

# MIG/MAG CATALOG 4.3



**MIG/MAG Welding Technology for all  
Metalworking Industries.**





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**Wear parts system “MB”**



# MIG/MAG welding torches "MB EVO PRO"

## Air cooled • rating 150 A up to 230 A

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

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

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

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



### MB EVO PRO 15

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

|             |  |
|-------------|--|
| Rating:     | 180 A CO <sub>2</sub><br>150 A mixed gas M21<br>(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><br>200 A mixed gas M21<br>(DIN EN ISO 14175) |
| Duty cycle: | 60%  |
| Wire size:  | 0.8 – 1.2 mm   |

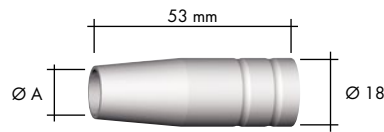
| Torch complete<br>Type | Handle            | Part-No.   |            |            | Swan neck |            |
|------------------------|-------------------|------------|------------|------------|-----------|------------|
|                        |                   | 3 m        | 4 m        | 5 m  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



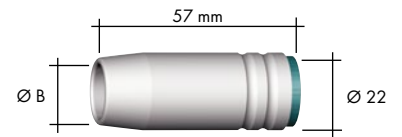
# MB EVO PRO 15, MB EVO PRO 25

## Wear parts

### MB EVO PRO 15

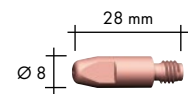
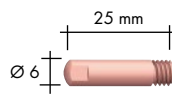


### MB EVO PRO 25



## Gas nozzle (10 pcs.)

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



## Contact tip (10 pcs.)

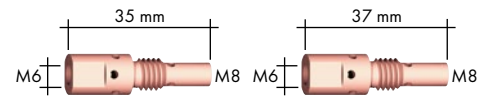
|             |       | M6                    | M6                    |
|-------------|-------|-----------------------|-----------------------|
| E-Cu        | Ø 0.6 | 140.0008              | -                     |
|             | Ø 0.8 | 140.0059              | 140.0051              |
|           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

## Nozzle spring (100 pcs.)



|  |                       |                       |
|--|-----------------------|-----------------------|
|  | 002.0058 <sup>1</sup> | 003.0013 <sup>2</sup> |
|--|-----------------------|-----------------------|

## Gas nozzle holder (1 pc.) / Contact tip holder (10 pcs.)



|    |                       |                       |             |
|----|-----------------------|-----------------------|-------------|
| M6 | 002.0078 <sup>1</sup> | 142.0001 <sup>2</sup> | 142.0267.10 |
|----|-----------------------|-----------------------|-------------|

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

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

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

# MIG/MAG welding torches "MB EVO PRO"

## Air cooled • rating 220 A up to 320 A

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

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

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

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



### MB EVO PRO 24

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

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

Duty cycle: 60%

Wire size: 0.8 – 1.2 mm

### MB EVO PRO 26

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

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

Duty cycle: 60%

Wire size: 0.8 – 1.2 mm

### MB EVO PRO 36

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

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

Duty cycle: 60%

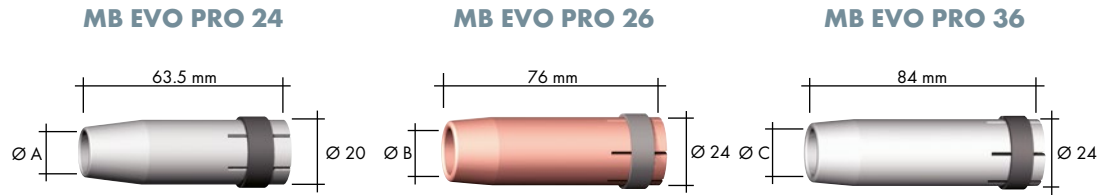
Wire size: 0.8 – 1.2 mm

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



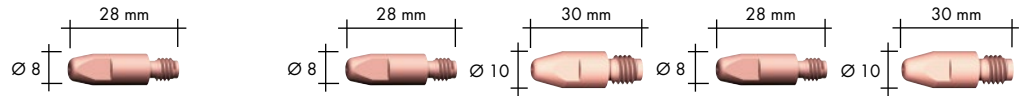
# MB EVO PRO 24, MB EVO PRO 26, MB EVO PRO 36

## Wear parts



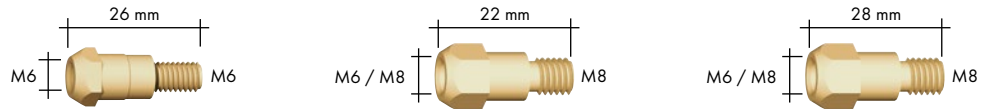
## Gas nozzle (10 pcs.)

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



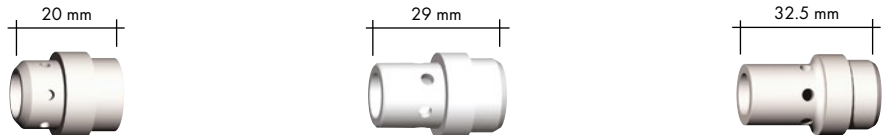
## Contact tip (10 pcs.)

|             |       | M6                    | M6                    | M8       | M6       | M8                    |
|-------------|-------|-----------------------|-----------------------|----------|----------|-----------------------|
| E-Cu        | Ø 0.8 | 140.0051              | 140.0051              | 140.0114 | 140.0051 | 140.0114              |
|             | 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 <sup>1</sup> | 140.0245 <sup>2</sup> | 140.0316 | 140.0245 | 140.0316              |
|             | Ø 1.2 | 140.0382              | 140.0382              | 140.0445 | 140.0382 | 140.0445 <sup>3</sup> |



## Contact tip holder (10 pcs.)

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



## Gas diffuser (10 pcs.)

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

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

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

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

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

# MIG/MAG welding torches "MB EVO PRO"

## Liquid cooled • rating 300 A up to 575 A

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

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

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



### MB EVO PRO 240 D

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

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

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

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

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

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

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

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

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

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

Duty cycle: 100%

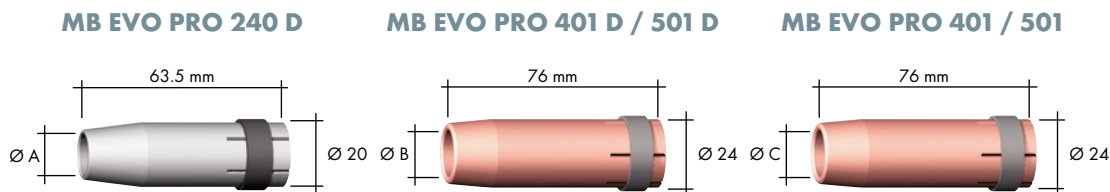
Wire size: 1.0 – 1.6 mm

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

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

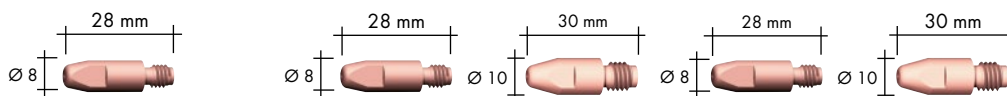
# MB EVO PRO 240 D, MB EVO PRO 401 / 401 D, MB EVO PRO 501 / 501 D

## Wear parts



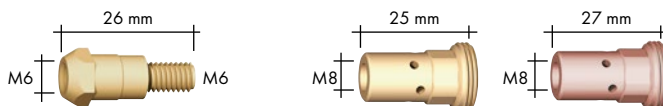
## Gas nozzle (10 pcs.)

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



## Contact tip (10 pcs.)

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



## Contact tip holder (10 pcs.)

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



## Gas diffuser (10 pcs.)

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

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

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

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

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

# MIG/MAG welding torches "MB EVO"

## Air cooled • rating 150 A up to 230 A

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

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



### MB EVO 15

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

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

### MB EVO 25

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

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

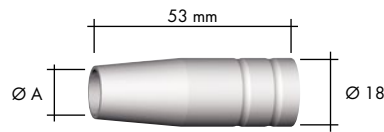
| Torch complete<br>Type | Handle        | Part-No.   |            |            | Swan neck |            |
|------------------------|---------------|------------|------------|------------|-----------|------------|
|                        |               | 3 m        | 4 m        | 5 m        | Type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



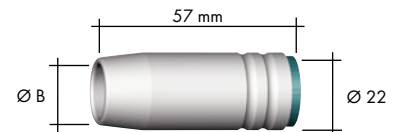
# MB EVO 15, MB EVO 25

## Wear parts

### MB EVO 15

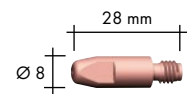
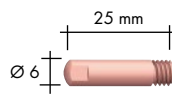


### MB EVO 25



## Gas nozzle (10 pcs.)

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



## Contact tip (10 pcs.)

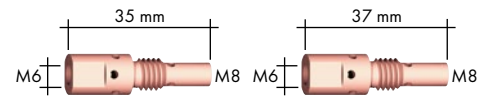
|             |       | M6                    | M6                    |
|-------------|-------|-----------------------|-----------------------|
| E-Cu        | Ø 0.6 | 140.0008              | -                     |
|             | Ø 0.8 | 140.0059 <sup>1</sup> | 140.0051              |
|           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

## Nozzle spring (100 pcs.)



|  |                       |                       |
|--|-----------------------|-----------------------|
|  | 002.0058 <sup>1</sup> | 003.0013 <sup>2</sup> |
|--|-----------------------|-----------------------|

## Gas nozzle holder (1 pc.) / Contact tip holder (10 pcs.)



|    |                       |                       |             |
|----|-----------------------|-----------------------|-------------|
| M6 | 002.0078 <sup>1</sup> | 142.0001 <sup>2</sup> | 142.0267.10 |
|----|-----------------------|-----------------------|-------------|

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

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

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

# MIG/MAG welding torches "MB EVO"

## Air cooled • rating 220 A up to 320 A

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

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



### MB EVO 24

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

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

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB EVO 26

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

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

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB EVO 36

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

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

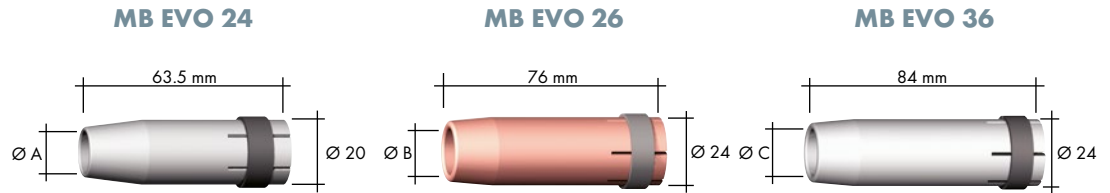
Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

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

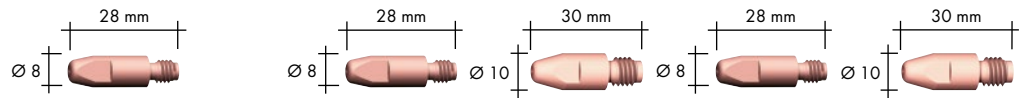
# MB EVO 24, MB EVO 26, MB EVO 36

## Wear parts



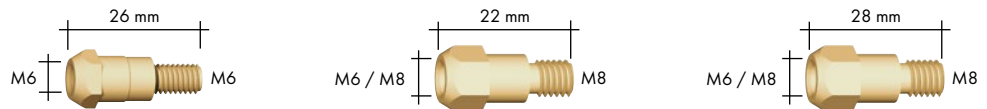
## Gas nozzle (10 pcs.)

