

MIG/MAG



Product Catalogue 1.0/V1





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AUT / ABIMIG® MT

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MIG/MAG-Welding Torches "MB GRIP" air-cooled

Rating 150 A up to 230 A

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

"GRIP" and ball joint on the handle guarantee high gripping security as well as optimal handling. All torches are thoroughly designed to provide comfortable and precise operation.

- Ergonomic short handle with "GRIP" – for best accessibility
- "GRIP", soft components on the handle and thumb rest – positive handling even in extrem circumstances
- Ball joint with optimal turning 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 stability and tensile strength
- Time-saving torch change-over due to the ABICOR BINZEL central connector



MB GRIP 15 AK

Technical data (EN 60 974-7):

Rating: 180 A CO₂
150 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.6–1.0 mm

MB GRIP 25 AK

Technical data (EN 60 974-7):

Rating: 230 A CO₂
200 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. |
| MB GRIP 15 AK | GRIP | 002.0604 | 002.0605 | 002.0606 | 50° | 002.0009 |
| MB GRIP 25 AK | GRIP | 004.0510 | 004.0511 | 004.0512 | 50° | 004.0012 |

*All torches are equipped including central adaptor with spring pins.

MB GRIP 15, MB GRIP 25

Wear parts

MB GRIP 15 AK

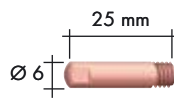


MB GRIP 25 AK



Gas nozzle (10 pcs.)

| | Ø A | | Ø B | |
|-------------|-------|----------|--------|----------|
| Cylindrical | Ø 16 | 145.0041 | Ø 18 | 145.0042 |
| Conical | Ø 12 | 145.0075 | Ø 15 | 145.0076 |
| Conical | Ø 9.5 | 145.0123 | Ø 11.5 | 145.0124 |



Contact tip (10 pcs.)

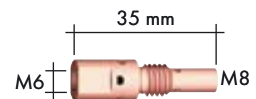
| | | M6 | M6 |
|-------------|-------|----------|----------|
| E-Cu | Ø 0.6 | 140.0008 | - |
| | Ø 0.8 | 140.0059 | 140.0051 |
| | Ø 1.0 | 140.0253 | 140.0242 |
| | Ø 1.2 | - | 140.0379 |
| E-Cu for Al | Ø 0.8 | 141.0002 | 141.0001 |
| | Ø 1.0 | 141.0007 | 141.0006 |
| | Ø 1.2 | - | 141.0010 |
| CuCrZr | 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 (20 pcs.)



| | | |
|--|----------|----------|
| | 002.0058 | 003.0013 |
|--|----------|----------|

Gas nozzle holder / Contact tip holder



| | | |
|----|----------|--------------------|
| M6 | 002.0078 | 142.0001 (10 pcs.) |
|----|----------|--------------------|

| Liner | for 3 m | | | | for 4 m | | | | for 5 m | | | | | | | | | |
|-----------------|------------|-------------------|-------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Ø 0.6 | Ø 0.8 | Ø 1.0 | Ø 1.2 | Ø 0.6 | Ø 0.8 | Ø 1.0 | Ø 1.2 | Ø 0.6 | Ø 0.8 | Ø 1.0 | Ø 1.2 | | | | | | |
| Insulated liner | Ø 0.6 | Ø 0.8 | Ø 1.0 | Ø 1.2 | 124.0011 | 124.0011 | 124.0026 | 124.0026 | 124.0012 | 124.0012 | 124.0031 | 124.0031 | 124.0015 | 124.0015 | 124.0035 | 124.0035 | | |
| | PTFE liner | Ø 0.6 | Ø 0.8 | Ø 1.0 | Ø 1.2 | 126.0005 | 126.0005 | 126.0021 | 126.0021 | 126.0008 | 126.0008 | 126.0026 | 126.0026 | 126.0011 | 126.0011 | 126.0028 | 126.0028 | |
| | | Carbon PTFE liner | Ø 0.6 | Ø 0.8 | Ø 1.0 | Ø 1.2 | 127.0002 | 127.0002 | 127.0005 | 127.0005 | 127.0003 | 127.0003 | 127.0007 | 127.0007 | 127.0004 | 127.0004 | 127.0008 | 127.0008 |

MIG/MAG-Welding Torches "MB GRIP" air-cooled

Rating 220 A up to 320 A

- Ergonomic short handle with "GRIP" – for best accessibility
- "GRIP", soft components on the handle and thumb rest – positive handling even in extreme circumstances
- Ball joint with optimal turning 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 stability and tensile strength
- Time-saving torch change-over due to the ABICOR BINZEL central connector



MB GRIP 24 KD

Technical data (EN 60 974-7):

Rating: 250 A CO₂
220 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8–1.2 mm

MB GRIP 26 KD

Technical data (EN 60 974-7):

Rating: 270 A CO₂
240 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

Wire size: 0.8–1.2 mm

MB GRIP 36 KD

Technical data (EN 60 974-7):

Rating: 320 A CO₂
290 A Mixed Gases
M21 (DIN EN 439)

Duty cycle: 60%

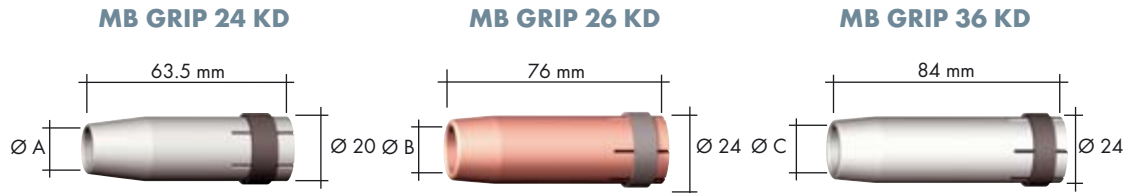
Wire size: 0.8–1.2 mm

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

*All torches are equipped including central adaptor with spring pins.

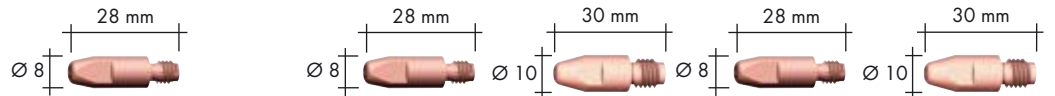
MB GRIP 24, MB GRIP 26, MB GRIP 36

Wear parts



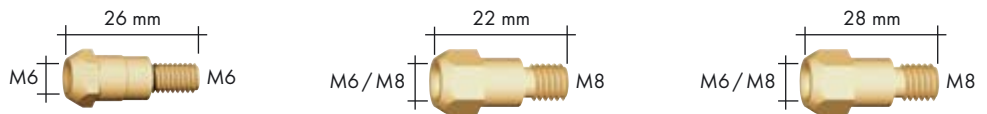
Gas nozzle (10 pcs.)

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



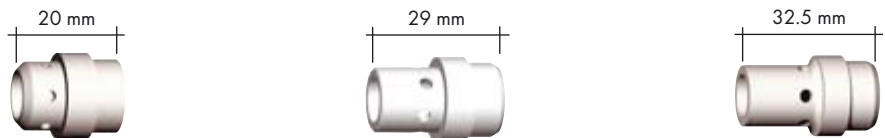
Contact tip (10 pcs.)

| | | 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 |
| 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 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 GRIP" liquid-cooled

Rating 270 A up to 550 A

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



MB GRIP 240 D*

Technical data (EN 60 974-7):

Rating: 300 A CO₂
270 A Mixed Gases
M21 (DIN EN 439)

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

MB GRIP 401 D* / MB GRIP 401*

Technical data (EN 60 974-7):

Rating: 400 A / 450 A CO₂
350 A / 400 A Mixed Gases
M21 (DIN EN 439)

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

MB GRIP 501 D* / MB GRIP 501*

Technical data (EN 60 974-7):

Rating : 500 A / 550 A CO₂
450 A / 500 A Mixed Gases
M21 (DIN EN 439)

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

* Note:

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

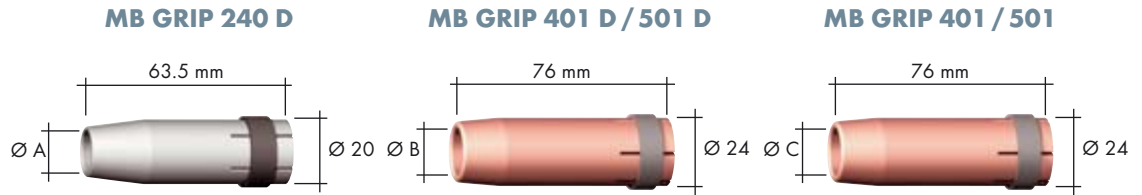
Torch complete**

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

** All torches are equipped including central adaptor with spring pins.

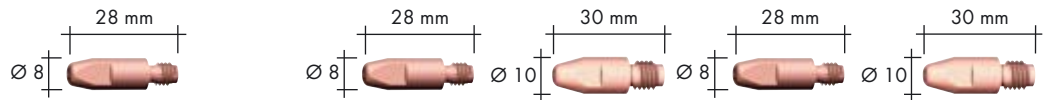
MB GRIP 240, MB GRIP 401 / 501

Wear parts



Gas nozzle (10 pcs.)

