M-4201A M-4211A Applications



Description

The FANUC M-420iA and M-421iA robots represent the latest generation of industrial robots with high speed and performance.

Based on a highly reliable and very simple mechanical structure, the M-420iA and M-421iA robots provide high performance and sophisticated systems for controlling movement thanks to the new SYSTEM R-J3iB controller, ensuring high productivity.

M-420iA / M-421iA, the solution for:

High-speed packaging High-speed palletization Machine tool loading/unloading

Features

M-420iA: 4-axes movement, 40 Kg load at wrist M-421iA: 2-axes movement, 50 Kg load at wrist +/-0.5 mm repeatability at maximum load and speed in the entire work area

Wide work area with a 1,855 mm horizontal range specially designed for packaging applications Linear speed up to 4,200 mm/sec

Special pneumatic and electrical connections (8 digital inputs + 8 digital outputs) on the wrist for simplifying integration with tools

Programming keyboard with an ergonomic design equipped with a large LCD for easily controlling the process

Sealed bearings and AC brushless motors for greater protection and reliability

Advantages

Fastest in its class of robots in order to ensure maximum performance and productivity
Highest possible load at wrist in this class of robots allows various parts to be handled simultaneously, maximizing system productivity
Four-axes movement (M-420iA) gives the robot access to several packaging lines

Options

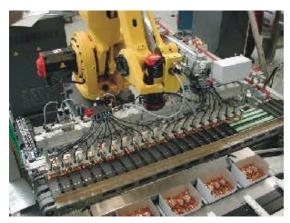
Connection cables of various lengths for greater installation flexibility and optional flexible cables for assembly on tracks



M-4201A M-4211A

Appleations





M-420/A / M-421/A Specifications

| Items | | M-420 <i>i</i> A | M-421 <i>i</i> A |
|---|-------|--|------------------|
| Axis | | 4 | . 2 |
| Payload - Wrist (kg) | | 40 | 50 |
| - J3 Arm (kg) | | 10 | 10 |
| Reach (mm) | | 1855 | 1855 |
| Repeatability (mm) | | ±0,5 | ±0,5 |
| Interference radius (mm) | | 543 | |
| Motion range (degrees) | J1 | 320 | |
| | J2 | 115 | 115 |
| | J3 | 110 | 110 |
| | 34 | 540 | Ö 50 |
| Motion speed (degrees/sec.) | 31 | 180 | 1 2 |
| | J2 | 200 | 200 |
| | J3 | 200 | 200 |
| | 34 | 350 | |
| Wrist moment (kgf m) | ,14 | 10 | 10 |
| Wrist Inertia (kgfoms ²) | J4 | 26 | 26 |
| Mechanical brakes | | Al axes | All axes |
| Mechanical weight (kg) | | 620 | 520 |
| Mounting method | | Floor | |
| Installation enviro | nment | 141.0 | |
| Ambient temperature °€ | | 0 to 45 | |
| Humidity | | Normally: 75% or less Short term(within a month):95% or less No condensation | |
| Vibration (m/c²) | | 4,9 or less | |



Fastest cycle times in its class:

