

Engineered to reach further

M-1000/550F-46A Robot



INCREASED PRODUCTIVITY

Achieve faster cycle times with best-in-class speed for heavy-payload robots



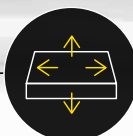
HANDLING OF BIG PARTS

Safely manage big die-cast components and large workpieces thanks to a 550 kg payload and ultra-strong wrist



EXTENDED REACH

Access deep die-casting presses and large moulds with an extra-long 4.6 m reach



MINIMISED FLOOR SPACE

Compact serial-link design offers a wide motion range without expanding your footprint



HIGH OPERATIONAL FLEXIBILITY

Easily adapt to multiple applications – from giga casting to battery handling and beyond

Wide range of J3 arm motion



Designed for large scale casting and beyond

- **Engineered for demanding applications:** Highly suitable for automotive die-casting, large aluminium body structures, battery unit handling, and other heavy-payload, long-reach material handling tasks across industries.
- **Built for any environment:** IP54 body and IP67 wrist protection ensure reliable performance in harsh conditions.
- **New era of powerful performance:** Enjoy intelligent features, reduced energy consumption and advanced cybersecurity thanks to the R-50iA Robot Controller.

M-1000/550F-46A



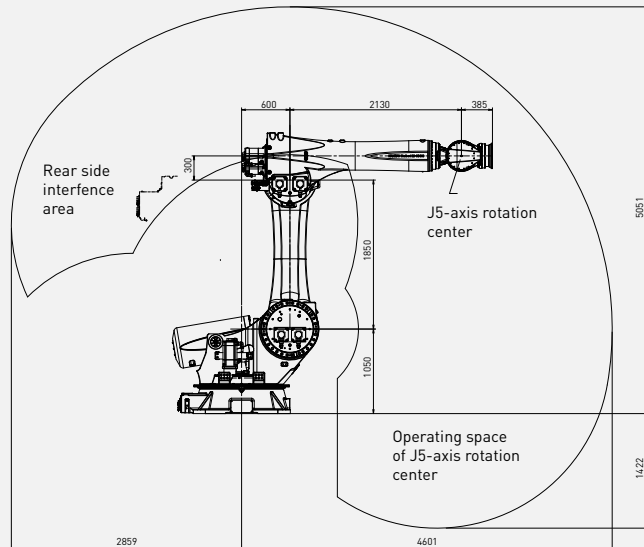
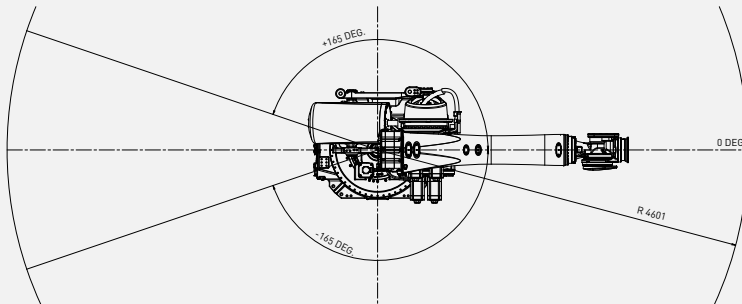
Max. load capacity
at wrist: **550 kg**



Max. reach:
4601 mm

Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm ²)	J5 Moment/ Inertia (Nm/kgm ²)	J6 Moment/ Inertia (Nm/kgm ²)
			J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6			
6	± 0.1	5800	360	145	330	720	240	720	75	60	60	85	85	115	5280/1100	5280/1100	2520/750

Working range



Robot

M-1000/550F-46A

Robot footprint [mm]	1350 x 1210
Mounting position Floor	●
Mounting position Upside down	-
Mounting position Angle	-



Controller

R-50iA

Mate cabinet	-
A-cabinet	●
B-cabinet	○
iPendant Touch	●

Electrical connections

Voltage 50/60Hz 3phase [V]	380-575
Voltage 50/60Hz 1phase [V]	-
Average power consumption [kW]	8

Integrated services

Integrated signals on upper arm In/Out	8/8
Integrated air supply	2

Environment

Acoustic noise level [dB]	72
Ambient temperature [° C]	0-45

Protection

Body standard/optional	IP54
Wrist & J3 arm standard/optional	IP67

● standard ○ on request - not available [] with hardware and/or software option