITIG® 260 W (Gas nozzle L = 36 mm)	729.0084
Cold wire feeding cpl. for ABITIG® 450 W (Gas nozzle L = 37 mm)	729.0070
Cold wire feeding cpl. for ABITIG®-MT 260 W / 300 W / 400 W <sup>3</sup>	779.6514.1
Cold wire feeding cpl. for ABITIG®-MT 500 W <sup>3</sup>	779.6500

<sup>3</sup> incl. cold wire feeding tip according to specification

Wire conduit kit ABIDRIVE (L = 6.00 m) incl. fastening material applicable for all retrofit kits	525.1014
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## Accessories

### Torch mounts

MT-25 for ABITIG®-MT 260 W / 400 W	780.0222
MT-30 for ABITIG®-MT 300 W	780.0145
MT-35 for ABITIG®-MT 500 W	780.0292

# Component kits

## I. Component kits ABITIG® 9 / 12-1 / 17 / 18 / 18 SC / 20 / 24 G / 24 W / 26

Type	Electrode-Ø 1.6	Electrode-Ø 2.4	Electrode-Ø 3.2
ABITIG® 9 (Collet body)	712.3151	-	-
ABITIG® 9 (Gas lens)	712.3191	-	-
ABITIG® 12-1 (Collet body)	-	712.0152	712.0153
ABITIG® 12-1 (Gas lens)	-	712.0192	-
ABITIG® 17 (Collet body)	712.2151	712.2152	-
ABITIG® 17 (Gas lens)	712.2191	712.2192	-
ABITIG® 18 (Collet body)	-	712.2152	712.2153
ABITIG® 18 (Gas lens)	-	712.2192	712.2193
ABITIG® 18 SC (Collet body)	-	712.6152	-
ABITIG® 18 SC (Collet body HL)	-	-	712.6153
ABITIG® 18 SC (Gas lens)	-	712.6192	-
ABITIG® 18 SC (Gas lens HL)	-	-	712.6193
ABITIG® 20 (Collet body)	-	712.3152	712.3153
ABITIG® 20 (Gas lens)	-	712.3192	712.3193
ABITIG® 24 G (Collet body)	705.1519	-	-
ABITIG® 24 W (Collet body)	705.1519	705.1520	-
ABITIG® 26 (Collet body)	-	712.2152	712.2153
ABITIG® 26 (Gas lens)	-	712.2192	712.2193

Component kit "Collet body" consisting of: Back cap long, collet, collet body and gas nozzle ceramic.

Component kit "Gas lens" consisting of: Back cap long, collet, collet body with gas lens and gas nozzle ceramic.

## II. Component kits ABITIG® 150 / 260 W

Type	Electrode-Ø 1.6	Electrode-Ø 2.4	Electrode-Ø 3.2
ABITIG® 150 (Electrode holder)	777.0182	777.0183	-
ABITIG® 150 (Gas diffuser)	777.0192	777.0193	-
ABITIG® 260 W (Electrode holder)	777.0182	777.0183	777.0184
ABITIG® 260 W (Gas diffuser)	777.0192	777.0193	777.0194

Component kit "Electrode holder" consisting of: Back cap medium, electrode holder and gas nozzle ceramic.

Component kit "Gas diffuser" consisting of: Back cap medium, gas diffuser and gas nozzle ceramic.

## III. Component kits ABITIG® 200 / 450 W / 450 W SC

Type	Electrode-Ø 2.4	Electrode-Ø 3.2	Electrode-Ø 4.8
ABITIG® 200 (Electrode holder)	774.0183	774.0184	-
ABITIG® 200 (Gas diffuser)	774.0193	774.0194	-
ABITIG® 450 W (Electrode holder)	774.0183	774.0184	-
ABITIG® 450 W (Gas diffuser)	774.0193	774.0194	-
ABITIG® 450 W SC (Electrode holder)	774.0183	774.0184	774.0186
ABITIG® 450 W SC (Gas diffuser)	774.0193	774.0194	774.0196

Component kit "Electrode holder" consisting of: Back cap long, electrode holder and gas nozzle ceramic.

Component kit "Gas diffuser" consisting of: Back cap long, gas diffuser and gas nozzle ceramic.

# Power cables, Control cables and Hoses

## I. Power cables ABITIG® GRIP

Type	Power cable standard			Power cable High Flex		
	4 m	8 m	12 m	4 m	8 m	12 m
ABITIG® 9	150.0084	150.0085	150.0086	150.0065	150.0066	150.0067
ABITIG® 20	150.0015	150.0016	150.0017	150.0062	150.0063	150.0064
ABITIG® 17	150.0084	150.0085	150.0086	150.0065	150.0066	150.0067
ABITIG® 18	150.0018	150.0019	150.0020	150.0068	150.0069	150.0070
ABITIG® 26	150.0087	150.0088	150.0089	150.0059	150.0060	150.0061
ABITIG® 24 G	150.0084	150.0085	150.0086	150.0065	150.0066	150.0067
ABITIG® 24 W	150.0015	150.0016	150.0017	150.0062	150.0063	150.0064
ABITIG® 12-1	150.0074	150.0075	150.0076	150.0071	150.0072	150.0073
ABITIG® 18 SC	150.0018	150.0019	150.0020	150.0068	150.0069	150.0070
ABITIG® 150	150.0111	150.0112	150.0113	150.0040	150.0041	150.0190
ABITIG® 260 W	150.0099	150.0100	150.0101	150.0164	150.0165	150.0166
ABITIG® 200	150.0170	150.0171	150.0172	150.0036	150.0037	150.0114
ABITIG® 450 W	150.0054	150.0055	150.0083	150.0167	150.0168	150.0169
ABITIG® 450 W SC	150.0205	150.0206	-	150.0203	150.0194	150.0204
ABITIG® 500 W	150.0084	150.0085	150.0086	150.0065	150.0066	150.0067

Power cable for TIG welding torches ABITIG® with rotary valve and TIG machine torches on request.

## II. Power cables ABITIG® GRIP Little

Type	Power cable standard			Power cable High Flex		
	4 m	8 m	12 m	4 m	8 m	12 m
ABITIG® 9	150.0084	150.0085	150.0086	150.0065	150.0066	150.0067
ABITIG® 20	150.0259.1	150.0260.1	150.0261.1	150.0255.1	150.0256.1	150.0257.1
ABITIG® 17	150.0084	150.0085	150.0086	150.0065	150.0066	150.0067
ABITIG® 24 G	150.0084	150.0085	150.0086	150.0065	150.0066	150.0067
ABITIG® 24 W	150.0259.1	150.0260.1	150.0261.1	150.0255.1	150.0256.1	150.0257.1
ABITIG® 90	150.0111	150.0112	150.0113	150.0040	150.0041	150.0190
ABITIG® 150	150.0111	150.0112	150.0113	150.0040	150.0041	150.0190
ABITIG® 180 W	150.0267.1	150.0268.1	150.0269.1	150.0002 <sup>1</sup>	150.0003 <sup>1</sup>	150.0272.1
ABITIG® 260 W	150.0267.1	150.0268.1	150.0269.1	150.0002 <sup>1</sup>	150.0003 <sup>1</sup>	150.0272.1

<sup>1</sup> highly flexible PU version

## III. Control cables

Type	Description	Details	Part-No.
all torches <sup>2</sup>	Power cable 3 core	100 m	100.0100
all torches <sup>2</sup>	Power cable 6 core	100 m	100.0112
all torches <sup>2</sup>	Power cable 6 core (protected)	100 m	100.0028

<sup>2</sup> apart from TIG welding torches ABITIG® GRIP with rotary valve and TIG machine torches

Spare parts mentioned are suitable for use with all ABITIG®, ABITIG® GRIP and ABITIG® GRIP Little TIG welding torches - unless specifically marked.

# Power cables, Control cables and Hoses

## IV. Outer hoses

Type	Description	Details	Part-No.			
ABITIG® 9 / 20	Outer hose 22x1.25	40 m	109.0020			
ABITIG® 17 / 18 / 26						
ABITIG® 24 G / 24 W						
ABITIG® 12-1						
ABITIG® 18 SC						
ABITIG® 90 / 180 W						
ABITIG® 150 / 260 W						
ABITIG® 200 / 450 W						
ABITIG® 500 W						
ABITIG® 9 V						
ABITIG® 17 V / 17 FV						
ABITIG® 450 W SC				Outer hose 25x1.25	40 m	105.0019
ABITIG® 26 V / 26 FV						
ABITIG® 150 MT	Outer hose 22x1.25	40 m	109.0020			
ABITIG® 200 MT						
ABITIG® 260 W MT						
ABITIG® 300 W MT						
ABITIG® 400 W MT						
ABITIG® 500 W MT						
ABITIG® MT with cold wire feed				Outer hose 25x1.25	40 m	105.0019

## V. Leather hose and hose coupling

Type	Description	Part-No.
all torches <sup>1</sup>	Leather hose 0.8 m	108.0028
all torches <sup>1</sup>	Hose coupling complete for connecting leather and outer hose	400.0391

<sup>1</sup> apart from TIG welding torches ABITIG® GRIP with rotary valve and TIG machine torches

## VI. Gas hoses

Type	Description	Details	Part-No.			
ABITIG® 20	Gas hose 3x1.5	100 m	102.0124			
ABITIG® 18						
ABITIG® 24 W						
ABITIG® 12-1						
ABITIG® 18 SC						
ABITIG® 180 W						
ABITIG® 260 W						
ABITIG® 450 W						
ABITIG® 450 W SC						
ABITIG® 500 W						
ABITIG® 9 V						
ABITIG® 17 V / 17 FV						
ABITIG® 26 V / 26 FV				Gas hose 4.9x1.5	100 m	109.0040
ABITIG® 260 W MT						
ABITIG® 300 W MT				Gas hose 3x1.5	100 m	102.0124
ABITIG® 400 W MT						
ABITIG® 500 W MT						

Spare parts mentioned are suitable for use with all ABITIG®, ABITIG® GRIP and ABITIG® GRIP Little TIG welding torches - unless specifically marked.

# Power cables, Control cables and Hoses

## VII. Water hose

Type	Description	Version	
		PVC black per 100 m	BRH per 40 m
ABITIG® 20	Water hose 3.9x1.5	109.0011	109.0059
ABITIG® 18			
ABITIG® 24 W			
ABITIG® 12-1			
ABITIG® 18 SC			
ABITIG® 500 W			
ABITIG® 260 W MT			
ABITIG® 300 W MT			
ABITIG® 400 W MT			
ABITIG® 500 W MT			

## VIII. Hose clamps, marking washers and ceiling covers

Type	Part-No.	for hose			
		102.0124	109.0011	109.0040	109.0059
	(20 pcs.)				
Hose clamp Ø=9.0 with ring (mark. 9.5)	173.0001			•	•
Hose clamp Ø=8.2 with ring (mark. 8.7)	173.0005		•		
Hose clamp Ø=7.5 with ring (mark. 8.0)	173.0007	•			
Marking washer red	501.2166		•		•
Marking washer blue	501.2167		•		•
Ceiling cover red	501.2423		•		•
Ceiling cover blue	501.2424		•		•

Spare parts mentioned are suitable for use with all ABITIG®, ABITIG® GRIP and ABITIG® GRIP Little TIG welding torches - unless specifically marked.

