TECHNOLOGY FOR THE WELDER'S WORLD.

MB EVO PRO. The standard redefined ...

ABICOR BINZEL®

www.binzel-abicor.com

MIG/MAG welding torches MB EVO PRO. The ultimate torch for handling comfort ...

Easier welding in every position ...

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.

Tough working conditions are to be expected when MIG/MAG welding. Despite their lower weight and sophisticated design, the new MB EVO PRO torch line sets new benchmarks for strength and durability. Featuring newly designed, more robust fittings and improved space inside the handle for ease of servicing. Technology for professionals.

Torch handle
in glove as one.

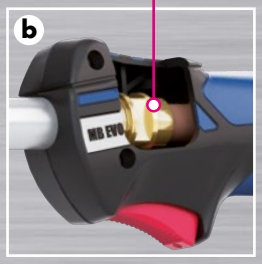
“Just what I need !”

K. Weinberger, production welder at a large industrial enterprise

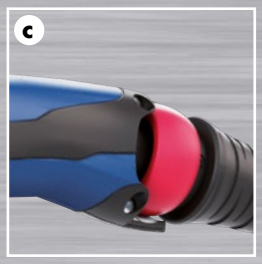
MIG/MAG welding torches MB EVO PRO. Simply the best feeling ...

MB EVO PRO air cooled

"MB" front end in detail.



Optimized internal geometry.



Sophisticated ball joint construction.

The perfect combination of handling and performance ...

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 been shown to have a measurable impact on weld seam quality.

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

Market leading performance ...
Due to a mass reduction up to 34 % (when fitted with a 4 m cable) ABICOR BINZEL sets the benchmark for "performance to torch weight ratio" and overall handling weight.

A scientific study at the Justus-Liebig-University department of sports medicine (Giessen) examined the strain on welder muscles when using the new air cooled MB EVO PRO 36, when compared with the existing already ergonomic torch, type MB GRIP 36. Both welding torches were tested in the welding positions PE and PA.

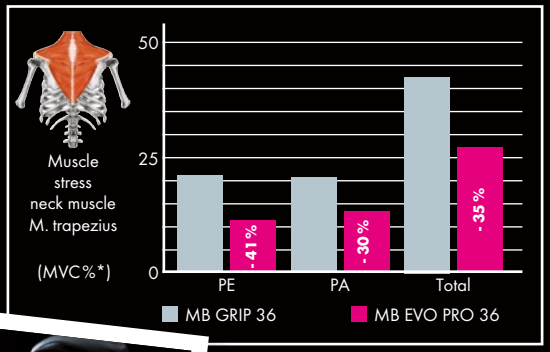
The scientific data show significant relief, especially in the neck muscles. More relaxed welding and a better feeling after work.

MB EVO PRO 36 in welding position PA (horizontal welding of butt and fillet welds).

MB EVO PRO 36 in welding position PE (overhead welding).

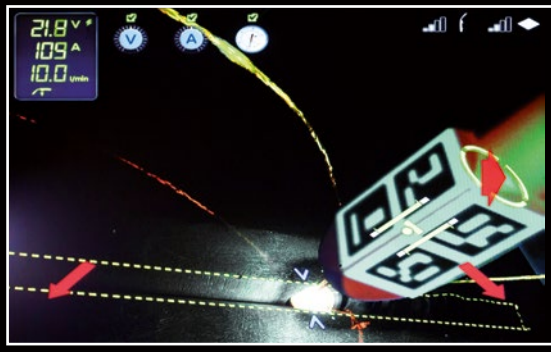
In the study carried out under real working conditions, quality measurements were taken for welding speed, torch angle, arc length, seam appearance etc., these were then recorded in an augmented reality welding simulator. All measured factors have real impact on the quality of the welding seam. Therefore the science proved: reduced muscle strain makes better welding possible.

Reduced muscle strain of up to 35 % ...



* MVC stands for Maximum Voluntary Contraction. It is a measurement of how well a muscle can contract iso-metrically.

