

Fast, strong and very agile

FANUC



INTEGRATED SERVICES
MOTOR, I/O AND
COMPRESSED AIR
SYSTEM INTEGRATED
IN THE ARM

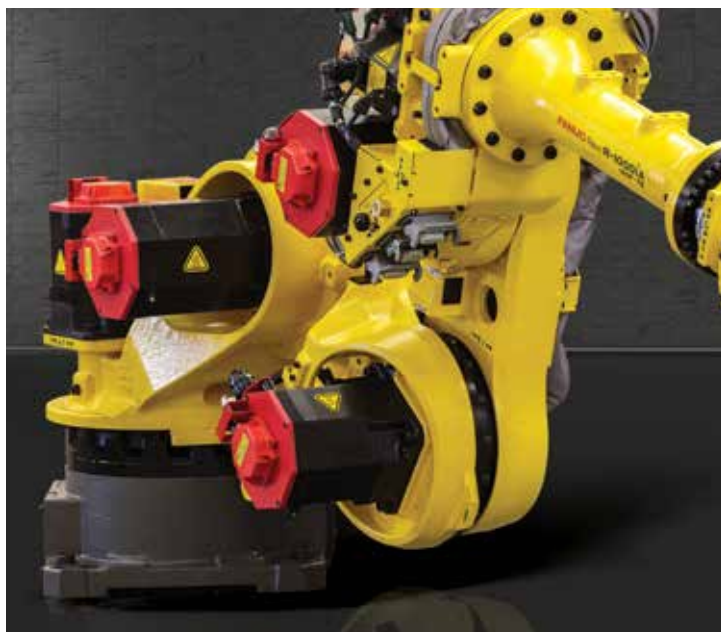


STRONG ARM
120 KG MAX
PAYLOAD



WIDER RANGE OF MOTION
INCREASED RANGE OF
MOTION DUE TO SEVENTH
AXIS IN THE ARM

R-1000iA/120F-7B



Flexibility regardless of the available workspace:

- enhanced, compact mechanical design with wider range of motion due to added seventh axis in the second arm
- variable arm size which can be shortened by 400 mm to easily operate in narrow spaces while retaining full operating radius
- highly suitable for spotwelding and material handling
- enhanced payload capacity of 120 kg
 - horizontal reach: 2230 mm
 - vertical reach: 3779 mm
- integrated services in the arm prevent interference contours

R-1000iA/120F-7B



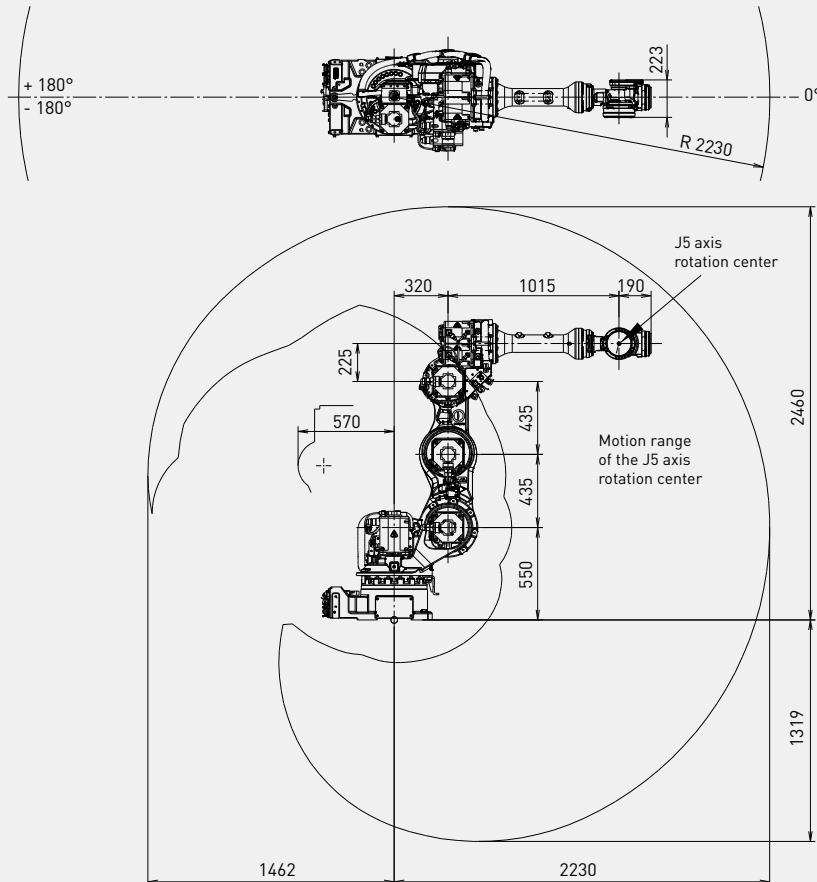
Max. load capacity
at wrist: **120 kg**



Max. reach:
2230 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	E1	J1	J2	J3	J4	J5	J6	E1			
7	± 0.03*	790	360	200	385	720	250	720	225	130	110	120	170	170	250	130	800/71	800/71	360/38

Working range



Robot

R-1000iA/120F-7B

Robot footprint [mm]	605 X 450
Mounting position Floor	•
Mounting position Upside down	•
Mounting position Angle	-



Controller

R-30iB Plus

Open air cabinet	-
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]	2.5

Integrated services

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

Environment

Acoustic noise level [dB]	< 70
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

*Based on ISO9283