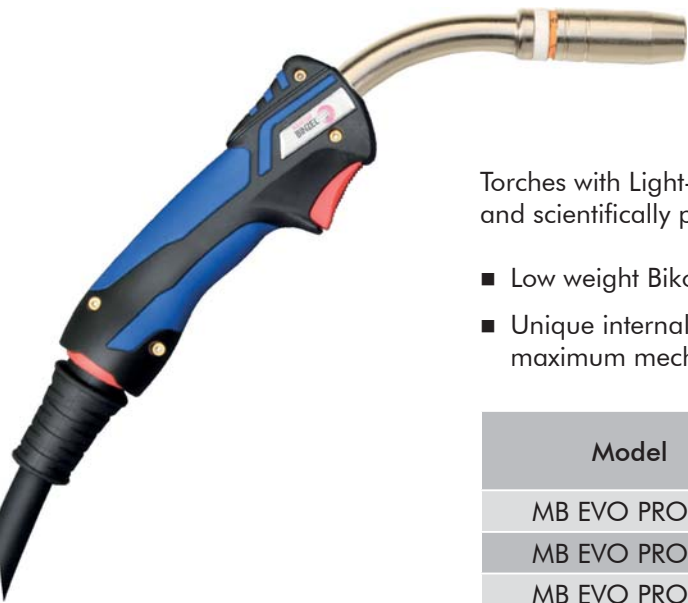


# More than Welding...



Welding Technology for all  
Metalworking Industries.

# MIG / MAG Torches



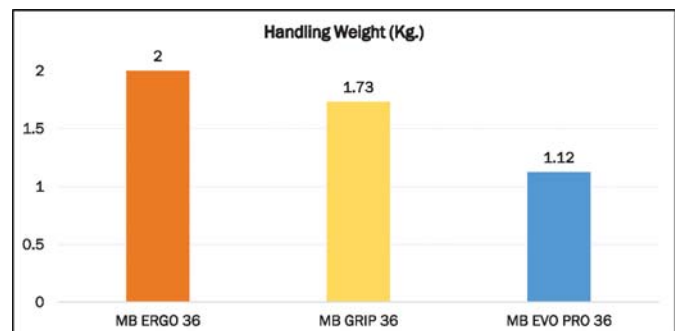
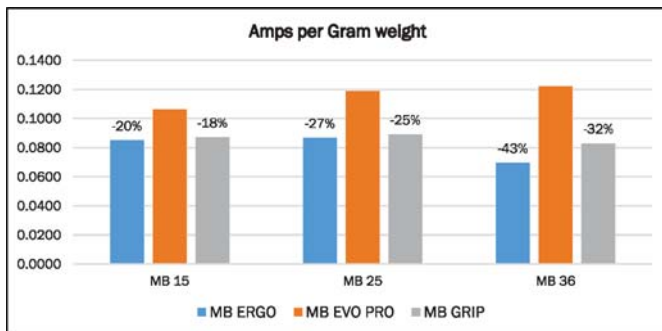
## MB EVO PRO Range

New Range with best ratio of "Performance to Torch Weight" in the entire range of Manual Torches.

Torches with Light-weight "BIKOX® LW" cable assembly, for even better handling and scientifically proven reduced operator fatigue, in all welding positions.

- Low weight Bikox® (LW) – offering weight reduction of up to 34%!
- Unique internal geometry for air cooled torches – enabling a cooler grip with maximum mechanical strength.

Model	Type	Rating (CO <sub>2</sub> )	Duty Cycle	Wire Size mm
MB EVO PRO 15	Air cooled	180 A	60%	0.8 – 1.2
MB EVO PRO 25		230 A		0.8 – 1.2
MB EVO PRO 24		250 A		0.8 – 1.2
MB EVO PRO 36		320 A		0.8 – 1.2
MB EVO PRO 501 D	Liquid Cooled	500 A	100%	1.0 – 2.4



## MB EVO Range

New Range torch series stands for completely new handling concept. With Ball joint.

