

TECHNOLOGY FOR THE WELDER'S WORLD.



## Product Catalogue



[www.binzel-abicor.com](http://www.binzel-abicor.com)

# MIG / MAG Torches



## **MB Standard Range (Gas Cooled Torches)**

The proven classical range of ERGO Torches from Binzel.

### **MB-15 AK**

Rating (CO<sub>2</sub>) : 180A  
Duty Cycle : 60%  
Wire Size : 0.6 – 1.0 mm

### **MB-25 AK**

Rating (CO<sub>2</sub>) : 230A  
Duty Cycle : 60%  
Wire Size : 0.8 – 1.2 mm

### **MB-24 KD**

Rating (CO<sub>2</sub>) : 250A  
Duty Cycle : 60%  
Wire Size : 0.8 – 1.2 mm

### **MB-36 KD**

Rating (CO<sub>2</sub>) : 300A  
Duty Cycle : 60%  
Wire Size : 0.8 – 1.2 mm

### **MB-36 HD**

Rating (CO<sub>2</sub>) : 350A  
Duty Cycle : 60%  
Wire Size : 1.0 – 1.6 mm

### **MB-40 HD**

Rating (CO<sub>2</sub>) : 400A  
Duty Cycle : 60%  
Wire Size : 1.0 – 2.4 mm

### **RB-61 GD**

Rating (CO<sub>2</sub>) : 500A  
Duty Cycle : 60%  
Wire Size : 1.6 – 3.2 mm

## **MB Standard Range (Liquid Cooled Torches)**

Model 501 D is now offered with a High Density / Heavy Duty Cable that is able to better withstand the high temperatures.

### **MB-501 D**

Rating (CO<sub>2</sub>) : 500A  
Duty Cycle : 100%  
Wire Size : 1.0 – 2.4 mm

# MIG / MAG Torches



## **MB 'Grip' Range**

### **(Gas Cooled Torches)**

represent the futuristic design consisting of "high comfort level" Grip / Ball & Socket joint between Cable and Torch Handle / lightweight Bilkox "R" Cable with improved wear resistance and thermal resistance / Retractable Spring Pin End-Connectors.

#### **MB GRIP 15 AK**

Rating (CO<sub>2</sub>) : 180A  
Duty Cycle : 60%  
Wire Size : 0.6 – 1.0 mm

#### **MB GRIP 25 AK**

Rating (CO<sub>2</sub>) : 230A  
Duty Cycle : 60%  
Wire Size : 0.8 – 1.2 mm

#### **MB GRIP 24 KD**

Rating (CO<sub>2</sub>) : 250A  
Duty Cycle : 60%  
Wire Size : 0.8 – 1.2 mm

#### **MB GRIP 36 KD**

Rating (CO<sub>2</sub>) : 320A  
Duty Cycle : 60%  
Wire Size : 0.8 – 1.2 mm

## **ASBT Range**

### **(Gas Cooled Torches)**

represent a new design to meet the specific ergonomic requirements of an Indian Welder's hand whilst offering combination of light-weight and high ampere capacity.

#### **ASBT 350 GC**

Rating (CO<sub>2</sub>) : 350A  
Duty Cycle : 70%  
Wire Size : 1.0 – 1.6 mm

#### **ASBT 500 GC**

Rating (CO<sub>2</sub>) : 500A  
Duty Cycle : 60%  
Wire Size : 1.2 – 1.6 mm

# MIG / MAG Welding Torches "AB GRIP"



## Specifications

### AB GRIP 20.2

Rating : 200A CO2  
 Duty Cycle : 60%  
 Rating : 200A Mix M21  
 Duty Cycle : 50%  
 Wire Size : 06 – 1.0 mm

### AB GRIP 35.2

Rating : 350A CO2  
 Duty Cycle : 60%  
 Rating : 350A Mix M21  
 Duty Cycle : 50%  
 Wire Size : 1.0 – 1.6 mm

### AB GRIP 50.1

Rating : 500A CO2  
 Duty Cycle : 60%  
 Rating : 500A Mix M21  
 Duty Cycle : 50%  
 Wire Size : 1.2 – 1.6 mm

