



# KEEP IT SIMPLE ...



# MIG/MAG Robotic Power Source iROB: The smart solution!



iROB Pulse 400  
iROB Pulse 400 Multivoltage  
iROB Pulse 500

## The concept

- Robust design – elaborated and multi-functional
- Easy handling
- Customized modular system for perfect interaction – for the task at hand
- Stable processes for pulse, short, mixed and spray arc applications
- State of the art process control – better safe than sorry



# Details:

## An overview of the available components.



### Power source

- 1 Power source:**
  - iROB Pulse 400
  - iROB Pulse 400 Multivoltage
  - iROB Pulse 500
- 2 Cooling unit:**
  - iROB Cool
- 3 Platform:**
  - iROB Podium
  - iROB Rolls
- 4 Remote control:**
  - iROB Control

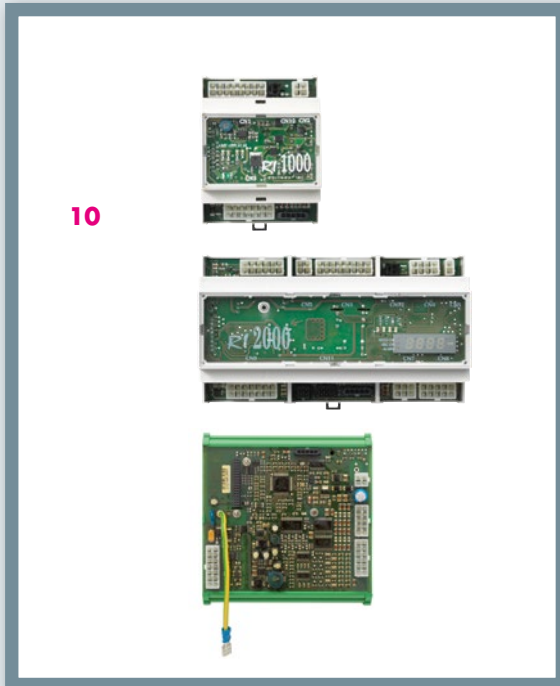
### Feeder

- 5 Feeder:**
  - iROB Feed 22
  - iROB Feed MP
- 6 Intermediate cable-hose assembly:**
  - liquid cooled 4/6/8/10 m
  - air cooled 4/6/8/10 m

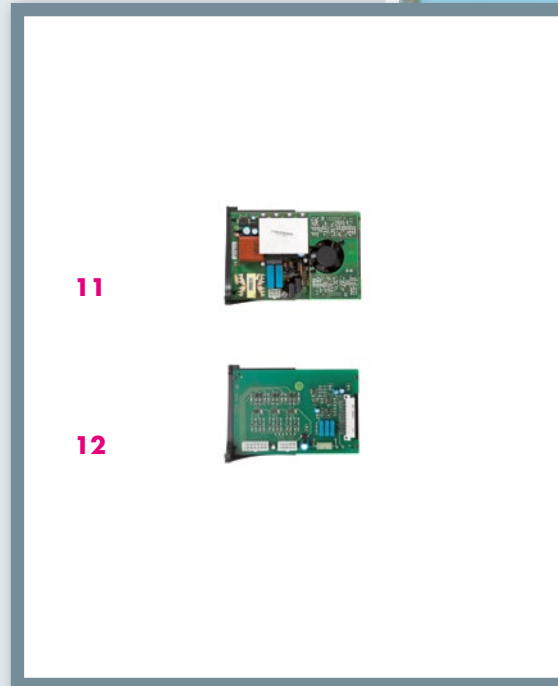
### Accessories

- 7 iROB Clamp:** Intermediate cable-hose assembly clamp (robot specific)
- 8 iROB Bracket:** Feeder mounting platform (robot specific)
- 9 iROB Spool:** Spool mounting (robot specific)

# Always the right bus: The interface Bus System.



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## Interface

**10 Digital / Analog RI 1000/2000**

**Bus RI 3000**

- DeviceNet
- ProfiBus CU / Interconnectron
- ProfiNet CU / LWL / Multibus II
- InterBus CU / LWL / Multibus II
- Ethernet IP / 2-Port
- Can open

**11 PS** Additional internal voltage supply

**12 BRS** Torch cleaning station set



# Technical data according to: EN 60974-1, EN 60974-10

**iROB Pulse 400**  
**iROB Pulse 400 Multivoltage**  
**iROB Pulse 500**



Type	iROB Pulse 400	iROB Pulse 400 MV	iROB Pulse 500
Power supply voltage	3 x 400 Vac	3 x 400 Vac 3 x 230 Vac	3 x 400 Vac
Main voltage tolerance	± 15%	± 15%	± 15%
Main voltage frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Main fuse	25 A (400 V)	25 A (400 V)	30 A (400 V)
Slow-blow fuse		45 A (230 V)	
Max. power input (kVA)	16.1 kVA (400 V)	16.1 kVA (400 V) 16.5 kVA (230 V)	22.9 kVA (400 V)
Max. power input (kW)	15.3 kW (400 V)	15.3 kW (400 V) 15.7 kW (230 V)	21.95 kW (400 V)
Power factor (PF)	0.95	0.95	0.95
Efficiency	88% (400 V)	88% (400 V) 87% (230 V)	88% (400 V)
Cos (φ)	0.99	0.99	0.99
Primary continuous current (100% duty cycle)	23.1 A (400 V)	23.1 A (400 V) 42.0 A (230 V)	32.9 A (400 V)
Effective current consumption I <sub>eff</sub>	17.8 A (400 V)	17.8 A (400 V) 32.5 A (230 V)	23.2 A (400 V)
Max. welding current at 40°C			
Duty cycle = 50%	400 A	400 A	500 A
Duty cycle = 60%	400 A	400 A	470 A
Duty cycle = 100%	360 A	360 A	400 A
Max. welding current at 25°C			
Duty cycle = 60%	400 A	400 A	500 A
Duty cycle = 100%	400 A	400 A	470 A
Welding current range	3 - 400 A	3 - 400 A	3 - 500 A
Open-Circuit voltage	73 Vdc	73 Vdc	73 Vdc
Protection	IP23	IP23	IP23
Insulation class	H	H	H
Cooling	AF / Fan	AF / Fan	AF / Fan
Dimensions (LxWxH)	624 x 282 x 474 mm	624 x 282 x 474 mm	624 x 282 x 474 mm
Weight	29.9 kg	31.0 kg	30.9 kg

# ABICOR BINZEL ROBOTIC SYSTEMS: The system provider ...



- Robot power sources
- MIG/MAG welding torches systems
- Wire Feeder System MasterLiner
- Wire Feeder System MasterFeeder
- Robot mountings CAT3, iCAT and iSTM
- Seam tracking system TH6
- Electronic gas management system EWR 2 and EWR 2 Net
- Torch cleaning stations



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