



# Ready to weld!

All-in-one solutions for  
welding robots ...



# Easy configuration! Robot welding technology straight from the horse's mouth.



## Premium quality in complete packages...

### **"Ready to weld"-packages.**

Our "ready to weld" packages are prepared for the most used welding robots from ABB, Fanuc, Kuka and Yaskawa. They provide a perfect basis for an easy development of a robot welding work area and consist of a high-performance power source, a reliable wire feed assembly and robust torches. They offer preconfigured premium welding technology with an attractive package price.

### **Proven standard configurations.**

Our practical packages are perfectly tuned to the robots, from the power source through to the torches. This enables integrators and system providers an easy, secure and economical building of the robot welding working area. Every standard package can easily be customised with many different additional components.

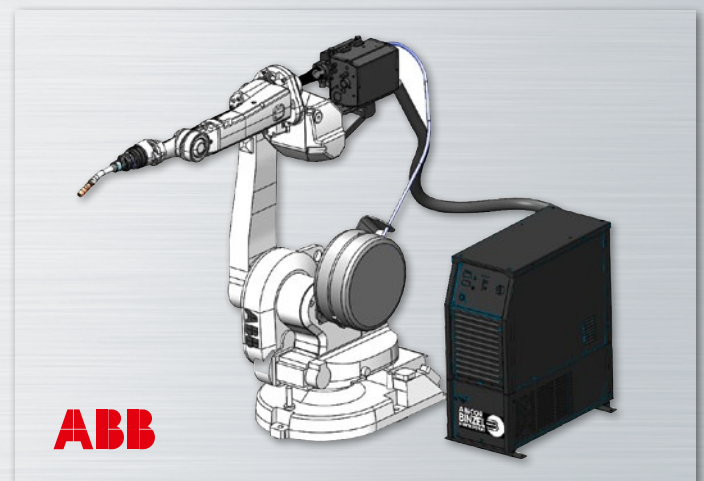
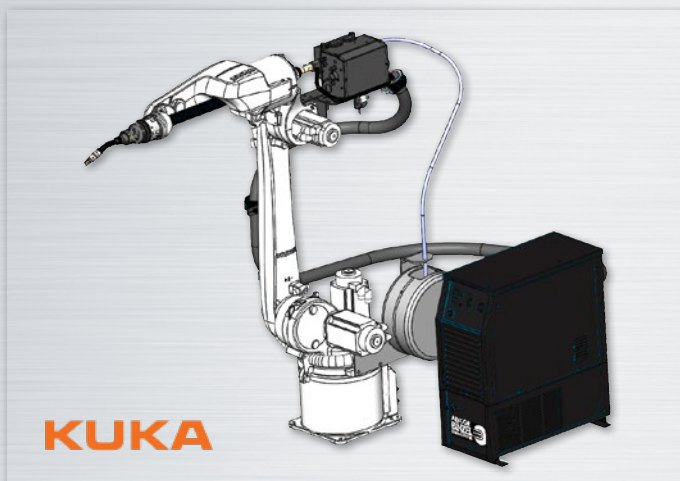
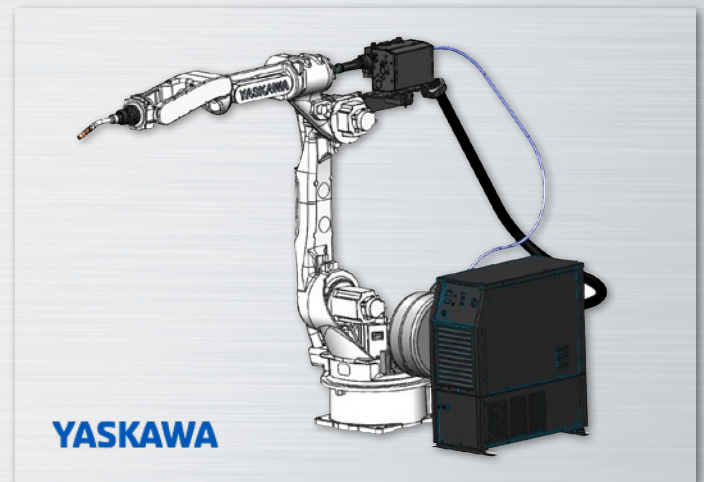
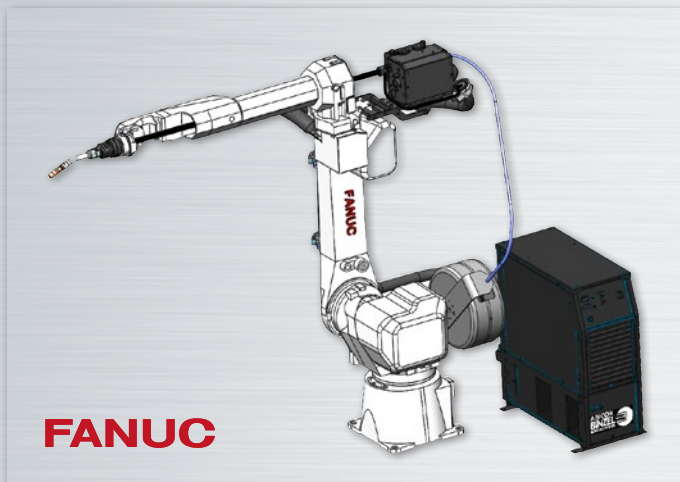
### **Practical additional services.**

If required, ABICOR BINZEL supports their clients with additional services. These suffice from the initial installation and the welding technical assistance for system configuration to the supporting of your processes through the ABICOR BINZEL Innovation Technology Center (ITC).