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



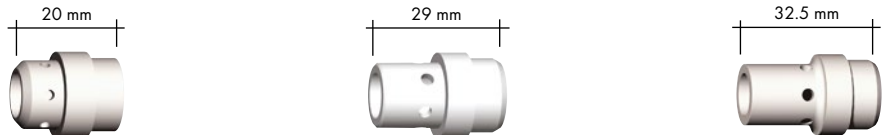
## Contact tip (10 pcs.)

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



## Contact tip holder (10 pcs.)

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



## Gas diffuser (10 pcs.)

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

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

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

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

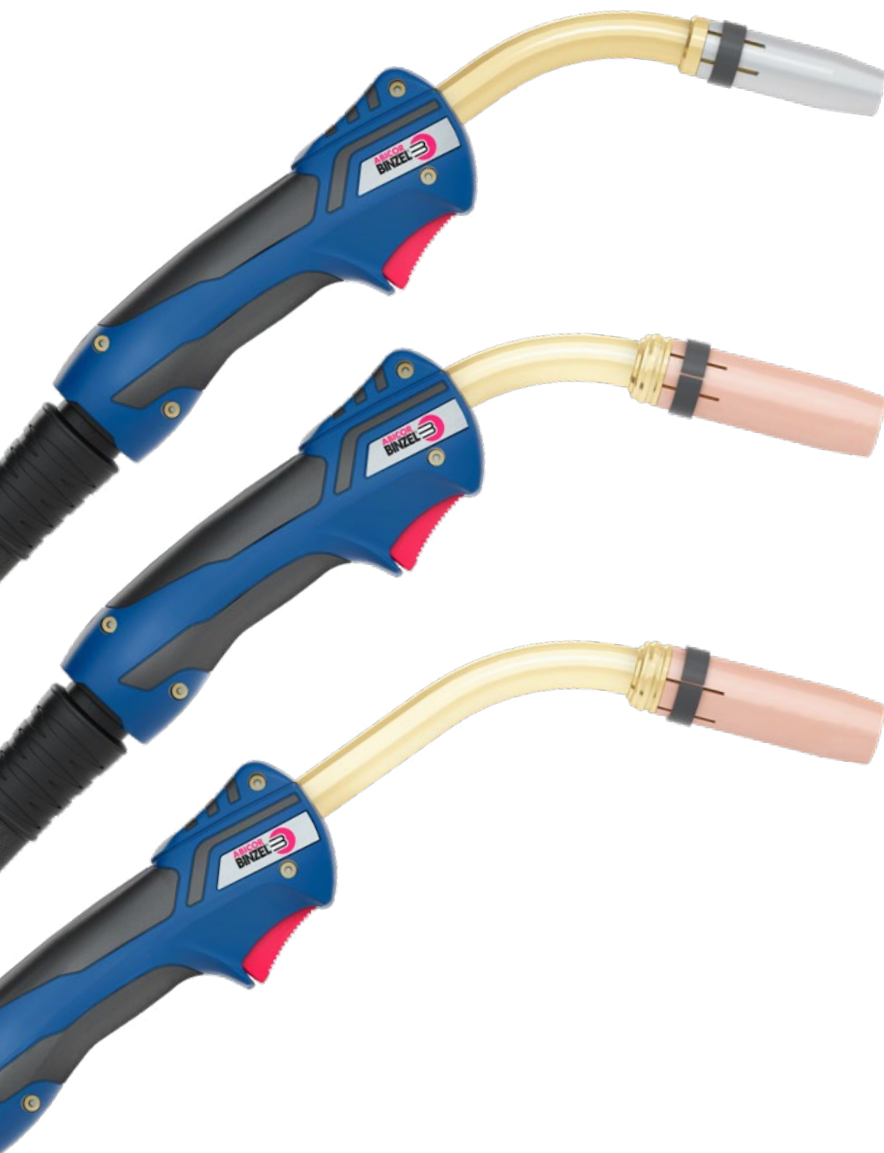
<sup>3</sup> Included in the standard equipment for complete torches MB EVO 36.

# MIG/MAG welding torches "MB EVO"

## Liquid cooled • rating 270 A up to 500 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 ergonomic
- Proven "MB" wearing part concept and media hoses
- Optimum trigger position, tapered handle design and sophisticated ball joint construction – for best handling in all welding positions
- Easy to repair construction down to the last detail – best space conditions for the simplest maintenance measures
- Solid, size-optimised central connector with protected hose guide



### MB EVO 240 D

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

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

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB EVO 401 D

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

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

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB EVO 501 D

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

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

Duty cycle: 100%

Wire size: 1.0 – 1.6 mm

| Torch complete<br>Type | Handle       | 3 m        | Part-No.   |            |      | Swan neck  |  |
|------------------------|--------------|------------|------------|------------|------|------------|--|
|                        |              |            | 4 m        | 5 m        | Type | Part-No.   |  |
| MB EVO 240 D           | Typ „MB EVO“ | 023.0322.1 | 023.0323.1 | 023.0324.1 | 50°  | 023.0316.1 |  |
| MB EVO 401 D           | Typ „MB EVO“ | 033.0387.1 | 033.0388.1 | 033.0389.1 | 50°  | 033.0378.1 |  |
| MB EVO 501 D           | Typ „MB EVO“ | 034.0865.1 | 034.0866.1 | 034.0867.1 | 50°  | 034.0856.1 |  |

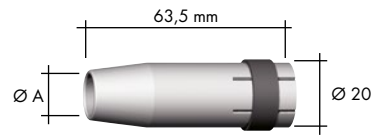
**Note for liquid cooled torches:** To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.



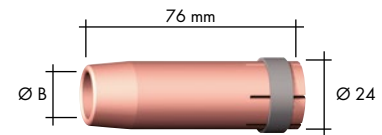
# MB EVO 240 D, MB EVO 401 D, MB EVO 501 D

## Wear parts

### MB EVO 240 D

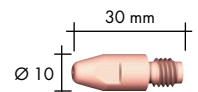
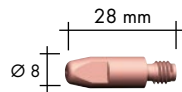


### MB EVO 401 D / 501 D



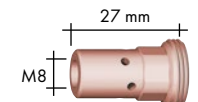
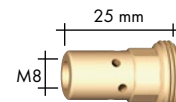
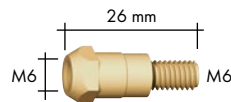
## Gas nozzle (10 pcs.)

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



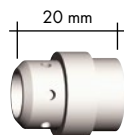
## Contact tip (10 pcs.)

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



## Contact tip holder (10 pcs.)

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



## Gas diffuser (10 pcs.)

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

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

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

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

# MIG/MAG welding torches "MB GRIP"

## Air cooled • rating 150 A up to 230 A

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

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

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



### MB GRIP 15 AK

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

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

### MB GRIP 25 AK

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

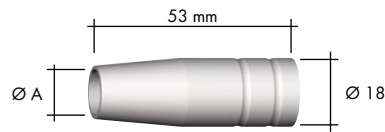
|             |  |
|-------------|--|
| Rating:     | 230 A CO <sub>2</sub><br>200 A mixed gas M21<br>(DIN EN ISO 14175) |
| Duty cycle: | 60%  |
| Wire size:  | 0.8 – 1.2 mm   |

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

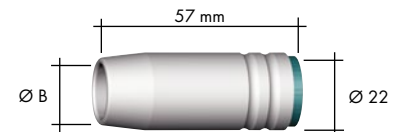
# MB GRIP 15, MB GRIP 25

## Wear parts

### MB GRIP 15 AK

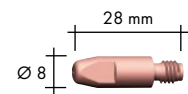
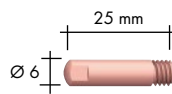


### MB GRIP 25 AK



## Gas nozzle (10 pcs.)

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



## Contact tip (10 pcs.)

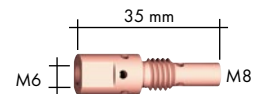
|             |       | M6                    | M6                    |
|-------------|-------|-----------------------|-----------------------|
| E-Cu        | Ø 0.6 | 140.0008              | -                     |
|             | Ø 0.8 | 140.0059 <sup>1</sup> | 140.0051              |
|           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

## Nozzle spring (100 pcs.)



|  |                       |                       |
|--|-----------------------|-----------------------|
|  | 002.0058 <sup>1</sup> | 003.0013 <sup>2</sup> |
|--|-----------------------|-----------------------|

## Gas nozzle holder / Contact tip holder



|    |                       |                                 |
|----|-----------------------|---------------------------------|
| M6 | 002.0078 <sup>1</sup> | 142.0001 <sup>2</sup> (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 <sup>1</sup> | 124.0026 <sup>2</sup> | 124.0026 | 124.0012 | 124.0012 <sup>1</sup> | 124.0031 <sup>2</sup> | 124.0031 | 124.0015 | 124.0015 <sup>1</sup> | 124.0035 <sup>2</sup> | 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 |
|                 |            |                   | 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 |