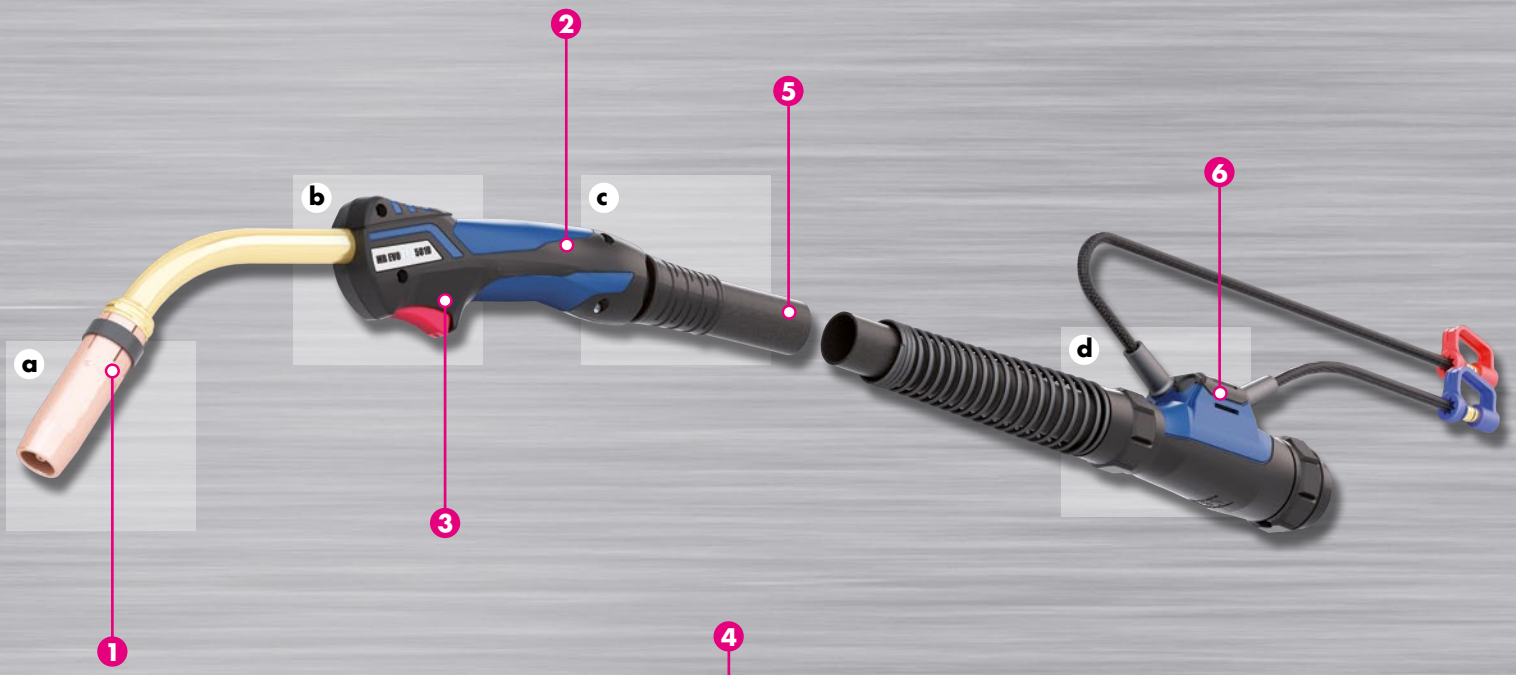
MB EVO PRO torches guarantee better results ...



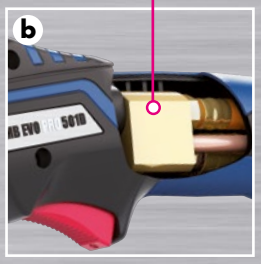
Measured subjective operator fatigue, when using the BORG scale, highlighted an improvement of up to 25 %, when comparing the new weight reduced MB EVO PRO 36 torch with the existing MB GRIP 36, at the same performance level.

MIG/MAG welding torches MB EVO PRO. Simply better welding ...

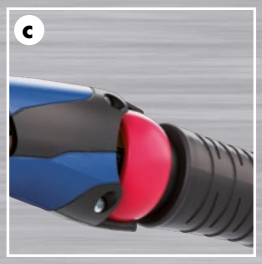
MB EVO PRO liquid cooled



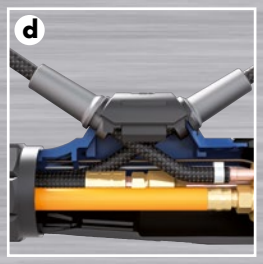
"MB" front end in detail.



