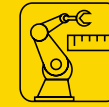


# M-20iA/20T (Top mount, Hollow wrist)



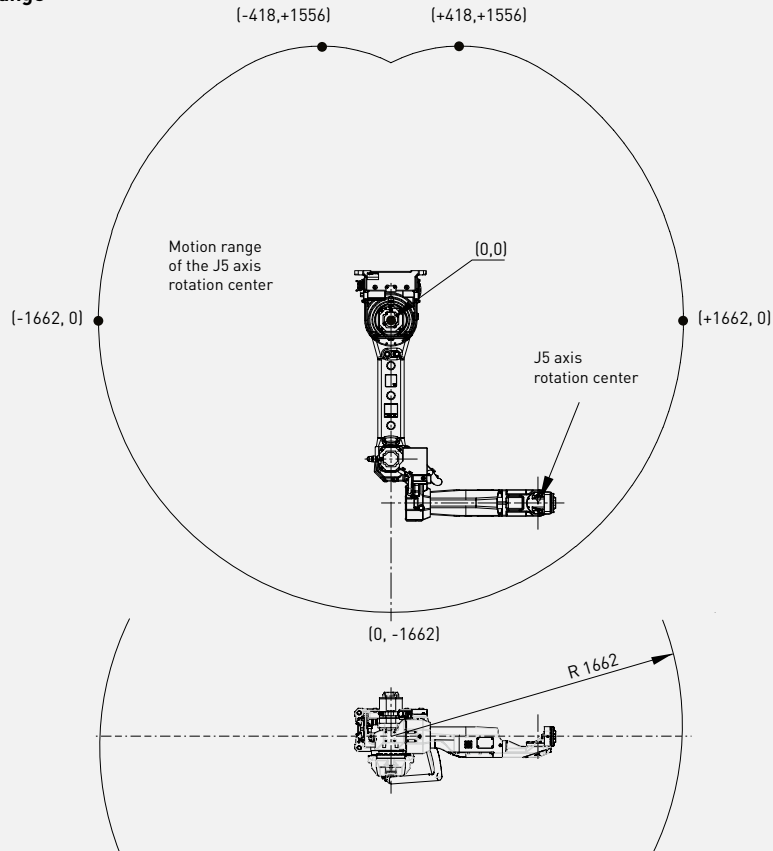
Max. load capacity  
at wrist: **20 kg**



Max. Reach:  
**1662 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	± 0.08	185	*1)	300	586	400	360	900	*1)	175	180	360	360	550	44/1.04	44/1.04	22/0.28

## Working Range



### Robot

	M-20iA/20T
Robot footprint [mm]	410 x 245
Mounting position Floor	-
Mounting position Upside down	●
Mounting position Angle	●



### Controller

	30iB
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]	1

### Integrated services

Integrated signals on upper arm In/Out	8/8
Integrated air supply	1

### Environment

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

### Protection

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

\*1) depending on rail specification

● standard ○ on request - not available ( ) with hardware and/or software option

# M-20iA/20MT (Top mount, High inertia version)



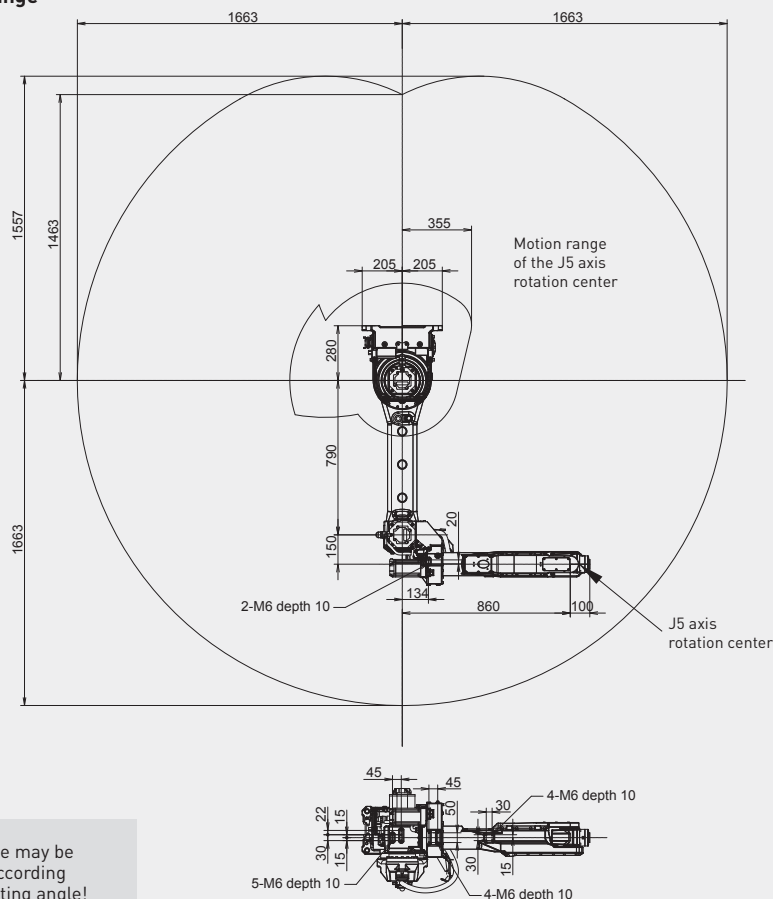
Max. load capacity  
at wrist: **20 kg**