## RAB GRIP

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



Torch	RAB Plus 25 AK	RAB Plus 36 KD	RAB Plus 501 D
Rating	230 A	300 A	500 A
Type	Gas Cooled	Gas Cooled	Water Cooled
Duty Cycle	60%	60%	100%
Wire Size (mm)	0.8 - 1.2	0.8 - 1.2	1.0 - 2.4



## FES 200

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



# Binzel TIG Torch - SRT

- Modular construction
- Ergonomic and easy-to-assemble design
- Excellent High-frequency protection
- Slim, light and flexible cable assemblies
- Consumables compatible to international standards
- Modular switching and control functions integrated in the handle

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



## Tungsten Electrodes

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

### Advantages of E3 Tungsten electrodes (Non-Thoriated)

- The welder is no longer exposed to radiation
- Electrode tip remains cooler than thoriated types
- Superior repeatable ignition characteristics
- Increased arc stability
- Reduced burn off
- Lower degradation to the electrode tip

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 600S



## Specifications

MODEL	ADF 600S
Optical Class	1/2/1/2
Viewing Area	110 X 90 mm
Switching Speed	1/10,000
Shade Range	DIN 9-13
Light State	DIN 3.5
Dark State	DIN 9 -13
Arc Sensors	2
Sensitivity Control	Low -High, by switch button
UV/IR protection	Up to Shade DIN 16 at all times
Delay Control Type	Fast - Slow by switch button
Shade control location	External, Variable Shade
Grinding Mode	Yes
Helmet Material	High impact Resistance Nylon
Head Gear style	ADJ ratcheting
Power Supply	Solar cells, no battery change required
Operating Temperature	-10°C ~ +55°C
Storage Temperature	-20°C ~ +70°C
Application range	Stick Welding ,TIG, MIG / MAG; Plasma Cutting & Welding; Grinding; Not for Laser Welding or Oxyacetylene Welding / Cutting
Total Weight	435 gms
Approved	GS, Din-Geprüft, CE , CSA Z94.3, ANSI Z87.1
Color	Black

## Gouging Products

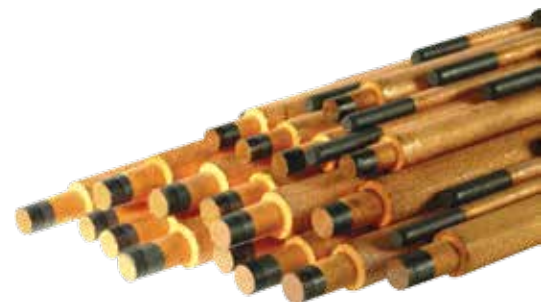
### Gouging Torches - G 3000 & G 4000

Torches	G 3000	G 4000
Rating	Max 600 A (at 60% Duty Cycle)	Max 1000 A (at 35% Duty Cycle)
Nom. air pressure	7 bar	7 bar
Nom. volume flow	approx. 0.60 m <sup>3</sup> / min.	approx. 0.70 m <sup>3</sup> / min.
Connection air supply	3/8" - 18 NPT	3/8" - 18 NP
Weight	1.2 kg (Working height 1 m)	1.75 kg (Working height 1 m)

