

# Where hygiene meets high performance

## LR Mate/10-11A Food/Clean Robot



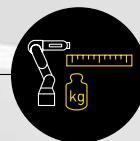
### LOW MAINTENANCE

Integrated air hose, solenoid valves, and I/O cables reduce wear and simplify upkeep



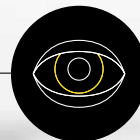
### HYGIENIC & DURABLE

IP67-rated with food-grade grease and antirust coating for safe, long-lasting operation



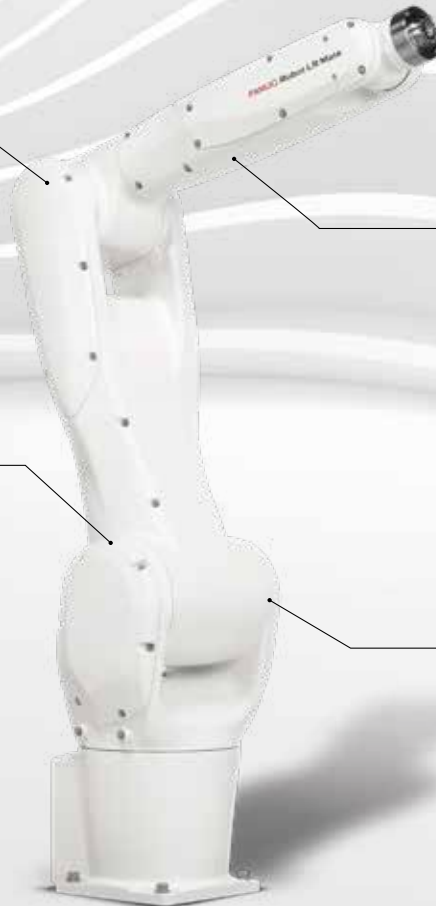
### COMPACT POWER

High 10 kg payload and 1101 mm reach in a sleek, space-saving design



### VISION-READY PRECISION

Ideal for high-speed, vision-based pick-and-place tasks with maximum accuracy



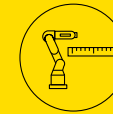
### Designed to meet the highest standards of cleanliness and efficiency

- **Optimised for high-speed operation:** Boost productivity with fast, reliable performance.
- **Cleanroom certified:** ISO Class 4 compliant and IP67-rated—suitable for primary food handling and clean environments.
- **Smooth design:** Minimise interference with peripheral devices and enhance uptime.
- **New era of powerful performance:** Enjoy intelligent features, reduced energy consumption and advanced cybersecurity thanks to the R-50iA Robot Controller.

# LR Mate/10-11A Food/Clean



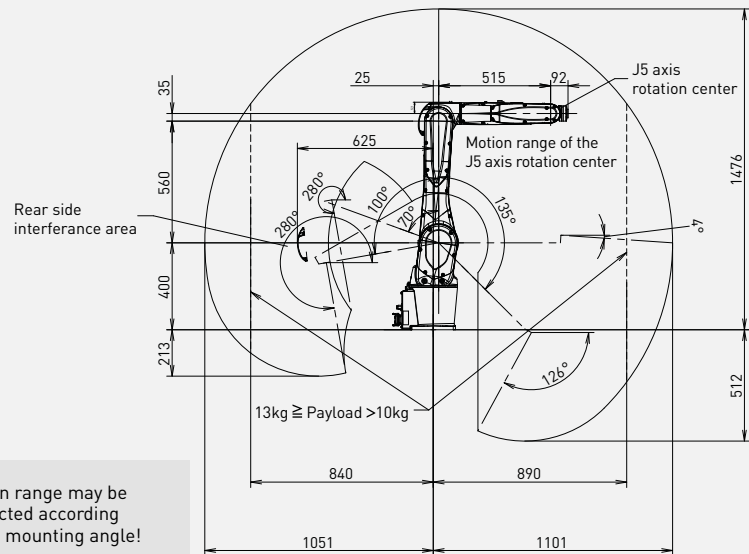
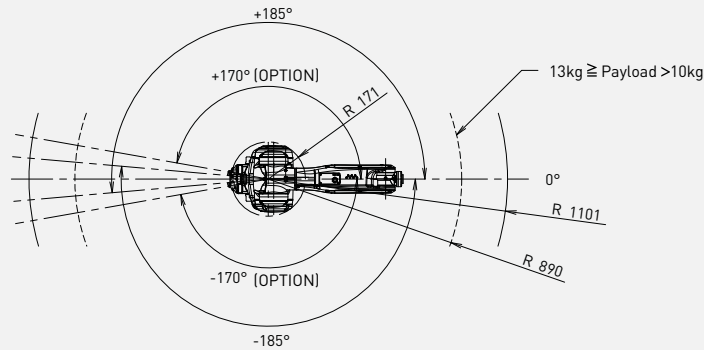
Max. load capacity  
at wrist: **10/13 kg** \*1



Max. reach:  
**1101 mm**

Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )
			J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6			
6	± 0.01*	46	370	235	421	380	250	720	300	230	340	500	400	800	21.0/0.77	21.0/0.77	10.0/0.28

## Working range



Motion range may be restricted according to the mounting angle!



## Robot

## LR Mate/10-11A Food/Clean

Robot footprint [mm]	204 x 204
Mounting position Floor	•
Mounting position Upside down	•
Mounting position Angle	•



## Controller

## R-50iA

Mate cabinet	•
A-cabinet	-
B-cabinet	-
C-cabinet	-
iPendant Touch	•

## Electrical connections

Voltage 50/60Hz 3phase [V]	-
Voltage 50/60Hz 1phase [V]	200-230
Average power consumption [kW]	0.5

## Integrated services

Integrated signals on upper arm In/Out	6/2
Integrated air supply	1

## Environment

Acoustic noise level [dB]	< 70
Ambient temperature [° C]	0-45

## Protection

Body standard/optional	IP67
Wrist & J3 arm standard/optional	IP67
Clean room (ISO Class 4)	•

\*1) optional high payload mode = max. 890 mm operating space

• standard    ◦ on request    - not available    ( ) with hardware and/or software option

\*Based on ISO9283