# Handles and Modules

## I. Handles ABITIG® GRIP and control modules

Type	Description	Details	Part-No.
all ABITIG® GRIP torches <sup>1</sup>	Handle ABITIG® GRIP, without control module		180.0130.1
all ABITIG® GRIP torches <sup>1</sup>	Control module single push-button	BIS-51	400.1275.1
	Control module single push-button with potentiometer 10 kΩ (3 pole)	BIS-59	400.1281.1
	Control module double push-button	BIS-52	400.1276.1
	Control module double push-button for high switching current (up to 2 A)	BIS-60	400.1280.1
	Control module double push-button with potentiometer 1 kΩ	BIS-64	400.1327.1
	Control module double push-button with potentiometer 2.2 kΩ	BIS-74	400.1328.1
	Control module double push-button with potentiometer 4.7 kΩ	BIS-84	400.1329.1
	Control module double push-button with potentiometer 10 kΩ	BIS-54	400.1278.1
	Control module double push-button with potentiometer 47 kΩ	BIS-94	400.1330.1
	Control module double push-button with compensator	BIS-67	400.1282.1
	Control module UP / DOWN (device-dependent)	BIS-65	400.1279.1
	Control module UP / DOWN (compatible with Stel® / CEA®)	BIS-85	400.1367.1
	Control module UP / DOWN (compatible with Lorch®)	BIS-95	400.1277.1
	Control module UP / DOWN (compatible with CEA®)	BIS-98	400.1368.1
	Control module single push-button with rubber calotte	BIS-R1	400.1378.1

<sup>1</sup> apart from TIG welding torches ABITIG® GRIP with rotary valve and TIG machine torches

## II. Handles ABITIG® GRIP Little and control modules

Type	Description	Details	Part-No.
all ABITIG® GRIP Little torches <sup>1</sup>	Handle ABITIG® GRIP Little, without control module		180.0131.1
all ABITIG® GRIP Little torches <sup>1</sup>	Control module single push-button	BIS-51	400.1296.1
	Control module double push-button	BIS-52	400.1292.1
	Control module UP / DOWN (device-dependent)	BIS-55	400.1388.1
	Control module UP / DOWN (device-dependent)	BIS-65	400.1318.1
	Control module UP / DOWN (compatible with Stel® / CEA®)	BIS-85	400.1375.1
	Control module UP / DOWN (compatible with Lorch®)	BIS-95	400.1354.1
	Lid (5 pcs.)	BIS-57	400.1402.5

<sup>1</sup> apart from TIG welding torches ABITIG® GRIP with rotary valve and TIG machine torches

## III. Handles and rotary valves

Type	Description	Part-No.
ABITIG® 9 V / 17 V / 17 FV	Handle	705.1440
	Rotary valve	705.0046
ABITIG® 26 V / 26 FV	Handle	705.0096
	Rotary valve	705.0097

# Handles and Modules

## Handle ABITIG® GRIP Little



**BIS-51**  
ED = Single push-button



**BIS-52**  
DD = Double push-button /  
Button short (in Torch-Price-List  
Standard, under DD)



**BIS-55**  
UD = UP / DOWN  
(device-dependent)



**BIS-65**  
UD = UP / DOWN  
(device-dependent)



**BIS-85**  
UD = UP / DOWN  
(compatible with Stel® / CEA®)



**BIS-95**  
UD = UP / DOWN  
(compatible with Lorch®)



**BIS-57**  
Lid (5 pcs.)



appropriate handle  
Part-No.: 180.0131.1

### Abbreviations for switch functions:

- ED Single push-button
- DD Double push-button
- UD UP / DOWN (two switches)
- EDP<sup>1</sup> Single push-button with potentiometer 10 kΩ,  
other factors on request  
(e.g. 1.0 kΩ, 2.2 kΩ, 4.7 kΩ, 47 kΩ)
- DDP<sup>1</sup> Double push-button with potentiometer 10 kΩ,  
other factors on request  
(e.g. 1.0 kΩ, 2.2 kΩ, 4.7 kΩ, 47 kΩ)

<sup>1</sup>In the case of potentiometer regulation in the handle, an HF-filter is essential if the potentiometer cable runs through the remote control connector and is started with high voltage pulses. If there is no HF-filter, the HF pulses may damage the control electronics.

Please order the HF-control cable filter DGF 3 by using the Part-No. 184.0162.

## Handle ABITIG® GRIP



**BIS-51**  
ED = Single push-button



**BIS-52**  
DD = Double push-button /  
Button long



**BIS-54 / -64 / -74 / -84 / -94**  
DDP = Double push-button /  
Poti xx kΩ (see page 44)



**BIS-59**  
EDP = Single push-button /  
Poti 10 kΩ (compatible with  
Migatronik®, 3 pole)



**BIS-60**  
DD = Double push-button /  
Button long for high switching  
current up to 2 A



**BIS-65**  
UD = UP / DOWN  
(device-dependent)



**BIS-67**  
DD = Double push-button /  
Compensator



**BIS-85**  
UD = UP / DOWN  
(compatible with Stel® / CEA®)



**BIS-95**  
UD = UP / DOWN  
(compatible with Lorch®)



**BIS-98**  
UD = UP / DOWN  
(compatible with CEA®)



**BIS-R1**  
ED = Single push-button  
with rubber calotte



appropriate handle  
Part-No.: 180.0130.1





# Plasma Torches

## Plasma Cutting Torches

- ABIPLAS® CUT 70 / ABIPLAS® CUT 70 MT
- ABIPLAS® CUT 110 / ABIPLAS® CUT 110 MT
- ABIPLAS® CUT 150 / ABIPLAS® CUT 150 MT
- ABIPLAS® CUT 200 W / ABIPLAS® CUT 200 W MT
- ABICUT 25K / ABICUT 45
- ABICUT 75

## Plasma Welding Torches

- ABIPLAS® WELD 100 W / 150 W / 100 W MT / 150 W MT

## Spare Parts

- Cable assembly components and Cable assemblies, Hoses, Handles and so on ...

# Plasma Cutting Torches "ABIPLAS® CUT" air cooled

## Rating up to 70 A

Torches in the ABIPLAS® CUT series can be used for plasma cutting with compressed air as the plasma and cooling gas in all common cutting positions.

Thanks to a large selection of plasma nozzles, electrodes and accessory parts, ABICOR BINZEL plasma cutting torches are suitable for individual continual use even under the toughest of conditions. Special torches are available for automated applications.

- Robust design and optimum cooling guarantee long torch and consumable life
- Handle with extended trigger offering increased distance between plasma jet and hand facilitating safer and fatigue free working
- Quickly exchangeable consumables (including insulator) – easy handling
- Large range of consumables, equipment and accessories – for all cutting tasks

ABIPLAS® CUT 70



ABIPLAS® CUT 70 MT

### ABIPLAS® CUT 70 ABIPLAS® CUT 70 MT

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

Type of cooling:	air cooled
Pilot current:	15–22 A (max. 25 A)
Rating:	70 A (at 60% Duty cycle) 50 A (at 100% Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 155 l/min.
Working pressure:	5–5.5 bar
Air valve defined with nozzle size 1.1 mm:	
– Plasma air:	approx. 22 l/min.
– Soft start air:	≥ 12 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV
Cutting thickness:	max. 25 mm at 70 A depending on material to be cut and power source

Torch complete		Part-No.
Type	Connector	6 m <sup>1</sup>
ABIPLAS® CUT 70	Single connector G1/4"	742.D004
ABIPLAS® CUT 70	Central connector <sup>2</sup>	742.D037
ABIPLAS® CUT 70 MT	Single connector G1/4"	742.D110
ABIPLAS® CUT 70 MT	Central connector <sup>2</sup>	742.D111

<sup>1</sup> Other lengths on request.

<sup>2</sup> For user's safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.



In case of order, please indicate the machine type and the plug encoding.

Torch body	
Type	Part-No.
ABIPLAS® CUT 70	742.D022
ABIPLAS® CUT 70	742.D022
ABIPLAS® CUT 70 MT	742.D109
ABIPLAS® CUT 70 MT	742.D109





# ABIPLAS® CUT 70, ABIPLAS® CUT 70 MT


## Wear parts


<b>Insulator</b> (2 pcs.)				
	742.D012			


<b>Electrode</b>		<b>Standard</b> (10 pcs.)		<b>long</b> (5 pcs.)
		742.D056		742.D057


<b>Swirl ring</b> (2 pcs.)				
	742.D073			

<b>Nozzle</b>		<b>Standard</b>		<b>Standard cross groove</b> (10 pcs.)		<b>long</b>		<b>long cross groove</b> (5 pcs.)
		(10 pcs.)		(10 pcs.)	(5 pcs.)		(5 pcs.)	
Ø 0.9 mm / 30 A		742.D008		742.D027		742.D014		742.D029
Ø 1.1 mm / 30-50 A		-		-		742.D038		-
Ø 1.1 mm / 30-60 A		742.D018		742.D028		-		-
Ø 1.2 mm / 50-70 A		742.D041		-		-		-


<b>Shield cap</b> (1 pc.)				
	742.D078			

<b>Spatter guard</b> (1 pc.)				
	742.D113			

<b>Distance holder</b> <sup>1</sup> (2 pcs.)		Distance spring		
		742.D010	-	-

<b>Distance holder</b> <sup>1</sup> (1 pc.)		Bevel cutting nozzle		
		742.D114	-	-

<b>Distance holder</b> <sup>1</sup> (1 pc.)		Castellated nozzle long		
		-	-	742.D060

<b>Distance holder</b> <sup>1</sup> (2 pcs.)		Perforation cap		
		742.D063	-	-

<sup>1</sup> Only for manual torches.

# Plasma Cutting Torches "ABIPLAS® CUT" air cooled

## Rating up to 110 A

- Robust design and optimum cooling guarantee long torch and consumable life
- Handle with extended trigger offering increased distance between plasma jet and hand facilitating safer and fatigue free working
- Quickly exchangeable consumables (including insulator) – easy handling
- Large range of consumables, equipment and accessories – for all cutting tasks

ABIPLAS® CUT 110



ABIPLAS® CUT 110 MT

### ABIPLAS® CUT 110 ABIPLAS® CUT 110 MT

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

Type of cooling:	air cooled
Pilot current:	15–25 A (max. 27 A)
Rating:	110 A (at 60% Duty cycle) 90 A (at 100% Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 180 l/min.
Working pressure:	5–5.5 bar
Air value defined with nozzle size 1.4 mm:	
– Plasma air:	approx. 30 l/min.
– Soft start air:	≥ 15 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV
Cutting thickness:	max. 40 mm at 110 A depending on material to be cut and power source

Torch complete		Part-No.
Type	Connector	6 m <sup>1</sup>
ABIPLAS® CUT 110	Single connector G1/4"	745.D001
ABIPLAS® CUT 110	Central connector <sup>2</sup>	745.D048
ABIPLAS® CUT 110 MT	Single connector G1/4"	745.D035
ABIPLAS® CUT 110 MT	Central connector <sup>2</sup>	745.D059

Torch body		Part-No.
Type		
ABIPLAS® CUT 110		745.D025
ABIPLAS® CUT 110		745.D025
ABIPLAS® CUT 110 MT		745.D051
ABIPLAS® CUT 110 MT		745.D051

<sup>1</sup> Other lengths on request.

<sup>2</sup> For user's safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.

In case of order, please indicate the machine type and the plug encoding.





# ABIPLAS® CUT 110, ABIPLAS® CUT 110 MT

## Wear parts

<b>Insulator</b> (1 pc.)		745.D020
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<b>Electrode</b> (5 pcs.)		<b>Standard</b> 745.D008		<b>long</b> 745.D016
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<b>Swirl ring</b> (2 pcs.)		745.D113
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<b>Nozzle</b> (5 pcs.)		<b>Standard</b>		<b>Gouging nozzle</b>		<b>long</b>		<b>long cross groove</b>
Ø 1.0 mm / 30-50 A	745.D018	-	-	-	-	-	-	-
Ø 1.2 mm / 40-70 A	745.D010	-	-	-	-	-	-	-
Ø 1.2 mm / 50 A	-	-	-	745.D066	-	-	745.D068	-
Ø 1.4 mm / 70-90 A	745.D017	-	-	-	-	-	-	-
Ø 1.6 mm / 90-110 A	745.D065	-	-	-	-	-	-	-
Gouging nozzle	-	745.D067	-	-	-	-	-	-

<b>Shield cap</b> (1 pc.)		745.D204
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<b>Spatter guard</b> (1 pc.)		757.D092
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<b>Distance holder</b> <sup>1</sup> (2 pcs.)		Distance spring	745.D012	-	-	-
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<b>Distance holder</b> <sup>1</sup> (1 pc.)		Bevel cutting nozzle	757.D090	-	-	-
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<b>Distance holder</b> <sup>1</sup> (1 pc.)		Perforation cap	757.D098	-	-	-
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<sup>1</sup> Only for manual torches.