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

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

# MIG/MAG welding torches "MB GRIP"

## Air cooled • rating 220 A up to 320 A

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



### MB GRIP 24 KD

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

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

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB GRIP 26 KD

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

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

Duty cycle: 60%

Wire size: 0.8 - 1.2 mm

### MB GRIP 36 KD

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

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

Duty cycle: 60%

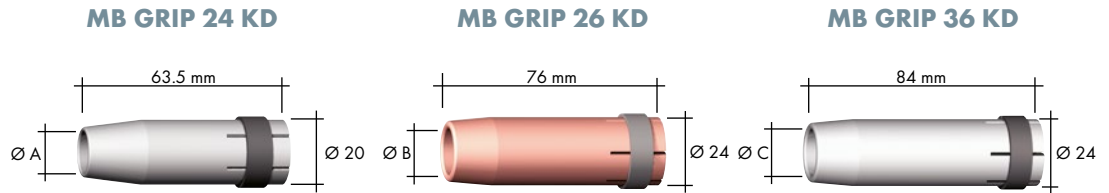
Wire size: 0.8 - 1.2 mm

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



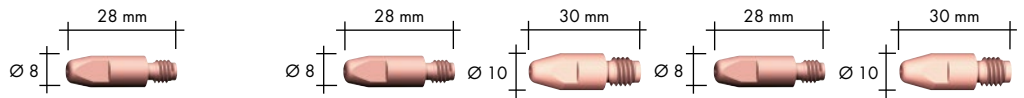
# MB GRIP 24, MB GRIP 26, MB GRIP 36

## Wear parts



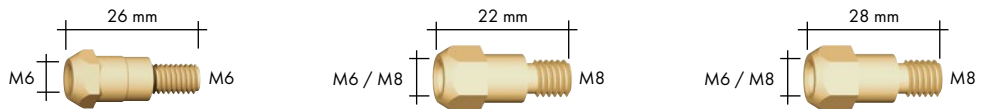
## Gas nozzle (10 pcs.)

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



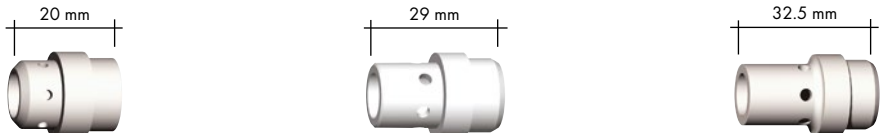
## Contact tip (10 pcs.)

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



## Contact tip holder (10 pcs.)

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



## Gas diffuser (10 pcs.)

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

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

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

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

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

# MIG/MAG welding torches "MB GRIP"

## Liquid cooled • rating 270 A up to 500 A

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



### MB GRIP 240 D

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

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

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB GRIP 401 D

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

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

Duty cycle: 100%

Wire size: 0.8 – 1.2 mm

### MB GRIP 501 D

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

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

Duty cycle: 100%

Wire size: 1.0 – 1.6 mm

#### Note for liquid cooled torches:

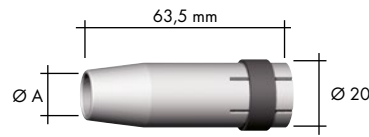
To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

| Torch complete<br>Type | Handle        | Part-No. |          |          | Swan neck |          |
|------------------------|---------------|----------|----------|----------|-----------|----------|
|                        |               | 3 m      | 4 m      | 5 m      | Type      | Part-No. |
| MB GRIP 240 D          | Typ „MB GRIP“ | 023.0225 | 023.0226 | 023.0227 | 50°       | 023.0228 |
| MB GRIP 401 D          | Typ „MB GRIP“ | 033.0271 | 033.0272 | 033.0273 | 50°       | 033.0277 |
| MB GRIP 501 D          | Typ „MB GRIP“ | 034.0492 | 034.0493 | 034.0494 | 50°       | 034.0496 |

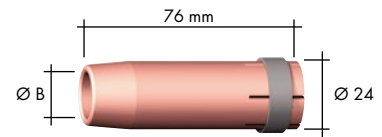
# MB GRIP 240 D, MB GRIP 401 D, MB GRIP 501 D

## Wear parts

### MB GRIP 240 D



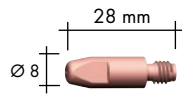
### MB GRIP 401 D / 501 D



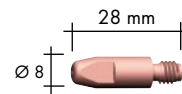
## Gas nozzle (10 pcs.)

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

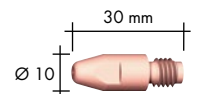
## Contact tip (10 pcs.)



### M6

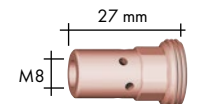
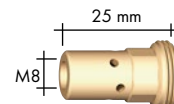
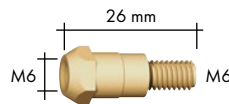


### M6



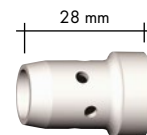
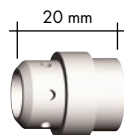
### M8

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



## Contact tip holder (10 pcs.)

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



## Gas diffuser (10 pcs.)

|           |                       |                       |
|-----------|-----------------------|-----------------------|
| Standard  | 012.0183 <sup>1</sup> | 030.0145 <sup>2</sup> |
| Long life | -                     | 030.0037              |
| Ceramic   | -                     | 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 <sup>1</sup>   | 122.0036 <sup>1</sup>   | 122.0039 <sup>1</sup>   |
|                      | Ø 1.2 | 122.0031 <sup>2,3</sup> | 122.0036 <sup>2,3</sup> | 122.0039 <sup>2,3</sup> |
|                      | 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<br>PTFE liner | Ø 0.8 | 127.0002                | 127.0003                | 127.0004                |
|                      | Ø 1.0 | 127.0005                | 127.0007                | 127.0008                |
|                      | Ø 1.2 | 127.0005                | 127.0007                | 127.0008                |
|                      | Ø 1.6 | 127.0010                | 127.0012                | 127.0013                |

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

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

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

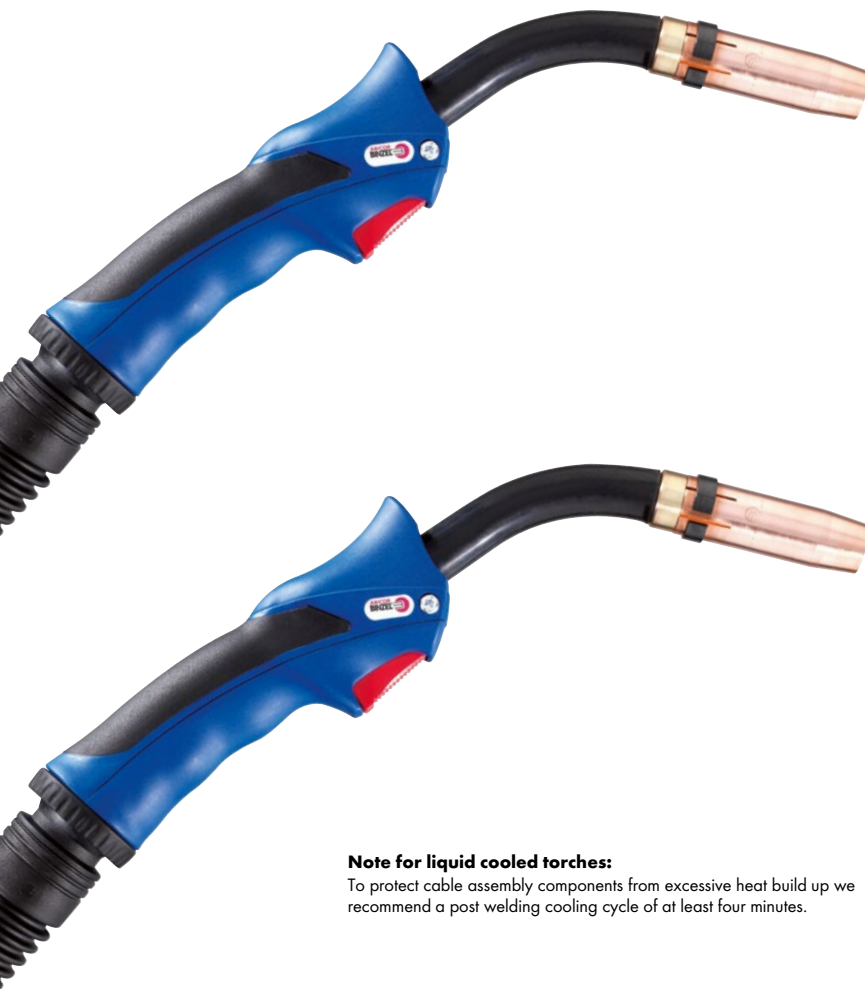
## Liquid cooled • rating 400 A up to 575 A

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><br>500 A mixed gas<br>400 A Pulse |
| 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><br>525 A mixed gas<br>400 A Pulse |
| 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<br>Type  | Handle              | 3 m        | Part-No.   |            |      | Swan neck  |  |
|-------------------------|---------------------|------------|------------|------------|------|------------|--|
|                         |                     |            | 4 m        | 5 m        | Type | Part-No.   |  |
| ABIMIG® GRIP W 555 D    | Type "ABIMIG® GRIP" | 766.0526.1 | 766.0527.1 | 766.0528.1 | 50°  | 766.0532.1 |  |
| ABIMIG® GRIP W 555 D TS | Type "ABIMIG® GRIP" | 766.1457.1 | 766.1458.1 | 766.1459.1 | 50°  | 766.0900.1 |  |
| ABIMIG® GRIP W 555      | Type "ABIMIG® GRIP" | 766.0529.1 | 766.0530.1 | 766.0531.1 | 50°  | 766.0533.1 |  |



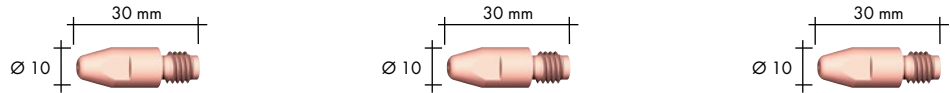
# ABIMIG® GRIP W 555 D, ABIMIG® GRIP W 555, ABIMIG® GRIP W 555 D TS

## Wear parts



## Gas nozzle

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



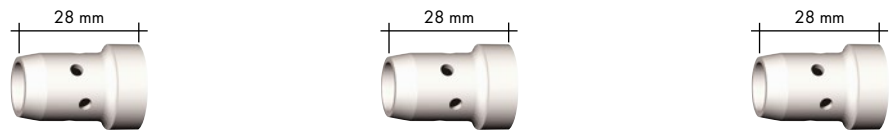
## Contact tip (10 pcs.)