Max. Reach:  
**\*1)**

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	± 0.08	185	*1)	300	586	400	280	900	*1)	175	180	405	405	615	45.1/2.01	45.1/2.01	30.0/1.01

## Working Range



### Robot

	M-20iA/20MT
Robot footprint [mm]	410 x 245
Mounting position Floor	-
Mounting position Upside down	●
Mounting position Angle	●



### Controller

	30iB
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]	1

### Integrated services

Integrated signals on upper arm In/Out	8/8
Integrated air supply	1

### Environment

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

### Protection

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

\*1) depending on rail specification

● standard ○ on request - not available ( ) with hardware and/or software option

# M-20iA/35MT (Top mount, High inertia version)



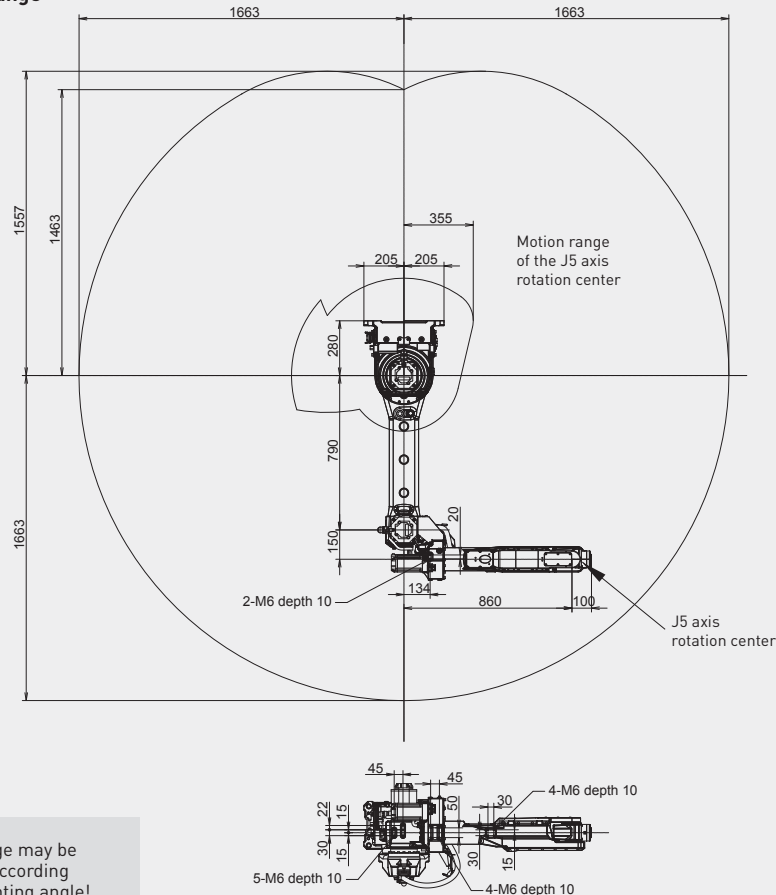
Max. load capacity  
at wrist: **35 kg**



Max. Reach:  
**\*1)**

Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range (°)						Maximum speed (°/s)						J4 Moment/ Inertia (Nm/kgm²)	J5 Moment/ Inertia (Nm/kgm²)	J6 Moment/ Inertia (Nm/kgm²)
			J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6			
6	± 0.08	252	370	260	461,0	400	280	900	180	180	200	350	350	400	110/4	110/4	60.0/1.5

## Working Range



Motion range may be restricted according to the mounting angle!



### Robot

	M-20iA/35MT
Robot footprint [mm]	410 x 245
Mounting position Floor	-
Mounting position Upside down	●
Mounting position Angle	●



### Controller

	30iB
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]	1

### Integrated services

Integrated signals on upper arm In/Out	8/8
Integrated air supply	1

### Environment

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

### Protection

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

\*1) depending on rail specification

● standard ○ on request - not available ( ) with hardware and/or software option