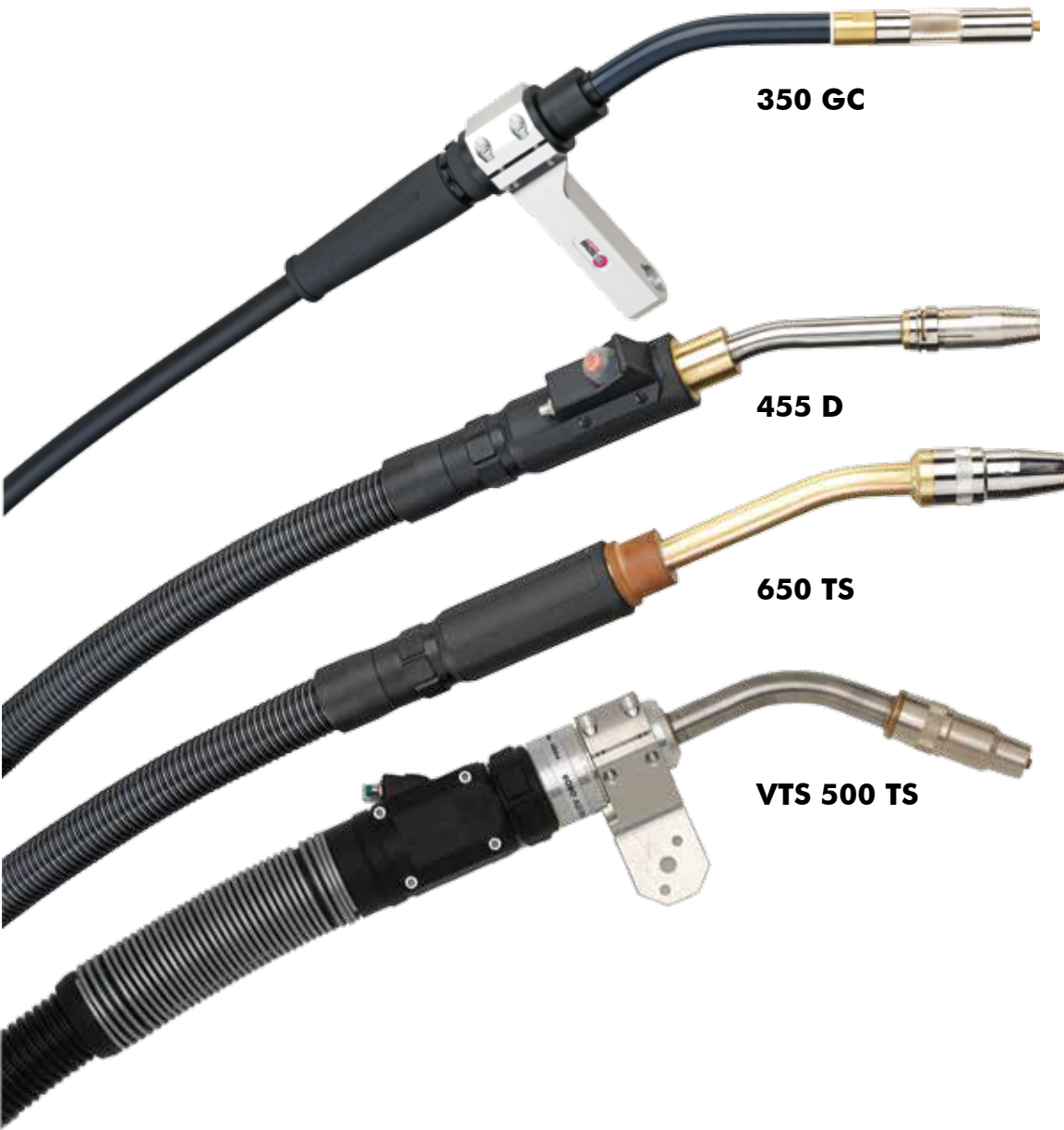


### ABIARC Gouging Electrodes

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



# Robotic Products



## Robotic MIG Torch Ratings

Torch Model	Type	Duty Cycle	Rating	Wire Size
AIROB 350 GC	gas cooled	100%	350 A (CO <sub>2</sub> ) / 300 A (mixed gases)	0.9 to 1.2 mm
AIROB A 360	gas cooled	100%	360 A (CO <sub>2</sub> ) / 290 A (mixed gases)	0.8 to 1.4 mm
AIROB A 500	gas cooled	100%	500 A (CO <sub>2</sub> ) / 400 A (mixed gases)	0.8 to 1.6 mm
Robo 455 D	water cooled	100%	450 A (CO <sub>2</sub> ) / 400 A (mixed gases)	0.8 to 1.6 mm
Robo 650 TS	water cooled	100%	650 A (CO <sub>2</sub> ) / 550 A (mixed gases)	1.0 to 3.2 mm
Robo VTS 500 TS	water cooled	100%	500 A (mixed gases)	0.8 to 1.6 mm