| | Ø A | | Ø B | | Ø C | |
|-------------|--------|----------|------|----------|------|----------|
| Cylindrical | Ø 17 | 145.0047 | Ø 20 | 145.0051 | Ø 20 | 145.0051 |
| Conical | Ø 12.5 | 145.0080 | 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 | - |



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 | | | | | |
|-------------------|-------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | | Ø 0.8 | Ø 1.0 | Ø 1.2 | Ø 1.6 | Ø 0.8 | Ø 1.0 | Ø 1.2 | Ø 1.6 | Ø 0.8 | Ø 1.0 | Ø 1.2 | Ø 1.6 |
| Liner | Ø 0.8 | 122.0005 | 122.0005 | 122.0007 | 122.0007 | 122.0009 | 122.0009 | 122.0009 | 122.0009 | 122.0009 | 122.0009 | 122.0009 | 122.0009 |
| | Ø 1.0 | 122.0031 | 122.0031 | 122.0036 | 122.0036 | 122.0039 | 122.0039 | 122.0039 | 122.0039 | 122.0039 | 122.0039 | 122.0039 | 122.0039 |
| | Ø 1.2 | 122.0031 | 122.0031 | 122.0036 | 122.0036 | 122.0039 | 122.0039 | 122.0039 | 122.0039 | 122.0039 | 122.0039 | 122.0039 | 122.0039 |
| | Ø 1.6 | 122.0056 | 122.0056 | 122.0060 | 122.0060 | 122.0063 | 122.0063 | 122.0063 | 122.0063 | 122.0063 | 122.0063 | 122.0063 | 122.0063 |
| PTFE liner | Ø 0.8 | 126.0005 | 126.0005 | 126.0008 | 126.0008 | 126.0011 | 126.0011 | 126.0011 | 126.0011 | 126.0011 | 126.0011 | 126.0011 | 126.0011 |
| | Ø 1.0 | 126.0021 | 126.0021 | 126.0026 | 126.0026 | 126.0028 | 126.0028 | 126.0028 | 126.0028 | 126.0028 | 126.0028 | 126.0028 | 126.0028 |
| | Ø 1.2 | 126.0021 | 126.0021 | 126.0026 | 126.0026 | 126.0028 | 126.0028 | 126.0028 | 126.0028 | 126.0028 | 126.0028 | 126.0028 | 126.0028 |
| | Ø 1.6 | 126.0039 | 126.0039 | 126.0042 | 126.0042 | 126.0045 | 126.0045 | 126.0045 | 126.0045 | 126.0045 | 126.0045 | 126.0045 | 126.0045 |
| Carbon PTFE liner | Ø 0.8 | 127.0002 | 127.0002 | 127.0003 | 127.0003 | 127.0004 | 127.0004 | 127.0004 | 127.0004 | 127.0004 | 127.0004 | 127.0004 | 127.0004 |
| | Ø 1.0 | 127.0005 | 127.0005 | 127.0007 | 127.0007 | 127.0004 | 127.0004 | 127.0004 | 127.0004 | 127.0004 | 127.0004 | 127.0004 | 127.0004 |
| | Ø 1.2 | 127.0005 | 127.0005 | 127.0007 | 127.0007 | 127.0008 | 127.0008 | 127.0008 | 127.0008 | 127.0008 | 127.0008 | 127.0008 | 127.0008 |
| | Ø 1.6 | 127.0010 | 127.0010 | 127.0012 | 127.0012 | 127.0013 | 127.0013 | 127.0013 | 127.0013 | 127.0013 | 127.0013 | 127.0013 | 127.0013 |

MIG/MAG-Welding Torches "MB" air- and liquid-cooled

Rating 150 A up to 550 A

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

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



Technical data (EN 60 974-7):

MIG/MAG-Welding Torch "MB" (air-cooled)

| Type | Rating (A) | | Duty cycle (%) | Wire size (mm) |
|------------------------|-----------------|-----------------|----------------|----------------|
| | CO ₂ | Mixed Gases M21 | | |
| MB 15 AK / MB 15 AK-FX | 180 | 150 | 60 | 0.6-1.0 |
| MB 24 KD | 250 | 220 | 35 | 0.8-1.2 |
| MB 25 AK / MB 25 AK-FX | 230 | 200 | 60 | 0.8-1.2 |
| MB 26 KD | 230 | 200 | 35 | 0.8-1.2 |
| MB 36 KD | 300 | 270 | 60 | 0.8-1.2 |

MIG/MAG-Welding Torch "MB" (liquid-cooled)

| Type | Rating (A) | | Duty cycle (%) | Wire size (mm) |
|----------|-----------------|-----------------|----------------|----------------|
| | CO ₂ | Mixed Gases M21 | | |
| MB 240 D | 300 | 270 | 100 | 0.8-1.2 |
| MB 401 D | 400 | 350 | 100 | 0.8-1.2 |
| MB 401 | 450 | 400 | 100 | 0.8-1.2 |
| MB 501 D | 500 | 450 | 100 | 1.0-1.6 |
| MB 501 | 550 | 500 | 100 | 1.0-1.6 |

Subjects to change without notice.

"MB" Torch series



- 1 MB 15 AK
- 2 MB 15 AK FX
- 3 MB 24 KD
- 4 MB 25 AK
- 5 MB 25 AK FX
- 6 MB 26 KD
- 7 MB 36 KD
- 8 MB 240 D
- 9 MB 401 / MB 401 D
- 10 MB 501 / MB 501 D

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

*All torches are equipped including central adaptor with spring pins.
Wear parts see "MB GRIP" Torches of similar design (Page 4-9).

Note for all liquid-cooled torches:

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

MIG/MAG-Welding Torches "ABIMIG®" liquid-cooled

Rating 300 A up to 600 A

The product line ABIMIG® comprises all torches for the MIG/MAG process. Besides the even more ergonomic handle, a module handle offers different switching and control options for every application. The whole product line is smaller in size and offers a substantially improved accessibility.

- Double-cooling circuit of the liquid-cooled torches and large areas for current and heat transfer – low spatter adhesion, the torch is staying cool
- Optimum cooling of the torch, extending torch life
- Ergonomically and technically matured and 100% reliable
- Time-saving torch change-over due to the ABICOR BINZEL central plug- and central-connecting system



ABIMIG® 452 D W* / 452 D W TS*

Technical data (EN 60 974-7):

Rating: 450 A DC
300 A Pulse
Mixed Gases M21
(DIN EN 439)

Duty cycle: 100%

Wire size: 0.8–1.6 mm

ABIMIG® 452 W*

Technical data (EN 60 974-7):

Rating: 500 A DC
325 A Pulse
Mixed Gases M21
(DIN EN 439)

Duty cycle: 100%

Wire size: 0.8–1.6 mm

ABIMIG® 645 W*

Technical data (EN 60 974-7):

Rating: 600 A DC
450 A Pulse
Mixed Gases M21
(DIN EN 439)

Duty cycle: 100%

Wire size: 0.8–1.6 mm

* Note:

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

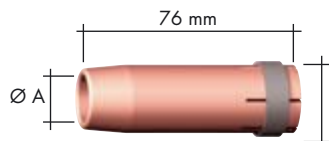
| Torch complete** | Handle ABIMIG® | Part-No. | | | Swan neck | |
|--------------------|-----------------|----------|----------|----------|-----------|----------|
| | | 3 m | 4 m | 5 m | Type | Part-No. |
| ABIMIG® 452 D W | with ball joint | 766.0400 | 766.0401 | 766.0402 | 50° | 766.0350 |
| ABIMIG® 452 D W TS | with ball joint | 766.0409 | 766.0410 | 766.0411 | 50° | 766.0380 |
| ABIMIG® 452 W | with ball joint | 766.0412 | 766.0413 | 766.0414 | 50° | 766.0390 |
| ABIMIG® 645 W | with ball joint | 766.0406 | 766.0407 | 766.0408 | 50° | 766.0370 |

**All torches are equipped including central adaptor with spring pins.

ABIMIG® 452, ABIMIG® 645

Wear parts

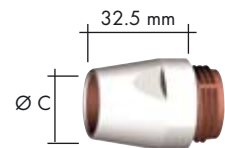
ABIMIG® 452 D W ABIMIG® 452 W



ABIMIG® 452 D W TS



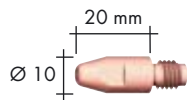
ABIMIG® 645 W



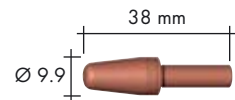
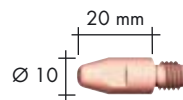
Gas nozzle (10 pcs.)

| | Ø A | | Ø B | | Ø C | |
|-------------|------|----------|------|----------|------|-------------------|
| Cylindrical | Ø 20 | 145.0051 | Ø 19 | 145.0400 | Ø 19 | 766.1075 (1 pcs.) |
| Conical | Ø 16 | 145.0085 | - | - | Ø 16 | 766.1074 (1 pcs.) |
| Conical | Ø 14 | 145.0132 | - | - | - | - |

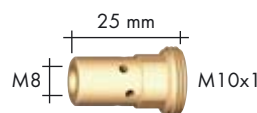
Contact tip (10 pcs.)