# Plasma Cutting Torches "ABIPLAS® CUT" air cooled

## Rating up to 150 A

- Robust design and optimum cooling guarantee long torch and consumable life
- Handle with extended trigger offering increased distance between plasma jet and hand facilitating safer and fatigue free working
- Quickly exchangeable consumables (including insulator) – easy handling
- Large range of consumables, equipment and accessories – for all cutting tasks

ABIPLAS® CUT 150



ABIPLAS® CUT 150 MT



### ABIPLAS® CUT 150 ABIPLAS® CUT 150 MT

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

Type of cooling:	air cooled
Pilot current:	15–27 A (max. 29 A)
Rating:	150 A (at 60% Duty cycle) 120 A (at 100% Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 235 l/min.
Working pressure:	5–5.5 bar
Air valve defined with nozzle size 1.8 mm:	
– Plasma air:	approx. 39 l/min.
– Soft start air:	≥ 15 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV
Cutting thickness:	max. 55 mm at 150 A depending on material to be cut and power source

Torch complete		
Type	Connector	Part-No. 6 m <sup>1</sup>
ABIPLAS® CUT 150	Single connector G1/4"	757.D001
ABIPLAS® CUT 150	Central connector <sup>2</sup>	757.D023
ABIPLAS® CUT 150 MT	Single connector G1/4"	757.D029
ABIPLAS® CUT 150 MT	Central connector <sup>2</sup>	757.D033

Torch body	
Type	Part-No.
ABIPLAS® CUT 150	757.D020
ABIPLAS® CUT 150	757.D020
ABIPLAS® CUT 150 MT	757.D028
ABIPLAS® CUT 150 MT	757.D028












<sup>1</sup> Other lengths on request.

<sup>2</sup> For user's safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.

In case of order, please indicate the machine type and the plug encoding.

# ABIPLAS® CUT 150, ABIPLAS® CUT 150 MT

## Wear parts

<b>Insulator</b> (1 pc.)		757.D032		
<b>Electrode</b> (5 pcs.)		<b>Standard</b>		<b>long</b>
		757.D008		757.D017
<b>Swirl ring</b> (2 pcs.)		757.D060		
<b>Nozzle</b> (5 pcs.)		<b>Standard</b>		<b>long cross groove</b>
Ø 1.2 mm / 50 A	-	-	-	757.D016
Ø 1.2 mm / 70 A	757.D037	-	-	-
Ø 1.5 mm / 70-90 A	757.D009	-	-	-
Ø 1.6 mm / 90-120 A	757.D010	-	-	-
Ø 1.8 mm / 120-150 A	757.D011	-	-	-
Gouging nozzle	-	757.D015	-	-
<b>Shield cap</b> (1 pc.)		757.D091		
<b>Spatter guard</b> (1 pc.)		757.D092		
<b>Distance holder</b> <sup>1</sup> (2 pcs.)		Distance spring		
	745.D012	-	-	
<b>Distance holder</b> <sup>1</sup> (1 pc.)		Bevel cutting nozzle		
	757.D090	-	-	
<b>Distance holder</b> <sup>1</sup> (1 pc.)		Perforation cap		
	757.D098	-	-	

<sup>1</sup> Only for manual torches.

# Plasma Cutting Torches "ABIPLAS® CUT"

## Liquid cooled · Rating up to 200 A

A striking design featuring innovative technology – ABIPLAS® CUT 200 W the liquid cooled plasma cutting torch from ABICOR BINZEL (in manual or robotic compatible version).

Directly cooled, long-life electrodes, extended life nozzles and straightforward construction with only a few easily replaceable wear-parts. These are just some of the "cutting edge" highlights of this product.

Highly efficient, superb cutting performance and flexibility for best results in daily use.



ABIPLAS® CUT 200 W



ABIPLAS® CUT 200 W MT

### ABIPLAS® CUT 200 W ABIPLAS® CUT 200 W MT

#### Wear parts standard / special Technical data (EN 60 974-7):

Type of cooling:	liquid cooled
Pilot current:	15–27 A (max. 29 A)
Rating:	200 A / 160 A (at 100% Duty cycle)
Type of gas:	Compressed air
Working pressure:	3.5–4.5 bar / 3.5 bar
Air value defined with nozzle size 1.8 mm:	
– Plasma air:	approx. 39 l/min. / approx. 21 l/min.
– Soft start air:	≥ 15 l/min.
Gas post flow:	≥ 20 s
Type of ignition:	HF
Gas supply:	Compressed air for plasma gas
Ignition voltage:	7 kV
Cutting thickness:	max. 70 mm at 200 A / max. 60 mm at 160 A depending on material to be cut and power source

#### Torch complete (Wear parts standard)

Type	Connector	Part-No.	
		6 m	12 m
ABIPLAS® CUT 200 W	Single connector	758.0050	758.0062
ABIPLAS® CUT 200 W MT	Single connector	758.1012	758.1019
ABIPLAS® CUT 200 W	Central connector <sup>1</sup>	758.0054	758.0063
ABIPLAS® CUT 200 W MT	Central connector <sup>1</sup>	758.1015	758.1020

#### Torch body

Type	Part-No.
ABIPLAS® CUT 200 W	758.0060
ABIPLAS® CUT 200 W MT	758.1016
ABIPLAS® CUT 200 W	758.0060
ABIPLAS® CUT 200 W MT	758.1016

#### Torch complete (Wear parts special)

Type	Connector	Part-No.	
		6 m	12 m
ABIPLAS® CUT 200 W	Single connector	758.0052	758.0064
ABIPLAS® CUT 200 W MT	Single connector	758.1014	758.1021
ABIPLAS® CUT 200 W	Central connector <sup>1</sup>	758.0061	758.0065
ABIPLAS® CUT 200 W MT	Central connector <sup>1</sup>	758.1018	758.1022


<sup>1</sup> For user's safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.


In case of order, please indicate the machine type and the plug encoding.





# ABIPLAS® CUT 200 W, ABIPLAS® CUT 200 W MT

## Wear parts

<b>Insulator</b> (1 pc.)			
	757.D032		




<b>Electrode</b> (10 pcs.)		<b>Standard</b>	
		758.0030	758.0031

<b>Swirl ring</b> (2 pcs.)		<b>Standard</b>	
		757.D060	758.0028

<b>Nozzle</b>	<b>Standard</b> (10 pcs.)	<b>Gouging nozzle<sup>2</sup></b> (1 pc.)	<b>Special<sup>1</sup></b> (10 pcs.)
Ø 1.0 mm / 40 A	758.0085	-	-
Ø 1.2 mm / 40-70 A	758.0035	-	758.0040
Ø 1.4 mm / 70-90 A	758.0036	-	758.0041
Ø 1.6 mm / 90-120 A	758.0037	-	758.0042
Ø 1.8 mm / 120-160 A	758.0038	-	758.0043
Ø 2.0 mm / 160-200 A	758.0039	-	758.0044
Gouging nozzle	-	758.0073	-

<b>Shield cap</b> (1 pc.)	
	758.0020

<b>Spatter guard</b> (10 pcs.)	
	758.0026

<b>Distance holder</b> (1 pc.)		<b>Perforation cap</b>		<b>Bevel cutting nozzle<sup>3</sup></b>		<b>Castellated nozzle</b>
		758.0070		758.0027		758.0069

<sup>1</sup> The "special" version is for plasma systems without a soft start, as well as for systems where the torch has ignition problems with the "standard version".

<sup>2</sup> Max. 150 A, it is used instead of the nozzle standard without distance holder.

<sup>3</sup> The bevel cutting nozzle is used for the MT-version only as adjustment aid.

# Plasma Cutting Torches "ABICUT" air cooled

## Rating up to 40 A

Air cooled Plasma Cutting Torches ABICUT are particularly suitable for plasma cutting applications in the range of 20 to 75 Amps in all cutting positions. Robust in construction, innovative in design.

- Ergonomic designed, short handle – optimal handling
- Innovative trigger guard – for safe operating

- Positive trigger action – comfortable functioning
- Robust construction and optimal cooling – long lifetime of torch and wear parts
- Contact ignition reduces costs for thermal cutting
- Compatible with all popular plasma cutting power sources

ABICUT 25K

ABICUT 45

### ABICUT 25K

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

Type of cooling:	air cooled
Pilot current:	10–15 A (max. 18 A)
Rating:	20 A (at 35% Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 29 l/min.
Working pressure:	2 bar
Air valve defined with nozzle size 0.65 mm:	
– Plasma air:	approx. 8.5 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	Contact
Gas supply:	Compressed air both for plasma and cooling gas
Cutting thickness:	6 mm at 20 A depending on material to be cut and power source

### ABICUT 45

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

Type of cooling:	air cooled
Pilot current:	10–15 A (max. 18 A)
Rating:	40 A (at 60% Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 119 l/min.
Working pressure:	5 bar
Air valve defined with nozzle size 0.8 mm:	
– Plasma air:	approx. 15.5 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	Contact
Gas supply:	Compressed air both for plasma and cooling gas
Cutting thickness:	10 mm at 40 A depending on material to be cut and power source

Torch complete		Part-No.	
Type	Connector	4 m	6 m
ABICUT 25K (2-core)	Single connector	748.0054.1	-
ABICUT 25K (4-core)	Single connector	748.0047.1	-
ABICUT 45	Single connector G1/4"	-	748.0046.1
ABICUT 45	Central connector <sup>1</sup>	-	748.0056.1

Torch body		Part-No.
Type		Part-No.
ABICUT 25K / 45		748.0020.1
ABICUT 25K / 45		748.0020.1
ABICUT 25K / 45		748.0020.1
ABICUT 25K / 45		748.0020.1





<sup>1</sup> For user's safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.  
In case of order, please indicate the machine type and the plug encoding.

# ABICUT 25K, ABICUT 45

## Wear parts



### ABICUT 25K



### ABICUT 45


				
<b>Electrode</b> (10 pcs.)	<b>Standard</b>	<b>long</b>	<b>Standard</b>	<b>long</b>
	748.0032.10	748.0048.10	748.0032.10	748.0048.10

		
<b>Swirl ring</b> (2 pcs.)		
	748.0033.2	748.0033.2

				
<b>Nozzle</b> (10 pcs.)	<b>Standard</b>	<b>long with cross groove</b>	<b>Standard</b>	<b>long with cross groove</b>
∅ 0.65 mm / 20-25 A	748.0034.10	-	748.0034.10	-
∅ 0.80 mm / 20-40 A	748.0035.10	-	748.0035.10	-
∅ 0.90 mm / 20-40 A	-	748.0049.10	-	748.0049.10
∅ 1.00 mm / 30-40 A	748.0061.10	-	748.0061.10	-

		
<b>Shield cap</b> (2 pcs.)		
25 A / 45 A	748.0042.2	748.0043.2
30 A (3-hole)	748.0063.2	-
35 A (4-hole)	748.0052.2	-

		
<b>Distance spring</b> (5 pcs.)		
	748.0050.5	748.0050.5

	
<b>Multiple spanner</b> (1 pc.)	
	748.0059.1

# Plasma Cutting Torches "ABICUT" air cooled

## Rating up to 75 A

- Ergonomic designed, short handle - optimal handling
- Innovative trigger guard - for safe operating
- Positive trigger action - comfortable functioning
- Robust construction and optimal cooling - long lifetime of torch and wear parts
- Contact ignition reduces costs for thermal cutting
- Compatible with all popular plasma cutting power sources
- Shock resistant shield cap from special material
- Two stage distance shield for best cutting results in high and low amp area
- Optional with coaxial cable
- Optional in HF version

ABICUT 75

ABICUT 75 Coaxial cable

### ABICUT 75 ABICUT 75 HF ABICUT 75 Coaxial cable ABICUT 75 HF Coaxial cable

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

Type of cooling:	air cooled
Pilot current:	15-22 A (max. 25 A)
Rating:	75 A (at 60% Duty cycle)
Type of gas:	Compressed air
Gas flow:	approx. 135 l/min.
Working pressure:	5-5.5 bar
Air value defined with nozzle size 1.2 mm:	
- Plasma air:	approx. 25 l/min.
- Soft start air:	≥ 12 l/min.
Gas post flow:	≥ 60 s
Type of ignition:	Contact / HF
Gas supply:	Compressed air both for plasma and cooling gas
Ignition voltage:	7 kV (HF)
Cutting thickness:	20 mm at 75 A depending on material to be cut and power source

Torch complete		Part-No.
Type	Connector <sup>1</sup>	6 m
ABICUT 75	Single connector G1/4"	748.0124.1
ABICUT 75	Central connector <sup>2</sup>	748.0130.1
ABICUT 75 HF	Single connector G1/4"	748.0125.1
ABICUT 75 HF	Central connector <sup>2</sup>	748.0131.1
ABICUT 75 Coaxial cable	Central connector <sup>2</sup>	748.0132.1
ABICUT 75 HF Coaxial cable	Central connector <sup>2</sup>	748.0133.1

Torch body		Part-No.
Type		
ABICUT 75		748.0100.1
ABICUT 75		748.0100.1
ABICUT 75 HF		748.0100.1
ABICUT 75 HF		748.0100.1
ABICUT 75 Coaxial cable		748.0100.1
ABICUT 75 HF Coaxial cable		748.0100.1

<sup>1</sup> Other machine side connections on request.