Model	Type	Rating (CO <sub>2</sub> )	Duty Cycle	Wire Size mm
MB EVO 15	Air cooled	180 A	60%	0.6 – 1.0
MB EVO 25 LC		200 A		0.8 – 1.2
MB EVO 24 VLC		210 A		0.8 – 1.2
MB EVO 25		230 A		0.8 – 1.2
MB EVO 24 LC		240 A		0.8 – 1.2
MB EVO 24		250 A		0.8 – 1.2
MB EVO 36		320 A		0.8 – 1.2
MB EVO 36 HD		350 A		0.8 – 1.2

# MIG Torches



## MB High-Amperage Range

Heavy Duty Torches for Flux Core applications.

Model	Type	Rating (CO <sub>2</sub> )	Duty Cycle	Wire Size mm
MB 40 HD	Air cooled	400 A	60%	1.0 – 2.4
MB 61 GD		500 A		1.6 – 3.2
RB 610 D	Liquid Cooled	650 A	100%	1.6 – 3.2

## 'B' Range

New "Economical" Ergo Torch from Binzel with Ball joint.

Model	Type	Rating (CO <sub>2</sub> )	Duty Cycle	Wire Size mm
B 25	Air cooled	220 A	60%	0.8 – 1.2
B 24		240 A		0.8 – 1.2
B 36		290 A		0.8 – 1.2



## AB Grip Range

Asian style Binzel Torches with small Grip.

Model	Type	Rating (CO <sub>2</sub> )	Duty Cycle	Wire Size mm
AB Grip 20.2	Air cooled	200 A	60%	0.6 – 1.0
AB Grip 35.2		350 A		1.0 – 1.6
AB Grip 50.1		500 A		1.2 – 1.6

## Automated Welding Torches



### Air Cooled

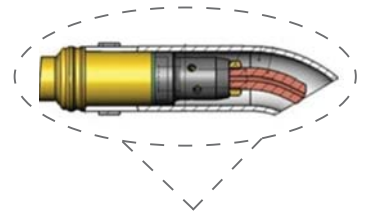
- AUT-15 AK
- AUT-25 AK
- AUT-24 KD
- AUT-36 KD
- AUT-36 HD
- AUT-40 HD

### Liquid Cooled

- AUT 501D
- AUT 610D

## Narrow Gap Welding Torches

We offer MIG Torches with special extra-long Necks ( up to 600 mm long) and special Contact Tip & Gas Nozzle with specifications as per Models MB 15AK & MB 24KD.



## RAB Grip HE

High Efficiency - MIG Welding Torch with facility for extraction of harmful weld fumes at source.

Model	Type	Rating	Duty Cycle	Wire Size mm
RAB Grip HE 24	Air cooled	230 A	60%	0.8 – 1.2
RAB Grip HE 36		300 A		0.8 – 1.2
RAB Grip HE 501 D	Water cooled	500 A	100%	1.0 – 2.4



## FEC

New "Cyclone" type **Fume Extraction System** for collection of weld fumes and purification of air stream by mechanical filtration.

- Low weight - Ideal for mobile use
- Start-stop system reduces energy consumption and increases motor life
- Cleaning of the filter cartridge with a built-in, hand-held rotating cleaning nozzle increases the durability of the permanent filter cartridge
- Optimally matched to the Fume Extraction Torch RAB Grip

## MIG Push-Pull Torch

- Welding system up to 400 A
- Screwable torch neck - straight and 45° bented
- Identical wear parts as MB 36 KD and MB 401D
- Powerful, robust Push-Pull motor
- Potentiometer for wire feeding speed adjustment
- Trouble free, constant wire feeding; up to 8m length
- Preferable for aluminium welding and the use of thin wire diameters



Torch Description	Options	Type	Rating	Duty Cycle
Push-Pull <i>Plus</i> 36 D, 48 V motor, central adaptor GZ-2, 8 Meters	<ul style="list-style-type: none"> <li>■ Straight / 45 deg. Bent</li> <li>■ With or without poti</li> </ul>	Gas cooled	300 A	60%
Push-Pull <i>Plus</i> 401 D, 48 V motor, central adaptor WZ-2, 8 Meters		Liquid cooled	400 A	100%