M8

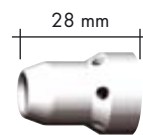


| E-Cu | Ø 0.8 | 140.0114 | 140.0114 | - |
|-------------|-------|----------|----------|----------|
| | Ø 1.0 | 140.0313 | 140.0313 | - |
| | Ø 1.2 | 140.0442 | 140.0442 | - |
| | Ø 1.6 | 140.0587 | 140.0587 | - |
| E-Cu for Al | Ø 0.8 | 141.0003 | 141.0003 | - |
| | Ø 1.0 | 141.0008 | 141.0008 | - |
| | Ø 1.2 | 141.0015 | 141.0015 | - |
| | Ø 1.6 | 141.0022 | 141.0022 | - |
| CuCrZr | Ø 0.8 | 140.0117 | 140.0117 | 140.1310 |
| | Ø 1.0 | 140.0316 | 140.0316 | 140.1312 |
| | Ø 1.2 | 140.0445 | 140.0445 | 140.1313 |
| | Ø 1.6 | 140.0590 | 140.0590 | 140.1315 |



Contact tip holder / Collet chuck (10 pcs.)

| | | | |
|-----------------------|-------------------------------|----------|----------|
| Contact tip holder M8 | 142.0022 (only for version D) | 142.0022 | - |
| Collet chuck | - | - | 766.1051 |



Gas diffuser (10 pcs.)

| | | | |
|-------------------|----------|----------|----------|
| Standard | 030.0145 | 030.0145 | 766.1095 |
| Long life | 030.0037 | 030.0037 | 766.1078 |
| Ceramic | 030.0190 | 030.0190 | 766.1135 |
| Ceramic L/Adaptor | - | - | - |

| Liner | | for 3 m | | | for 4 m | | | for 5 m | | |
|-------------------|-------|----------|--|----------|---------|----------|--|---------|--|--|
| | | Ø | | | Ø | | | Ø | | |
| 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 PTFE liner | Ø 0.8 | 127.0002 | | 127.0003 | | 127.0004 | | | | |
| | Ø 1.0 | 127.0005 | | 127.0007 | | 127.0008 | | | | |
| | Ø 1.2 | 127.0005 | | 127.0007 | | 127.0008 | | | | |
| | Ø 1.6 | 127.0010 | | 127.0012 | | 127.0013 | | | | |



MIG/MAG-Welding Torches Push-Pull "PP" air- and liquid-cooled

The Push-Pull welding torches of the product line "PP" guarantee constant and problem-free wire feeding. Push-pull guns are ideally suited for hard-to-feed wire like aluminium, thin wire and for extended cable assemblies. Due to their reliability the torches have become the industry standard in shipbuilding, container and tank manufacture, and are also used extensively in the construction of automobiles and railway vehicles. All torches are corresponding in their construction to the well-established MB welding torches of the same style.



* 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.

| Type | Cooling | CO ₂ | Mixed Gases M 21 (DIN EN 439) | Duty cycle (%) | Wire size (mm) |
|----------|---------|-----------------|----------------------------------|-------------------|-------------------|
| PP 24 D | air | 250 A | 220 A | 35 | 0.8-1.0 |
| PP 36 D | air | 300 A | 270 A | 60 | 0.8-1.2 |
| PP 240 D | liquid* | 270 A | 240 A | 100 | 0.8-1.2 |
| PP 401 D | liquid* | 350 A | 320 A | 100 | 0.8-1.6 |

| Torch complete ** | Part-No. 8 m | Part-No. Swan neck |
|-------------------------------|-----------------|-----------------------|
| PP 24 D straight, motor 42 V | 082.0011 | 082.0001 |
| PP 24 D 45° bent, motor 42 V | 082.0014 | 012.0194 |
| PP 36 D straight, motor 42 V | 083.0014 | 081.0002 |
| PP 36 D 45° bent, motor 42 V | 083.0017 | 014.0095 |
| PP 240 D straight, motor 42 V | 092.0018 | 092.0007 |
| PP 240 D 45° bent, motor 42 V | 092.0019 | 092.0001 |
| PP 401 D straight, motor 42 V | 091.0043 | 091.0002 |
| PP 401 D 45° bent, motor 42 V | 091.0044 | 091.0001 |

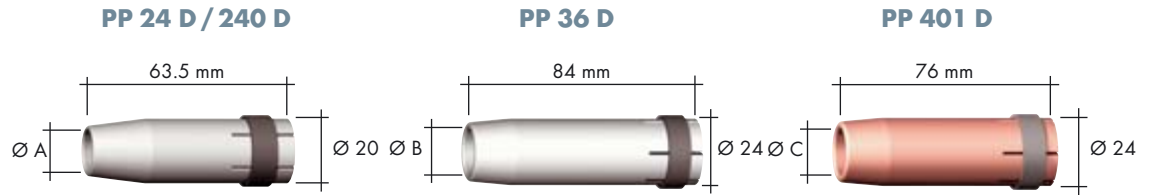
** All torches are equipped including central adaptor with spring pins.

Note:

Also available with 24 V motor. If requested, the torch can be delivered with a potentiometer mounted in the handle.

PP 24, PP 36, PP 240, PP 401

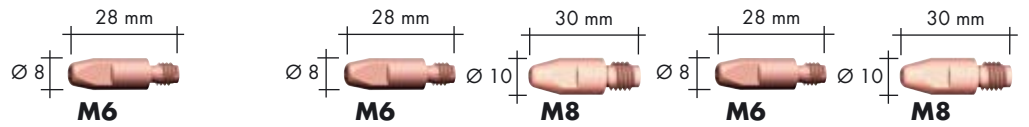
Wear parts



Gas nozzle (10 pcs.)

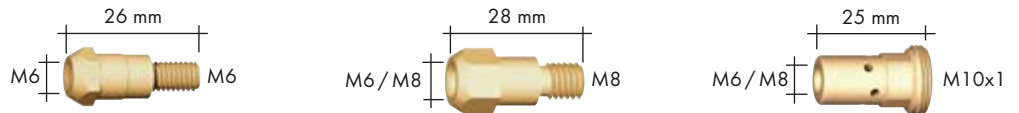
| | Ø A | | Ø B | | Ø C | |
|-------------|--------|----------|------|----------|------|----------|
| Cylindrical | Ø 17 | 145.0047 | Ø 19 | 145.0045 | Ø 20 | 145.0051 |
| Conical | Ø 12.5 | 145.0080 | Ø 16 | 145.0078 | Ø 16 | 145.0085 |
| Conical | Ø 10 | 145.0128 | Ø 12 | 145.0126 | Ø 14 | 145.0132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

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 |
| 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 |
| 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 |

Contact tip holder (10 pcs.)



| | M6 | M6/M8 | M6/M8 |
|----|----------|----------|----------|
| M6 | 142.0003 | 142.0005 | 142.0008 |
| M8 | - | 142.0020 | 142.0022 |

Gas diffuser (10 pcs.)



| | Ø 20 mm | Ø 32.5 mm | Ø 28 mm |
|-----------|----------|-----------|----------|
| Standard | 012.0183 | 014.0261 | 030.0145 |
| Long life | - | 014.0026 | 030.0037 |
| Ceramic | - | 014.0023 | 030.0190 |



Liner

8 m

| Liner | Ø | Part No. |
|--------------|-------|----------|
| Liner | Ø 0.8 | 122.0010 |
| | Ø 1.0 | 122.0040 |
| | Ø 1.2 | 122.0040 |
| | Ø 1.6 | 122.0065 |
| PTFE liner | Ø 0.8 | 126.0013 |
| | Ø 1.0 | 126.0030 |
| | Ø 1.2 | 126.0030 |
| | Ø 1.6 | 126.0047 |
| Carbon liner | Ø 0.8 | 127.0015 |
| | Ø 1.0 | 127.0009 |
| | Ø 1.2 | 127.0009 |
| | Ø 1.6 | 127.0014 |

Liner

8 m

| Liner | Ø | Part No. |
|----------|-------|----------|
| PA liner | Ø 0.8 | - |
| | Ø 1.0 | 128.0019 |
| | Ø 1.2 | 128.0019 |
| | Ø 1.6 | 122.0023 |