<sup>2</sup> For user's safety, please pay attention that the power source is equipped with a central socket corresponding to EN 60 974-1.

In case of order, please indicate the machine type and the plug encoding.

# ABICUT 75

## Wear parts




### Standard


### HF version


			
<b>Cooling tube</b> (2 pcs.)	<b>Standard</b>	<b>Standard</b>	<b>long</b>
	748.0116.2	748.0116.2	748.0129.2


			
<b>Electrode</b> (10 pcs.)	<b>Standard</b>	<b>Standard</b>	<b>long</b>
	748.0118.10	748.0118.10	748.0128.10

		
<b>Swirl ring</b> (2 pcs.)		
	748.0108.2	748.0117.2

			
<b>Nozzle</b> (10 pcs.)	<b>Standard</b>	<b>Standard</b>	<b>long</b>
∅ 1.0 mm / up to 55 A	748.0119.10	748.0119.10	-
∅ 1.2 mm / up to 75 A	748.0120.10	748.0120.10	-
∅ 1.0 mm / up to 50 A	-	-	748.0121.10
∅ 1.2 mm / up to 70 A	-	-	748.0122.10

	
<b>Pressure spring</b> (5 pcs.)	
	748.0107.5

	
<b>Shield cap</b> (2 pcs.)	
	748.0112.2

	
<b>Distance spring</b> (5 pcs.)	
	748.0115.5

	
<b>Distance shield</b> (2 pcs.)	
	748.0127.2

	
<b>Multiple spanner</b> (1 pc.)	
	748.0059.1

# Plasma Welding Torches "ABIPLAS® WELD"

## liquid cooled

ABIPLAS® WELD the plasma welding torch generation, economical and efficient, from ABICOR BINZEL. Thanks to their compact design ABIPLAS® WELD torches improve accessibility even on difficult component geometries. The very stable process permits spatter free welding and brazing, with high quality joint characteristics. Suitable for both manual and machine welding.



ABIPLAS® WELD 100 W

ABIPLAS® WELD 150 W



ABIPLAS® WELD  
100 W MT

ABIPLAS® WELD  
150 W MT

### ABIPLAS® WELD 100 W ABIPLAS® WELD 100 W MT

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

Type of cooling:	liquid cooled
Welding current:	3 - 100 A
Duty cycle:	100%
Welding speed:	Vs up to 1.5 m/min.
Electrode diameter:	0.8 - 3.6 mm
Required cooling capacity:	1.1 KW

### ABIPLAS® WELD 150 W ABIPLAS® WELD 150 W MT

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

Type of cooling:	liquid cooled
Welding current:	15 - 150 A
Duty cycle:	100%
Welding speed:	Vs bis 4.0 m/min.
Electrode diameter:	1.2 - 3.0 mm
Required cooling capacity:	1.5 KW

Torch complete		Part-No.	
Type	Connector <sup>1</sup>	4 m	8 m
ABIPLAS® WELD 100 W	Central connector	698.0075	698.0085
ABIPLAS® WELD 100 W MT 70	Central connector	698.1010	698.1011
ABIPLAS® WELD 100 W MT	Central connector	698.1013	698.1014
ABIPLAS® WELD 150 W	Central connector	698.2023	698.2024
ABIPLAS® WELD 150 W MT 70	Central connector	698.3009	698.3010
ABIPLAS® WELD 150 W MT	Central connector	698.3011	698.3012

Torch body	
Type	Part-No.
ABIPLAS® WELD 100 W	698.0001
ABIPLAS® WELD 100 W MT 70	698.0134
ABIPLAS® WELD 100 W MT	698.1001
ABIPLAS® WELD 150 W	698.2001
ABIPLAS® WELD 150 W MT 70	698.2080
ABIPLAS® WELD 150 W MT	698.3001

<sup>1</sup> Other versions (single or central adaptor) available on request.



# ABIPLAS® WELD 100 W / MT

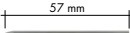
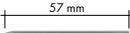
# ABIPLAS® WELD 150 W / MT

## Wear parts



### ABIPLAS® WELD 100 W / MT





### ABIPLAS® WELD 150 W / MT


		
<b>Torch cap</b> (1 pc.)		
Ø 1.0 mm	698.0058	-
Ø 1.6 mm	698.0059	698.2033
Ø 2.4 mm	698.0016	698.2030
Ø 3.2 mm	698.0027	698.2012

		
<b>Tungsten electrode</b> (10 pcs.)		
Ø 1.0 mm	698.0064	-
Ø 1.6 mm	698.0065	698.0065
Ø 2.4 mm	698.0066	698.0066
Ø 3.2 mm	698.0067	698.0067

		
<b>Centering ceramic</b> (1 pc.)		
Ø 1.0 mm	698.0054	-
Ø 1.6 mm	698.0055	698.2035
Ø 2.4 mm	699.0081	698.2032
Ø 3.2 mm	698.0029	698.2020

		
<b>Insulating ring</b> (1 pc.)		
	698.0048	699.0041

				
<b>Nozzle</b>	(10 pcs.)	(10 pcs.)	(10 pcs.)	(5 pcs.)
Ø 0.8 mm	698.0060	698.0077	-	-
Ø 1.2 mm	698.0061	698.0078	698.2036	-
Ø 1.4 mm	-	-	698.2037	-
Ø 1.6 mm	-	-	698.2038	698.2057
Ø 1.7 mm	698.0062	698.0079	-	-
Ø 1.8 mm	-	-	698.2014	-
Ø 2.0 mm	-	-	698.2015	698.2058
Ø 2.3 mm	698.0019	698.0080	698.2016	-
Ø 2.6 mm	698.0063	698.0081	698.2017	698.2059
Ø 3.0 mm	698.0030	-	698.2018	-
Ø 3.6 mm	698.0053	-	698.2086	-

		
<b>Gas diffuser</b> (2 pcs.)		
	698.0012.2	698.2009.2

					
<b>Shielding gas nozzle</b> (10 pcs.)					
	698.0015	698.0082	699.0071	698.2087.10	698.2060

				
<b>Adjust gauge</b> (1 pc.)				
	698.0018	698.0083	698.2019	698.2062

# Cable assembly components and Cable assemblies

## I. Cable assembly components Plasma Cutting Torches air cooled

Type	Power cable		Pilot cable 1 pole	Control cable per 100 m	
	4 m	6 m	per 100 m	2 pole	3 pole
ABIPLAS® CUT 70	-	116.D003	100.0074	-	100.0100
ABIPLAS® CUT 70 MT	-	116.D003	100.0074	-	100.0100
ABIPLAS® CUT 110	-	116.D003	100.0074	-	100.0100
ABIPLAS® CUT 110 MT	-	116.D003	100.0074	-	100.0100
ABIPLAS® CUT 150	-	116.D004	100.0074	-	100.0100
ABIPLAS® CUT 150 MT	-	116.D004	100.0074	-	100.0100

## II. Cable assemblies Plasma Cutting Torches air cooled

Type	Description	4 m		6 m	
				Single connector	Central connector
ABICUT 25K	4-core	748.0045.1	-	-	-
ABICUT 25K	2-core	748.0055.1	-	-	-
ABICUT 45		-	748.0044.1	748.0057.1	
ABICUT 75	Standard / HF	-	748.0123.1	748.0123.1	
ABICUT 75	Coaxial cable / Standard / HF	-	-	748.0134.1	

## III. Cable assembly components Plasma Cutting Torches liquid cooled

Type	Power cable SC		Power cable CC		Pilot cable 1 pole per 100 m	Control cable 2 pole per 100 m
	6 m	12 m	6 m	12 m		
ABIPLAS® CUT 200 W	115.0520	115.0525	115.0522	115.0526	100.0074	100.0099
ABIPLAS® CUT 200 W MT	115.0520	115.0525	115.0522	115.0526	100.0074	100.0099

## IV. Cable assembly components Plasma Welding Torches liquid cooled

Type	Power cable 1		Power cable 2		Pilot cable 1 pole per 100 m	Control cable 7 pole per 100 m
	4 m	8 m	4 m	8 m		
ABIPLAS® WELD 100 W	150.0123	150.0124	150.0125	150.0126	100.0074	100.0112
ABIPLAS® WELD 100 W MT	150.0123	150.0124	150.0125	150.0126	100.0074	100.0112
ABIPLAS® WELD 150 W	150.0123	150.0124	150.0125	150.0126	100.0074	100.0112
ABIPLAS® WELD 150 W MT	150.0123	150.0124	150.0125	150.0126	100.0074	100.0112



# Hoses and Hose clamps

## V. Gas hoses, Water hoses and Outer hoses

Type	Gas hose per 100 m	Water hose (feed) per 100 m	Water hose (return) per 100 m	Outer hose	
				6 m	40/60 m
ABIPLAS® CUT 70	-	-	-	107.D004 <sup>1</sup>	-
ABIPLAS® CUT 70 MT	-	-	-	107.D004 <sup>1</sup>	-
ABIPLAS® CUT 110	-	-	-	107.D004 <sup>1</sup>	-
ABIPLAS® CUT 110 MT	-	-	-	107.D004 <sup>1</sup>	-
ABIPLAS® CUT 150	-	-	-	107.D005 <sup>1</sup>	-
ABIPLAS® CUT 150 MT	-	-	-	107.D005 <sup>1</sup>	-
ABIPLAS® CUT 200 W	109.0032	109.0057	109.0056	-	107.0004 <sup>2</sup>
ABIPLAS® CUT 200 W MT	109.0032	109.0057	109.0056	-	107.0004 <sup>2</sup>
AUT PSB 121 L	102.0124	-	-	-	105.0005 <sup>2</sup>
ABIPLAS® WELD 100 W	109.0055	109.0011	109.0011	-	105.0005 <sup>2</sup>
ABIPLAS® WELD 100 W MT	109.0055	109.0011	109.0011	-	105.0005 <sup>2</sup>
ABIPLAS® WELD 150 W	109.0055	109.0011	109.0011	-	105.0005 <sup>2</sup>
ABIPLAS® WELD 150 W MT	109.0055	109.0011	109.0011	-	105.0005 <sup>2</sup>

## VI. Leather hoses and hose coupling

Type	Description	Part-No.
ABIPLAS® WELD 100 W	Leather hose 0.8 m	108.0028
ABIPLAS® WELD 150 W		
ABIPLAS® WELD 100 W	Hose coupling complete for connecting leather and outer hose	400.0391
ABIPLAS® WELD 150 W		

## VII. Hose clamps

Type	Part-No. (100 pcs.)	for hose					
		102.0124	109.0011	109.0032	109.0055	109.0056	109.0057
Hose clamp Ø=9.0 with ring (mark. 9.5)	173.0001	•		•		•	•
Hose clamp Ø=6.2 with ring (mark. 6.6)	173.0006				•		
Hose clamp Ø=7.5 with ring (mark. 8.0)	173.0007		•				
Hose clamp Ø=5.7 with ring (mark. 6.1)	173.0008				•		

# Handles, Handle tubes, Torch carriage and Condensate filter

## VIII. Handles, Control modules, Trigger, Switch guard and ball and socket joint / Sleeve

Type	Handle	Control module Up/Down	Trigger	Switch guard	Ball and socket joint / Sleeve
ABIPLAS® CUT 70	745.D046	-	185.D065	400.D252	-
ABIPLAS® CUT 110	745.D046	-	185.D065	400.D252	-
ABIPLAS® CUT 150	757.D003	-	185.D065	400.D252	-
ABIPLAS® CUT 200 W	758.D001	-	185.D039	-	-
PSB 31 KZS / KKS	742.0044	-	185.0010	-	002.0064
PSB 31 HFS	742.0044	-	185.0010	-	742.0185
PSB 60 S	743.0038	-	-	-	-
PSB 121 S	743.0038	-	-	-	-
ABIPLAS® WELD 100 W	180.0109	400.0940	-	-	400.0991
ABIPLAS® WELD 150 W	180.0109	400.0940	-	-	400.0991
ABICUT 25K	748.0053.1	-	185.0005	-	-
ABICUT 45	748.0053.1	-	185.0005	-	-
ABICUT 75	748.0053.1	-	185.0005	-	-