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



## Contact tip holder (10 pcs.)

| M8 | ABIMIG® GRIP W 555 D (10 pcs.) | ABIMIG® GRIP W 555 D TS (5 pcs.) | ABIMIG® GRIP W 555 (10 pcs.) |
|----|--------------------------------|----------------------------------|------------------------------|
|    | 142.0201.10 <sup>1</sup>       | 142.0201.10 <sup>2</sup>         | -                            |



## Gas diffuser (10 pcs.)

|           | ABIMIG® GRIP W 555 D (10 pcs.) | ABIMIG® GRIP W 555 D TS (5 pcs.) | ABIMIG® GRIP W 555 (10 pcs.) |
|-----------|--------------------------------|----------------------------------|------------------------------|
| Standard  | 030.0145 <sup>1</sup>          | 030.0145 <sup>2</sup>            | 030.0145 <sup>3</sup>        |
| Long life | 030.0037                       | 030.0037                         | 030.0037                     |
| Ceramic   | 030.0190                       | 030.0190                         | 030.0190                     |

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

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

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

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

# MIG/MAG welding torches Push-Pull Plus

## Air and liquid cooled



### Note for liquid cooled torches:

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



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

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

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

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

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

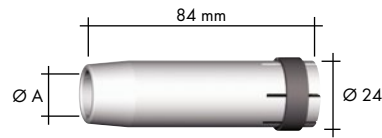
| Type                                 | Part-No.         |               |            |
|--------------------------------------|------------------|---------------|------------|
|                                      | 8 m without Poti | 8 m with Poti | Swan neck  |
| Push-Pull Plus 36 D; straight; GZ-2  | 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 401 D; straight; WZ-2 | 095.0100.1       | 095.0114.1    | 095.0002   |
| Push-Pull Plus 401 D; 45° bend; WZ-2 | 095.0101.1       | 095.0115.1    | 095.0015   |

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

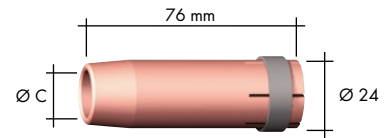
# Push-Pull Plus 36 D, Push-Pull Plus 401 D

## Wear parts

### Push-Pull Plus 36 D

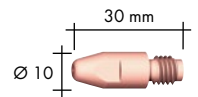
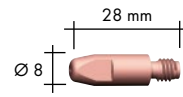
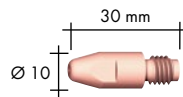
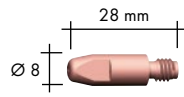


### Push-Pull Plus 401 D



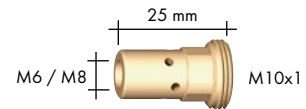
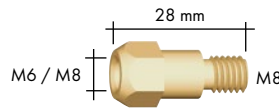
## Gas nozzle (10 pcs.)

|             | Ø A  |                       | Ø B  |                       |
|-------------|------|-----------------------|------|-----------------------|
| Cylindrical | Ø 19 | 145.0045              | Ø 20 | 145.0051              |
| Conical     | Ø 16 | 145.0078 <sup>1</sup> | Ø 16 | 145.0085 <sup>2</sup> |
| Tapered     | Ø 12 | 145.0126              | Ø 14 | 145.0132              |



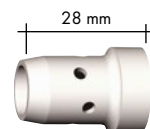
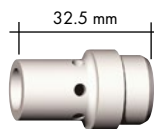
## Contact tip (10 pcs.)

|             |       | M6       | M8                    | M6       | M6                    |
|-------------|-------|----------|-----------------------|----------|-----------------------|
| E-Cu        | Ø 0.8 | 140.0051 | 140.0114              | 140.0051 | 140.0114              |
|             | Ø 1.0 | 140.0242 | 140.0313              | 140.0242 | 140.0313              |
|             | Ø 1.2 | 140.0379 | 140.0442 <sup>1</sup> | 140.0379 | 140.0442 <sup>2</sup> |
| E-Cu for Al | Ø 0.8 | 141.0001 | 141.0003              | 141.0001 | 141.0003              |
|             | 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 | 140.0117              |
|             | 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              | 142.0008              |
| M8 | 142.0020 <sup>1</sup> | 142.0022 <sup>2</sup> |



## Gas diffuser (10 pcs.)

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

## Liner

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

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

<sup>2</sup> Included in the standard equipment for complete torches Push-Pull Plus 401 D.

<sup>3</sup> For straight torch necks (0°).

<sup>4</sup> For bended torch necks (45°).

# MIG/MAG machine welding torches

## Air and liquid cooled

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

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

### Your ABICOR BINZEL advantages:

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



### Note for liquid cooled torches:

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



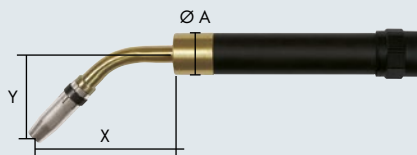


## Fixed swan neck

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

Further torch geometries on request.

### Fixed swan neck

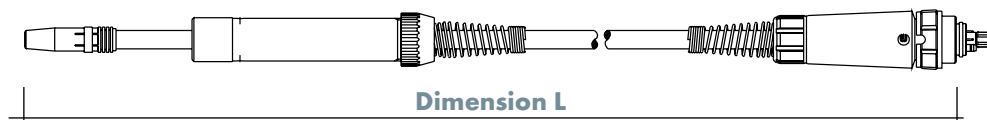


Ø A air cooled torches: 38 mm  
liquid cooled torches: 38 mm

### Order information:

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

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



# MIG/MAG fume extraction torches "RAB GRIP"

## Air and liquid cooled

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

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



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



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

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

\*Module solutions on demand.



Suction nozzle with Quicklock, feed air slide on top

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

## RAB GRIP specific wear parts



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

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

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

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

## Technical Data

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

### Note for liquid cooled torches:

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

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



MIG/MAG **without** fume extraction



RAB GRIP **with** fume extraction

# MIG/MAG fume extraction torches "RAB GRIP HE 2"

## Air and liquid cooled

Welding fume can represent a considerable health risk. Occupational safety experts recommend that it is filtered out of the air directly after generation. ABICOR BINZEL has developed the new RAB GRIP HE 2 (High Efficiency), which is characterised by good accessibility, high detection capability and robustness, in order to ensure this in an industrial environment and under unfavourable conditions as well. RAB GRIP HE 2 combines effective health protection with the best possible working conditions and is suitable for demanding industrial applications.



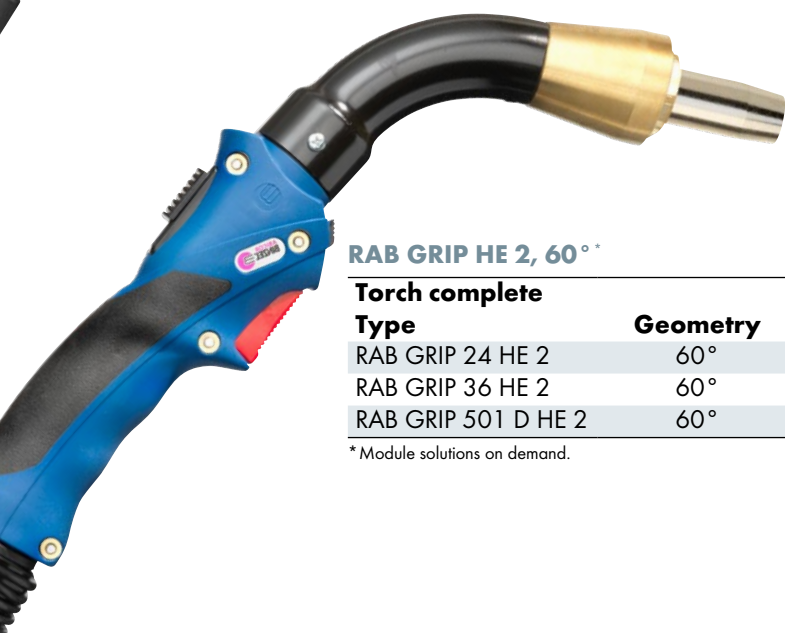
- New extraction nozzle geometry and enlarged flow diameter for the extraction of welding fumes even in difficult working positions without endangering the gas shielding
- Free-standing standard MB gas nozzle for accessibility similar to standard torches
- Robust design, long-life construction
- Reliable gas nozzle cooling – standard, long-life parts
- Optimum accessibility by optional 45° or 60° neck bend
- System solution for clean air in the production: RAB GRIP HE 2 together with the ABICOR BINZEL fume extraction units



### RAB GRIP HE 2, 45°\*

| Torch complete      |          | Part-No.   |            |            |
|---------------------|----------|------------|------------|------------|
| Type                | Geometry | 3 m        | 4 m        | 5 m        |
| RAB GRIP 24 HE 2    | 45°      | 612.0118.1 | 612.0119.1 | 612.0120.1 |
| RAB GRIP 36 HE 2    | 45°      | 614.0219.1 | 614.0220.1 | 614.0221.1 |
| RAB GRIP 501 D HE 2 | 45°      | 634.0188.1 | 634.0189.1 | 634.0190.1 |

\* Module solutions on demand.



### RAB GRIP HE 2, 60°\*

| Torch complete      |          | Part-No.   |            |            |
|---------------------|----------|------------|------------|------------|
| Type                | Geometry | 3 m        | 4 m        | 5 m        |
| RAB GRIP 24 HE 2    | 60°      | 612.0121.1 | 612.0122.1 | 612.0123.1 |
| RAB GRIP 36 HE 2    | 60°      | 614.0222.1 | 614.0223.1 | 614.0224.1 |
| RAB GRIP 501 D HE 2 | 60°      | 634.0191.1 | 634.0192.1 | 634.0193.1 |

\* Module solutions on demand.