Optimized internal geometry.



Sophisticated ball joint construction.



Robust, optimized central connector.

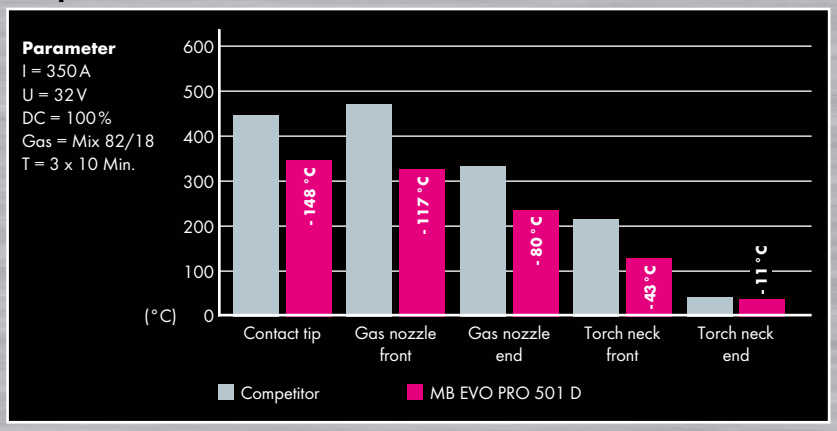
It's the detail that makes the difference ...

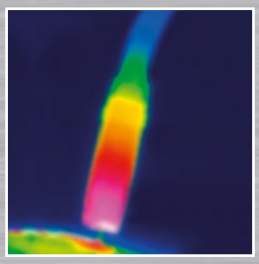
The appeal of liquid cooled MB EVO PRO torches is further enhanced due to the redesigned cooling concept and selected material combination. Improved front end cooling increases wear part service life and realises extra performance reserves, enabling welding at higher power outputs.

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

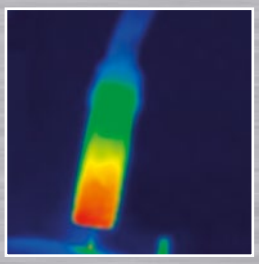
The cooling system of liquid cooled MB EVO PRO torches is optimized through sophisticated construction enhancements and new material combinations. Wear part operating temperatures have been reduced by more than 100° Celsius, when compared to competitor torches. In practice, this means a smoother more stable arc, which significantly improves parts lifetime, especially when welding at higher power.

Temperature measurement





Front end: Competitor Type 501 D



Front end: MB EVO PRO 501 D

Consumption of contact tips per coil of wire ...

The impact of improved wear part cooling became obvious in a real industrial setting. Over a three-month industry test, in four separate production departments, at a large end user, the consumption of contact tips per coil of wire was measured under real conditions.

Conclusion: contact tip consumption was halved.

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Competitor

MIG/MAG welding torches MB EVO PRO. Technical data (EN 60 974-7)

	 MB EVO PRO 15	 MB EVO PRO 24	 MB EVO PRO 25	 MB EVO PRO 26	 MB EVO PRO 36
Cooling					
Air cooled	✓	✓	✓	✓	✓
Liquid cooled	–	–	–	–	–
Rating					
CO_2 (A)	180	250	230	270	320
Mixed gases M21 (A)	150	220	200	240	290
Duty cycle (%)	60	60	60	60	60
Wire size (mm)	0.6–1.0	0.8–1.2	0.8–1.2	0.8–1.2	0.8–1.2

	 MB EVO PRO 240 D	 MB EVO PRO 401 D	 MB EVO PRO 401	 MB EVO PRO 501 D	 MB EVO PRO 501
Cooling					
Air cooled	–	–	–	–	–
Liquid cooled	✓	✓	✓	✓	✓
Rating					
CO_2 (A)	325	450	475	550	575
Mixed gases M21 (A)	300	400	425	500	525
Duty cycle (%)	100	100	100	100	100
Wire size (mm)	0.8–1.2	0.8–1.2	0.8–1.2	1.0–1.6	1.0–1.6

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