## IX. Handle tubes, Adaptors, Coupling nut, Cable support spring and Mounting

Type	Handle tube	Adapter for handle tube	Cable support spring	Mounting cpl.
ABIPLAS® CUT 70 MT	757.D087	500.D049	-	757.D089
ABIPLAS® CUT 110 MT	757.D087	500.D049	-	757.D089
ABIPLAS® CUT 150 MT	757.D087	400.0137	-	757.D089
ABIPLAS® CUT 200 W MT	758.1008	-	-	780.0260
AUT PSB 60 L	743.0211	-	-	-
AUT PSB 121 L	743.0211	-	-	-
ABIPLAS® WELD 100 W MT	698.1017	-	775.1341	780.0222
ABIPLAS® WELD 150 W MT	698.1017	-	775.1341	780.0222
ABIPLAS® WELD 100 W MT 70	698.1017	-	775.1341	780.0222
ABIPLAS® WELD 150 W MT 70	698.1017	-	775.1341	780.0222

## X. Torch carriage

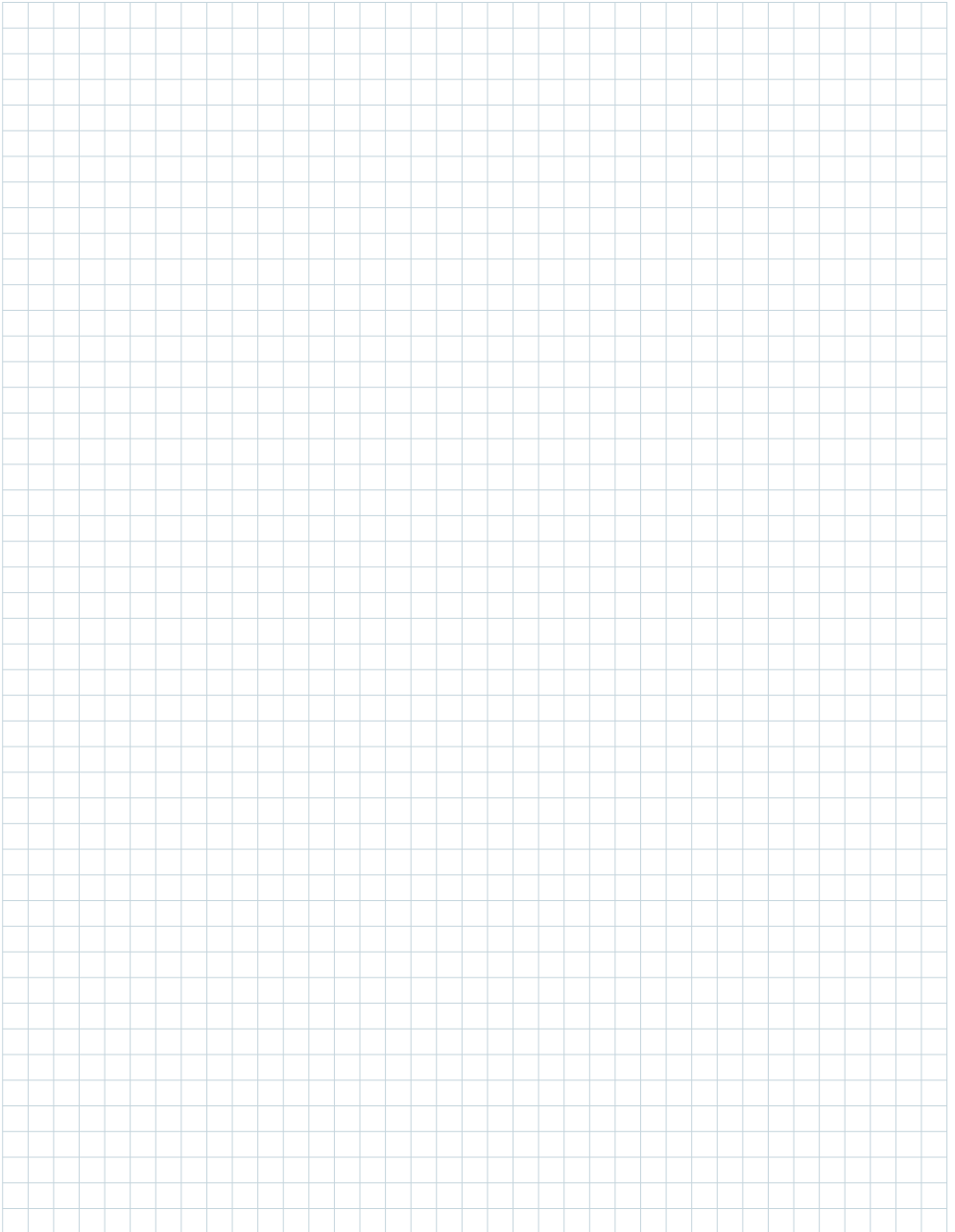
Type	Torch carriage	Extension cpl.		Extension arm holder	
		250 mm	440 mm	Centre pin	Thread
PSB 31	742.0187	-	743.0346	743.0342	743.0343
PSB 60 S / PSB 121 S with spring support	742.0027	-	743.0346	743.0342	743.0343
ABICUT 25 / 45	742.D121.1 <sup>1</sup>	742.D052	-	743.0342	-
ABIPLAS® CUT 70	742.D043	742.D052	-	743.0342	-
ABIPLAS® CUT 110	745.D070	742.D052	-	743.0342	-
ABIPLAS® CUT 150	745.D070	742.D052	-	743.0342	-
ABIPLAS® CUT 200 W MT	758.0056	742.D052	-	743.0342	-

<sup>1</sup> Torch carriage (742.D121.1) includes extension cpl. (742.D052) and centre pin (743.0342).

## XI. Condensate filter

Type	Part-No.
Condensate filter	743.0294
Condensate filter for replacement	743.0384

# Notes





# Electrode holders/Gouging torches

## Electrode holders

- DE 2200
- DE 2300
- DE 2400
- DE 2500

## Gouging torches

- K10
- K12
- K12 T
- K16
- K16 T
- K20

**Gouging electrodes TEAM BINZEL® "ABIARC"**

# Electrode holders

## DE 2200 / DE 2300 / DE 2400 / DE 2500

### The tough classics ...

The electrode holders are used for manual electrode welding. Manual electrode welding is one of the oldest and most miscellaneous arc welding operations that are still applied today. It stands out due to relatively low investment needs as well as its universal application possibilities. KURT HAUFE electrode holders "DE" are millionfold proven for decades and due to its extremely tough construction they are the optimum tool for the "outdoor professional" – amongst others in shipyards, pipeline construction and bridge building.

Besides the traditional version for connection via cable shoe the new "K"-series offers the possibility of direct clamp connection with the bare welding cable.

### Special features:

- High-tensile, heat insulated handle
- Mechanical and thermal heavy-duty insulating material
- Safe electrode voltage in four chip flutes
- Big electrode and welding cable connection area



### Technical data

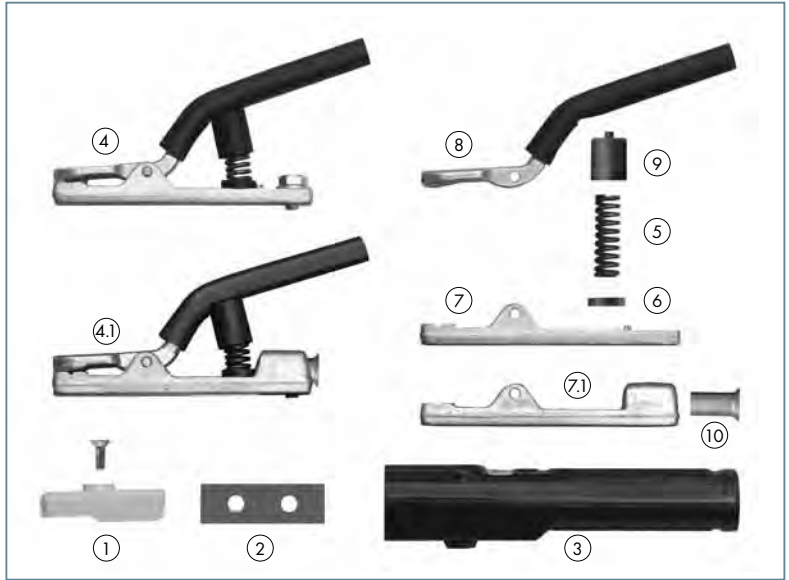
Type	Rating		Electrodes-Ø	Welding cable	Connection bolt <sup>2</sup>
	at 60% duty cycle	at 35% duty cycle			
DE 2200 / K <sup>1</sup>	200 A	250 A	2.0–4.0 mm	25 / 35 mm <sup>2</sup>	M8
DE 2300 / K <sup>1</sup>	300 A	400 A	2.0–6.3 mm	35 / 70 mm <sup>2</sup>	M8
DE 2400 / K <sup>1</sup>	200 A	500 A	4.0–8.0 mm	50 / 95 mm <sup>2</sup>	M10
DE 2500 / K <sup>1</sup>	200 A	600 A	4.0–10.0 mm	70 / 120 mm <sup>2</sup>	M10

<sup>1</sup> K=Clamp-connection via ferrule

<sup>2</sup> for cable shoe

# Electrode holders

DE 2200 / DE 2300 / DE 2400 / DE 2500



## Electrode holder cpl.

Type	Part-No.
Electrode holder DE 2200	512.D060
Electrode holder DE 2300	512.D070
Electrode holder DE 2400	512.D080
Electrode holder DE 2500	512.D090
Electrode holder DE 2200 K	512.D470
Electrode holder DE 2300 K	512.D471
Electrode holder DE 2400 K	512.D472
Electrode holder DE 2500 K	512.D480

## Wear parts

Pos.	Description	Part-No.			
		DE 2200 / K	DE 2300 / K	DE 2400 / K	DE 2500 / K
1	Insulating flange (2 pcs.)	512.D021	512.D031	512.D041	512.D091
2	Insulating plate	-	512.D032	512.D032	512.D032
3	Handle	512.D483.1	512.D486.1	512.D145	512.D145
4	Front part	512.D268	512.D384	512.D272	512.D274
4.1	Front part "K"	512.D473	512.D474	512.D447	512.D448
5	Pressure spring	512.D025	512.D035	512.D035	512.D035
6	Cap (5 pcs.)	512.D026	512.D036	512.D036	512.D036
7	Bottom part	512.D276	512.D278	512.D280	512.D282
7.1	Bottom part "K"	512.D416	512.D418	512.D422	512.D424
8	Lever	512.D028	512.D201	512.D048	512.D098
9	Insulating cap	512.D029	512.D039	512.D039	512.D039
10	Ferrule "K"	511.0048	511.0065	511.0104	511.0104

# Gouging torches

## K10 / K12 / K12T / K16 / K16T / K20



Technical data  
acc. to  
EN 60 974-11  
Type B:

Type	Rating max.	Duty Cycle	Round electrode	Flat electrode		Comp. air max.	Air duct Inner-Ø
				Width (mm)	Thickness (mm)		
K10	500 A	60%	4-10 mm	15/20	4	10 bar	9 mm
K12	600 A	60%	4-12 mm	15/20	4-5	10 bar	13 mm
K12T	600 A	60%	4-12 mm	15/20	4-5	10 bar	13 mm
K16	1000 A	60%	8-16 mm	15/20/25	4-5	10 bar	13 mm
K16T	1000 A	60%	8-16 mm	15/20/25	4-5	10 bar	13 mm
K20	1500 A	60%	8-19 mm	15/20/25	4-5	10 bar	13 mm