## TIG Torch - SRT

Model	Type	Rating		Duty Cycle	Electrode Dia. (mm)
		AC	DC		
SRT - 18	Liquid cooled	320 A	240 A	100%	0.5 – 4.0
SRT - 26	Air cooled	180 A	130 A	35%	0.5 – 4.0



## Tungsten Electrodes



Non-Thoriated Tungsten Electrodes – E3  
(as per DIN EN ISO 6848) Length = 150 mm

Diameter	Part No.
1.6 mm	700.0297.10
2.0 mm	700.0298.10
2.4 mm	700.0299.10
3.0 mm	700.0300.10
3.2 mm	700.0301.10

## Auto-Darkening Welding Helmet ADF 615J



### Specifications

Model ADF 615J	
Optical Class	1/1/1/2
Viewing Area	96 x 40 mm
Cartridge Size	110 x 90 x 9 mm
Switching Speed	1/16,000 s.
Light State	DIN 3.5
Dark State	DIN 9 - 13
Arc Sensors	2
Sensitivity Control	Low – High, by infinity dial knob
Delay Control Type	0.1 ~ 1.0 s. by infinity dial knob
Shade control location	External, Variable Shade
Grinding Mode	Yes
Helmet Material	High impact Resistance Nylon
Power Supply	Solar cells, battery replaceable, 1 x AAA Alkaline battery
Application range	Stick Welding ,TIG, MIG / MAG; Plasma Cutting & Welding; Grinding; Not for Laser Welding or Oxyacetylene Welding / Cutting
Total Weight	440 gms
Approved	GS, Din-Geprüft, CE, CSA Z94.3, ANSI Z87.1
Color	Black

## Gouging Products

### Gouging Torches - G 3000 & G 4000



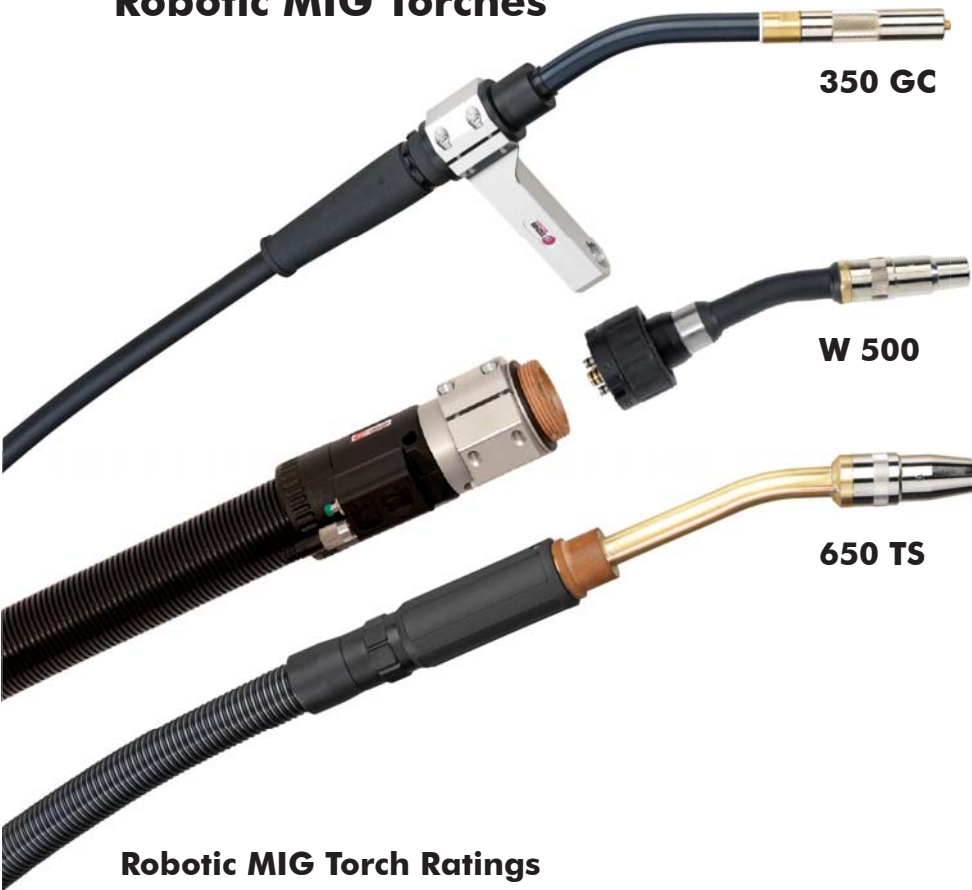
Model	Rating	Duty Cycle	Nom. air pressure	Nom. volume flow	Connection air supply
G 3000	Max 600 A	60%	7 bar	approx. 0.60 m <sup>3</sup> /min.	3/8" - 18 NPT
G 4000	Max 1000 A	35%	7 bar	approx. 0.70 m <sup>3</sup> /min.	3/8" - 18 NP

