

# FANUC Robot M-20iB



## FEATURES

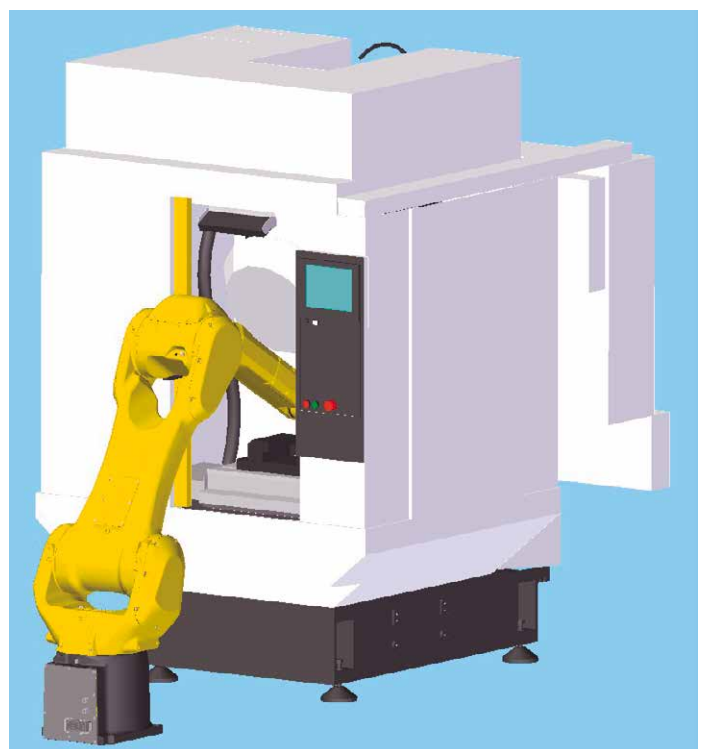
FANUC Robot M-20iB is a middle size handling robot with 25 to 35kg payload capacity.

- Three models are available to meet a variety of applications.
  - FANUC Robot M-20iB/25  
This is a high speed general-purpose robot suitable for various applications, such as handling, assembling, and de-burring.
  - FANUC Robot M-20iB/25C  
This is a robot available for clean environment suitable for handling materials requiring cleanliness, such as food and pharmacy.
  - FANUC Robot M-20iB/35S  
This is a compact robot suitable for working in a small space.
- Cables and motors are not exposed. IP67 sealed structure can adapt to various environment.
- Connectors on the user interface don't protrude and the cables from them can be tightly routed along the arm.
- The slim arm does not interfere with peripheral equipment.
- Advanced intelligent functions are available as an option, such as *i*RVision (integrated vision).