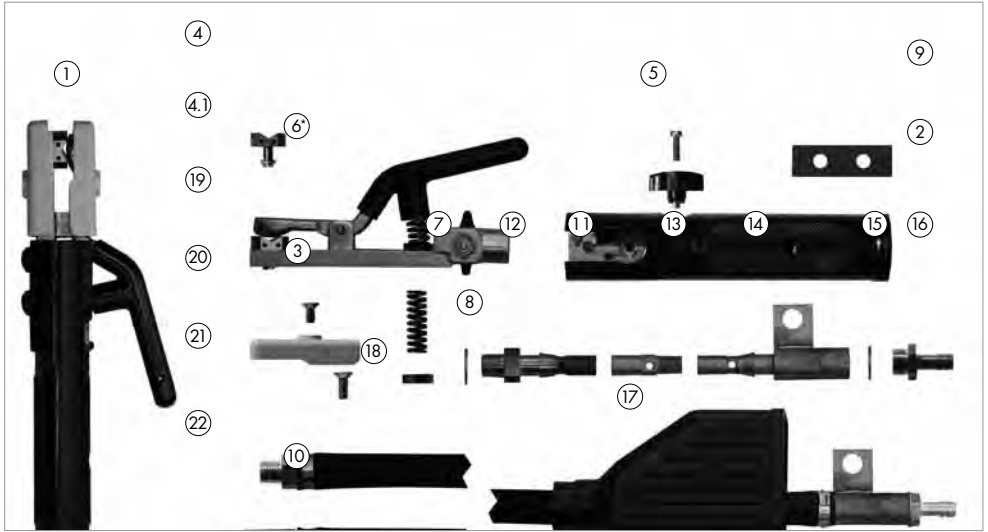
Type		Part-No.	
		2,1 m	3,0 m
Gouging torches K10	complete with cable assembly	516.D124	516.D001
Gouging torches K12	complete with cable assembly	516.D125	516.D002
Gouging torches K12T	complete with cable assembly	516.D154	516.D142
Gouging torches K16	complete with cable assembly	516.D126	516.D003
Gouging torches K16T	complete with cable assembly	516.D155	516.D150
Gouging torches K20	complete with cable assembly	-	516.D167.1





# Gouging torches

## Components and consumables



\* For type please see bottom pos. 6.

Pos.	Description	Part-No.					
		K10	K12	K12T	K16	K16T	K20
1	Gouging torches without hollow cable	516.D028	516.D028	516.D028	516.D040	516.D040	516.D195.1
2	Handle	516.D011	516.D011	516.D011	516.D011	516.D011	516.D011
3	Insulating jaw (packing unit 2 pcs.)	512.D091	512.D091	512.D091	516.D042	516.D042	516.D196.2
4	Nozzle for round electrode (2 bores)	516.D026	516.D026	516.D026	516.D044	516.D044	516.D044
4.1	Nozzle for round electrode (2 bores)	516.D175.5	516.D175.5	516.D175.5	516.D192.5	516.D192.5	516.D192.5
5	Cross knob	516.D012	516.D012	516.D012	516.D012	516.D012	516.D012
6	Front part, complete	516.D027	516.D027	516.D027	516.D041	516.D041	516.D168.1
7	Pressure spring	516.D013	516.D013	516.D013	516.D013	516.D013	516.D013
8	Cap	512.D036	512.D036	512.D036	512.D036	512.D036	512.D036
9	Insulating plate	512.D032	512.D032	2 x 512.D032	512.D032	2 x 512.D032	512.D032
10	Hollow cable, complete 2.1 m	516.D127	516.D129	516.D156	516.D130	516.D157	-
	Hollow cable, complete 3.0 m	516.D050	516.D018	516.D143	516.D048	516.D151	516.D197.1
11	Connecting piece	516.D051	516.D022	-	516.D043	-	516.D043
12	Seal ring (packing unit 10 pcs.)	516.D053	516.D053	516.D053	516.D053	516.D053	516.D053
13	Intermediate adapter	-	516.D160	516.D160	516.D161	516.D161	516.D161
14	Connecting piece	516.D135	516.D158	516.D158	516.D158	516.D158	516.D158
15	Seal ring (packing unit 10 pcs.)	001.D170	001.D170	001.D170	001.D170	001.D170	001.D170
16	Threaded nozzle	001.D171	001.D172	001.D172	001.D172	001.D172	001.D172
17	Insulating sleeve	516.D134	516.D134	516.D134	516.D134	516.D134	516.D134
18	Special hose for 2.1 m	516.D128	516.D131	-	516.D131	-	-
	Special hose for 3.0 m	516.D055	516.D021	-	516.D021	-	516.D021
19	Flat nozzle 15/20	516.D023	516.D023	516.D023	516.D023	516.D023	516.D023
20	Flat nozzle 15	516.D024	516.D024	516.D024	516.D024	516.D024	516.D024
21	Flat nozzle 20	516.D025	516.D025	516.D025	516.D025	516.D025	516.D025
22	Flat nozzle 25	-	-	-	516.D045	516.D045	516.D045

Subject to change without notice. Guarantee for genuine KURT HAUFE spares only.

# Gouging electrodes TEAM BINZEL®

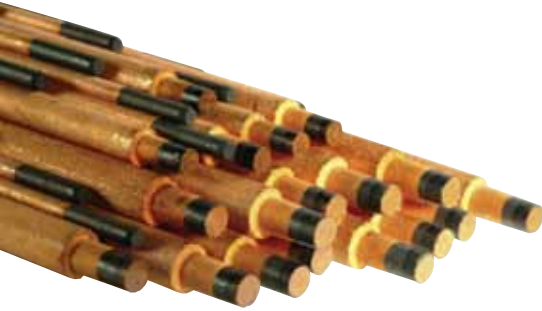
## ABIARC

### Pure efficiency ...

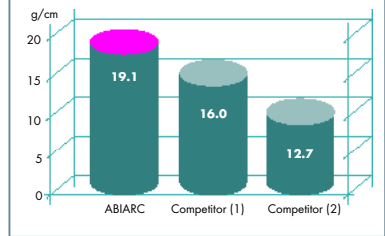
TEAM BINZEL® gouging electrodes are made of artificial graphite and have a pure copper coating. The gouging electrodes are available in the variety of shapes and diameters to meet the needs of various applications.

### Special features:

- Pure copper coated – good electric conductivity
- High density (made of artificial graphite) – high metal removal rate
- Less consumption of electrodes – cost reduction
- Constant quality – for a safe process
- High metal removal rate – effective process
- Extremely low burn back rate



**Weight of metal removal per length of electrode consumed.**



### Order overview ABIARC gouging electrodes

#### ABIARC gouging electrodes (DC) pointed

Type		Ampere	Pcs.	Part-No.
4 x 305 mm	(5/32" x 12")	250	50	515.0015
5 x 305 mm	(3/16" x 12")	300	50	515.0016
6.5 x 305 mm	(1/4" x 12")	400	50	515.0017
8 x 305 mm	(5/16" x 12")	500	50	515.0018
9.5 x 305 mm	(3/8" x 12")	600	50	515.0019
13 x 355 mm	(1/2" x 14")	900	50	515.0020

#### ABIARC gouging electrodes (AC) pointed

Type		Ampere	Pcs.	Part-No.
4 x 305 mm	(5/32" x 12")	250	50	515.0021
5 x 305 mm	(3/16" x 12")	300	50	515.0022
6.5 x 305 mm	(1/4" x 12")	350	50	515.0023
13 x 355 mm	(3/8" x 12")	450	50	515.0024

#### ABIARC gouging electrodes (DC) flat

Type		Ampere	Pcs.	Part-No.
10 x 5 x 305 mm		400	50	515.0025
15 x 5 x 305 mm		550	50	515.0026

#### ABIARC gouging electrodes (DC) jointed

Type		Ampere	Pcs.	Part-No.
9.5 x 430 mm	(3/8" x 17")	600	50	515.0027
13 x 430 mm	(1/2" x 17")	1400	50	515.0028
16 x 430 mm	(5/8" x 17")	1800	50	515.0029
19 x 430 mm	(3/4" x 17")	2000	50	515.0030

# Gouging electrodes TEAM BINZEL®

## ABIARC AL

**For lower emissions...**

This new type of carbon gouging electrodes with a special aluminum core provides less emission of hazardous substances such as carbon monoxide, chrome, nickel, cooper and iron. Electrodes ABIARC AL furthermore reduce the global fume and dust emission by up to 70%.



### **ABIARC gouging electrodes (AC) pointed with aluminium core**

Type		Ampere	Pcs.	Part-No.
6.5 x 305 mm	(1/4" x 12")	400	50	515.0032.50
8 x 305 mm	(5/16" x 12")	500	50	515.0033.50
9.5 x 305 mm	(3/8" x 12")	600	50	515.0034.50
13 x 355 mm	(1/2" x 14")	900	50	515.0035.50



# Accessories

## **Welding chemicals**

- Anti-spatter and coolant liquids

## **Torch function tester**

- BFPO01

## **Welding cable connector system**

- ABIPLUG

## **Welding accessories**

- Adapter pieces, double nipple and quick disconnectors

## **Cooling units**

- CR 1000/CR 1250
- Installation of the integrated flow switch

## **Automatic Welding Helmet**

- Anti-spatter and coolant liquids

## **Gas pressure regulators**

- Plug and weld! ABIPLUG – the reliable connection.

# Welding chemicals

## Anti-spatter and coolant liquids

### Anti-spatter liquids



1



2



3



4

#### 1 Super pistol spray

Protects against welding spatter in the gas nozzle area. Silicon free. Tried and tested classical product for extending the service life of gas nozzles and reducing spare part costs.

400 ml; PU=12; languages: CS/SK/PL/HU/HR/SL/SR/EN  
400 ml; PU=12; languages: RU/UK/KK/LT/LV/ET/BG/RO

Part-No.: 192.0107  
Part-No.: 192.0213.1

#### 2 Super pistol spray (not flammable)

Atomising spray for protection against welding spatter in the gas nozzle area and on the workpiece. Non-combustible, not subject to classification, silicon free. Provides an alternative for use as spatter protection for torch and workpiece – wherever using combustible sprays is not possible.

300 ml; PU=12; languages: PL/RO/RU/SR/SK/SL/UK/BG/CS/DE/ET/EN/HR/HU/LT/LV Part-No.: 192.D040  
300 ml; PU=12; languages: LV/LT/ET/RU/UK/SL/RU/HR

Part-No.: 192.D047.1

#### 3 Ceramic protective spray

Long-lasting protection for the gas nozzle area, workpiece holder and workpiece. Silicon free. Extremely heat-resistant and abrasion-resistant.

400 ml; PU=12; languages: DE/EN/ES/FR/IT/SV/NL/PT

Part-No.: 192.0196.1

#### 4 Duesofix

Pasty welding spatter protection spray for gas nozzles. Biologically degradable, not subject to classification, silicon free. The metal can enables the still hot gas nozzle to be immersed safely into the Düssofix – even directly after the welding process. Spatter adhesion is reduced considerably by the protective film.

300 g; PU=20; languages: DE/EN/FR  
300 g; PU=20; languages: CS/SK/PL/RO/BG  
300 g; PU=20; languages: RU/HU/LT/LV/ET

Part-No.: 192.0058  
Part-No.: 192.D032  
Part-No.: 192.D033

# Welding chemicals

## Anti-spatter and coolant liquids

### Anti-spatter liquids



### 5 Anti-spatter fluid

Protection against welding spatter adhesions in the adjacent welding area. Very economical and ecologically degradable, it reduces reworking costs considerably.

1 litre	Part-No.: 192.0056
5 litre	Part-No.: 192.0052
20 litre	Part-No.: 192.0048
Outlet tap for 20 litre canisters (not shown)	Part-No.: 192.0191.5
200 litre (not shown)	Part-No.: 192.0046
Spigot for 200 litre barrel (not shown)	Part-No.: 192.0109

### 6 ABIBLUE Anti-Spatter-Emulsion

Fused-on weld spatter is a time and money consuming nuisance for the producers of welded components and tools. A remedy can be found with the use of multiple protective agents which prevent weld spatter from sticking.

Due to growing quality and environmental requirements ABICOR BINZEL has developed the new ABIBLUE. ABIBLUE combines the good qualities of known separating agents with more efficiency and eco friendliness.

