



In the service of Welding Technology.

Innovations non-stop. Since the 1970s.

A welder who wants to perform extraordinary work, also needs extraordinary tools. Like the gentleman, to whom our welder reminds. Film after film he was able to use surprising technology. Admittedly we cannot quite keep up with that. However regarding welding torches we are close to it. And with the new generations of ABICOR BINZEL products every welder can be sure to have the best tools world-wide in hand.



MIG/MAG welding torches "MB GRIP"

Innovations non-stop...

... since 1973

Today, practice places new demands on liquid-cooled MIG/MAG welding torches, as higher welding speeds and increased performance are required. ABICOR BINZEL has accepted these new challenges and revised fundamentally the reliable liquid-cooled MB GRIP torch range.

The task for the engineers and technicians included: greater cooling capacity for significantly cooler wearing parts, increasing the emergency operating features, as well as optimised welding torch balance and ergonomics.

With constructive changes and new material combinations, the temperatures of the wearing parts (contact tip, contact tip holder, gas nozzle etc.)

have been reduced by more than 100 °C. In practice, this means a "smoother and lower failure" arc, which significantly improves lifetimes, particularly in the case of work in the higher power range. Furthermore, many "small" but important details were included in the development process, such as additional, flexible sealing elements, which considerably improve the "emergency operating features" in the case of short-term overheating, and additional sheathing to protect the external cooling hoses from damage as a result of external influences.

As such, e. g. on the new MB GRIP torch range, the torch balance and therefore the working ergonomics have been noticeably improved with „shorter and softer“ ball joint on the 2-k handle.