MIG/MAG-Fume Extraction Torches "RAB Plus"

air- and liquid-cooled

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



- Direct extraction at the arc – guarantees a permanent protection of the welder's respiratory organs
- Problem-free installation in all existing MIG/MAG welding stations
- Small extraction tube diameter – better accessibility
- Aluminum extraction tube – considerable saving of weight

- Handle with extraction control and swivel joint – optimized handling
- A cable assembly with smaller diameters for all types – lower handling weight, optimum flexibility

| Type | Cooling | Rating CO ₂ | Rating Mixed Gases | Duty cycle (%) | Wire size (mm) |
|----------------|----------------|---------------------------|-----------------------|-------------------|-------------------|
| RAB Plus 15 AK | air-cooled | 180 A | 150 A | 60 | 0.6-1.0 |
| RAB Plus 24 KD | air-cooled | 250 A | 220 A | 60 | 0.8-1.2 |
| RAB Plus 25 AK | air-cooled | 230 A | 200 A | 60 | 0.8-1.2 |
| RAB Plus 36 KD | air-cooled | 300 A | 270 A | 60 | 0.8-1.2 |
| RAB Plus 240 D | liquid-cooled* | 300 A | 270 A | 100 | 0.8-1.2 |
| RAB Plus 501 D | liquid-cooled* | 500 A | 450 A | 100 | 1.0-1.6 |
| RAB Plus 501 | liquid-cooled* | 550 A | 500 A | 100 | 1.0-1.6 |



*Note for liquid-cooled torches:

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

| Torch complete ** | Type | Handle | Part-No. | | |
|-------------------|------------------------|--------|----------|----------|----------|
| | | | 3 m | 4 m | 5 m |
| RAB Plus 15 AK | Fume extraction handle | | 602.2004 | 602.2005 | 602.2006 |
| RAB Plus 24 KD | Fume extraction handle | | 612.2002 | 612.2003 | 612.2004 |
| RAB Plus 25 AK | Fume extraction handle | | 604.2004 | 604.2005 | 604.2006 |
| RAB Plus 36 KD | Fume extraction handle | | 614.2002 | 614.2003 | 614.2004 |
| RAB Plus 240 D | Fume extraction handle | | 623.2002 | 623.2003 | 623.2004 |
| RAB Plus 501 D | Fume extraction handle | | 634.2002 | 634.2003 | 634.2004 |
| RAB Plus 501 | Fume extraction handle | | 632.2010 | 632.2011 | 632.2012 |

**All torches are equipped including central adaptor with spring pins.

RAB Plus

RAB Plus specific wear parts



| Type | Fume shroud | Fume shroud (funnel) |
|----------------|-------------|----------------------|
| RAB Plus 15 AK | 600.2003 | 602.0040 |
| RAB Plus 24 KD | 600.2005*** | 612.0023 |
| RAB Plus 25 AK | 600.2004 | 602.0040 |
| RAB Plus 36 KD | 600.2006*** | 612.0023 |
| RAB Plus 240 D | 600.2005*** | 612.0023 |
| RAB Plus 501 D | 600.2006*** | 612.0023 |
| RAB Plus 501 | 600.2006*** | 612.0023 |

***With spring clip for fixing the fume shroud (600.2028).

| Type | Swan neck | Outer neck | Gas nozzle holder |
|----------------|-----------|------------|-------------------|
| RAB Plus 15 AK | 602.2001 | 600.2001 | 902.0007 |
| RAB Plus 24 KD | 612.2001 | 600.2002 | - |
| RAB Plus 25 AK | 604.2001 | 600.2001 | - |
| RAB Plus 36 KD | 614.2001 | 600.2002 | - |
| RAB Plus 240 D | 623.2001 | 600.2002 | - |
| RAB Plus 501 D | 634.2001 | 600.2002 | - |
| RAB Plus 501 | 632.2001 | 632.2009 | - |

The consumables – contact tip, gas nozzle, gas diffuser, contact tip holder, guide spiral or liner – are identical with those of the manual welding torches of same size.

MIG/MAG-Fume Extraction Torches in Action ...



RAB Plus **without** fume extraction



RAB Plus **with** fume extraction

MIG/MAG-Automatic Welding Torches

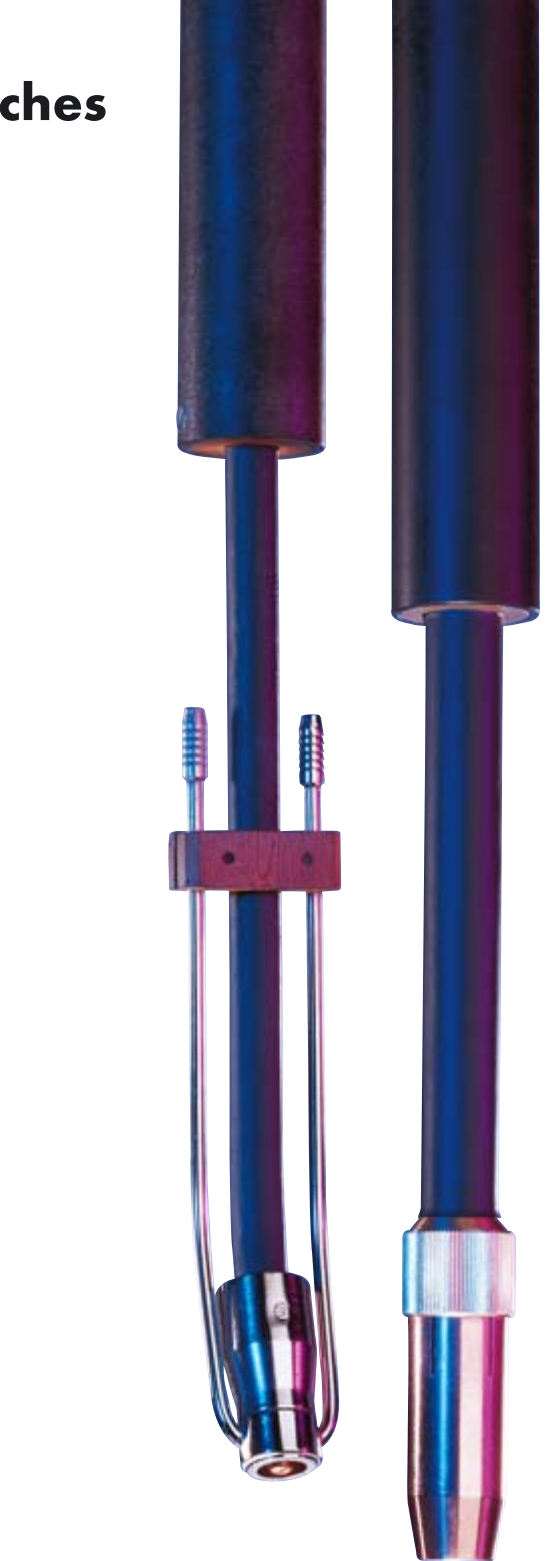
air- and liquid-cooled

Automatic welding processes are used wherever highest precision and productivity is required. Accessibility to the components very often requires special solutions with automatic torches. ABICOR BINZEL offers a nearly 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 the additional advantage, so that special parts are not required.

Your ABICOR BINZEL advantage:

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



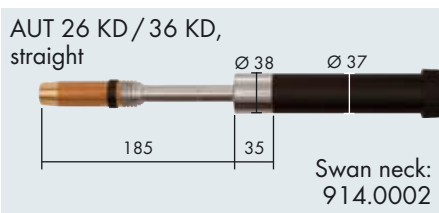
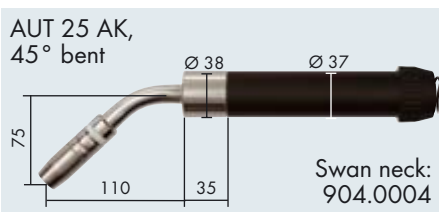
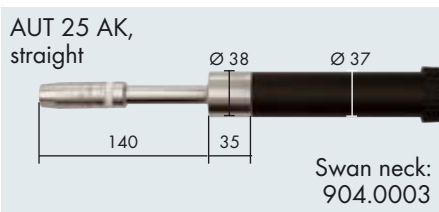
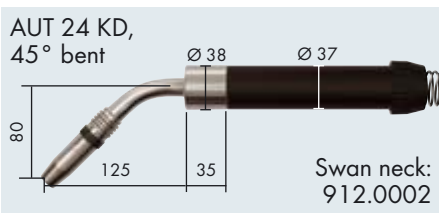
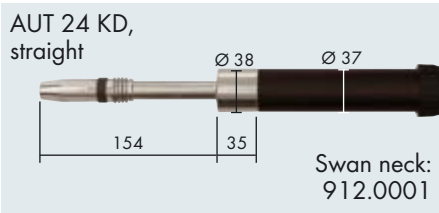
Note for liquid-cooled torches:

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

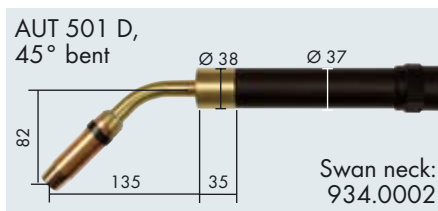
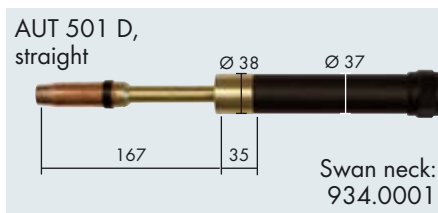
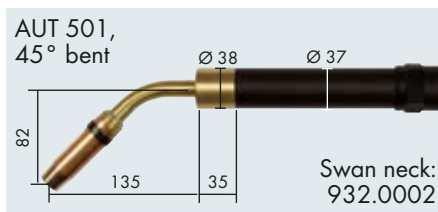
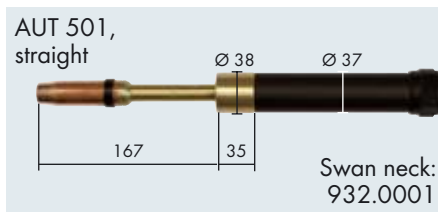
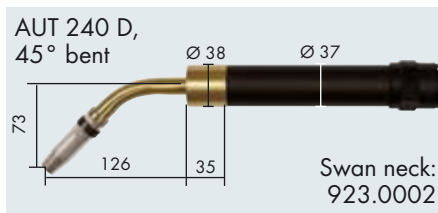
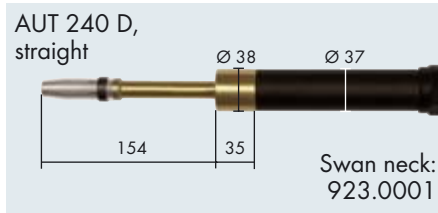


MIG/MAG-Automatic Welding Torches

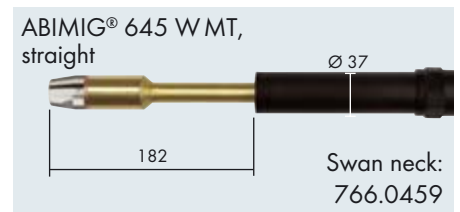
AUT air-cooled



AUT liquid-cooled



ABIMIG® MT liquid-cooled

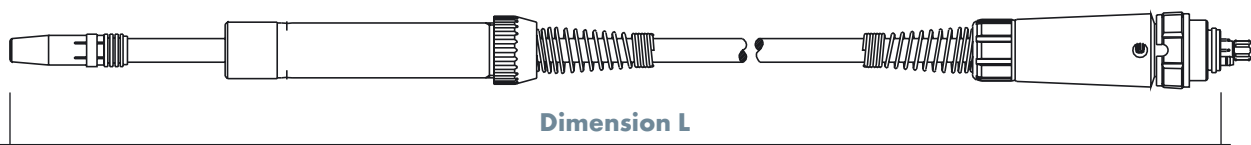


Note:

All dimensions are shown in mm.

When ordering complete torches, please indicate the torch type, torch geometry (straight or 45° bent) and dimension "L" (see sketch).

The consumables - contact tip, gas nozzle, gas diffuser, contact tip holder, guide spiral or liner - are identical with those of the manual welding torches of same size.



Bikox, Control cables, Hoses, Handles and Liner

I. Cable assembly air-cooled

| Type | Bikox | Cable assembly length | | | |
|---------------------|------------|-----------------------|----------|----------|----------|
| | | 3 m | 4 m | 5 m | 8 m |
| MB GRIP 15 AK | R4/Type 16 | 160.D520 | 160.D521 | 160.D522 | - |
| MB GRIP 24 KD/26 KD | R5/Type 25 | 160.D430 | 160.D431 | 160.D432 | - |
| MB GRIP 25 AK | R6/Type 35 | 160.D427 | 160.D428 | 160.D429 | - |
| MB GRIP 36 KD | R7/Type 50 | 160.D434 | 160.D435 | 160.D436 | - |
| MB 15 AK | B4/Type 16 | 160.0065 | 160.0078 | 160.0091 | - |
| MB 24 KD/26 KD | B6/Type 35 | 160.0239 | 160.0255 | 160.0267 | - |
| MB 25 AK | B5/Type 25 | 160.0128 | 160.0142 | 160.0155 | - |
| MB 36 KD | B7/Type 50 | 160.0364 | 160.0379 | 160.0391 | - |
| PP 24 D | B6/Type 35 | - | - | - | 153.0054 |
| PP 36 D | B7/Type 50 | - | - | - | 153.0129 |
| RAB Plus 15 AK | B4/Type 16 | 660.0001 | 660.0002 | 660.0003 | - |
| RAB Plus 24 KD | B6/Type 35 | 660.0010 | 660.0011 | 660.0012 | - |
| RAB Plus 25 AK | B5/Type 25 | 660.0005 | 660.0006 | 660.0007 | - |
| RAB Plus 36 KD | B7/Type 50 | 660.0014 | 660.0015 | 660.0016 | - |

II. Cable assembly liquid-cooled

| Type | Description | Cable assembly length | | | | per m |
|---------------------|-----------------|-----------------------|----------|----------|----------|-------|
| | | 3 m | 4 m | 5 m | 8 m | |
| MB GRIP 240/401/501 | Power cable HDH | 115.0065 | 115.0070 | 115.0074 | - | - |
| MB 240/401/501 | Power cable HDH | 115.0065 | 115.0070 | 115.0074 | - | - |
| ABIMIG® 452/645 | Power cable HDH | 115.0065 | 115.0070 | 115.0074 | - | - |
| RAB Plus 240/501 | Power cable PVC | 115.0581 | 115.0582 | 115.0583 | - | - |
| PP 240/401 | Power cable PVC | - | - | - | 115.0043 | - |

| | | | | | | |
|---------------------|--------------|----------|----------|----------|----------|---|
| MB GRIP 240/401/501 | Wire conduit | 156.0275 | 156.0276 | 156.0277 | - | - |
| MB 240/401/501 | Wire conduit | 156.0019 | 156.0023 | 156.0026 | - | - |
| ABIMIG® 452/645 | Wire conduit | 156.0019 | 156.0023 | 156.0026 | - | - |
| RAB Plus 240/501 | Wire conduit | 154.0002 | 154.0003 | 154.0004 | - | - |
| PP 240/401 | Wire conduit | - | - | - | 153.0028 | - |

| | | | | | | |
|---------------------|----------------------|---|---|---|---|----------|
| MB GRIP 240/401/501 | Water hose black HDH | - | - | - | - | 109.0052 |
| MB 240/401/501 | Water hose black HDH | - | - | - | - | 109.0052 |
| ABIMIG® 452/645 | Water hose black HDH | - | - | - | - | 109.0052 |
| RAB Plus 240/501 | Water hose blue PVC | - | - | - | - | 109.0057 |
| RAB Plus 240/501 | Water hose red PVC | - | - | - | - | 109.0056 |
| PP 240/401 | Water hose blue PVC | - | - | - | - | 109.0057 |
| PP 240/401 | Water hose red PVC | - | - | - | - | 109.0056 |

Bikox, Control cables, Hoses, Handles and Liner

II. Cable assembly liquid-cooled

| Type | Description | Cable assembly length | | | | |
|-------------------------|----------------------|-----------------------|-----|-----|-----|----------|
| | | 3 m | 4 m | 5 m | 8 m | per m |
| MB GRIP 240 / 401 / 501 | Gas hose | - | - | - | - | 109.0040 |
| MB 240 / 401 / 501 | Gas hose | - | - | - | - | 109.0040 |
| ABIMIG® 452 / 645 | Gas hose | - | - | - | - | 109.0040 |
| RAB Plus 240 / 501 | Gas hose | - | - | - | - | 109.0040 |
| PP 240 / 401 | Gas hose | - | - | - | - | 109.0040 |
| all torches | Control cable 2-pole | - | - | - | - | 100.0019 |

III. Hoses

| Type | Description | Cable assembly length | | | |
|----------------------------|---------------|-----------------------|----------|----------|----------|
| | | 3 m | 4 m | 5 m | per m |
| MB GRIP 240 / 401 / 501 | Hose 25 x 1.5 | - | - | - | 107.0004 |
| MB 240 / 401 / 501 | Hose 25 x 1.5 | 107.0079 | 107.0044 | 107.0080 | 107.0004 |
| ABIMIG® 452 / 645 | Hose 25 x 1.5 | - | - | - | 107.0004 |
| RAB Plus 15 / 24 / 25 / 36 | Hose LW 28 | - | - | - | 109.0042 |
| RAB Plus 240 / 501 | Hose LW 32 | - | - | - | 109.0043 |
| PP 24 / 36 / 240 / 401 | Hose 25 x 1.5 | - | - | - | 107.0004 |