# Fits perfectly! Proven solutions for selected robots.

Each standard configuration consists mainly of the iROB power source, an ABIROB torch system and an iROB feed wire feed system.



## Smartly calculated.

Our "ready to weld" packages offers numerous advantages and reduce costs already at the planning stage:

- **Easy planning:** all components are optimal compatible to themselves and the robot
- **Less interfaces:** one contact partner starting with consultation, through technology up to service
- **Including 100% Tests:** all packages will be fully tested before their delivery
- **Several applications:** the packages can be supplemented with other components individually
- **Quick availability:** Delivery usually within 2 to 3 weeks from order
- **Premium quality:** all components fulfil the high quality standards of ABICOR BINZEL

# Optimally tuned! From the power source to the power nozzle.

Power source iROB Pulse 500



## ■ Two performance strengths

- iROB Pulse 400 / 400 MV:  
maximum welding current 400 A
- iROB Pulse 500:  
maximum welding current 500 A

## ■ Easy to use

iROB Control: easy, icon-based control prevents operating errors

## ■ Liquid or air cooling

- Air-cooled models ideally suited to thin plate welding.
- Water-cooled models are specifically designed for high performance welding with high heat emission

## ■ Intermediate hose package

Safe power transmission through large wire cross section in water-cooled or air-cooled design

## ■ Integrated quality management

Continuous monitoring f.e. of welding voltage, wire feed speed and gas quantity

## ■ Flexible interfaces

Three interface applications are available: classical analog digital versions or digital field bus systems (optional)



## **iROB Power source: the versatile welding unit for robots.**

The strong robot power source iROB is the perfect base for automated MIG / Mag welding processes. Its reliable performance ensures the smooth interplay of robotics, welding torches, and peripheral devices. iROB works with the extremely robust pulse technique to guarantee an exceptionally long duty cycle with consistently good welding results.



### Wire feed iROB Feed



### ABIROB® W600



#### ■ Consistent wire feed

iROB feed ensures the precise and reliable wire feeding in automated continuous operation by four driven wheels

#### ■ Individual mounting platform

The iROB bracket modules are specially configured for the respective installation situation of the robots

#### ■ Exact wire feed hose

The sturdy feed hoses are also suitable for extreme bending angles. Its length is matched to the respective robot

#### ■ Three torch neck variants

- ABIROB® W: with liquid cooling, power range up to 600 A
- ABIROB® A: with air cooling, power range up to 500 A
- ABIROB® G: with air cooling, compatible with asian CO<sub>2</sub> torches, power range up to 500 A

#### ■ Original wear parts

Each package is equipped with a welding ready set of original ABICOR BINZEL wear parts (wire diameter 1.2 mm)

#### ■ Needs based robot mounting

- iCAT: integrated hollow shaft crash protection with high repeatability for liquid- and air-cooled torches
- iCAT mini: integrated and compact hollow shaft crash protection with high repeatability with G interface for air cooled torches (ideal for asian market)
- iSTM: solid robotic mount without shut-off protection for hollow shaft robots with integrated collision software

#### ■ Robust hose packages

The durable hose packages (air- and liquid-cooled) are specially designed for continuous use in automation

### Wire feeder system iROB: reliable Wire feeding in continuous operation.

The wire feed system consists of the powerful wire feed of iROB, the custom-fit mounting platform iROB bracket, as well as the harmonised wire delivery hose.

### Welding torch system ABIROB: robust and high-performance welding technology.

The MIG/MAG welding torches of ABIROB series with an innovative interface design ensure a continuously precise welding process. Its modular design allows a quick exchange of the torch neck and hose package components with the same TCP (tool center point) – without additional programming.

# Just added! Additional options for our "ready-to-weld" packages.

Fits perfectly!



### Electronic gas management system

Significantly reduced protective gas consumption, increased weld seam quality.



### Seam tracking sensors

Increased process reliability for all common seam shapes and surfaces.



### Basket coil carrier

Optimal basis for reliable wire supply.



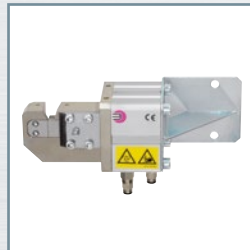
### Wire conveyor system MasterLiner

Uniform wire feeding even over longer distances.