Innovation details

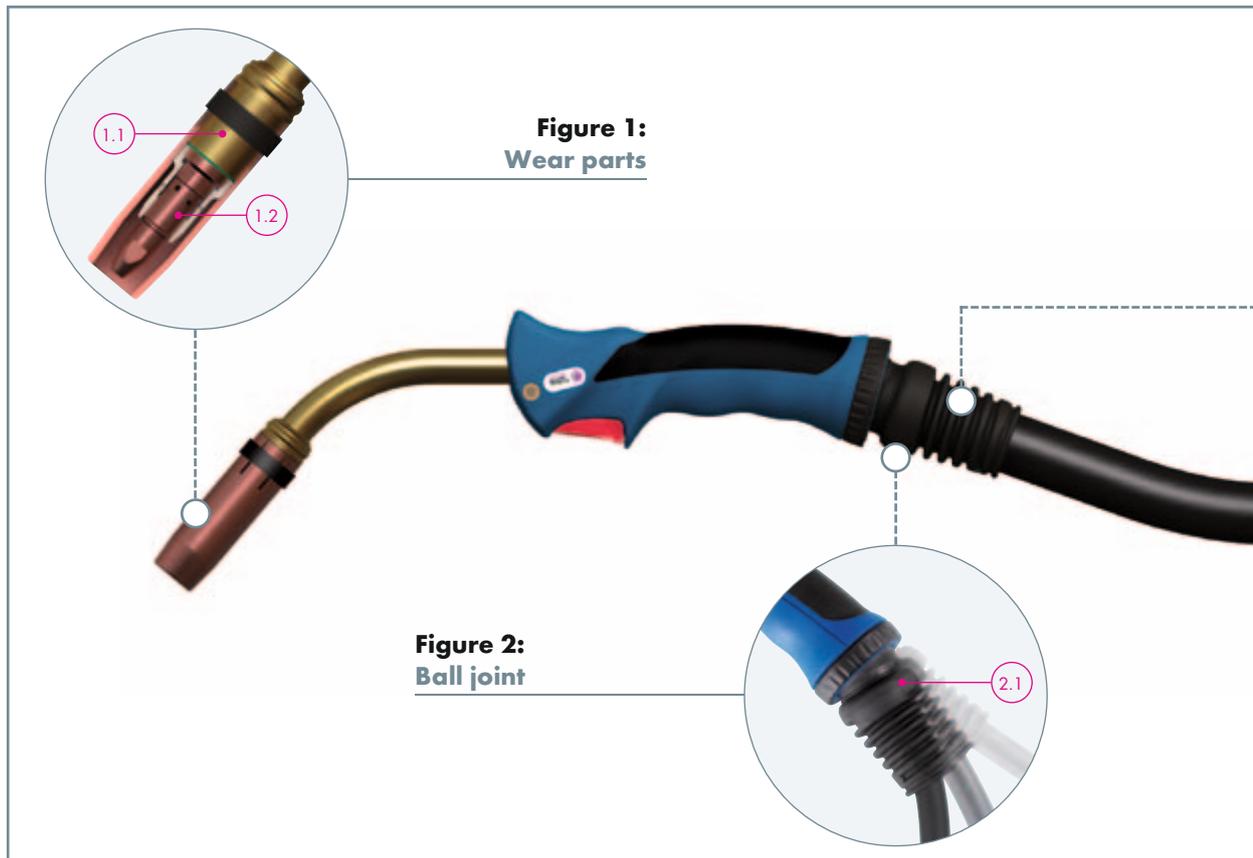


Figure 1:
Wear parts

Figure 2:
Ball joint

Figure 1:
Wear parts

- 1.1 **Precision fitting of the insulating ceramic**
 - optimized temperature transfer
 - increased stability
- 1.2 **Contact tip holder** in new material combination
 - improved removal of heat
 - longer lifetime

Part-No.: 142.0201.10

Figure 2:
Ball joint

- 2.1 **Short, soft cable support**
 - optimal handle balance
 - improved working ergonomics

Part-No.: 400.1395.1 (MB GRIP air cooled)
Part-No.: 400.1392.1 (MB GRIP liquid cooled)

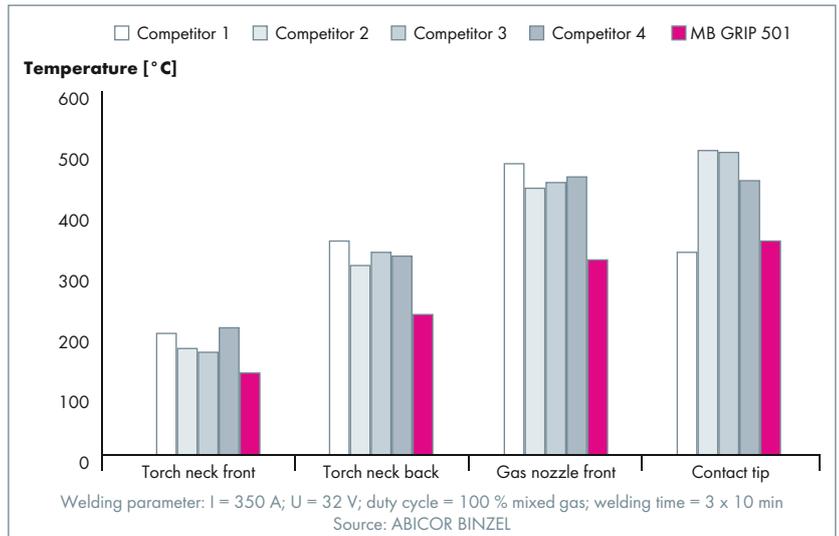
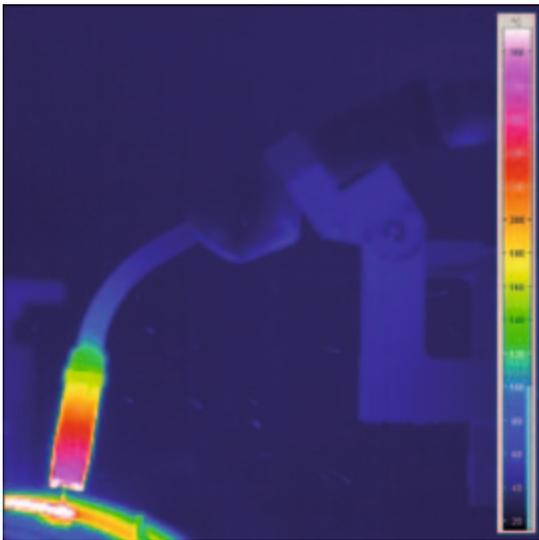
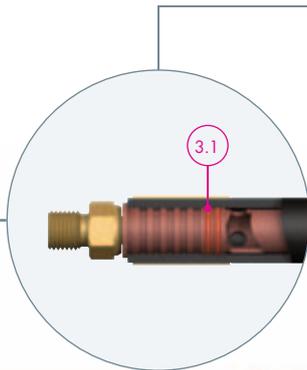


