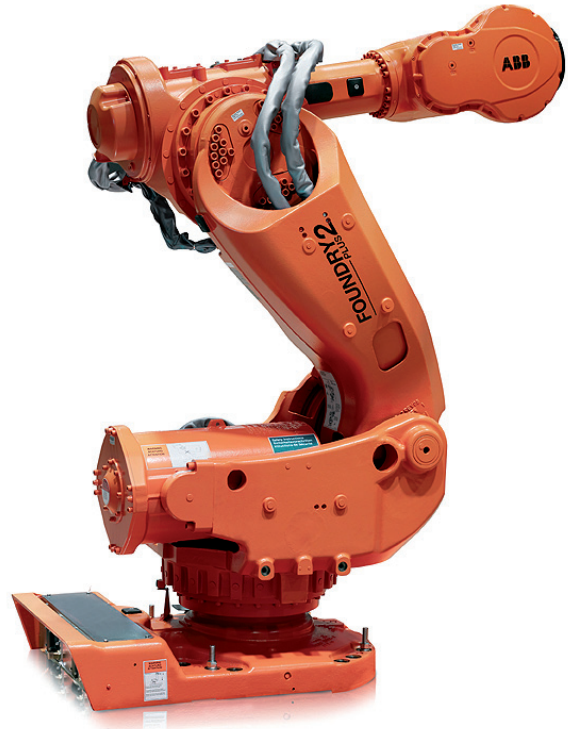# Foundry Plus 2
Foundry robot protection

Main Applications
Die casting
Sand casting
Forging
Machining
Ladling
Skimming

Foundry Plus 2
– Protects robots in foundry environments
– IP67 compliant
– Withstands high-pressure steam washing
– Less repairs and longer lifetime

Foundry environments are extremely tough on equipment, not least industrial robots. Coolants, lubricants and metal spits wear the robots far beyond the normal. This increases the risk of downtime, repairs and reduced service life – at least unless you take action against it.

Sealed from damp and particles
Foundry Plus 2 is an optional protection system that makes ABB robots better sealed from damp and particles than standard robots.

For example, it features improved sealings to prevent penetration into electrical compartments, mechanical details designed to the same standard, a corrosion-resistant coating under a layer of a two-component epoxy paint, well proven connectors, application of rust preventives and additional protection of cabling and electronics. Leather guard for cables is available as option for environments with aluminium and other aggressive spits.