5 litre	Part-No.: 192.0238.1
10 litre	Part-No.: 192.0239.1
20 litre	Part-No.: 192.0240.1
Outlet tap for 20 litre	
200 litre barrel	Part-No.: 192.0241.1
Hand Spray Can. 400 ml	Part-No.: 192.0163
1 Box = 12 Spray Cans	



### 7 Hand spray pump

Fine sprayer for applying Eco-anti-spatter fluid

PU=1	Part-No.: 192.0164
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### 8 Hand spray pump with 400 ml can (contents not included)

Sturdy metal can with fine sprayer for applying Eco-anti-spatter fluid

PU=12	Part-No.: 192.0163
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# Welding chemicals

## Anti-spatter and coolant liquids

### Coolant liquids



9

#### 9 Coolant BTC-15

Coolant for all liquid-cooled welding and cutting systems. Frost-proof to  $-12^{\circ}\text{C}$ . The very low conductance of  $4\mu\text{S}$  considerably reduces the electrical corrosion of all metal parts of the cooling system.

5 litre	Part-No.: 192.0110
20 litre	Part-No.: 192.0111
Outlet tap for 20 litre canisters (not shown)	Part-No.: 192.0191.5
200 litre (not shown)	Part-No.: 192.0112
Spigot for 200 litre barrel (not shown)	Part-No.: 192.0109



10

#### 10 Coolant BTC-50

Incombustible coolant for all liquid-cooled welding and cutting systems. Frost-proof to  $-45^{\circ}\text{C}$ . The very low conductance of  $4\mu\text{S}$  considerably reduces the electrical corrosion of all metal parts of the cooling system. Because the product is not covered by a dangerous goods class, there are no conditions governing transport and storage.

5 litre	Part-No.: 192.0175.1
20 litre	Part-No.: 192.0176.1
Outlet tap for 20 litre canisters (not shown)	Part-No.: 192.0191.5
200 litre (not shown)	Part-No.: 192.0177.1
Spigot for 200 litre barrel (not shown)	Part-No.: 192.0109

#### 11 Spigot

To fit all 200 litre barrels referred to in this brochure

PU=1	Part-No.: 192.0109
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#### 12 Outlet tap

To fit all 20 litre canisters referred to in this brochure

PU=5	Part-No.: 192.0191.5
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11



12

### Accessories

#### 13 Conductivity tester DiST®3

The testers are reliable, pocket-sized instruments that will give you quick and accurate readings. The tester features graphite electrodes to reduce polarization effects and an exposed temperature probe for fast response when compensating for temperature changes.

Type	Part-No.
Conductivity tester DiST®3	514.0062.1

13



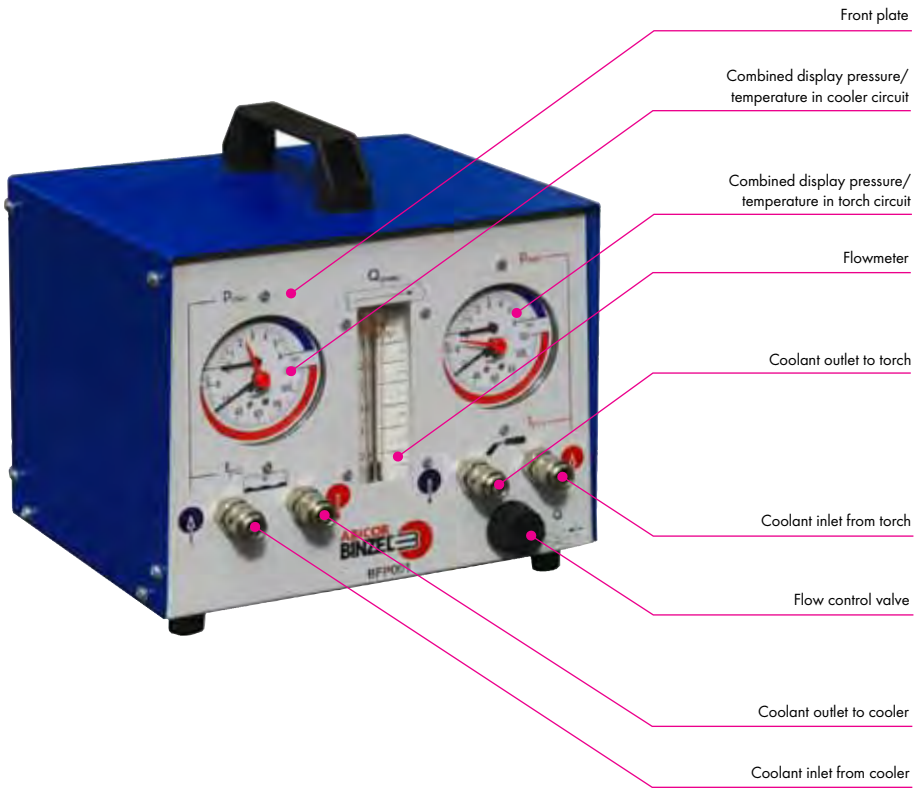
# Torch function tester

## BFP001

The presented device can be used for easy and operative function test and problem search at cooling units and liquid cooled welding and cutting torches.

### Tested resp. measured can be:

- Temperature and pressure of cooling liquid in cooler circuit
- Temperature and pressure of cooling liquid in torch circuit
- Coolant flow rate
- Function point of flow guard (when installed)



Part-No. EKD.D001

# Welding cable connector system

## ABIPLUG

**Plug and weld! ABIPLUG – the reliable connection.**

The new range of **ABIPLUG** welding cable connectors from **ABICOR BINZEL** – designed for safe and effective current transfer in arc welding technology – guarantees maximum operating safety for the equipment and the user. Available as either panel socket / cable plug combination or as panel plug / cable socket combination.

### The advantages:

- Safe and quick connection – highest twist resistance due to the revolutionary “square end-block-system” by ABICOR BINZEL
- High flash-over resistance – for maximum machine protection
- Easy mounting, optimal connection and excellent power transmission
- Compatible with all commercially available makes – can be built out of metal or plastic panels
- Corresponds to EN-standard EN 60 974-12 – the new EN-standard



### Technical data

#### Welding cable connector system

Type	Current (A)	Cable (mm <sup>2</sup> )	Mount-Ø (mm)
*10-25	125	up to 10	20.5
*10-25	150	10-16	20.5
*10-25	200	16-25	20.5
*35-50	250	25-35	30.5
*35-50	300	35-50	30.5
*50-70	400	50-70	30.5
*70-95	500	70-95	30.5

\* = **ABI-CM / ABI-IF** or **ABI-CF / ABI-IM**

**ABI-CM** (Cable Male) = Welding cable plug

**ABI-CF** (Cable Female) = Welding cable socket

**ABI-IM** (Insert Male) = Panel mounted plug

**ABI-IF** (Insert Female) = Panel mounted socket

# Welding cable and connector system

## ABIPLUG



### Panel sockets

1 ABHF 10-25	Part-No.	511.0304
2 ABHF 35-50	Part-No.	511.0314
3 ABHF 50-70	Part-No.	511.0330
4 ABHF 70-95	Part-No.	511.0309

### Cable plugs

5 ABI-CM 10-25	Part-No.	511.0305
6 ABI-CM 35-50	Part-No.	511.0315
7 ABI-CM 50-70	Part-No.	511.0331
8 ABI-CM 70-95	Part-No.	511.0342



### Panel plugs

9 ABHM 10-25	Part-No.	511.0306
10 ABHM 35-50	Part-No.	511.0316
11 ABHM 50-70	Part-No.	511.0332
12 ABHM 70-95	Part-No.	511.0320

### Cable sockets

13 ABI-CF 10-25	Part-No.	511.0303
14 ABI-CF 35-50	Part-No.	511.0313
15 ABI-CF 50-70	Part-No.	511.0329
16 ABI-CF 70-95	Part-No.	511.0340



# Welding accessories

## Adapter pieces, double nipple and quick couplings

Adapter pieces,  
double nipple and  
quick couplings

	Denomination	Specification	Part-No.
	Quick coupling ND2,7 G1/8" AG		177.0001
	Quick coupling ND5 G1/8" IG		177.0002
	Quick coupling ND5 G1/8" AG		177.0003
	Quick coupling ND5 with spout=4		177.0007
	Quick coupling ND6 with spout=6		177.0008
	Quick coupling ND2,7 with spout=4		177.0009
	Quick coupling ND7,2 with spout=6		177.0010
	Quick coupling ND5 with spout=6		177.0011
	Quick coupling G3/8" AG		177.0012
	Quick coupling ND5 G1/8" AG	red	177.0013
	Quick coupling ND5 G1/8" AG	blue	177.0014
	Quick coupling ND5	with spout D=8	177.0015
	Quick coupling ND5	with G1/4" IG	501.0158
	Quick coupling ND5	with G3/8" IG and Latch	501.0163
	Quick coupling ND5	with 12 x 1 IG	501.0176
	Quick coupling ND5	with 5/8"-18G UNF-LH AG	501.0188
	Quick coupling ND5	with G3/8" IG	501.0189

# Welding accessories

## Adapter pieces, double nipple and quick couplings

	<b>Denomination</b>	<b>Specification</b>	<b>Part-No.</b>
	Quick coupling ND5	with threaded spout D=8	501.0190
	Quick coupling ND5	with G1/2" IG	501.0191
	Quick coupling ND5	with M12 x 1,5 IG	501.0194
	Quick coupling ND5	with threaded spout D=10	501.0195
	Quick coupling ND5	with 7/8" - 14G UNF IG	501.0196
	Quick coupling ND5	with 14 x 1 IG	501.0197
	Quick coupling ND5	with threaded spout D=6,5mm	501.0204
	Quick coupling ND2,7	with threaded spout D=6,5mm	501.0230
	Quick coupling ND5	with spout D=6mm	501.0270
	Quick coupling ND5	with 5/8" - 18G UNF IG	501.1795
	Quick coupling ND5 red	with threaded spout D=6,5mm	501.2403
	Quick coupling ND5 blue	with threaded spout D=6,5mm	501.2404
	Quick coupling ND5	with spout D=6	560.0017
	Quick coupling ND5 CRNG20	Rolliner NG	783.5207
	Quick coupling ND5 - G1/4" AG		850.0263
	Connector ND5		501.2318
	Angle connector	90° for 2 torches	850.0235

# Cooling units CR 1000 & CR 1250.

## Light-weight and user-friendly.

### For a “cool” welding process ...

In high amperage applications with long welding cycles air-cooled torch systems can reach their limits. This can lead to malfunctions and unnecessary downtime.

The mobile cooling units CR 1000 and CR 1250 are the ideal complement system to equip a power source designed for air-cooled welding with a liquid-cooled welding torch. For a permanently “cool” welding process. The devices are characterized by their high cooling performance in a compact design and easy handling.

With a few steps the integrated flow switch<sup>1)</sup> for the permanent monitoring of the complete cooling system can be connected to the machine-side connection of the welding torch. Therefore, operation without coolant is not possible and the welding torch as well as the cooling unit are optimally protected.

- High cooling performance in a compact design is ideal for mobile use
- International quick connectors for easy, time-saving installation
- Integrated flow switch for the permanent monitoring of the complete cooling system for protection of the welding torch and the cooling unit – connection set included in delivery
- Exposed tank with coolant level indicator for convenient filling and draining of the coolant
- Overheat protection for pump and motor – for a long life
- Low-weight and sturdy carrying handles for easy transport to the job location
- Splash-proof fuse, main switch and louvers

<sup>1)</sup> Operation is also possible without flow switch.

