

ROBOTICS

## IRB 6660RX, IRB 7600RX, & IRB 6650SRX

### Rotational 7th axis robots for interpress automation



The benefits of traditional robot automation are enhanced by the addition of a rotational 7th axis. Thanks to 7th axis, the robot keeps the orientation of the part when transferring it from a press to the next. This entails lower inside-press time occupation and better overlapping between loading and unloading robots.

#### Transfer without part rotation

The parts are transferred in a smooth linear trajectory without the vibration that can be generated by the 180° rotation when using 6 axis robots. Additionally, in case of new lines, as consequence of not having to rotate the part, the inter-press distance can be reduced, minimizing the press-shop floor occupation space.

#### Rotational 7th axis

The added rotational 7th axis does not consist of a simple translation of the robot 6th axis, but a real coordinated additional axis which maximizes robot versatility at minimum cost, providing maximum operation flexibility. The servo motor unit is fully synchronized with the other 6 axes of the robot.

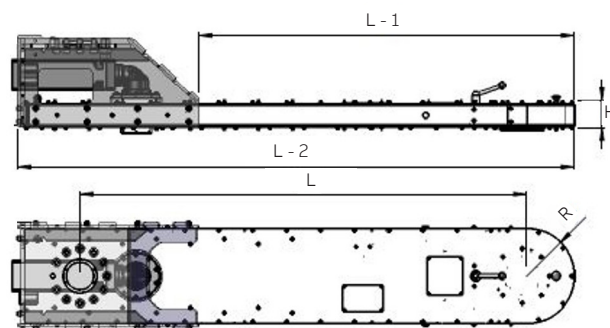
#### User friendly programming interface

IRB6 6660RX, IRB 6650RX and IRB 7600RX are programmed in the same way as standard 6-axis robots. Furthermore, same as 6th axis robots, they can be programmed with the well-established StampWare platform. StampWare wizard makes programming extremely easy and user-friendly. StampWare is currently running in more than 1000 robot units of 6 and 7 axes, worldwide.

#### Optimized performance with Carbon Fiber Tooling

ABB Carbon Fiber Tooling is the right complement for a smooth part transfer, thanks to the stiffness/weight ratio of Carbon fiber components.

Key figures			
Robot	IRB 6660RX	IRB 6650SRX	IRB 7600RX
Handling capacity	70 kg	70 kg	80 kg
Reach (m)	3.10 + 1.45	3.50 + 1.45	3.50 + 1.45
Linear 7th Axis			
L	1450 mm		
L - 1	1104.5 mm		
L - 2	1105 mm		
H	70 mm		
R	140 mm		



### IRB 6660RX. The combination of the 6 and 7-axis rotations results in linear trajectory