## RAB GRIP HE 2 specific wear parts



| Type                      | Suction nozzle type 24 HE 2 | Suction nozzle type 36/501 HE 2 |
|---------------------------|-----------------------------|---------------------------------|
| RAB GRIP 24 HE 2 (45°)    | 612.0100.1                  | -                               |
| RAB GRIP 24 HE 2 (60°)    | 612.0100.1                  | -                               |
| RAB GRIP 36 HE 2 (45°)    | -                           | 612.0117.1                      |
| RAB GRIP 36 HE 2 (60°)    | -                           | 612.0117.1                      |
| RAB GRIP 501 D HE 2 (45°) | -                           | 612.0117.1                      |
| RAB GRIP 501 D HE 2 (60°) | -                           | 612.0117.1                      |

Retrofit set leather (1.5 m) on request.

| Type                      | Swan neck  | Outer neck | Gas nozzle |
|---------------------------|------------|------------|------------|
| RAB GRIP 24 HE 2 (45°)    | 612.0088.1 | 612.0101.1 | -          |
| RAB GRIP 24 HE 2 (60°)    | 612.0094.1 | 612.0116.1 | -          |
| RAB GRIP 36 HE 2 (45°)    | 614.0170.1 | 612.0101.1 | 145.0518   |
| RAB GRIP 36 HE 2 (60°)    | 614.0164.1 | 612.0116.1 | 145.0518   |
| RAB GRIP 501 D HE 2 (45°) | 634.0165.1 | 612.0101.1 | -          |
| RAB GRIP 501 D HE 2 (60°) | 634.0159.1 | 612.0116.1 | -          |

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

## Technical data

| Type                | Cooling | Rating          |               | Duty cycle (%) | Wire size (mm) |
|---------------------|---------|-----------------|---------------|----------------|----------------|
|                     |         | CO <sub>2</sub> | Mixed gas M21 |                |                |
| RAB GRIP 24 HE 2    | air     | 250 A           | 220 A         | 60             | 0.8-1.2        |
| RAB GRIP 36 HE 2    | air     | 300 A           | 270 A         | 60             | 0.8-1.2        |
| RAB GRIP 501 D HE 2 | liquid  | 500 A           | 450 A         | 100            | 1.0-1.6        |

### Note for liquid cooled torches:

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



RAB GRIP 24 HE 2



RAB GRIP 36 HE 2



RAB GRIP 501 D HE 2



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

## I. Cable assemblies air cooled

| Type                  | Bikox <sup>®</sup> | Cable assembly length |            |            |          |
|-----------------------|--------------------|-----------------------|------------|------------|----------|
|                       |                    | 3 m                   | 4 m        | 5 m        | 8 m      |
| MB EVO PRO 15         | R18 / LW           | 160.H025.1            | 160.H026.1 | 160.H027.1 | -        |
| MB EVO PRO 24         | R37 / LW           | 160.1330.1            | 160.1331.1 | 160.1332.1 | -        |
| MB EVO PRO 25         | R28 / LW           | 160.H032.1            | 160.H033.1 | 160.H034.1 | -        |
| MB EVO PRO 26         | R42 / LW           | 160.H039.1            | 160.H040.1 | 160.H041.1 | -        |
| MB EVO PRO 36         | R53 / LW           | 160.H046.1            | 160.H047.1 | 160.H048.1 | -        |
| MB EVO 15             | R10                | 160.1291.1            | 160.1292.1 | 160.1293.1 | -        |
| MB EVO 24             | R25                | 160.D427              | 160.D428   | 160.D429   | -        |
| MB EVO 25             | R20                | 160.1294.1            | 160.1295.1 | 160.1296.1 | -        |
| MB EVO 26             | R30                | 160.1305.1            | 160.1306.1 | 160.1307.1 | -        |
| MB EVO 36             | R30                | 160.1308.1            | 160.1309.1 | 160.1310.1 | -        |
| MB GRIP 15 AK         | R4 / Typ 16        | 160.D520              | 160.D521   | 160.D522   | -        |
| MB GRIP 24 KD / 26 KD | R6 / Typ 35        | 160.D430              | 160.D431   | 160.D432   | -        |
| MB GRIP 25 AK         | R5 / Typ 25        | 160.D427              | 160.D428   | 160.D429   | -        |
| MB GRIP 36 KD         | R7 / Typ 50        | 160.D434              | 160.D435   | 160.D436   | -        |
| RAB GRIP 15           | R4 / LW            | 160.H025.1            | 160.H026.1 | 160.H027.1 | -        |
| RAB GRIP 25           | R28 / LW           | 160.H032.1            | 160.H033.1 | 160.H034.1 | -        |
| RAB GRIP 24 / HE 2    | R28 / LW           | 160.H032.1            | 160.H033.1 | 160.H034.1 | -        |
| RAB GRIP 36 / HE 2    | R53 / LW           | 160.H046.1            | 160.H047.1 | 160.H048.1 | -        |
| Push-Pull Plus 36 D   | Type 35            | -                     | -          | -          | 118.0074 |

## II. Cable assemblies liquid cooled

| Type                           | Description           | Cable assembly length |            |            |          | per m    |
|--------------------------------|-----------------------|-----------------------|------------|------------|----------|----------|
|                                |                       | 3 m                   | 4 m        | 5 m        | 8 m      |          |
| MB EVO PRO 240 / 401 / 501     | Power cable FRH       | 115.0830.1            | 115.0831.1 | 115.0832.1 | -        | -        |
| MB EVO 240 / 401 / 501         | Power cable PVC       | 115.0833.1            | 115.0834.1 | 115.0835.1 | -        | -        |
| MB GRIP 240 / 401 / 501        | Power cable FRH       | 115.0065              | 115.0070   | 115.0074   | -        | -        |
| ABIMIG <sup>®</sup> GRIP W 555 | Power cable PVC       | 115.0581              | 115.0582   | 115.0583   | -        | -        |
| RAB GRIP 240 / 501             | Power cable PVC       | 115.0581              | 115.0582   | 115.0583   | -        | -        |
| RAB GRIP 501 D HE 2            | Power cable PVC       | 115.0833.1            | 115.0834.1 | 115.0835.1 | -        | -        |
| Push-Pull Plus 401             | Power cable PVC       | -                     | -          | -          | 115.0043 | -        |
| MB EVO PRO 240 / 401 / 501     | Wire conduit/gas hose | 154.0017.1            | 154.0018.1 | 154.0019.1 | -        | -        |
| MB EVO 240 / 401 / 501         | Wire conduit/gas hose | 154.0017.1            | 154.0018.1 | 154.0019.1 | -        | -        |
| MB GRIP 240 / 401 / 501        | Wire conduit          | 156.0275              | 156.0276   | 156.0277   | -        | -        |
| ABIMIG <sup>®</sup> GRIP W 555 | Wire conduit          | 156.0275              | 156.0276   | 156.0277   | -        | -        |
| RAB GRIP 240 / 501             | Wire conduit          | 156.0019              | 156.0023   | 156.0026   | -        | -        |
| RAB GRIP 501 D HE 2            | Wire conduit/gas hose | 154.0017.1            | 154.0018.1 | 154.0019.1 | -        | -        |
| Push-Pull Plus 401             | Wire conduit          | -                     | -          | -          | 156.0273 | -        |
| MB EVO PRO 240 / 401 / 501     | Water hose black FRH; | -                     | -          | -          | -        | 109.0052 |
| MB GRIP 240 / 401 / 501        | Ø 5.5x1.5             | -                     | -          | -          | -        | -        |
| MB EVO 240 / 401 / 501         | Water hose red PVC;   | -                     | -          | -          | -        | 109.0056 |
| ABIMIG <sup>®</sup> GRIP W 555 | Ø 5.5x1.5             | -                     | -          | -          | -        | -        |
| RAB GRIP 240 / 501             | -                     | -                     | -          | -          | -        | -        |
| RAB GRIP 501 D HE 2            | -                     | -                     | -          | -          | -        | -        |
| Push-Pull Plus 401             | -                     | -                     | -          | -          | -        | -        |
| MB EVO 240 / 401 / 501         | Water hose blue PVC;  | -                     | -          | -          | -        | 109.0057 |
| ABIMIG <sup>®</sup> GRIP W 555 | Ø 5.5x1.5             | -                     | -          | -          | -        | -        |
| RAB GRIP 240 / 501             | -                     | -                     | -          | -          | -        | -        |
| RAB GRIP 501 D HE 2            | -                     | -                     | -          | -          | -        | -        |
| Push-Pull Plus 401             | -                     | -                     | -          | -          | -        | -        |

## II. Cable assemblies liquid cooled

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

## III. Outer and suction hose

| Type  | Description                                 | Cable assembly length |            |            |             |
|---|---|-----------------------|------------|------------|-------------|
|   |   | 3 m                   | 4 m        | 5 m        | per m       |
| MB EVO PRO 240 / 401 / 501                            | Outer hose 25x1.5<br>(with bend protection) | 107.0109.1            | 107.0110.1 | 107.0111.1 | 107.0004    |
| MB EVO 240 / 401 / 501                                | Outer hose 25x1.5<br>(with bend protection) | 107.0109.1            | 107.0110.1 | 107.0111.1 | 107.0004    |
| MB GRIP 240 / 401 / 501 / HE 2                        | Outer hose 25x1.5                           | 107.0079              | 107.0044   | 107.0080   | 107.0004    |
| ABIMIG® GRIP W 555                                    | Outer hose 25x1.5                           | -                     | -          | -          | 107.0004    |
| RAB GRIP 15 / 24 / 25 / 36 / 24 HE 2                  | Outer hose LW 32 R                          | -                     | -          | -          | 109.0043    |
| RAB GRIP 240 / 501 / 24 HE 2 / 36 HE 2 / 501 HE 2     | Outer hose LW 38 R                          | -                     | -          | -          | 109.0044    |
| RAB GRIP 24 / 36 / 501 / 24 HE 2 / 36 HE 2 / 501 HE 2 | Outer hose LW 45 R                          | -                     | -          | -          | 109.0080.30 |
| Push-Pull Plus 36 / 401                               | Outer hose 25x1.5                           | -                     | -          | -          | 107.0004    |

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

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

## V. Combined wire guides

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

## VI. Liner for special wire

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

## VII. BPL liner

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

# Handles and control modules

## Handle MB EVO PRO without modules



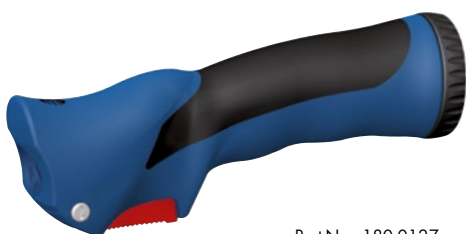
| Type                                   | Description   | Part-No.   |
|--|---|------------|
| Handle type MB EVO PRO air cooled      | for MB EVO PRO 15 / 24 / 25 / 26 / 36                 | 180.0176.1 |
| Handle type MB EVO PRO liquid cooled   | for MB EVO PRO 240 / 401 / 501                     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

## Handle MB EVO without modules



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

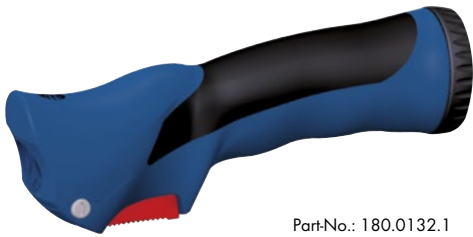
## Handle MB GRIP without modules



Part-No.: 180.0127

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

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

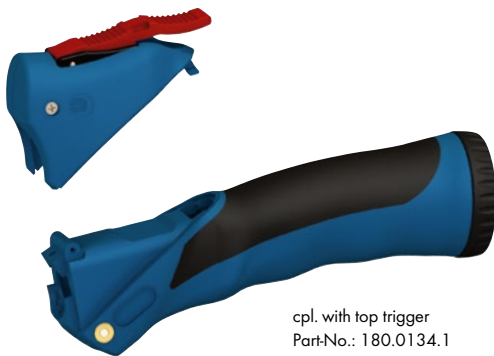


**Adapter**

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

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

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



**Adapter**

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

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

# Handles and control modules

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



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



### Adapter

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



BIS-01L



BIS-01R



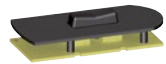
BIS-02



BIS-06



BIS-07B



BIS-10A



BIS-10B



BIS-10D



BIS-13A



BIS-18

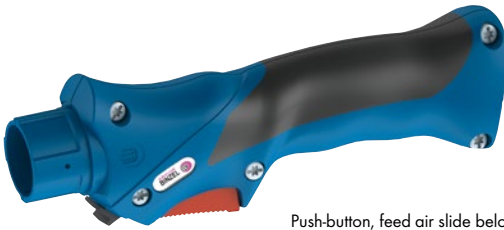


BIS-19

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



### Handles RAB GRIP without modules



Push-button, feed air slide below

| Type                        | Description   | Part-No.   |
|-----------------------------|---|------------|
| Handle feed air slide below | for RAB GRIP 15 / 24 / 24 HE 2 / 25 / 36 / 36 HE 2 / 240 / 501 / 501 HE 2 | 180.0138.1 |
| Connector                   | for RAB GRIP 15 / 24 / 25 / 36  | 600.2008   |
| Connector                   | for RAB GRIP 24 HE 2  | 600.2017   |
| Connector                   | for RAB GRIP 240 / 501 / 36 HE 2 / 501 HE 2                               | 600.0080   |

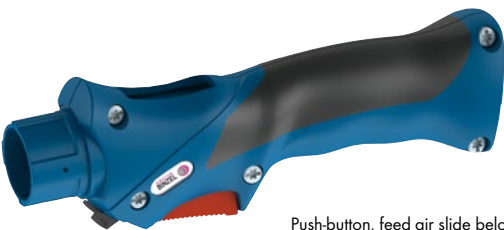
### Handles RAB GRIP without modules



Push-button, feed air slide on top

| Type                         | Description   | Part-No.   |
|------------------------------|---|------------|
| Handle feed air slide on top | for RAB GRIP 15 / 24 / 24 HE 2 / 25 / 36 / 36 HE 2 / 240 / 501 / 501 HE 2 | 180.0144.1 |
| Connector                    | for RAB GRIP 15 / 24 / 25 / 36  | 600.2008   |
| Connector                    | for RAB GRIP 24 HE 2  | 600.2017   |
| Connector                    | for RAB GRIP 240 / 501 / 36 HE 2 / 501 HE 2                               | 600.0080   |

### Handle RAB GRIP for modules



Push-button, feed air slide below



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



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

| Type   | Description   | Part-No.   |
|--|---|------------|
| Handle feed air slide below (without module) | for RAB GRIP 15 / 24 / 24 HE 2 / 25 / 36 / 36 HE 2 / 240 / 501 / 501 HE 2 | 180.0154.1 |
| Connector                                    | for RAB GRIP 15 / 24 / 25 / 36  | 600.2008   |
| Connector                                    | for RAB GRIP 24 HE 2  | 600.2017   |
| Connector                                    | for RAB GRIP 240 / 501 / 36 HE 2 / 501 HE 2                               | 600.0080   |
| BIS-51                                       | Module push-button  | 400.1296.1 |
| BIS-52                                       | Module Up/Down 2x push-button   | 400.1292.1 |







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

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

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

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



Super lightweight torches with turnable and changeable torch neck

### ABIMIG® A T 155 LW

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

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

### ABIMIG® A T 255 LW

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

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

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

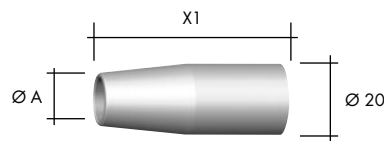
**Definition:** T = turnable/exchangeable torch neck, LW = lightweight cable assembly

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

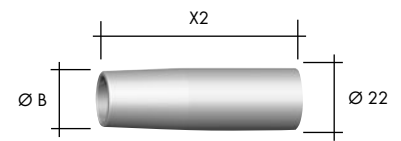
# ABIMIG® A T 155 LW, ABIMIG® A T 255 LW

## Wear parts

### ABIMIG® A T 155 LW

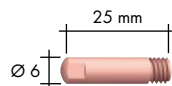


### ABIMIG® A T 255 LW



#### Gas nozzle (5 pcs.)

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



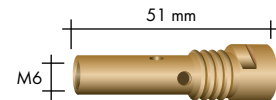
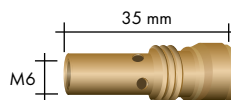
#### M6



#### M6

#### Contact tip (10 pcs.)

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



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

|  |                         |                         |
|--|-------------------------|-------------------------|
|  | 006.D719.5 <sup>1</sup> | 004.D624.5 <sup>2</sup> |
|--|-------------------------|-------------------------|

#### Adapter piece (5 pcs.)

|  |                         |                         |
|--|-------------------------|-------------------------|
|  | 767.D607.5 <sup>1</sup> | 767.D637.5 <sup>2</sup> |
|--|-------------------------|-------------------------|

#### Torch neck liner for T-torches

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

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

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

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



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

## Air cooled • rating 260 A up to 400 A

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



### ABIMIG® A T 305 LW

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

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

### ABIMIG® A T 355 LW

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

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

### ABIMIG® A T 405 LW\*

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

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

Super lightweight torches  
with turnable and  
changeable torch neck

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

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

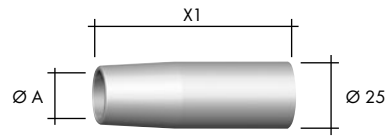
**Attention:** The specified variants correspond to the „BASIC“ version. Further versions (COMBI, VARIO, FREE STYLE) on request.

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

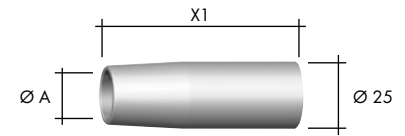
# ABIMIG® A T 305 LW, ABIMIG® A T 355 LW, ABIMIG® A T 405 LW

## Wear parts

### ABIMIG® A T 305 / 355 LW

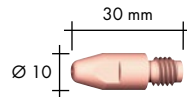


### ABIMIG® A T 405 LW

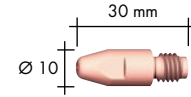


## Gas nozzle (5 pcs.)

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



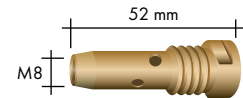
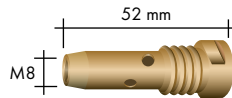
**M8**



**M8**

## Contact tip (10 pcs.)

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



## Contact tip holder (5 pcs.)

|    |                           |                         |
|----|---------------------------|-------------------------|
| M8 | 014.D745.5 <sup>1,2</sup> | 014.D745.5 <sup>3</sup> |
|----|---------------------------|-------------------------|

## Adapter piece (5 pcs.)

|  |                           |                         |
|--|---------------------------|-------------------------|
|  | 767.D668.5 <sup>1,2</sup> | 015.D080.5 <sup>3</sup> |
|--|---------------------------|-------------------------|

## Torch neck liner for T-torches

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



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



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

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

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

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

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

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

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

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



### ABIMIG® A 155 LW

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

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

### ABIMIG® A 255 LW

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

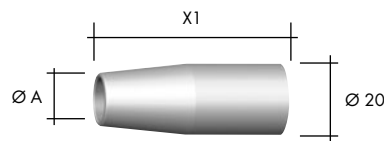
|             |  |
|-------------|--|
| Rating:     | 230 A CO <sub>2</sub><br>220 A mixed gas M21<br>(DIN EN ISO 14175) |
| Duty cycle: | 60%  |
| Wire size:  | 0.8–1.2 mm   |

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

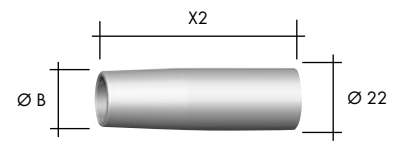
# ABIMIG® A 155 LW, ABIMIG® A 255 LW

## Wear parts

### ABIMIG® A 155 LW

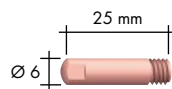


### ABIMIG® A 255 LW

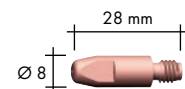


## Gas nozzle (5 pcs.)

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



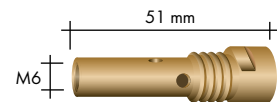
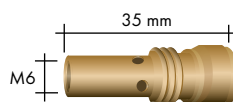
### M6



### M6

## Contact tip (10 pcs.)

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



## Contact tip holder (5 pcs.)

|  |                         |                         |
|--|-------------------------|-------------------------|
|  | 006.D719.5 <sup>1</sup> | 004.D624.5 <sup>2</sup> |
|--|-------------------------|-------------------------|

## Adapter piece (5 pcs.)

|  |                         |                         |
|--|-------------------------|-------------------------|
|  | 767.0107.5 <sup>1</sup> | 767.D637.5 <sup>2</sup> |
|--|-------------------------|-------------------------|



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

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

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

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

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

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

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

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



### ABIMIG® A 305 LW

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

Rating: 280 A CO<sub>2</sub>  
260 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 0.8–1.2 mm

### ABIMIG® A 355 LW

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

Rating: 330 A CO<sub>2</sub>  
310 A mixed gas M21  
(DIN EN ISO 14175)