## Application Examples



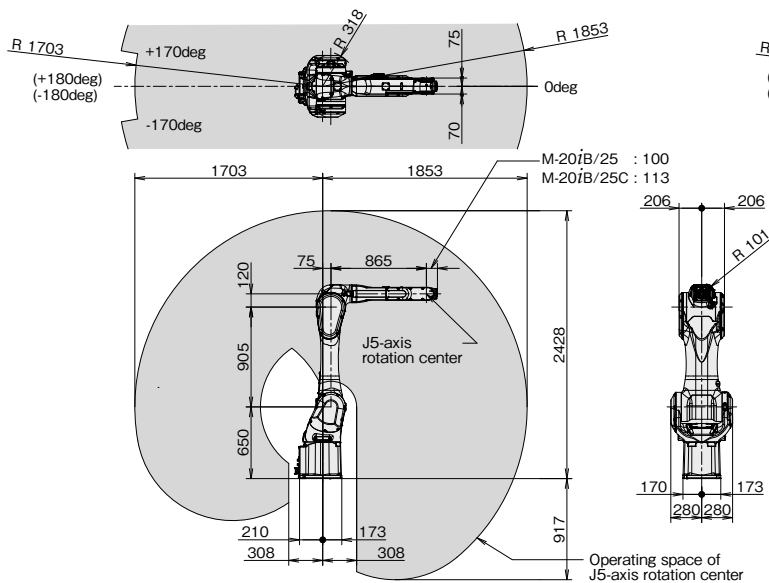
Vegetables Bin Picking



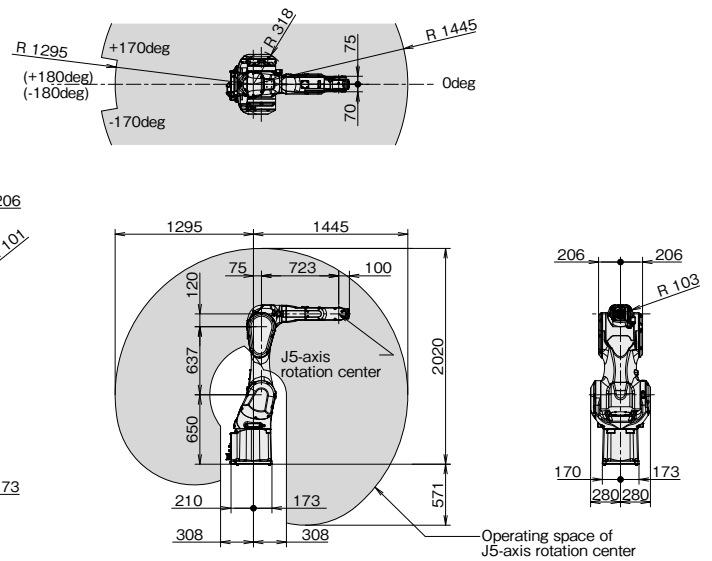
Loading/Unloading for Machine tools

## Operating space

### M-20iB/25, /25C



### M-20iB/35S



## Specifications

Model		M-20iB/25, /25C	M-20iB/35S
Type		Articulated Type	
Controlled axes		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		1853 mm	1445 mm
Installation		Floor, Upside-down, Angle	
Motion range (Maximum speed) (Note 1, 2)	J1 axis rotation	340°/360° (option) (205°/s) 5.93 rad / 6.28 rad (option) (3.58 rad/s)	
	J2 axis rotation	240° (205°/s) 4.19 rad (3.58 rad/s)	
	J3 axis rotation	447.8° (260°/s) 7.82 rad (4.54 rad/s)	413.7° (260°/s) 7.22 rad (4.54 rad/s)
	J4 axis wrist rotation	400° (415°/s) 6.98 rad (7.24 rad/s)	
	J5 axis wrist swing	290° (415°/s) 5.06 rad (7.24 rad/s)	260° (415°/s) 4.54 rad (7.24 rad/s)
	J6 axis wrist rotation	540° (880°/s) 9.42 rad (15.36 rad/s)	
Max. load capacity at wrist		25 kg	35 kg
Allowable load moment at wrist	J4 axis	51.0 N·m	
	J5 axis	51.0 N·m	
	J6 axis	31.0 N·m	
Allowable load inertia at wrist	J4 axis	2.20 kg·m <sup>2</sup>	
	J5 axis	2.20 kg·m <sup>2</sup>	
	J6 axis	1.20 kg·m <sup>2</sup>	
Repeatability (Note 3)		± 0.02 mm	
Mass (Note 4)		210 kg	205 kg
Installation environment		Ambient temperature : 0 to 45°C Ambient humidity : Normally 75 %RH or less (No dew nor frost allowed) Short term Max.95 %RH or less (within one month) Vibration acceleration : 4.9m/s <sup>2</sup> (0.5G) or less	

Note 1) In case of angle mounting, J1 and J2 axis motion range are restricted.

Note 2) During short distance motions, the axis speed may not reach the maximum value stated.

Note 3) Compliant with ISO9283.

Note 4) Without controller.

Note 5) White paint, antirust surface and food grade grease are applied to the clean type.

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