Figure 3:
Torch side connection



Due to the optimization of all relevant cable assembly components as well as increased cross sections, the cooling liquid flow rates have been enhanced by 20%
– cooler wear parts
– longer lifetime

Figure 4:
Machine side connection

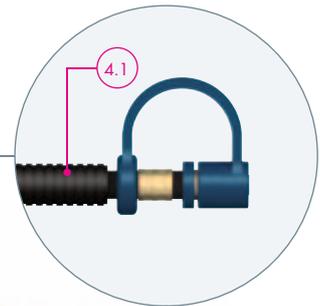


Figure 5:
Machine side connection

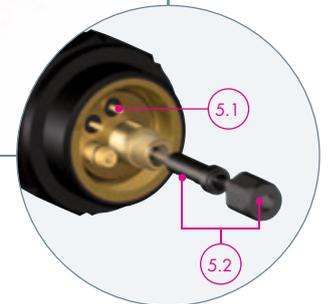


Figure 3:
Torch side connection

- 3.1 Additional sealing elements**
– Increase of the emergency operating characteristics

Figure 4 and 5:
Machine side connection

- 4.1 Cover hose**
– protects against environmental effects like spatter
Part-No.: 110.0053.10 (cover hose set)
- 5.1 Form optimized spring pin**
– for improved contact security
- 5.2 Isolated wire feeding**
– increased process security

MIG/MAG welding torches "MB GRIP"

air and liquid cooled

MIG/MAG welding torches MB GRIP



Technical data

Type	Cooling	Rating		Duty cycle (%)	Wire-Ø (mm)
		CO ₂	Mixed gas M21		
MB GRIP 15 AK	air	180 A	150 A	60	0.6-1.0 mm
MB GRIP 24 KD	air	250 A	220 A	60	0.8-1.2 mm
MB GRIP 25 AK	air	230 A	200 A	60	0.8-1.2 mm
MB GRIP 26 KD	air	270 A	240 A	60	0.8-1.2 mm
MB GRIP 36 KD	air	320 A	290 A	60	0.8-1.2 mm
MB GRIP 240 D	liquid	300 A	270 A	100	0.8-1.2 mm
MB GRIP 401	liquid	450 A	400 A	100	0.8-1.2 mm
MB GRIP 401 D	liquid	400 A	350 A	100	0.8-1.2 mm
MB GRIP 501	liquid	550 A	500 A	100	1.0-1.6 mm
MB GRIP 501 D	liquid	500 A	450 A	100	1.0-1.6 mm

***Hint for liquid cooled torches:**

To protect the cable assembly components against overheating, we recommend an over-running time of at least 4 minutes.

Part numbers complete torches

Type	Part-No.		
	3 m	4 m	5 m
MB GRIP 15 AK; central plug KZ-2	002.0604	002.0605	002.0606
MB GRIP 24 KD; central plug KZ-2	012.0251	012.0252	012.0253
MB GRIP 25 AK; central plug KZ-2	004.0510	004.0511	004.0512
MB GRIP 26 KD; central plug KZ-2	018.0146	018.0147	018.0148
MB GRIP 36 KD; central plug KZ-2	014.0334	014.0335	014.0336
MB GRIP 240 D; central plug WZ-2, High-Flex	023.0225	023.0226	023.0227
MB GRIP 240 D; central plug WZ-2, PVC	023.0281.1	023.0282.1	023.0283.1
MB GRIP 401; central plug WZ-2, High-Flex	030.0205	030.0206	030.0207
MB GRIP 401; central plug WZ-2, PVC	030.0236.1	030.0237.1	030.0238.1
MB GRIP 401 D; central plug WZ-2, High-Flex	033.0271	033.0272	033.0273
MB GRIP 401 D; central plug WZ-2, PVC	033.0331.1	033.0332.1	033.0333.1
MB GRIP 501; central plug WZ-2, High-Flex	032.0231	032.0232	032.0233
MB GRIP 501; central plug WZ-2, PVC	032.0261.1	032.0262.1	032.0263.1
MB GRIP 501 D; central plug WZ-2, High-Flex	034.0492	034.0493	034.0494
MB GRIP 501 D; central plug WZ-2, PVC	034.0636	034.0637	034.0638



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