

# More than Welding...



## Welding Technology for all Metalworking Industries.

Product Catalogue 2020



# iROB Robotic Power Source



## Features

- Pulse welding
- Double pulse welding
- Process- monitoring
- Gas-monitoring
- Push-Pull Torch compatible (option)
- 4-Roll wire feed mechanism
- Wire feed motor with encoder
- Error codes for easy troubleshooting
- Energy saving inverter technology
- Compliance with the limits of European standards
- Synergic curve package already included
- Low weight with high power (32,5kg – 500A)
- Dynamic adjustment
- Extremely short response time <300 microseconds
- Memory for 64 jobs
- Well-engineered synergic curves
- Seam finding (optional)
- Power Factor Control

Type	iROB Pulse 400	iROB Pulse 500
Power supply voltage	3 x 400 Vac	3 x 400 Vac
Main voltage tolerance	± 15 %	± 15 %
Main voltage frequency	50 / 60 Hz	50 / 60 Hz
Main fuse	25 A (400 V)	30 A (400 V)
Max. power input (kVA)	16.1 kVA (400 V)	22.9 kVA (400 V)
Max. power input (kW)	15.3 kW (400 V)	21.95 kW (400 V)
Power factor (PF)	0.95	0.95
Efficiency	88 % (400 V)	88 % (400 V)
Cos (ø)	0.99	0.99
Primary continuous current (100% duty cycle)	23.1 A (400 V)	32.9 A (400 V)
Effective current consumption I <sub>eff</sub>	17.8 A (400 V)	23.2 A (400 V)
Max. welding current at 40°C		
Duty cycle = 60 %	400 A	500 A
Duty cycle = 100 %	360 A	420 A
Max. welding current at 25°C		
Duty cycle = 60 %	400 A	400 A
Duty cycle = 100 %	400 A	470 A
Welding current range	3 – 400 A	3 – 500 A
Open-Circuit voltage	73 Vdc	73 Vdc
Protection	IP23	IP23
Insulation class	H	H
Cooling	AF / Fan	AF / Fan
Dimensions (L×W×H)	624x282x474 mm	624x282x474 mm
Weight	29.9 kg	30.9 kg

## iROB-control



- Screen for overview and process flow
- User control
- Parameter with direct control
- Background parameter with access rights
- Synergic lines
- Jobs saving and recall
- Configuration setup

## iROB-feed 22



- 4-roller feeder
- Control-pcb in feeder
- Gas flow control
- Connection for collision box
- Inching, retract, gas test
- Nozzle sensing
- Changing rolls without tools
- Binzel-ZA or RPC
- Right or left

# iMIG PULSE

## MIG/MAG Robotic Power Source

iMIG PULSE 350/500 RS is a leading solution for robotic arc welding and is designed for integration with any brand of robot. It is a ready-to-weld package and provides a perfect basis for easy development of robot welding work area. It consists of a high performance power source, a reliable wire feed assembly and robust torches. This enables integrators and system providers an easy, secure and economical building of the robotic welding working area.



Type	iMIG PULSE 350 RS	iMIG PULSE 500 RS
Mains voltage	3x380/415/440V/460V ac	3x380/415/440V/460V ac
Mains frequency	50/60 Hz	50/60 Hz
Rated input power	15kVA	24kVA
Rated input current	23A /A 20.5A / 19A /18A	38A/34A /32.5A/31A
Communication bus	Digital	Digital
Duty cycle at 40°C		
Duty cycle = 60 %	350A/31.5 V	
Duty cycle = 100 %	270A/27.5 V	500 A/39V
Welding current range	60 - 350A	6 - 500A
Idle voltage	101V DC	106V DC
Protection type	IP23	IP23
Insulation class	H	H
Type of cooling	AF / Fan	AF / Fan
Dimensions (L×W×H)	660×320×560 mm	660×320×560 mm
Weight	50 kg	55 kg
Standards	GB/T 15579.1-2013	GB/T 15579.1-2013
Mains connecting cable	4×4 mm 2	4×6 mm 2
Length of the supply line	3m	3m

# EX-TRAFIRE®



## Plasma Power Source Hand Plasma Cutting System



Specifications	EX-TRAFIRE® 100SD	EX-TRAFIRE® 75SD	EX-TRAFIRE® 40SD	EX-TRAFIRE® 30H
AMPS (A)	30-100	30-75	10-40	10-30
Input Voltage (VAC)	400±15%	400±15%	230V ± 15%	230V ± 15%
Plasma Gas	Compressed air	Compressed air	Compressed air	Compressed air
Certification	CE, CCC	CE, CCC	CE, CCC	CE, CCC
Modes	Cutting / Gouging	Cutting / Gouging	Cutting / Gouging	Cutting / Gouging
Frequency (Hz)	50/60	50/60	50/60	50/60
Max. Input Power (kVA)	20.7	14.2	5.98	4.9
Output Voltage (VDC)	170 (Extra-Boost 220V)	170 (Extra-Boost 220V)	140	92
Duty Cycle @ 40 °C	50% @ 100A 100% @ 80A	100% @ 75A	40% @ 40A 100% @ 25A	35% @ 30A 100% @ 21A
Dimension (L×H×W) mm	560×400×265	560×400×265	469.9×228.6×177	470×156× 282
Weight (kg )	24	24	11.8	10.5
Cutting Capacity (mm)	35 mm	25 mm	12 mm	8 mm
Severance Cutting Capacity	50 mm	35 mm	20 mm	10 mm
Piercing Cutting Capacity	25 mm	25 mm	8 mm	8 mm
Air Flow @ (lpm/bar)	270 @ 5,5	270 @ 5,5	120 @ 4,5	120 @ 4,5
Max. Input Pressure (bar/psi)	10/145	10/145	10/145	10/145
Protection Level	IP23S	IP23S	IP23S	IP23S
Insulation Class	H/F	H/F	H/F	H/F

### Hand Plasma Torches

Model	FHT-EX®105H	FHT-EX®105H	FHT-EX®40H	FHT-EX®30H
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# EX-TRACK®



## Portable CNC Cutting System

### Compact / Portable / Economical

Portable CNC cutting system that can be easily transported and assembled where you need it.

Precision dual side linear guide rails offers stability and outstanding accuracy in oxyfuel or plasma cutting.