IV. Hose clamps, Quick connector and Marking washer

| Type | Part-No. (20 pcs.) | for hose | | | |
|--|-----------------------|----------|----------|----------|----------|
| | | 109.0040 | 109.0052 | 109.0056 | 109.0057 |
| Hose clamp Ø=8.7 | 171.0002 | • | | | |
| Hose clamp Ø=9.0 with ring (mark. 9.5) | 173.0001 | | • | • | • |
| Quick connector NW 5 / Ø=6 | 501.0114 | | • | • | • |
| Marking washer red | 501.2166 | | • | | |
| Marking washer blue | 501.2167 | | • | | |
| Fastener cap red | 501.2423 | | • | • | |
| Fastener cap blue | 501.2424 | | • | | • |

Bikox, Control cables, Hoses, Handles and Liner

V. Handles

| Type | Description | Part-No. |
|--|---|----------|
| MB GRIP 15 / 24 / 25 / 26 / 36 / 240 / 401 / 501 | Handle GRIP | 180.0127 |
| Ball joint bent protection MB GRIP | air-cooled | 400.1124 |
| Ball joint bent protection MB GRIP | liquid-cooled | 400.1125 |
| Inner ring | for ball joint bent protection MB GRIP, liquid-cooled | 400.0790 |
| MB 15 / 24 / 25 / 26 / 36 / 240 / 401 / 501 | Handle ERGO | 180.0076 |
| ABIMIG® MT 452 / 645 | Handle tube MT | 180.0114 |
| RAB Plus 15 / 24 / 25 / 36 / 240 / 501 | Handle RAB Plus | 180.0110 |
| AUT 24 / 25 / 26 / 36 / 240 / 401 / 501 | Handle tube AUT | 180.0097 |

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 | - |

VII. Liner for special wire

| Liner | Colour | Ø inside / outside | for wire size | for 3 m | for 4 m | for 5 m | for 8 m |
|-----------|--------|--------------------|---------------|----------|----------|----------|----------|
| Liner | petrol | 2.0 / 4.7 | 1.0-1.2 | 126.0069 | 126.0070 | 126.0071 | - |
| Liner | petrol | 2.7 / 4.7 | 1.6 | 126.0072 | 126.0073 | 126.0074 | - |
| PA liner* | grey | 2.0 / 4.0 | 1.0-1.2 | - | 128.0015 | - | 128.0019 |
| PA liner* | grey | 2.3 / 4.7 | 1.6 | - | 128.0021 | - | 128.0023 |
| PA liner* | grey | 2.9 / 4.7 | 2.4 | - | 128.0025 | - | 128.0032 |

* only for Push-Pull

Coolant Recirculator WK 23 / WK 43

The portable cooling device for all common applications!

- **Simple handling:**
Connection (feed and return) via quick-action couplings
- **Compact design size:**
Small space requirements

- **Sturdy design:**
Indestructible stainless steel tank and sturdy housing
- **Service-friendly:**
Clear coolant sight glass

■ "Cool" supplement:
liquid-cooled welding
with air-cooled power
sources!



WK 23



WK 43

Technical data:

| Type | WK 23 | WK 43 |
|--|--|--|
| Heat exchanger: | 2 lines | 4 lines |
| Immersion pump 50 Hz (protection class IP 54) | Delivery height: Hmax. 32 m Flow rate at G3/8" connector: Qmax. 13.5 liters / min. | Delivery height: Hmax. 32 m Flow rate at G3/8" connector: Qmax. 13.5 liters / min. |
| Immersion pump 60 Hz (protection class IP 54) | Delivery height: Hmax. 32 m Flow rate at G3/8" connector: Qmax. 16.0 liters / min. | Delivery height: Hmax. 32 m Flow rate at G3/8" connector: Qmax. 16.0 liters / min. |
| Cooling capacity (RT = 22° C) | approx. 1000 W at 1 liter / min. | approx. 1250 W at 1 liter / min. |
| Dimensions (LxBxH) | 253x270x460 mm | 253x270x516 mm |
| Weight: | 17 kg | 18 kg |
| Tank capacity: | 7 liters | 7 liters |

| Type | Line voltage | Frequency | Power rating | Current consumption | Part-No. |
|-------|--------------|-----------|--------------|---------------------|----------|
| WK 23 | 115 V | 50 Hz | 0.35 kW | 6.5 A | 850.0214 |
| WK 23 | 115 V | 60 Hz | 0.35 kW | 6.5 A | 850.0135 |
| WK 23 | 230 V | 50 Hz | 0.35 kW | 3.1 A | 850.0137 |
| WK 23 | 230 V | 60 Hz | 0.35 kW | 3.1 A | 850.0210 |
| WK 23 | 240 / 415 V | 50 Hz | 0.50 kW | 2.6 / 1.6 A | 850.0144 |
| WK 43 | 115 V | 50 Hz | 0.35 kW | 6.5 A | 850.0215 |
| WK 43 | 115 V | 60 Hz | 0.35 kW | 6.5 A | 850.0156 |
| WK 43 | 230 V | 50 Hz | 0.35 kW | 3.1 A | 850.0159 |
| WK 43 | 230 V | 60 Hz | 0.35 kW | 3.1 A | 850.0211 |
| WK 43 | 240 / 415 V | 50 Hz | 0.50 kW | 2.6 A / 1.6 A | 850.0165 |

Operating instructions:

As coolant for all liquid-cooled torch systems, we recommend the special ABICOR BINZEL coolant BTC-15, which remains liquid down to -10° C. Must be used in conjunction with an adequate motor protection device. A water flow cut-off switch (850.0033) is recommended.

Welding Accessories

To achieve the best results ...

... one of the things which will help you to achieve the best results in the welding process is to use professional accessories. When ideally tailored to the task, they provide the basis for operational safety and long service life.

High-quality welding accessories increase the output and reliability of your torch.

To achieve perfect results, don't leave anything to chance.

Rely on original welding accessories from ABICOR BINZEL.



- 1 Anti spatter spray**
silicon and solvent free
Content: 400 ml Part-No.: 192.0127
- 2 Super pistole spray**
silicon free, protect for spatter
Content : 400 ml Part-No.: 192.0071
- 3 Duesofix**
anti spatter paste
Content : 300 ml Part-No.: 192.0058
- 4 Anti spatter fluid**
silicon free, protect for spatter
1 litre Part-No.: 192.0056
5 litre Part-No.: 192.0052
20 litre Part-No.: 192.0048
200 litre Part-No.: 192.0046

- 5 Eco-Anti spatter emulsion**
flameproof, silicon free, bio-degradable, protect for spatter
1 litre Part-No.: 192.0161
5 litre Part-No.: 192.0162
10 litre Part-No.: 192.0159
Aerosol Part-No.: 192.0164
Aerosol with 400 ml can (empty) Part-No.: 192.0163
- 6 Wire cleaning set**
red for steel (set) Part-No.: 193.0001
white for Al (set) Part-No.: 193.0002
red for steel (25 pcs.) Part-No.: 193.0003
white for Al (25 pcs.) Part-No.: 193.0004
- 7 Gas flow meter** Part-No.: 191.0003
- 8 Clamp** Part-No.: 193.0007

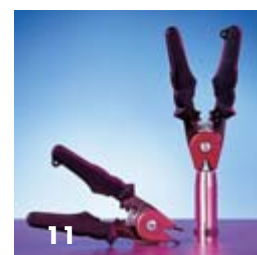
Welding Accessories



9



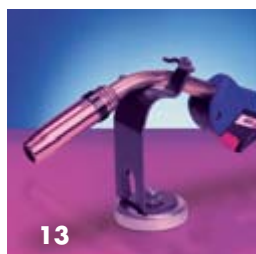
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12



13



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15

16

17



18

19

9 Special coolant BTC-15

The special coolant from BINZEL protect down to -10° C for all liquid welding and cutting facilities.

| | |
|-----------|--------------------|
| 5 litre | Part-No.: 192.0110 |
| 20 litre | Part-No.: 192.0111 |
| 200 litre | Part-No.: 192.0112 |

10 Accessories case

| | |
|-------|--------------------|
| big | Part-No.: 192.0069 |
| small | Part-No.: 192.0066 |

11 Special pliers

| | |
|-------------|--------------------|
| No. 1 (FIX) | Part-No.: 193.0013 |
| No. 2 (FIX) | Part-No.: 193.0014 |

12 Spigot

| | |
|----------------------|--------------------|
| for 200 litre barrel | Part-No.: 192.0109 |
|----------------------|--------------------|