### Torch cleaning station

Automatic cleaning for better welding results and increased plant availability.



### Wire cutting device

Accurate and long-lasting device for permanently ensuring of the correct TCP.



### Adjusters

Simple checking and setting of the TCP of the welding torch outside the welding cell.



### Wire end sensor

Provides timely information on used wire coils and wire barrels and thus protection against plant stoppage.

Include additional components easily ...

### Standard packages can be upgraded on demand.

Our "ready-to-weld" standard packages can be simply expanded and adapted to special production requirements. ABICOR BINZEL offers a wide range of perfectly matched components.

# Optimize processes! Expert services for optimal automation.



## Simply safe automation...

**Simple installation and commissioning.** Depending on the requirements, ABICOR BINZEL supports you by telephone or on site during fitting and installation of "ready to weld" packages. This speeds up commissioning and ensures optimal integration.

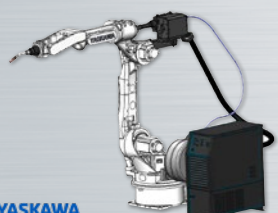
**Holistically optimize welding processes.** Experienced specialists fully support the configuration of the system for an optimal welding process. For example, to find and adapt the optimum torch setting angle or adapting welding parameters and characteristic curves. Furthermore our experts of the Innovation & Technology Center (ITC) can help you with your questions regarding raw materials, part geometries and suitable welding technologies.

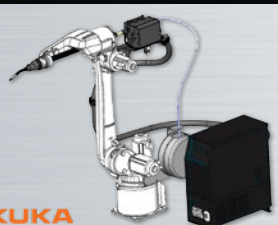


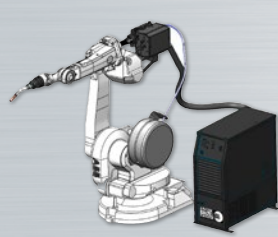
**“Ready-to-weld” standard packages.**

The “ready-to-weld” packages are available as standard configurations for the following hollow-shaft welding robots:

|                                                                                                       |                                 |                                                                   |
|-------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------|
|  <p><b>FANUC</b></p> | <b>Robot type</b>               | <b>Package Part-No.</b>                                           |
|                                                                                                       | <b>FANUC ARC Mate 100iC/12</b>  | PAK.0001.1 – 400 A air-cooled<br>PAK.0002.1 – 500 A liquid-cooled |
|                                                                                                       | <b>FANUC ARC Mate 120iC/12L</b> | PAK.0003.1 – 400 A air-cooled<br>PAK.0004.1 – 500A liquid-cooled  |

|                                                                                                         |                       |                                                                   |
|---------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------|
|  <p><b>YASKAWA</b></p> | <b>Robot type</b>     | <b>Package Part-No.</b>                                           |
|                                                                                                         | <b>Yaskawa MA1440</b> | PAK.0009.1 – 400 A air-cooled<br>PAK.0010.1 – 500 A liquid-cooled |
|                                                                                                         | <b>Yaskawa MA2010</b> | PAK.0011.1 – 400 A air-cooled<br>PAK.0012.1 – 500 A liquid-cooled |

|                                                                                                       |                             |                                                                   |
|-------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------|
|  <p><b>KUKA</b></p> | <b>Robot type</b>           | <b>Package Part-No.</b>                                           |
|                                                                                                       | <b>KUKA KR5-2 arc HW</b>    | PAK.0013.1 – 400 A air-cooled<br>PAK.0014.1 – 500 A liquid-cooled |
|                                                                                                       | <b>KUKA KR 16 L8 arc HW</b> | PAK.0015.1 – 400 A air-cooled<br>PAK.0016.1 – 500 A liquid-cooled |

|                                                                                                       |                              |                                                                   |
|-------------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------|
|  <p><b>ABB</b></p> | <b>Robot type</b>            | <b>Package Part-No.</b>                                           |
|                                                                                                       | <b>ABB IRB 1600ID</b>        | PAK.0005.1 – 400 A air-cooled<br>PAK.0006.1 – 500 A liquid-cooled |
|                                                                                                       | <b>ABB IRB 1660ID</b>        | PAK.0017.1 – 400 A air-cooled<br>PAK.0018.1 – 500 A liquid-cooled |
|                                                                                                       | <b>ABB IRB 2600ID-8/2.00</b> | PAK.0007.1 – 400 A air-cooled<br>PAK.0008.1 – 500 A liquid-cooled |

Of course, we are configuring individual “ready-to-weld” packages for other robot types.  
**Please contact us!**



Alexander Binzel Schweisstechnik GmbH & Co. KG  
 Kiesacker · 35418 Buseck · GERMANY  
 Phone: +49 (0) 64 08 / 59-0  
 Fax: +49 (0) 64 08 / 59-191  
 E-mail: info@binzel-abicor.com

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