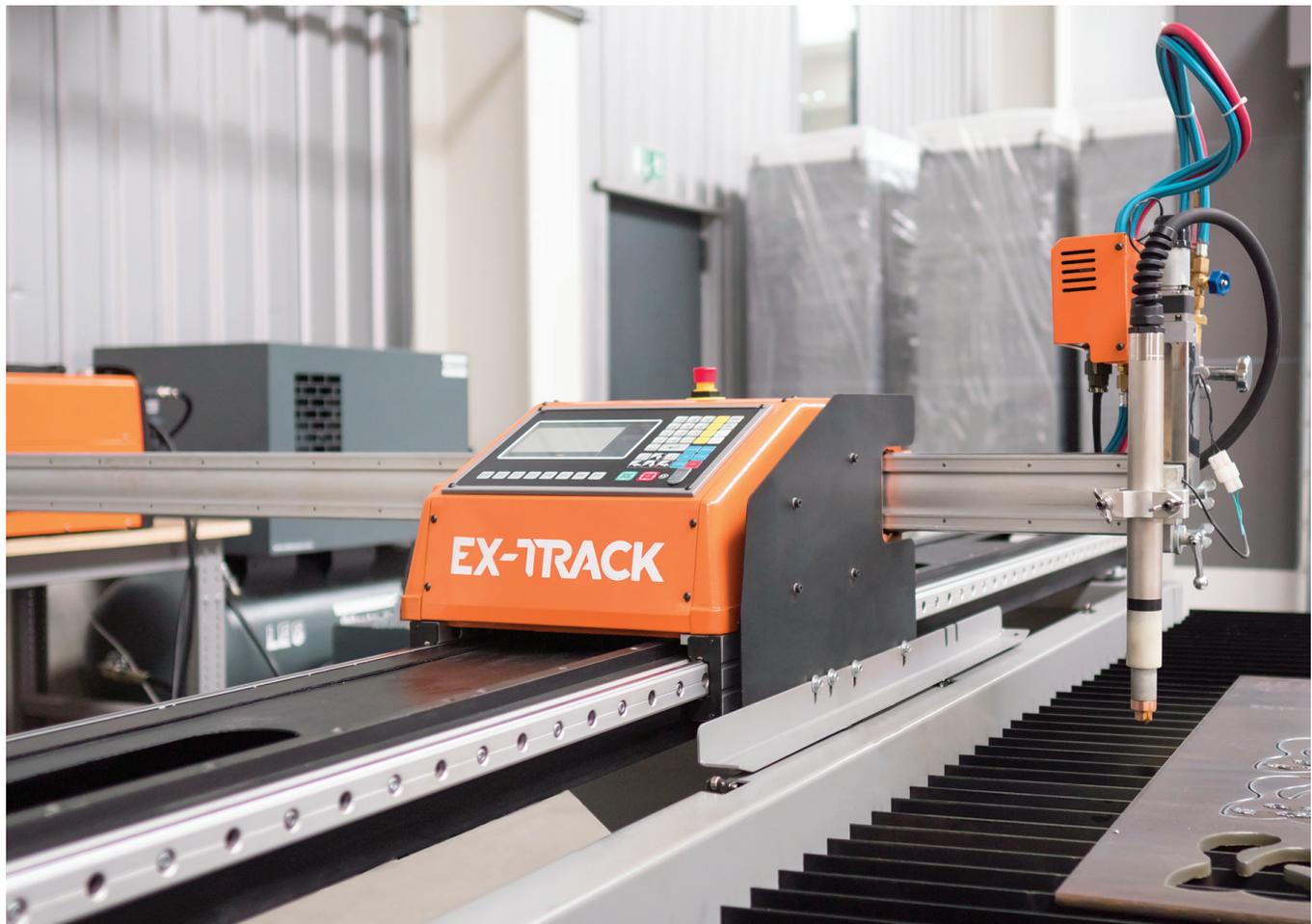
For the best cutting results the EX-TRACK® has an arc voltage height control with initial touch sensing combined with a crash sensor designed for plasma cutting.

The EX-TRACK® can operate both plasma and oxy-fuel cutting torches with great results.

With two types of torch holders you can interchange the type of cutting based on your needs.

Input Voltage (VAC)	230V or 120V
Cutting Area	3050 × 1525 mm (10 × 5 ft)
Max. Position Speed	Up to 3000 mm/min (118 IPM)
Vertical Stroke	100 mm (4 inch) with Motorized Lifter
Oxy-fuel Cutting Range	Up to 100 mm (4 inch)
Plasma Cutting Range	Up to 35 mm (1 3/8 inch)
Plasma Interface	Yes

Torch Height Control	Arc Voltage Height Control
Torch Included	Yes / Oxy-fuel
Nesting Software	Yes / Included
Packaging	2 Boxes
Weight	99 KG



# xFUME VAC

Active health protection with innovative fume extraction technology



	<b>xFUME VAC FLEX</b>	<b>xFUME VAC ADVANCED</b>	<b>xFUME VAC PRO</b>
Max. airflow:	~ 1,200 m³/h	~ 340 m³/h	~ 700 m³/h
Connections:	Extraction arm	2	2/4
Connection diameter:	–	60 mm	60 mm
Max. vacuum:	–	~ 20,000 PA	~ 26,000 PA
Noise level:	≤ 68 dB (A)	≤ 68 dB (A)	≤ 75 dB (A)
Voltage:	115 V 50/60 Hz 230 V 50/60 Hz	115 V 50/60 Hz 230 V 50/60 Hz	230 V 50/60 Hz 380 V 50/60 Hz
Motor power:	1.1 kW	2 x 0.8 kW	3.0 / 5.5 kW
Filter efficiency:	≥ 99.9 %	≥ 99.9 %	≥ 99.9 %
Cleaning:	None	Automatic	Automatic
Automatic start/stop:	No	Yes	Yes
Adjustable air flow:	No	Yes	Yes
Weight:	139.0 kg	40.0 kg	290.0 kg
Size:	700 x 700 x 1115 mm	370 x 370 x 1000 mm	700 x 700 x 1840 mm