# Robotic Products

## 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

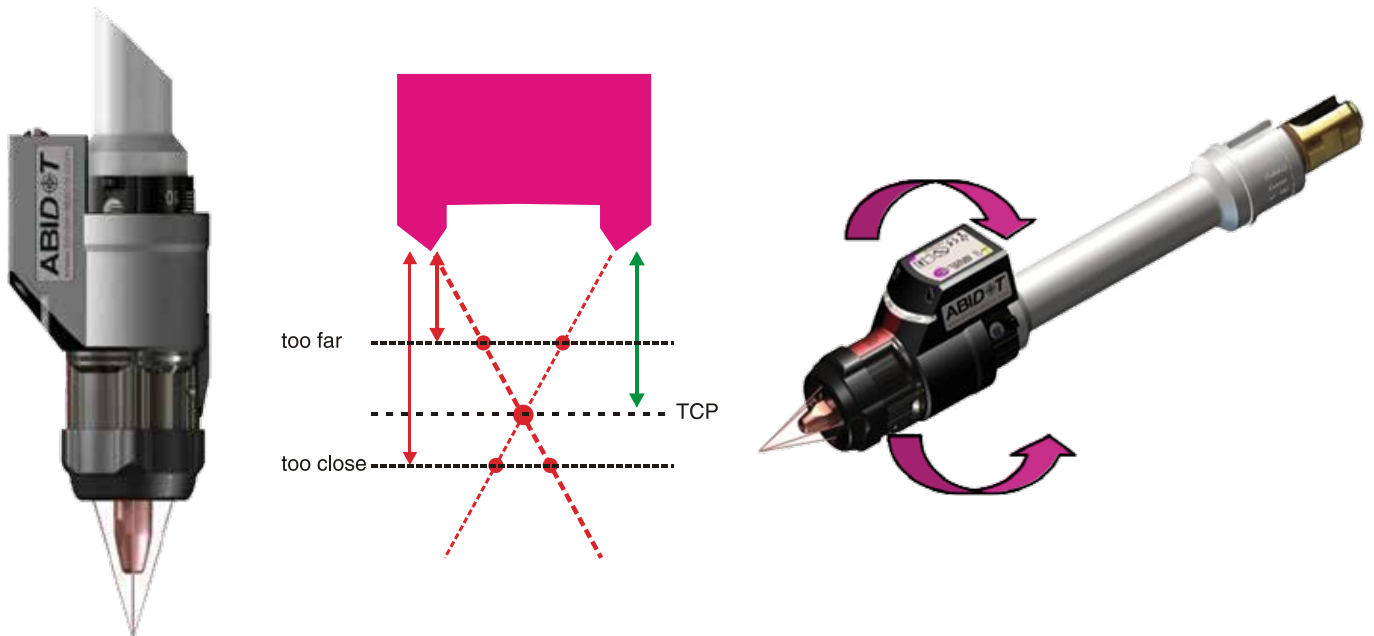
- Air-cooled with BINZEL torch system ABIROB A360 / A500 / A300
- Water-cooled with BINZEL torch system ABIROB W500 / W290
- Reliable and well-proofed torch necks; compatible in spare parts and consumables with conventional robot and torch systems – saves cost for stock and handling



## Abidot

**ABIDOT is the new clever tool for touch-less programming of welding robots.**

The programming aid ABIDOT is simply screwed onto the robot torch in place of the gas nozzle, and is used for the programming process. Instead of taking a wire, four laser beams simulate the stick-out, completely touch-less





# Robotic Products

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.

## Torch Cleaning Station "BRS-CC"

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



## Robot Mount

For New Generation Hollow Wrist Robots

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



- 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 CAT-2 is used on Over-Arm Robots
- In case of a collision of the welding torch with the work piece, the iCAT / CAT2 is mechanically deflected by up to 10° and halts the motion of the robot to prevent further damage.

