

# FANUC

## Precise and fast compact handling



**FULLY INTEGRATED  
CABLE MANAGEMENT**  
to eliminate interference



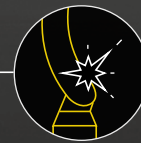
**SLIM AND CURVED J2 ARM**  
to minimise interference



**12 KG PAYLOAD**



**LARGE  
HOLLOW WRIST  
and hollow arm**



**SMOOTH SURFACES**  
to minimise dust  
and dirt collection

**NEW**  
**M-20iD/12L**

### High performance in a small footprint

- slim lightweight design for more throughput
- compact arm and wrist for maximum access
- ideal for crowded production environments
- smooth finish deters dirt and is easy to clean
- easy to install, plus internal cable routing prevents snagging
- Zero Down Time software for intelligent maintenance prediction and scheduling

# M-20iD/12L



Max. load capacity  
at wrist: **12 kg**



Max. reach:  
**2272 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               | ±0.03*             | 250                    | 340<br>(370)     | 260 | 475 | 400 | 360 | 900 | -                   | 210 | 210 | 420 | 450 | 720 | -  | 22.0/0.65                                | 22.0/0.65                                | 9.8/0.17 |



## Robot

**M-20iD/12L**  
343 x 343

Robot footprint [mm]

Mounting position Floor

Mounting position Upside down

Mounting position Angle



## Controller

Open air cabinet

Mate cabinet

A-cabinet

B-cabinet

iPendant Touch

## R-30iB Plus

-

o

•

o

•

## 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

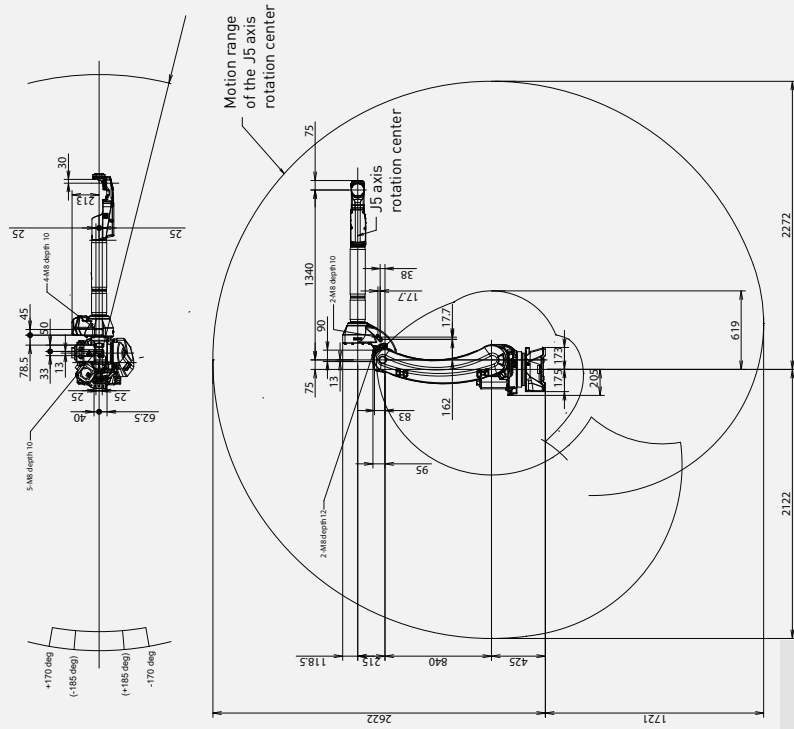
Body standard/optional

IP54

Wrist & J3 arm standard/optional

IP67

## Working range



Motion range may be restricted according to the mounting angle!

• standard    o on request    - not available    ( ) with hardware and/or software option    \*Based on ISO9283