## xFUME VAC

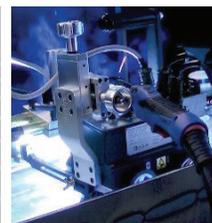
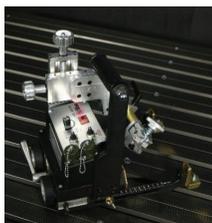
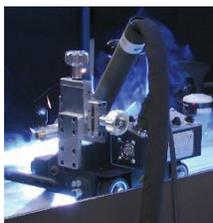
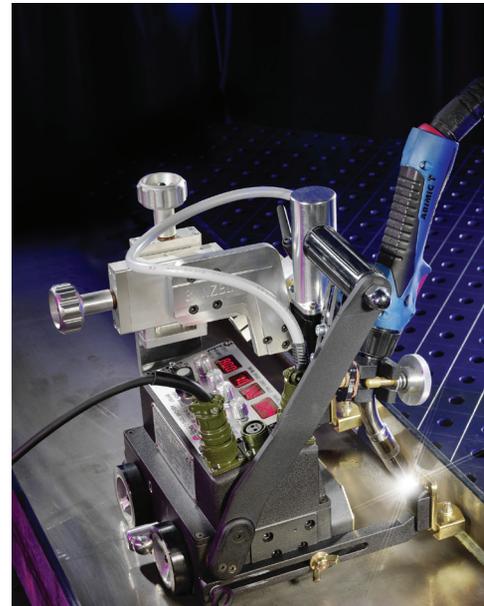
- Extraction for manual Torch.
- Extraction for workstation.
- Extraction for Robotic Torch.



# ABI-CAR welding tractors

## Features

- Travel speed up to 1200 mm/min.
- Spatter protection on ceramic – guide rollers.
- Wheels protected against spatter at the front.
- Safety eyelets against falling integrated in the device (with corresponding safety installations).
- Permanent magnet with strong holding power.
- Magnet lifter at the front.
- Robust handle, can also be mounted on opposite side.
- Allows more freedom for the torch handles.
- Adjustable torch position.
- Linear in three axes.
- Radial in three axes.
- Analog operating panel with 7-segment display for adjustable value.
- Direction of motion selectable.
- Start by pressing the direction switch.
- Arc On/Off – switch for permanent welding.
- Crater filling / 4-cycle operation for end crater filling; use of 4-cycle operation using the Arc On/Off-switch.
- 2-pole connection bush to connect the wire feeder.
- 3-pole connection bush to connect the power supply.
- 5-pole connection bush to connect the oscillation unit.



ABI-CAR E 1000	ABI-CAR E 1200	ABI-CAR E 1200-O
Travel speed 1000 mm/min	Travel speed 1200 mm/min	Travel speed 1200 mm/min
Limit switch on both ends	Guiding rail available	Oscillation unit
Spatter protection for guiding and driving wheels	Possibility to switch grip by side for more space	Delay time for left / center / right
Starting welding process at the welding tractor	Scale for adjusting guiding arms	Scale for adjusting guiding arms
		Guiding rail available

# Torch Cleaning Station "TCS Compact"

The state-of-the-art torch cleaning station TCS Compact stands for quick and easy installation to practically all robot brands and types, Ensure process stability in automated welding by using preventive torch cleaning, wire cutting and anti-spatter spraying with TCS Compact!

Optimal and time saving cleaning of the gas nozzle for a reliable welding process and an increase in plant availability – torch maintenance at it's best...

## Torch cleaning

- Reamers, specially designed to suit the welding torch
- V-block for each nozzle diameter – no adjustments
- Strong, high quality air motor for powerful cleaning
- Complete dirt & dust protection

## Anti-spatter fluid injection unit TSi

- High efficient spray function
- Low consumption
- Collection of remaining anti-spatter fluid
- Fully protected for clean environment

## Wire cutting unit

- Strong, reliable cutting device
- Sharp cut for save arc-start
- Hardened cutting knife for long lifetime



Description	Part No.
TCS Compact (Long post)	830.2388
TCS Compact (Short post)	830.2387

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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