### ABIARC Gouging Electrodes

Type	Ampere	Pcs.	AC / DC Pointed
4 x 305 mm (5/32" x 12")	250	50	AC / DC Pointed
5 x 305 mm (3/16" x 12")	300		AC Pointed
6 x 305 mm (5/16" x 12")	300		DC Pointed
6.5 x 305 mm (1/4" x 12")	400		AC / DC Pointed
8 x 305 mm (5/16" x 12")	500		DC Pointed
9.5 x 305 mm (3/8" x 12")	600		DC Pointed
13 x 355 mm (1/2" x 14")	900		AC / DC Pointed



## Robotic MIG Torches



**350 GC**

**W 500**

**650 TS**

## Robotic MIG Torch Ratings

Model	Type	Duty Cycle	Rating	Wire Size mm
ABIROB 350 GC	Gas cooled	100%	350 A (CO <sub>2</sub> ) / 300 A (mixed gases)	0.9 to 1.2
ABIROB A 360			360 A (CO <sub>2</sub> ) / 290 A (mixed gases)	0.8 to 1.4
ABIROB A 500			500 A (CO <sub>2</sub> ) / 400 A (mixed gases)	0.8 to 1.6
ABIROB W 500	Liquid cooled	100%	550 A (CO <sub>2</sub> ) / 500 A (mixed gases)	0.8 to 1.6
Robo 650 TS			650 A (CO <sub>2</sub> ) / 550 A (mixed gases)	1.0 to 3.2

## Robot Mount iSTM



### Product features

#### iSTM Torch mount

- Without shock sensor; Solid and rugged design – for ABB robot collision detection software
- Standardized internal power cable connection – for flexible system selection and quick maintenance

#### Cable assembly

- Tension resistant power cable - Long lifetime even in extreme movements and welding positions
- With BINZEL Euro connector; also available with other wire feeder power connectors

#### Torch necks

- Air-cooled with BINZEL torch system ABIROB A360 / A500 / A300
- Water-cooled with BINZEL torch system ABIROB W500 / W290
- Reliable and proven torch necks; compatible in spare parts and consumables with conventional robot and torch systems – saves cost for stock and handling

## Torch Cleaning Station "BRS-CC"

Torch cleaning station BRS-CC the complete solution for reliable automatic servicing of the torch head. Installed quickly and easily (Plug & Play), the compact torch cleaning station BRS-CC stands for top reliability.

Description	Part No.
BRS-CC with cpl	831.0490
BRS-CC without DAV	831.0550
BRS-CC without DAV without rack	831.0570
BRS-CC with DAV without rack	831.0580



