IRB 6640 Foundry Prime robot is designed for washing and cleaning applications. It is based on proven components from earlier generations, to ensure ease of maintenance and exchangeability as well as high up time.

Upper arm extenders and different wrist modules allow customization to each process. As the robot can bend fully backwards, the working range is greatly extended allowing it to fit well into dense production lines. The robot is available with Foundry Prime protection suitable for harsh working environments.

**Higher payload**
The maximum payload is 235 kg, which makes it suitable for a variety of heavy material handling applications. The robot also follows the tradition of having outstanding inertia capabilities, which makes it possible to handle heavy and wide parts. ABB robots are also known for their collision resistance.

**Easy maintenance**
Simplified fork lift pockets and more space in the robot foot make the robot easier to maintain.

**Increased path performance**
The IRB 6640 is compatible with second generation TrueMove® and QuickMove®. The software allows for more accurate motion in shorter programming times for improved processes. The software also monitors internal robot loads which reduces the risk of overload and increases the robot’s life cycle.

**Passive safety features**
Passive safety features include load identification, movable mechanical stops, Electronic Positions Switches (EPS) and a stiff steel structure.

**Main Applications**
- High pressure cleaning
- High pressure deburring
- Immersion Cleaning
- Water jet cleaning
- Washing
Position repeatability  Path repeatability
IRB 6640-235/2.55  0.05 mm  0.66 mm
IRB 6640-185/2.8  0.05 mm  0.74 mm

Technical information

Electrical Connections
Supply voltage 200-600 V, 50/60 Hz
Power consumption ISO-Cube 2.7 kW

Physical
Robot base 1107 x 720 mm
Robot weight (without DressPack)
IRB 6640-235/2.55  1310 kg
IRB 6640-185/2.8  1405 kg

Environment
Ambient temperature for mechanical unit
During operation +5°C (41°F) to +50°C (122°F)
During transportation and storage -25°C (13°F) to +55°C (131°F)
During short periods (max. 24 h) Up to +70°C (158°F)
Relative humidity Max. 95%
Noise level Max 71 dB (A)
Safety Double circuits with supervisions, emergency stops and safety functions. 3-position enable device

Emission  EMC/EMI shielded

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