13 MIG-Handy-Support

| | |
|---------------------------|--------------------|
| without magnet base (FIX) | Part-No.: 193.0018 |
|---------------------------|--------------------|

14 Spanner

| | |
|------------------------|--------------------|
| Standard | Part-No.: 191.0001 |
| for ABIMIG® air-cooled | Part-No.: 191.D030 |

15 Multiple spanner

| |
|--------------------|
| Part-No.: 191.0015 |
|--------------------|

16 Electrode spanner

| |
|--------------------|
| Part-No.: 743.0064 |
|--------------------|

17 Universal spanner

| |
|--------------------|
| Part-No.: 750.0125 |
|--------------------|

18 Sharpener

| | |
|-----------------------|--------------------|
| for collet core liner | Part-No.: 191.0064 |
|-----------------------|--------------------|

19 Hose cutter

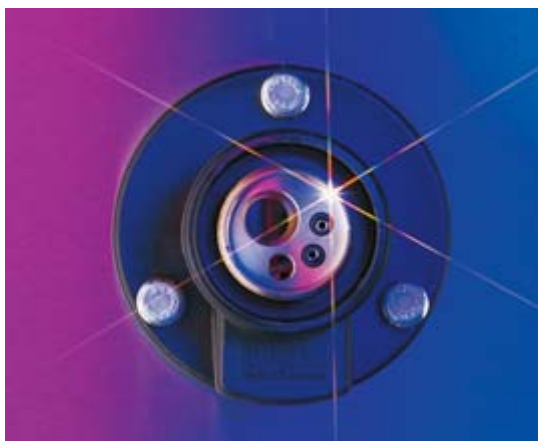
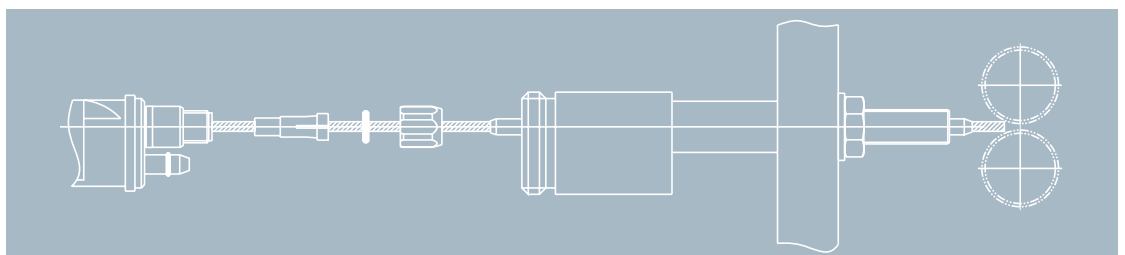
| |
|--------------------|
| Part-No.: 191.0062 |
|--------------------|

Central adaptor and central connector system

The universal connection ...

The original ABICOR BINZEL central adaptor and central connector, for air-cooled and liquid-cooled MIG/MAG machines, have been the industry standard for more than 30 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.



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 there should occur an adaptation problem, please contact us - we will take care of it.

Central adaptor and central connector system

Insulation flanges

| Description | Pos. | Details | Part-No. |
|-------------------|------------|----------|----------|
| Insulation flange | (n. shown) | 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 | (n. shown) | □ 60 mm | 501.2308 |



Brass bodies

| Description | Pos. | Details | Part-No. |
|-----------------------------|------------|--------------------------|----------|
| Brass body | 4 | Gas axial | 501.0168 |
| Brass body | 5 | Gas radial | 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 | (n. shown) | 600 mm (white) | 501.0183 |
| Connector with control line | (n. shown) | 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 adapter plug blanks for individual processing, representing the more than 500 different adapter plugs available in the ABICOR BINZEL range.

We supply ready-made adapters on request, please specify the make and type of wire feeding device and/or compact plant 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 |
| | 300 mm | 129.0471 |
| | 500 mm | 129.0473 |
| | 1000 mm | 129.0426 |

The guide tubes must be fitted as shown in the assembly instructions on page 35.



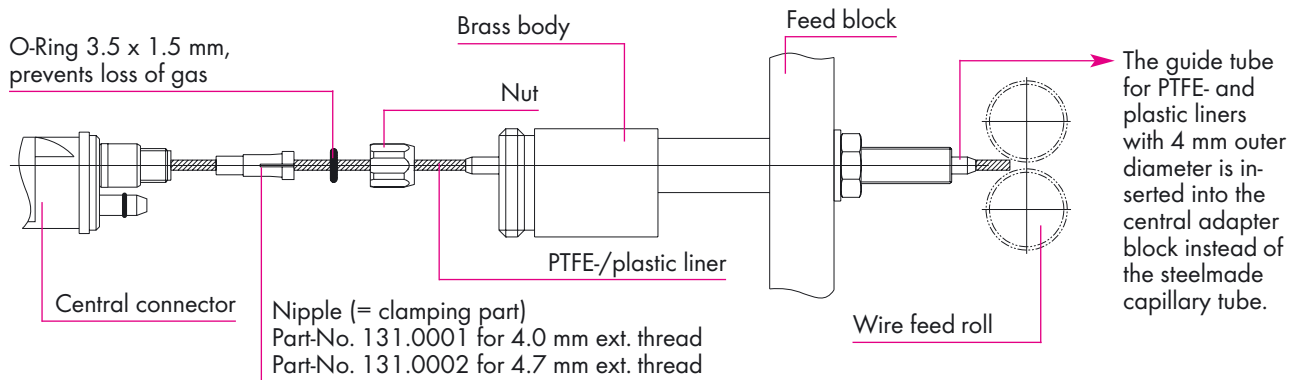
Quick disconnectors

| Description | Part-No. |
|---|----------|
| for fitting with hose 8 mm Ø | 501.0190 |
| for mounting with G 1/2" nut and power connection | 501.0198 |
| for fitting with hose 6 mm Ø | 501.0204 |
| for fitting with hose 6.5 mm Ø | 501.0230 |
| for mounting with G 3/8" nut and power connection | 501.0163 |
| for fitting with hose 10 mm Ø | 501.0195 |
| for mounting with nut M 12x1.5 | 501.0194 |
| for mounting with nut G 3/8" | 501.0189 |
| for mounting with nut M 12x1 | 501.0176 |
| for mounting with nut G 1/4" | 501.0158 |
| for mounting with nut M 14x1 | 501.0197 |
| for mounting with nut G 1/2" | 501.0191 |
| for mounting with nut 5/8" LH ext. thread | 501.0188 |
| for mounting with nut 7/8" 14G-UNF | 501.0196 |
| Spacer ring | 501.0304 |
| Quick disconnect G 1/8" ext. thread | 177.0003 |
| Quick disconnect G 1/8" ext. thread | 177.0002 |
| Quick disconnect G 3/8" ext. thread | 177.0012 |

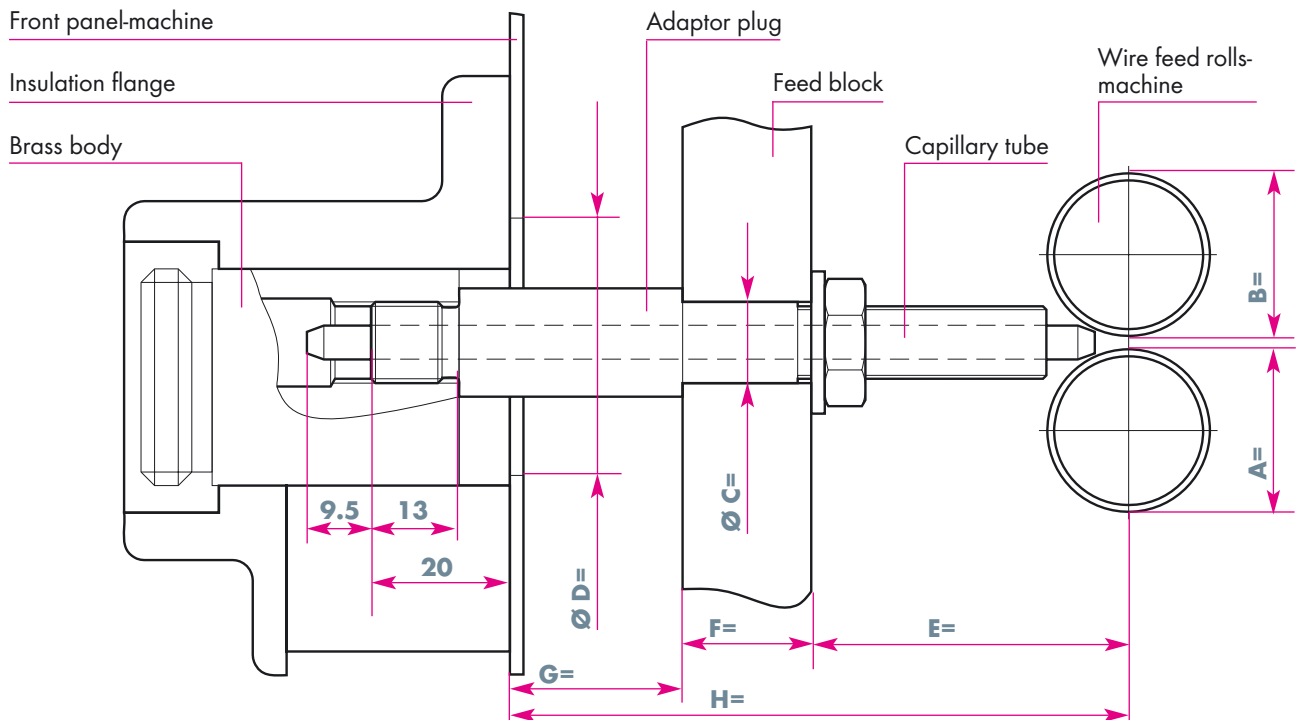


Central adaptor and central connector system

Assembly advice for use of PTFE- and plastic liners:



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



| | 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"/> | pole | |

Sender

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

| | |
|------------|--|
| Name: | |
| Phone: | |
| Fax: | |
| Date: | |
| Signature: | |

Hint:

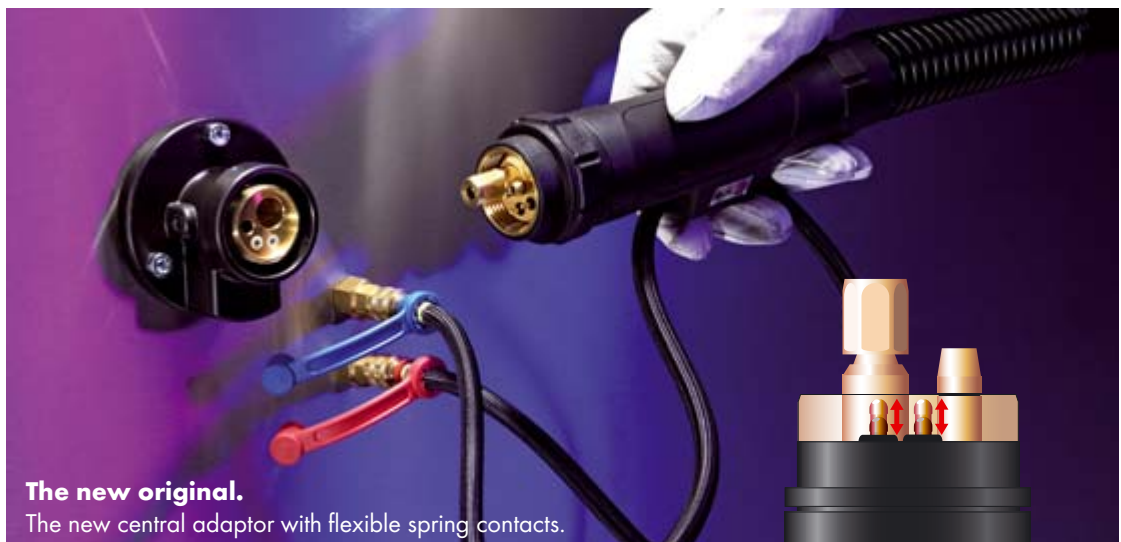
Copy this page so you can use it several times.

Central adaptor with spring contacts

Flexible contacting ...

The system clicks!
No matter what happens.

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



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

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

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

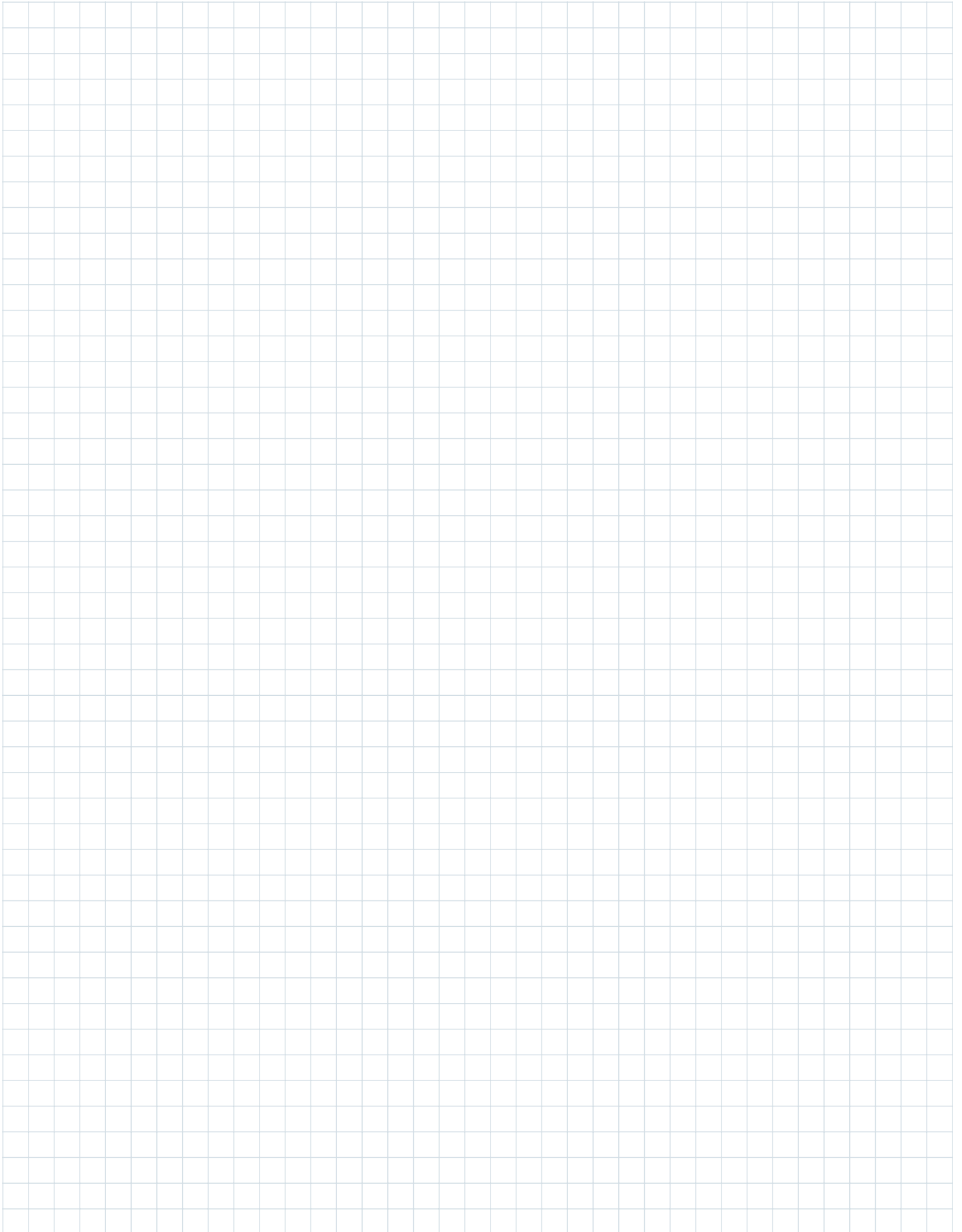
Central adaptor with spring contacts

| Type | Details | Part-No. |
|---------------------------|---|----------|
| Central adaptor KZ-2 | for MB / MB GRIP & RAB Plus, air-cooled | 501.0003 |
| Central adaptor WZ-2 | for MB / MB GRIP, Push-Pull & RAB Plus, liquid-cooled | 501.0015 |
| Central adaptor WZ-2 | for ABIMIG®, liquid-cooled | 501.0015 |
| Central adaptor GZ-2 | for Push-Pull, air-cooled | 501.0005 |
| Adaptor with control line | 100 mm (white) | 501.2378 |
| Adaptor with control line | 100 mm (brown) | 501.2377 |

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



Notes



Our product range:

■ MIG/MAG

- Welding Torches
- Automatic and Special Torches
- Push-Pull Welding Torches
- Fume Extraction Torches
- Central Adaptor System

■ TIG

- Welding Torches
- Automatic and Special Torches

■ PLASMA

- Cutting Torches
- Welding Torches
- Automatic and Special Torches

■ Robotic Peripheral Equipment

- Robot Torches
MIG/TIG/Plasma
- Robot Mount CAT2 /iCAT
- Torch Change System
ATS-Rotor
- Tool Change System WWS
- Wire Cutting Station DAV
- Torch Cleaning Station
BRS-LC, BRS-CC and BRS-FP
- Wire Feeding Station APD-MF

■ Welding Accessories

- Cooling Device
- Welding Cable Plug and Socket
- Anti Spatter Spray and Paste
and so on ...

ABICOR
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