## Optical Seam Tracking System - TH6i

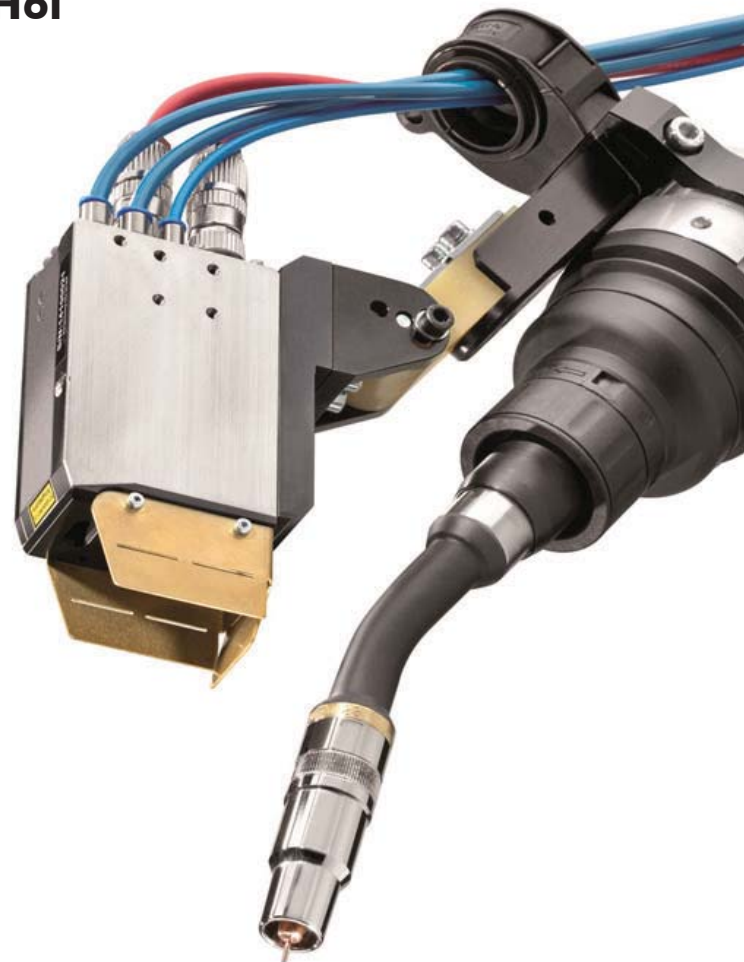


### Solution for Automated Welding.

This new Non-contact Optical Sensor scans the joint between the joining parts. It determines the welding position and as well geometrical data like area, gap, mismatch or various angles. This information is transferred to the machine interface and may be used for seam tracking and adaptive control of the welding process.

### Features

- Ensures that a secure bond and a perfect seam are produced
- Decreases the thermal Increases the productivity
- Compensates production, equipment and handling tolerances
- Brings the welding torch in the perfect position
- Decreases the programming efforts for complex components
- Produces a consistent and reproducible connection





# Robot Torch Mounts & Shock Sensors

## iCAT Mini

Shock sensor for Hollow arm Robot's  
- Reduced to the max.



### Features

- Specially designed for air-cooled applications
- Low purchasing price, fast and simple installation and long service life
- Low weight of approx. 1200 g. (incl. welding torch)
- Reduced design size for access in tight and complex jigs or components
- Extremely good reset precision
- Can be used with all standard hollow wrist welding robots.

## Robot Mounts

- These Mounts, with in-built Shock Sensors, are used for mounting of Welding Torches on Robots.
- The iCAT is used on Hollow-Arm Robots whereas the CAT3 is used on Over-Arm Robots
- In case of a collision of the welding torch with the work piece, the iCAT / CAT3 is mechanically deflected by up to 10° and halts the motion of the robot to prevent further damage.

### iCAT

For New Generation Hollow Wrist Robots



Torch Type	FANUC	ABB	MOTOMAN
ABIROB A 500	iSTM	iSTM	iCAT
ABIROB A 360			
ABIROB W 300			
ABIROB W 500			
ABIROB 350 GC			

### CAT3

Anti-collision torch mounting device for Robots lacking in-built shock sensors.



Robot Mount CAT3 (M) cpl	Part No. 780.2052
Robot Mount CAT3 (L) cpl	Part No. 780.2051

## Zero-friction Liners Masterliner

Welding Robots with central wire guidance are increasingly popular in the international market. The special ZERO-FRICTION LINER – MASTERLINER can provide a solution for long distance wire feeding application thereby eliminating the use of multiple Wire Feeders

### Masterliner (4 Rolls)

Dimensions: Ø 22 mm (outer diameter – without coating)  
Wire diameter: up to 1,6 mm

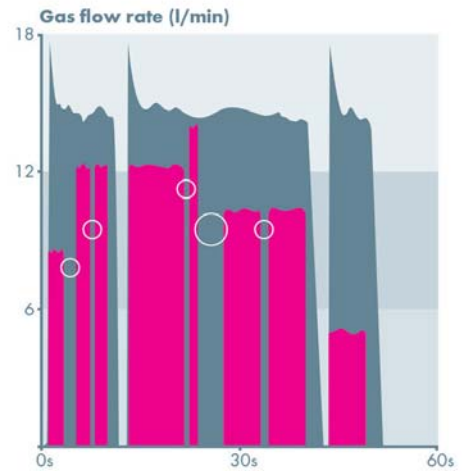


# Electronic Gas Saving Welding Regulator EWR-2

Weld more efficiently – optimize shielding gas consumption.