## Robot Mount "CAT2"

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

Robot Mount CAT2 (M) cpl Part No. 780.2100

Robot Mount CAT2 (L) cpl Part No. 780.2121



# Zero-friction Liners Rolliner / Masterliner

Welding Robots with central wire guidance are increasingly popular in the international market. The special ZERO-FRICTION LINERS – ROLLINER & 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



## The REGULA EWR 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
- Pulsed Gas allows more reduction of Gas flow depending on the possibility for trimming "programming" with unchanged high Gas protection
- Elimination of Gas puffs as a side effect of the above methods

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

- Better seam quality, especially during arc start period
- The EWR works with 2-6 bar incoming pressure – so it can be used in some cases directly on the gas supply system (pipe system) without a pressure reducer (not on bottle).
- The EWR can show leakage in the system by using the Display on the EWR PRO
- The EWR can show problems in outgoing gas supply after the EWR (for example: drilled gas hose to the wire feeder)
- The EWR can show problems with incoming gas in the line before the EWR.

## Products Available

Part No.	Description
514.1002.1	EWR Basic 300A 3m, Adaptor 100-230V 1.5m
514.1003.1	EWR PRO 300A 3m, Adaptor 100-230V 1.5m
514.1004.1	Gas flow Control Unit for EWR PRO



Gas saving system EWR Basic  
incl. Shunt and power supply  
514.1002.1



Gas saving system EWR Pro  
incl. Shunt and power supply  
514.1003.1

## Advanced Consumables

### Plasma Cutting Consumables available for:

OEM	TORCH	SYSTEM
HYPERTHERM®	PAC110/PAC121/120	MAX20, MAX40CS, MAX42
HYPERTHERM®	PAC140	MAX40/HT40
HYPERTHERM®	PAC130	MAX70,MAX80,MAX100
HYPERTHERM®	PAC160	MAX100D
HYPERTHERM®	PAC105, PAC100, PAC110T	POWERMAX190c/350/380
HYPERTHERM®	PAC123T/M	POWERMAX1100
HYPERTHERM®	T60/T60M,T80/T80M,T100/T100M	POWERMAX1000/1250/1650
HYPERTHERM®	HT2000	Hy Speed HT2000
HYPERTHERM®	MAX200	MAX200
HYPERTHERM®	HT400/PAC170/620/600/500	HT400/4000/4001/PAC600/500
HYPERTHERM®	PAC500T/M	H401&H601
HYPERTHERM®	PAC182/PAC186/PAC190	Hy Definition HD1070/HD3070
HYPERTHERM®	HPR130™/260TM Mild steel	Hy performance Plasma
HYPERTHERM®	HPR130™/260TM Stainless steel	Hy performance Plasma
HYPERTHERM®	HPR130™/260TM Aluminium	Hy performance Plasma
HYPERTHERM®	HT4400	Hy Speed HT 4400
KJELLBERG®	PB-S20/25/40/45	PA-S25W, PA-S45W, PA-
KJELLBERG®	PB-S47 W, - 1/01	Fine Focus 450
KJELLBERG®	Per Cut 101	Hi Focus 100
KJELLBERG®	Per Cut 160 3D	Hi Focus 160i
KJELLBERG®	Per Cut 370.2/PB-S80	Hi Focus 360i/280, Fine Focus 800
KJELLBERG®	PB-S75/76/77per cut 160 3D	Fine Focus 800/900, pa-S75
KJELLBERG®	Per Cut 160/ Per Cut 170	Hi Focus 160i



Thermacut is in no way affiliated with the above named manufacturers. References to the above named machines, torches, consumables and part reference numbers are for convenience of use only.

# Accessories



## Coolant Recirculator

Type	Power Rating	Tank Capacity	Cooling Capacity	Made in
WK 43	0.35kW	7 lit	1300W	Germany
CRV 1400	0.50kW	15 lit	1400W	India

## Coolant BTC-50

5 litre pack	192.0175
20 litre pack	192.0176



## Anti Spatter Products

### Liquids

5 litre drum	192.0052
20 litre drum	192.0048

### Paste

300 gms tin	192.0058
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### Spray

400 ml can	192.0071
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### Emulsion

5 litre pack	192.0162
10 litre pack	192.0159



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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