

ROBOTICS

IRB 7710-SFX

High Speed Solution for Press Automation



Key Benefits

- Productivity: ABB invented and introduced the first dedicated linear axis for press automation. This 3rd generation is the fastest ever, allowing for press line speeds of up to 15 SPM or 900 parts per minute.
- 2. Flexibility: Besides the linear 7-Axis, the IRB 7710-SFX comes with additional tilting and side-shifting as options, providing all the flexibility needed in modern press shops.
- **3. Energy savings:** With the OmniCore controller and its regenerative power technology, the robot can now provide energy savings of up to 30% relaying energy back to the grid .
- Easy-to-Use: The graphical capabilities of the new Teach-Pendant together with the Application Software make it a breeze to learn.

Dynamic Model

The IRB 7710-SFX leverages on the power of OmniCore and an integrated dynamic model to ensure all axes are operating for optimal speed and lifetime.

Part Transfer

A linear optimized path, from pick to drop. The parallel transport eliminates the need to rotate the part between presses, allowing for reduced vibrations, press-topress distances and shorter cycle times.

The optional integrated side-shifting and tilting units provides additional flexibility without penalizing the cycle time.

Efficient Modular Design

The IRB 7710-SFX has a modular design, allowing for 4 configurations:

- 6+1 Axes: IRB 7710 + LinAx
- 6+3 Axes:
 - IRB 7710 + LinAx + 2x Tilting Units
 - IRB 7710 + LinAx + 2x Side-Shifting Units
- 6+5 Axes: IRB 7710 + 2x Tilting + 2x Side-Shifting

IRB 7710-SFX

High Speed Solution for Press Lines



6 + 3 Axes 6 + 5 Axes	R + LinAx + 2x Side-Shifting	
	R + LinAx + 2x Tilting + 2x Side-Shifting	
Reach		
Base-Robot IRB 7710	3.3 m	
LinAx SFX	1.85 m	
Total Reach IRB 7710-SFX	5.15 m	
Payloads		
Base-Robot IRB 7710 Payload	360 kg	
Base-Robot IRB 7710 Wrist Torque	3,037 Nm	
Overall Payload IRB 7710-SFX	140 kg (Tooling + Part)	

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