## The EWR 2 can do more than just saving gas...

- The gas flow is regulated automatically and synchronously with the welding current during the entire welding process
- **“More current - more Gas / Less current - less Gas”**
- Extremely fast Gas valve that opens and closes even at very short welding stops
- Better seam quality, especially during arc start period
- The EWR 2 can show leakage in the system by using the Display on the EWR NET
- The EWR 2 can show problems in outgoing gas supply after the EWR 2 and also with incoming gas in the line before the EWR 2.



Comparison of gas consumption with and without EWR system

### Legend:

- Gas consumption with EWR 2
- Gas consumption without EWR 2
- No loss of gas in between single starts



## Products Available

Description	Part No.
EWR-2 300A 5m, Adaptor 100-230V 1.5m	514.0260
EWR-2 NET 300A 5m, Adaptor 100-230V 1.5m	514.0273
EWR-2 Service Kit	514.0292

**Plasma Replacement Parts**

OEM	Torch	System
HYPERTHERM®	PAC110®/PAC120®/PAC125®/PAC140®	MAX20®/MAX40®/MAX42®
	T80/T80M/T100/T100M	POWERMAX1000®/POWERMAX1250®/ POWERMAX1650®
	T30v®/T45v®	POWERMAX30®/POWERMAX45®
	PAC200T®/PAC200T/E®	HySpeed® HT2000®/MAX200®
	PAC170®/PAC600®/PAC620®	HT4000®/HT4001®
	HT4400®	HySpeed® HT4400®
	HPR130®/HPR260® ms,ss,al	HPR130®/HPR260®
	HPR130XD®/HPR260XD® ms.ss.al	HPR130XD®/HPR260XD®
	HSD130® ms,ss,al	HySpeed Plasma
KJELLBERG®	PerCut 101®/PerCut 1603D®	HiFocus100®/Hifocus160i®
	PerCut 370.1®/PerCut 370.2®	HiFocus280®/Hifocus360®/HiFocus440®
	PA-S75®/PB-S75®/PB-S76®/PB-S77®/PB-S80®	FineFocus 800®/FineFocus900®
	PerCut160®/PerCut170®	HiFocus160i®
ESAB®	PT15®/PT-15XL®/PT19XLS®	
	PT-600®/PT17A®/PT20AM®	
	PT23®/PT24®/PT25®/PT26®	
	PT31®/PT31XL®/PT32®/PT34 PT36®	



**Laser Replacement Parts**

Nozzles / Lenses / Nozzle body / Conical Ceramics / Insulating Discs / Lens Cleaning Tissues for:

TRUMPF®	BYSTRONIC®	AMADA®
MAZAK®	PRECITEC®	MISUBISHI®

**Oxy-Fuel Replacement Parts**

OEM	Torch
HARRIS®	6290 VVC
ESAB®	IPB 300L
MESSER®	GRICURT®1230-PMYF

## Accessories



**CR 1250**

### Coolant Recirculator

Type	Flow Rate	Tank Capacity	Cooling Capacity
CR 1250	7.0 lit/min	6 lit	1250W

### Coolant BTC-20 NF (Non-flammable)

5 litre pack	192.0265
20 litre pack	192.0267



### Anti Spatter Products

Liquids	
5 litre drum	192.0052
20 litre drum	192.0048
Paste	
300 gms tin	192.0058
Spray	
400 ml can	192.0071
Emulsion	
5 litre pack	192.0238
10 litre pack	192.0239

The Abicor Binzel manufacturing facility at Urawade, near Pune



ABICOR BINZEL reserves the right to change specifications and appearance without prior notice.



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