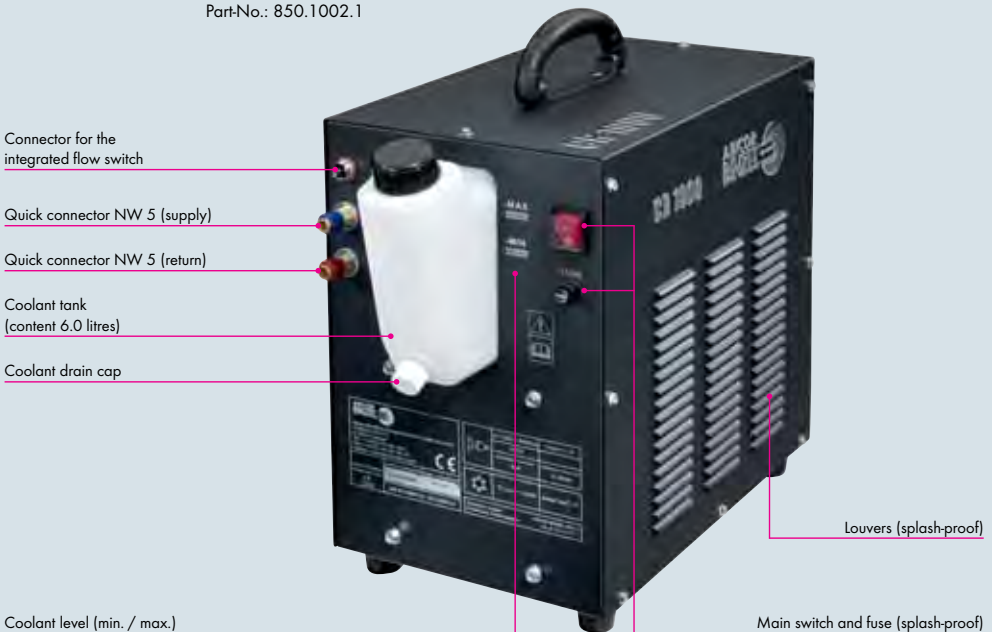
## CR 1000

**Cooling unit CR 1000** (230 V, 50/60 Hz)

Part-No.: 850.1001.1

**Cooling unit CR 1000** (115 V, 50/60 Hz)

Part-No.: 850.1002.1



## Technical data

Type	CR 1000	CR 1250
<b>Heat exchanger</b>	2-row	3-row
<b>Supply voltage</b>	115/230 VAC / 50/60 Hz	115/230 VAC / 50/60 Hz
<b>Pump 50/60 Hz</b>	Flow rate $Q_{max}$ 7 l/min Delivery height $H_{max}$ 35 m	Flow rate $Q_{max}$ 7 l/min Delivery height $H_{max}$ 35 m
<b>Pump pressure</b>	3.5 bar	3.5 bar
<b>Cooling capacity</b>	1000 W with H <sub>2</sub> O 750 W with BTC-15 <sup>21</sup>	1250 W with H <sub>2</sub> O 1050 W with BTC-15 <sup>21</sup>
<b>Noise level at 1 m distance</b>	67 dB (A)	67 dB (A)
<b>Weight</b>	14.9 kg	16.7 kg
<b>Dimensions L / W / H</b>	490 / 250 / 410 mm	690 / 250 / 340 mm
<b>Tank capacity</b>	6.0 litres	6.0 litres
<b>Water connection</b>	NW 5 (quick connector)	NW 5 (quick connector)

<sup>21</sup> The coolant BTC of ABICOR BINZEL protects liquid cooled welding and cutting torches as well as cooling devices by their very low conductance of < 4 µS against electrolytic corrosion and premature wear.

## CR 1250

**Coolant unit CR 1250** (230 V, 50/60 Hz)

Part-No.: 850.1051.1

**Coolant unit CR 1250** (115 V, 50/60 Hz)

Part-No.: 850.1052.1



# Installation of the integrated flow switch.

## Simple and fast.

### Only a few steps ...

(The flow switch set is included in the scope of delivery of the cooling unit.)



1. Open the machine side connection housing.



2. Disassemble end of the trigger cable.



3. Connect the trigger cable to the flow control cable.



4. Mount the shrink hose for insulation.



5. Insert the trigger and flow control cable into the connection housing.



6. Lead out the flow control cable through the control cable outlet out of the housing.



7. Assemble the machine side connection housing.



8. Connect the flow control cable to the cooling unit.



# Automatic Welding Helmet

## Surely and reliable.

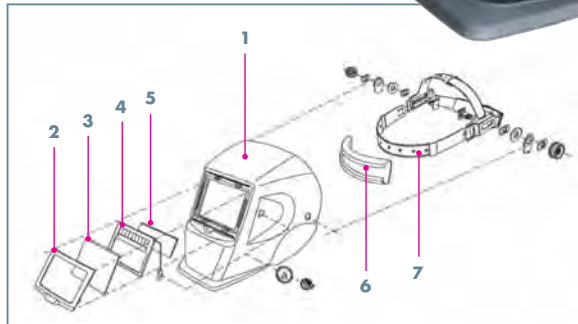
The ABICOR BINZEL welding helmet perfectly protects eyes, face and neck of the welder from sparks and welding spatters. It consists of a heat and impact resistant material and provides a good wearing comfort thanks to the low weight of only 0.45 kg.

The sensitivity of the filter can be adjusted using the switch at the back between protection levels 9 - 13 (DIN). The welding helmet is equipped with the additional function „Grind“. Once the protection level is set to the „Grind“ position, the protection function is switched off, allowing a clear view with the helmet serving as face shield.

**Areas of application** MMA, TIG, MIG/MAG, Plasma cutting

### Technical Data

■ Field of view	44 x 98 mm
■ Filter size	110 x 90 x 9 mm
■ Protection level	DIN 9-13
■ Sensitivity	low, high
■ Variable delay	1/16 000 s
■ Delay time	0.25 - 0.30s fast 65 - 0.80s slow
■ Grind modus	yes
■ Temperature range	-10°C - +55°C
■ Weight	435 g
■ Supply	Solar cell; no battery changes



Pos.	Description	Part-No.
	Welding helmet ADF600S	519.0009.1
1	Welding shell ADF600S	519.0010.1
2	Retaining Frame for front cover	519.0011.1
3	Front cover lens SDF600S outside	519.0012.10
4	Automatic cartridge	519.0013.1
5	Front cover lens SDF600S inside	519.0014.5
6	Sweatband for headgear	519.0015.3
7	Headgear for welding shell	519.0016.1

# Gas pressure regulators (KAYSER, Germany)

## Easy gas saving...

### ECOMAT 2000

This gas pressure regulator with gas saving device is designed to reduce the needed amount of shielding gas by smoothing out gas peaks at the start of MIG/MAG welding.



Work area	inlet	Outlet	Version	Part-No.
3 - 30 l/min	G 3/4" RH	G 1/4"	with flowmeter	514.Z516.1
3 - 30 l/min	W 21.8 x 1/14"	G 1/4"	with flowmeter	514.Z521.1
3 - 30 l/min	W 21.8 x 1/14"m	G 1/4"	with flowmeter	514.Z538.1
3 - 30 l/min	W 21.8 x 1/14"	G 3/8"	with flowmeter	514.Z539.1

## Robustness and approved quality...

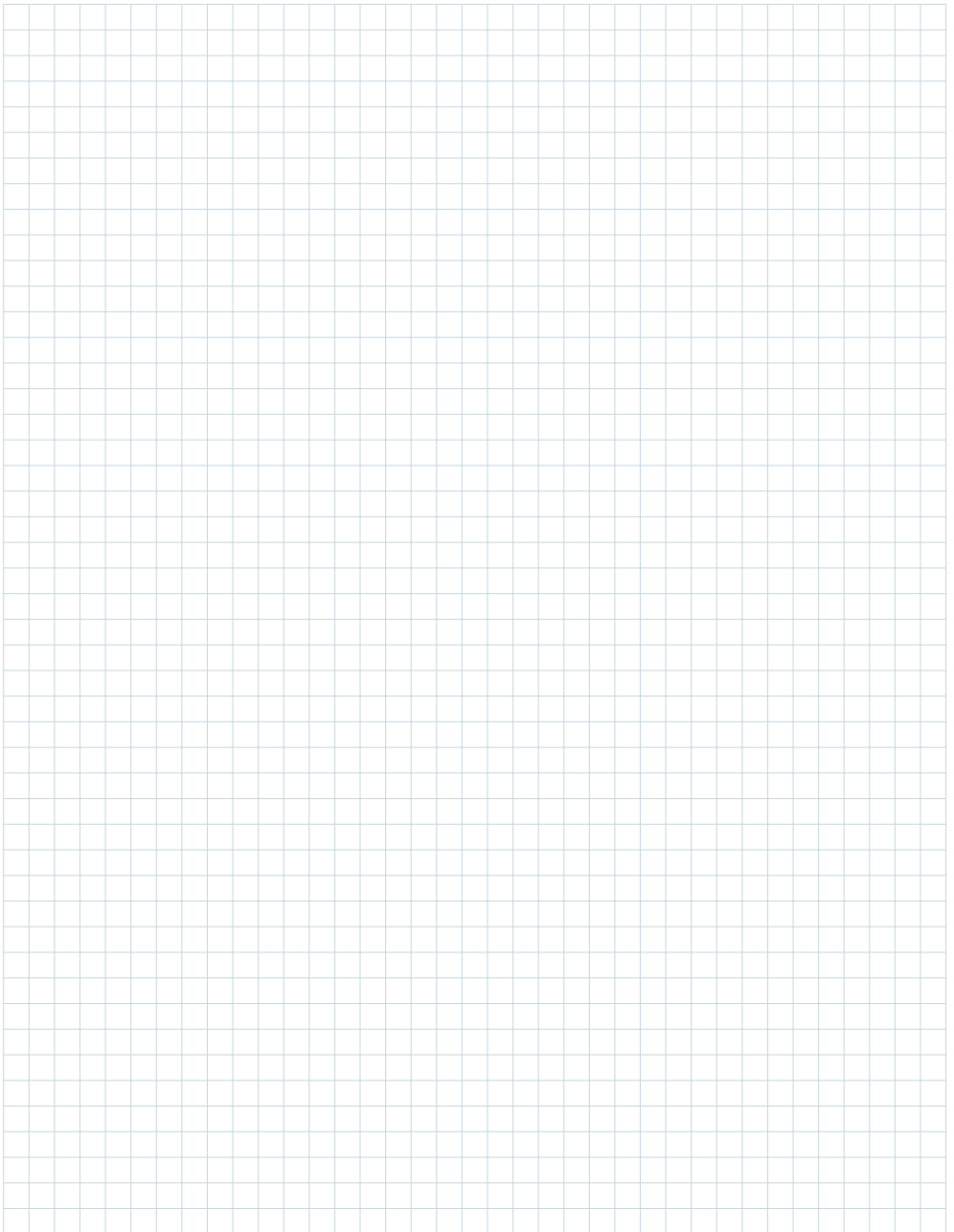
### HERCULES gas pressure regulators

The „HERCULES“ brand represents the German premium class of traditional gas pressure regulators. More than 80 years of experience guarantee a robust design in high quality and, thus, a long lifetime of the product.



Gas	Work area	Inlet	Outlet	Version	Part-No.
Argon / CO <sub>2</sub>	0-30 l/min	W 21.8 x 1/14"	G 1/4" x 6 mm	without stop valve	514.D031
Argon	0-16 l/min	W 24.32 x 1/14"	G 3/8" x 6 mm	with stop valve	514.D038
CO <sub>2</sub>	0-30 l / 28 l min	W 21.8 x 1/14"	G 3/8" x 6 mm	with stop valve	514.D039
Argon / CO <sub>2</sub>	0-30 l/min	W 21.8 x 1/14"	G 1/4" x 6 mm	with flowmeter without stop	514.D040
Argon / CO <sub>2</sub>	0-30 l / 28 l min	G 3/4"	G 1/4" x 6 mm	valve	514.D045
Argon / CO <sub>2</sub>	0-30 l / 28 l min	G 3/4"	G 1/4" x 6 mm	with stop valve	514.D051
Argon / CO <sub>2</sub>	0-30 l/min	G 3/4" RH	G 1/4" x 6 mm	with flowmeter	514. D054.1
Argon / CO <sub>2</sub>	0-30 l/min	W 24.32 x 1/14" RH	G 3/8" x 6 mm RH	with flowmeter	514. D055.1
Argon	0-30 l/min	W 24.32 x 1/14"	G 3/8" x 6 mm	with flowmeter	514.Z519.1
Oxygen	0-10 bar	G 3/4"	G 1/4" x 6 mm	with stop valve	514.D032
Oxygen	0-1,0 bar	W 21.8 x 1/14"	G 3/8" x 6 mm, spout	with stop valve	514.D036
Acetylene	0-1,5 bar / 20 bar	clamp	G 3/8" x LH 8 mm	with stop valve	514.D033
Propan	0-3,5 bar	W 21.8 x 1/14" LH	G 3/8" x LH 8 mm, spout	with stop valve	514.D034
Acetylene	0-1,5 bar / 20 bar	G 3/4" RH	G 3/8" x LH 8 mm	pressure screw	514.D037

# Notes



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