The entire robot is IP67 compliant
ABB Foundry Plus 2 makes your entire robot IP67 compliant, from base to wrist meaning that the electrical compartments are sealed against liquid and solid contaminants. But it takes more than IP67 to ensure long-term trouble-free operation and long service life.
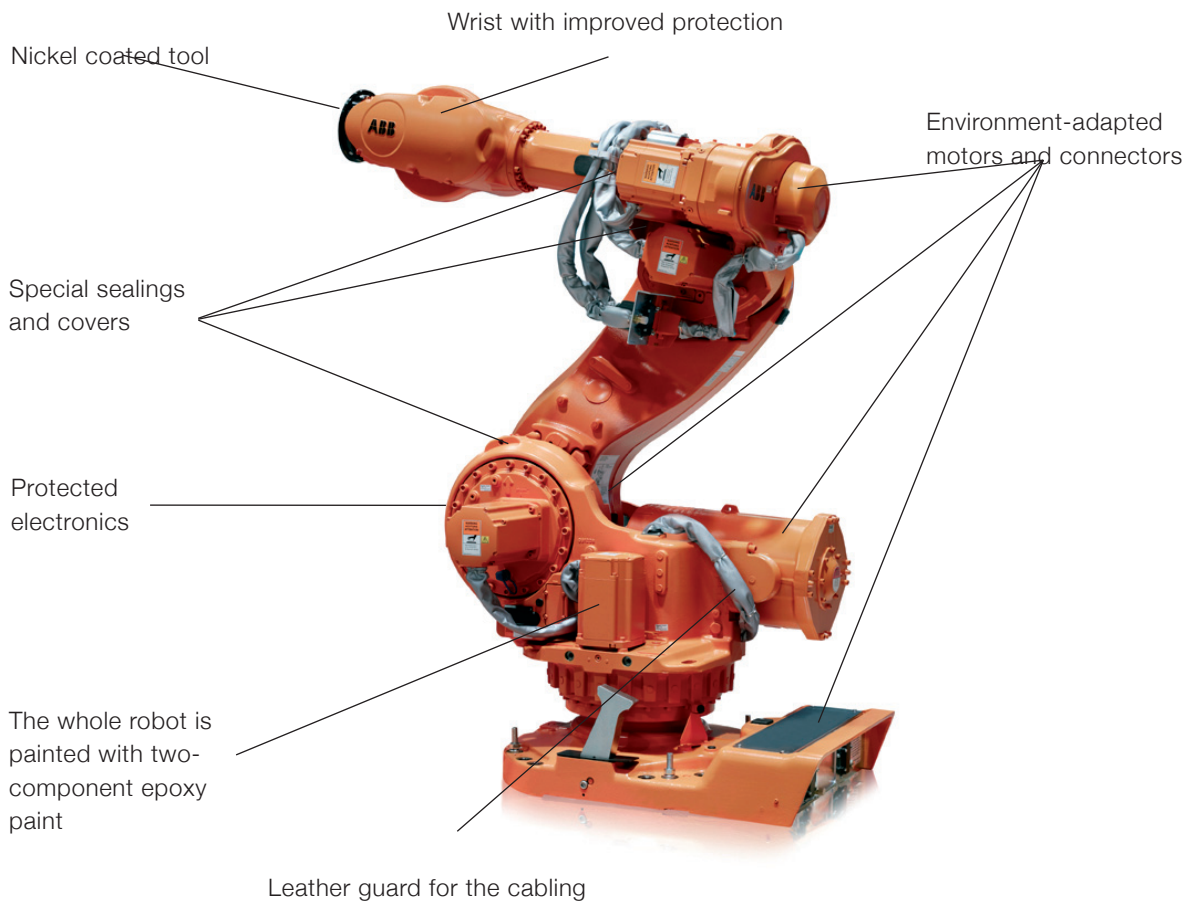
ABB Foundry Plus 2 robots are unique due to their improved resistance to corrosion and capability to withstand high-pressure steam washing. No other foundry robots are up to this task today.

Protection that pays off quickly
It pays off to invest in Foundry Plus. Just as an example, let us look at the fairly common problem of motor failures due to the lack of foundry protection at the base.

The material and repair costs alone may well amount to 2,000–2,500 Euro. Add 12–24 hours' unplanned downtime, and you get a good idea of the total cost. ABB Foundry Plus 2 significantly reduces the risk of such a failure.

Power and productivity
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Foundry Plus 2

Wrist with improved protection

Nickel coated tool

Environment-adapted
motors and connectors

Special sealings
and covers

Protected
electronics

The whole robot is
painted with two-
component epoxy
paint

Leather guard for the cabling

Foundry Plus 2 Robots

- IRB 140
- IRB 1600
- IRB 2400 *)
- IRB 2600
- IRB 4400 *)
- IRB 4600
- IRB 6620
- IRB 6640
- IRB 6650S
- IRB 6660-205/1.9
- IRB 7600

*) without nickel coated tool flange

Selected Foundry Plus 2 features:

- Improved sealing to prevent penetration into cavities to secure IP67
- Additional protection of cabling and electronics
- Special covers protecting cavities
- Well-proven connectors
- Nickel coated tool flange
- Rust preventives on screws, washer and unpainted/machined surfaces
- Extended service and maintenance program
- The Foundry Plus 2 robot can be cleaned with appropriate washing
  equipment
- Foundry cable guard protection (option)

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