

M-1*i*A Genkotsu (fist) Robot

PAYLOAD: 0.5KG

THE M-1*i*A IS A LIGHTWEIGHT AND COMPACT ROBOT DESIGNED FOR SMALL PART HANDLING, HIGH-SPEED PICKING AND ASSEMBLY APPLICATIONS. THE UNIQUE PARALLEL-LINK STRUCTURE PROVIDES HIGHER SPEEDS AND ACCURACY COMPARED TO TRADITIONAL ASSEMBLY ROBOTS.



Two M-1*i*A models are available for a variety of applications and can be installed in multiple orientations:

- M-1*i*A/0.5A (6-axis type)
A three-axis wrist makes it extremely flexible and versatile compared to traditional SCARA robots
- M-1*i*A/0.5S (4-axis type)
A single-axis wrist offers speeds up to 3000 degrees/second and is ideal for high-speed picking and kitting

Three configurations are available for flexible installations:

- Robot only - no stand
- Desktop mount with a stand
- Ceiling and Angle Mounting

FEATURES AND BENEFITS:

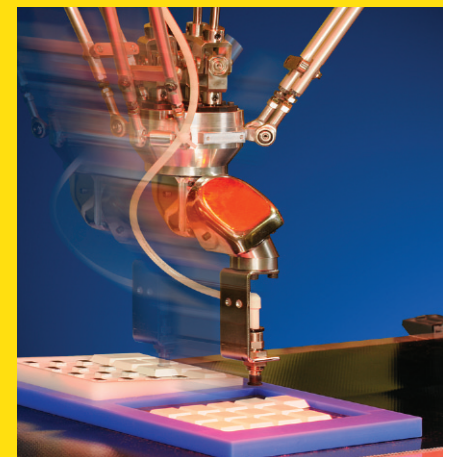
- Lightweight (M1-*i*A/0.5A - 17kg and M-1*i*A/0.5S - 14kg), compact size allows operation in small spaces.
- Six-axis design enables part feeding from the sides of a work zone, increasing the useable workspace.
- Multiple installation orientations accommodate a wide range of work areas.
- Unique parallel-link design maximizes speed.
- Can be separated from its stand, allowing easy integration into a machine.
- A camera for *i*RVision (built-in) can be integrated into the robot for vision guidance and error-proofing applications.
- New R-30*i*A Mate rack-style controller provides intelligent robot functions with a compact controller footprint.
- Detachable color-graphic *i*Pendant or monochrome pendant can be shared between multiple robots on the same assembly line.



*i*RVision (built-in) for guidance and error proofing



Powerful and compact R-30*i*A Mate controller



Flexible three-axis wrist motion

FANUC
Robotics

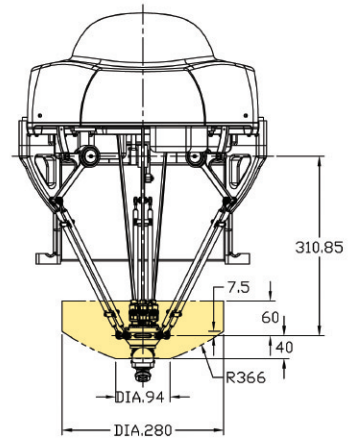
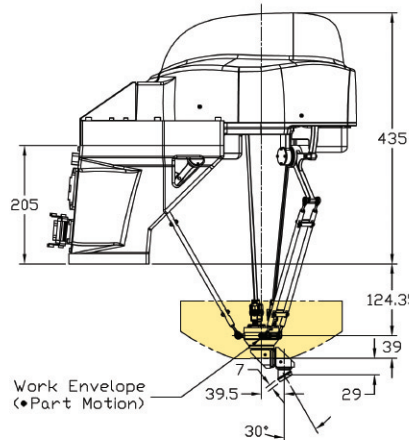
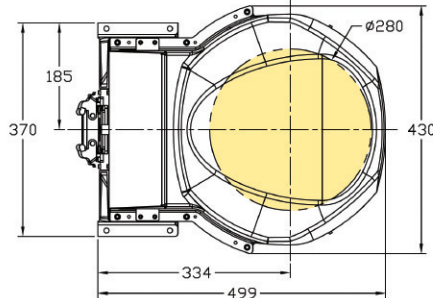
*i*ntelligent **ROBOT** solutions

M-1*i*A Genkotsu (fist) Robot

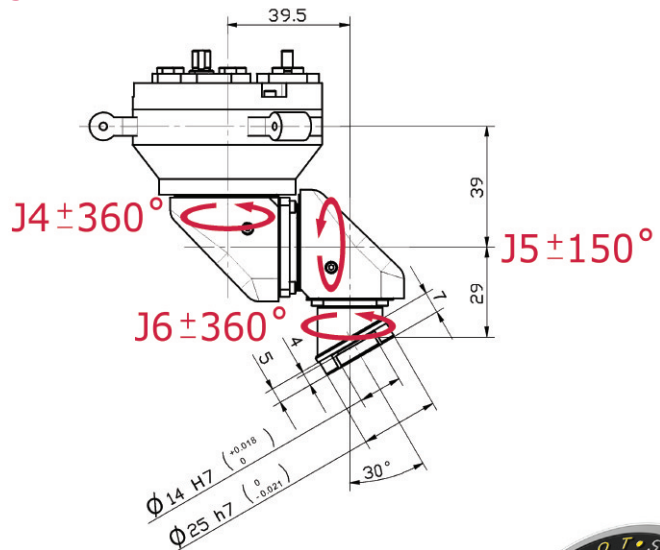
floor, ceiling, angle mounting



M-1*i*A DIMENSIONS: FANUC ROBOT M-1*i*A/0.5A



WRIST



Note: The M-1*i*A/0.5S has the same work envelope as the M-1*i*A/05A without the wrist.

M-1*i*A SERIES SPECIFICATIONS:

ITEMS	M-1 <i>i</i> A/0.5A	M-1 <i>i</i> A/0.5S
Axes	6	4
Payload - wrist (kg)	0.5	0.5
Reach (mm)	Dia. 280, Ht. 100	Dia. 280, Ht. 100
Repeatability (mm)	±0.02	±0.02
Wrist motion range (degrees)	J4	720
	J5	300
	J6	720
Benchmark cycle (1) 25mm - 200mm - 25mm	0.3 second	
Wrist speed (2) (degrees / seconds)	J4	1440
	J5	1440
	J6	1440
Brakes	All axes	
Mechanical weight (3) (kg)	17	14
Mounting method	Floor, Ceiling, Angle	
Installation environment		
Ambient temperature °C	0 to 45	
Humidity	Normally: 75% or less Short term (within a month): 95% or less No condensation	
Vibration m/s (2) (G)	0.5 or less	
IP ratings (s)	IP 20	
Controller	R-30 <i>i</i> A Mate compact rack mount 370 (W) x 200 (H) x 450 (D) 200-230VAC single phase, 50-60 Hz	
Input power capacity	1.0 KVA	
Avg. power consumption	200 Watts	

Notes:

- (1) Benchmark cycle with 0.1 payload
- (2) Maximum speed may not be reached for short distance motion
- (3) The weight is the robot only - unit mass without the stand



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