Duty cycle: 60%

Wire size: 1.0–1.6 mm

### ABIMIG® A 405 LW

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

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

Duty cycle: 60%

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

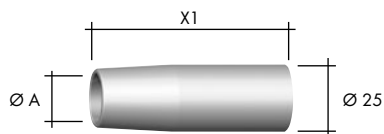
| Torch complete<br>Type | Handle            | Part-No.   |            |            | Swan neck |            |
|------------------------|-------------------|------------|------------|------------|-----------|------------|
|                        |                   | 3 m        | 4 m        | 5 m  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



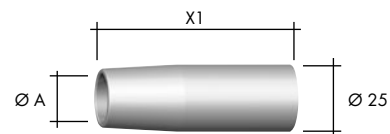
# ABIMIG® A 305 LW, ABIMIG® A 355 LW, ABIMIG® A 405 LW

## Wear parts

### ABIMIG® A 305 / 355 LW

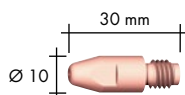


### ABIMIG® A 405 LW

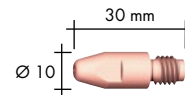


## Gas nozzle (5 pcs.)

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



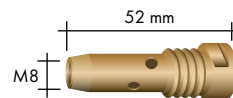
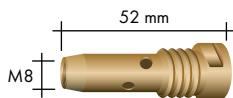
## M8



## M8

## Contact tip (10 pcs.)

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



## Contact tip holder (5 pcs.)

|    |                           |                         |
|----|---------------------------|-------------------------|
| M8 | 014.D745.5 <sup>1,2</sup> | 014.D745.5 <sup>3</sup> |
|----|---------------------------|-------------------------|

## Adapter piece (5 pcs.)



|  |                           |                         |
|--|---------------------------|-------------------------|
|  | 767.D668.5 <sup>1,2</sup> | 015.D080.5 <sup>3</sup> |
|--|---------------------------|-------------------------|



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

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

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

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

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

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

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

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

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

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



### ABIMIG® W T 340

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

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

### ABIMIG® W T 440

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

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

### ABIMIG® W T 540

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

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

#### Note for liquid cooled torches:

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

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

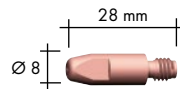
# ABIMIG® W T 340, ABIMIG® W T 440, ABIMIG® W T 540

## Wear parts

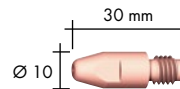


## Gas nozzle incl. spatter protection<sup>1</sup> (5 pcs.)

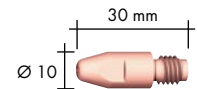
|             | Ø 17   | 145.0740.5              | Ø 18   | 145.0745.5              | Ø 20 | 145.0742.5              |
|-------------|--------|-------------------------|--------|-------------------------|------|-------------------------|
| Cylindrical | Ø 12.5 | 145.0737.5 <sup>2</sup> | Ø 14.5 | 145.D092.5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



**M6**



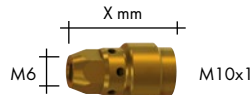
**M8**



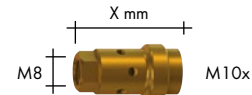
**M8**

## Contact tip (10 pcs.)

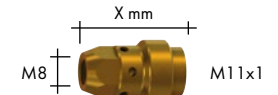
|             | Ø 0.8 | 140.0051 | Ø 1.0 | 140.0114 | Ø 1.2 | 140.0313 | Ø 1.6 | 140.0379              | 140.0442              | 140.0442              | 140.0587 |
|-------------|-------|----------|-------|----------|-------|----------|-------|-----------------------|-----------------------|-----------------------|----------|
| E-Cu        | Ø 0.8 | 141.0001 | Ø 1.0 | 141.0003 | Ø 1.2 | 141.0008 | Ø 1.6 | -                     | 141.0015              | 141.0015              | 141.0022 |
| E-Cu for Al | Ø 0.8 | 140.0054 | Ø 1.0 | 140.0117 | Ø 1.2 | 140.0316 | Ø 1.6 | 140.0245 <sup>2</sup> | 140.0445 <sup>3</sup> | 140.0445 <sup>4</sup> | 140.0590 |
| CuCrZr      | Ø 0.8 | -        | Ø 1.0 | -        | Ø 1.2 | -        | Ø 1.6 | -                     | -                     | -                     | -        |



**X**



**X**



**X**

## Contact tip holder (5 pcs.)

|        | 24.0 | 142.0241.5              | 26.0 | 142.0252.5              | 25.0 | 142.0239.5              |
|--------|------|-------------------------|------|-------------------------|------|-------------------------|
| Brass  | 26.0 | 142.0242.5 <sup>2</sup> | 28.0 | 142.0253.5 <sup>3</sup> | 27.0 | 142.0240.5              |
|        | -    | -                       | 31.0 | 142.0243.5              | 28.5 | 142.0284.5 <sup>4</sup> |
| CuCrZr | 26.0 | 142.0274.5              | 29.5 | 142.0262.5              | 25.0 | 142.0247.5              |
|        | -    | -                       | -    | -                       | 27.0 | 142.0248.5              |
|        | -    | -                       | -    | -                       | 28.5 | 142.0261.5              |

## Torch neck spiral

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

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

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

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

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

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

# MIG/MAG welding torches "ABIMIG® W"

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

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

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



### ABIMIG® W 340

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

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

Duty cycle: 100%

Wire size: 0.8-1.2 mm

### ABIMIG® W 440

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

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

Duty cycle: 100%

Wire size: 0.8-1.6 mm

### ABIMIG® W 540

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

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

Duty cycle: 100%

Wire size: 1.0-1.6 mm

#### Note for liquid cooled torches:

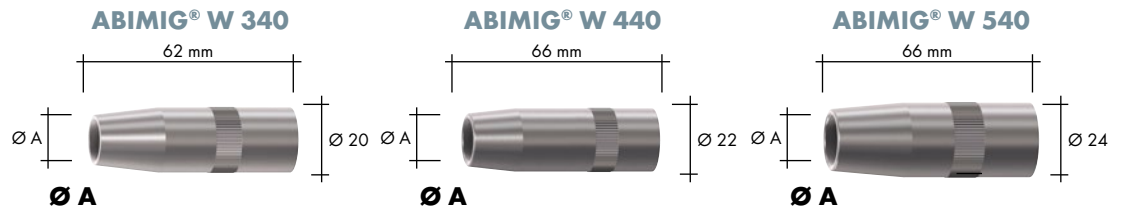
To protect cable assembly components from excessive heat build up we recommend a post welding cooling cycle of at least four minutes.

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

Up/Down module on request.

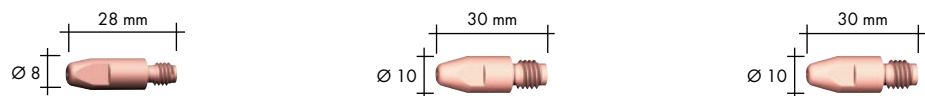
# ABIMIG® W 340, ABIMIG® W 440, ABIMIG® W 540

## Wear parts



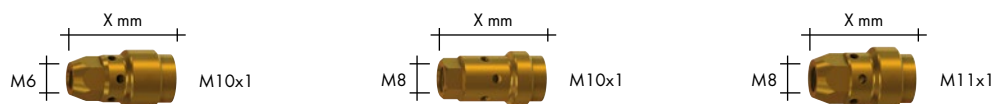
## Gas nozzle incl. spatter protection<sup>1</sup> (5 pcs.)

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



## Contact tip (10 pcs.)

|             |       | M6                    | M8                    | M8                    |
|-------------|-------|-----------------------|-----------------------|-----------------------|
| E-Cu        | Ø 0.8 | 140.0051              | 140.0114              | -                     |
|             | Ø 1.0 | 140.0242              | 140.0313              | 140.0313              |
|             | Ø 1.2 | 140.0379              | 140.0442              | 140.0442              |
|             | Ø 1.6 | -                     | 140.0587              | 140.0587              |
| E-Cu for Al | Ø 0.8 | 141.0001              | 141.0003              | -                     |
|             | Ø 1.0 | 141.0006              | 141.0008              | 141.0008              |
|             | Ø 1.2 | 141.0010              | 141.0015              | 141.0015              |
|             | Ø 1.6 | -                     | 141.0022              | 141.0022              |
| CuCrZr      | Ø 0.8 | 140.0054              | 140.0117              | -                     |
|             | Ø 1.0 | 140.0245 <sup>2</sup> | 140.0316              | 140.0316              |
|             | Ø 1.2 | 140.0382              | 140.0445 <sup>3</sup> | 140.0445 <sup>4</sup> |
|             | Ø 1.6 | -                     | 140.0590              | 140.0590              |



## Contact tip holder (5 pcs.)

|        | X    | X                       | X    |                         |      |                         |
|--------|------|-------------------------|------|-------------------------|------|-------------------------|
| Brass  | 24.0 | 142.0241.5              | 26.0 | 142.0252.5              | 25.0 | 142.0239.5              |
|        | 26.0 | 142.0242.5 <sup>2</sup> | 28.0 | 142.0253.5 <sup>3</sup> | 27.0 | 142.0240.5              |
|        | -    | -                       | 31.0 | 142.0243.5              | 28.5 | 142.0284.5 <sup>4</sup> |
|        | -    | -                       | -    | -                       | -    | -                       |
| CuCrZr | 26.0 | 142.0274.5              | 29.5 | 142.0262.5              | 25.0 | 142.0247.5              |
|        | -    | -                       | -    | -                       | 27.0 | 142.0248.5              |
|        | -    | -                       | -    | -                       | 28.5 | 142.0261.5              |

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

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

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

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

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



# MIG/MAG machine welding torches

## Air and liquid cooled

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

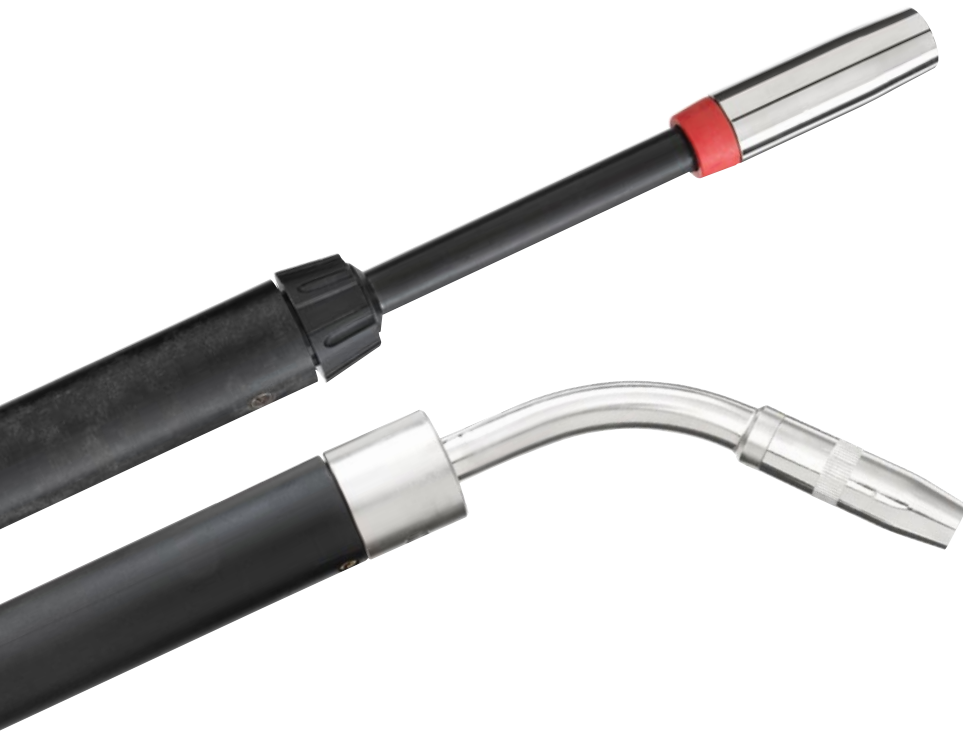
Liquid-cooled ABIMIG® MT W torches with a fixed torch neck and easily reproducible TCP (working point/tool centre point) are suitable for mechanised welding with a long duty cycle, in particular with components without a restriction on accessibility.

### Advantages ABIMIG® MT A T & W T

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

### Advantages ABIMIG® MT W

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

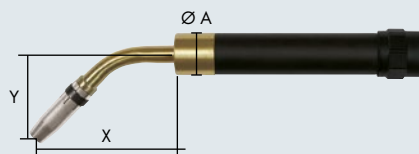


### Order information:

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

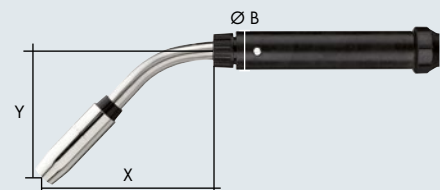
The wear parts – contact tip, gas nozzle, gas diffuser, contact tip holder, neck liner or liner – are identical with those of the manual welding torches of same size (ABIMIG® 455 on request).

#### Fixed swan neck

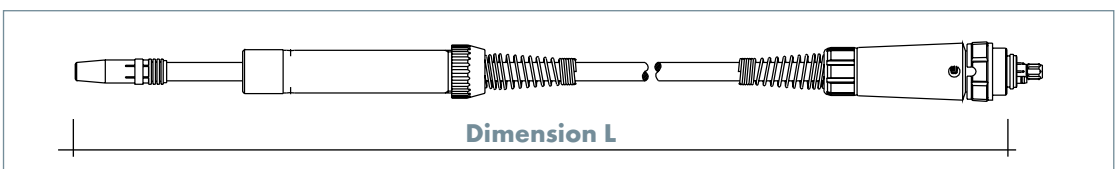


|     |                        |       |
|-----|------------------------|-------|
| Ø A | air cooled torches:    | 38 mm |
|     | liquid cooled torches: | 38 mm |

#### Changeable swan neck



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



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

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

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

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

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

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

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

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

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

| Type             | Length | Geo-<br>metry | X<br>(mm) | Y<br>(mm) | Duty<br>cycle | Rating<br>CO <sub>2</sub> / M21 | Gas nozz-<br>le | Wire<br>size | Part-No.   |
|------------------|--------|---------------|-----------|-----------|---------------|---------------------------------|-----------------|--------------|------------|
| ABIMIG® MT W 340 | 2.0 m  | 50°           | 135       | 85        | 100%          | 400 A 350 A                     | ND 12.5         | 1.0 mm       | 766.1641.1 |
| ABIMIG® MT W 440 | 2.0 m  | 50°           | 140       | 85        | 100%          | 500 A 450 A                     | ND 14.5         | 1.2 mm       | 766.1642.1 |
| ABIMIG® MT W 540 | 2.0 m  | 50°           | 155       | 90        | 100%          | 600 A 550 A                     | ND 16.0         | 1.2 mm       | 766.1643.1 |

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

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

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

## I. Cable assemblies air cooled

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

## II. Cable assemblies liquid cooled

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

## III. Outer and suction hose

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

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

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

## V. Combined wire guides

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

## VI. PA liner

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

## VII. BPL liner

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

# Handles and modules

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



Push-button long, blind cover



Push-button short, blind cover

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

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



Push-button long, Up/Down



Push-button short, Up/Down

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



### Handles ABIMIG® A / W without modules



Push-button long, blind cover



Push-button short, blind cover

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

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



Push-button long, Up/Down



Push-button short, Up/Down

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

# Fume extraction system

## FES-200 and FES-200 W3

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

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

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



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

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

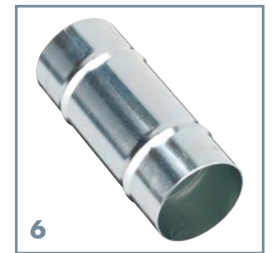
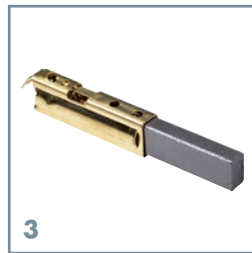
## Complete extraction unit



## Extraction unit package includes:

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

## Replacement parts and accessories



| Pos.     | Description                                  | Part-No.    |
|----------|--|-------------|
| 1        | Complete unit FES-200 (230 V)                | 601.0001.1  |
|          | Complete unit FES-200 (115 V)                | 601.0002.1  |
| 2        | Complete unit FES-200 W3 (230 V)             | 601.0034.1  |
|          | Complete unit FES-200 W3 (115 V)             | 601.0035.1  |
| 3        | Carbon brush (230 V)                         | 601.0005.1  |
|          | Carbon brush (115 V)                         | 601.0017.1  |
| 4        | Filter cartridge FES-200                     | 601.0008.1  |
|          | Filter cartridge FES-200, carbonized         | 601.0056.1  |
|          | Filter cartridge FES-200 W3                  | 601.0048.1  |
|          | Filter cartridge FES-200 W3, carbonized      | 601.0053.1  |
| 5        | Hose with sleeve, L = 5.00 m                 | 601.0015.1  |
| not ill. | Rubber connector                             | 601.0014.1  |
| 6        | Adapter ring (connection for two hoses)      | 601.0046.1  |
| 7        | Start/stop shunt, 4-pole                     | 601.0041.1  |
| 8        | Dust collection bag (w/o pan)                | 601.0021.10 |
| 9        | Exhaust casting FES-200 (optional)           | 601.0023.1  |
| 10       | Adapter ring FES-200 / RAB Plus (50 / 44 mm) | 601.0031.1  |
| 11       | Suction funnel flexible with stand           | 601.0016.1  |

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

# Fume extraction system

## FEC

As a mobile extractor the FEC is considerably more flexible and efficient than stationary, central or hall extractors. It extracts fumes that are created during welding with a high vacuum of 19,000 Pa, a market-leading suction output. Thanks to its low weight, stable base, secure stand, and the robust rollers with solid rubber tyres, the FEC is particularly suitable for everyday industrial use.

The mobile fume extraction system FEC combines the highest suction output and intelligent energy-efficient functions with simple handling and also offers numerous advantages over standard suction devices:

- Cyclone technology for particle pre-separation to protect the filter surface – reduced cleaning intervals
- Integrated filter cleaning concept – permanent filter can be cleaned easily and quickly
- Contamination-free waste disposal of the welding dust by encapsulated de-dusting system and bag
- With 25 kg and smooth-running full-cushion wheels perfect for variable application sites
- Robust & quiet due to thick-walled plastic case
- Integrated automatic start-stop system reduces operation expenses and wear
- Optional with start-stop-measuring caliper



The FEC works with the highly efficient cyclone technology and separates particles upstream from the filter. Therefore, requires less cleaning.

The ideal supplements for the FEC extraction system are the new RAB GRIP HE 2 fume extraction torches from ABICOR BINZEL. Together, these perfectly coordinated systems set new standards in extraction.

**Complete extraction unit**



**Replacement parts and accessories**



| Pos.     | Description                                  | Part-No.    |
|----------|--|-------------|
| 1        | Complete unit FEC (230 V)                    | 601.0071.1  |
|          | Complete unit FEC (115 V)                    | 601.0072.1  |
| 2        | Complete unit FEC W3 (230 V)                 | 601.0073.1  |
|          | Complete unit FEC W3 (115 V)                 | 601.0074.1  |
| 3        | Carbon brushes 230 V                         | 601.0005.1  |
| 4        | Carbon brushes 115 V                         | 601.0063.1  |
| 5        | Main filter cartridge                        | 601.0075.1  |
| 6        | Main filter cartridge H13 / carbonated poly. | 601.0076.1  |
| 7        | Exhaust air filter                           | 601.0077.1  |
| 8        | Suction hose with sleeves, L = 5.00 m        | 601.0015.1  |
| not ill. | Rubber connector                             | 601.0014.1  |
| 9        | Connector for suction hose                   | 601.0046.1  |
| 10       | Adapter ring RAB Plus (50 / 44 mm)           | 601.0031.1  |
| 11       | Flexible funnel nozzle, magnetic with base   | 601.0016.1  |
| 12       | Start-stop-measuring caliper, 4-pole         | 601.0041.1  |
| not ill. | Dust collection bag                          | 601.0021.10 |
| not ill. | Filter mat (bottom of device), PU=2          | 601.0107.1  |



## Our product range:

### ■ MIG/MAG

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

### ■ TIG

- Welding torches
- Machine and special torches

### ■ PLASMA

- Cutting torches
- Welding torches
- Machine and special torches

### ■ Robotic peripheral equipment

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

### ■ Welding accessories

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



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