

A white and grey robotic arm, the NACHI MZ07, is shown in a dynamic pose against a dark background. The arm is illuminated with bright blue light trails, suggesting rapid movement. The NACHI logo is visible on the upper arm, and the model number MZ07 is printed on the lower arm. The background is dark with some blurred light trails, emphasizing the robot's speed and precision.

NACHI

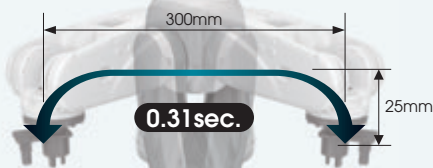
***Introducing
the World's Fastest
Lightweight,
Compact Robot — MZ07***

Fastest robot in the world*

*Maximum speed by the motion of all axes

Light arm and latest motion control technology enabled the fastest robot in the world. This contributes to the improvement of productivity.

Standard Cycle Time Evaluation (go and back) *1



*1 In the case of 1KG payload

Basic specification of robot

Item	Specification	
Robot Model	MZ07-01	MZ07L-01
Number of Axis	6	
Drive System	AC Servo Drive	
Max. Speed*2	J1	Swivel 7.85 rad/s (450°/s)
	J2	Forward/Backward 6.63 rad/s (380°/s)
	J3	Upward/Downward 9.08 rad/s (520°/s)
	J4/J5	Rotation 2/Bend 9.60 rad/s (550°/s)
	J6	Rotation 1 17.5 rad/s (1000°/s)
Max. Payload	7 kg	
Allowable Static Loading Torque	J4/J5	Rotation 2/Bend 16.6 N·m
	J6	Rotation 1 9.4 N·m
Max. Reach	723 mm	
Position Repeatability*1	±0.02 mm	
Ambient Conditions	0~45°C	
Installation	Floor / Wall / Tilted / Invert mount	
Dust Proof, Drip Proof	IP67	
Robot Mass*3	36 kg	38 kg

1 (rad)=180/π (°), 1 (N·m)=1/9.8(kgf·m) *1 JIS B 8432 compliant.

*2 The 'Max Speed' in this table is the available maximum value and will change depending on the workprogram and the wrist load condition.

*3 Wall mount Rear Connection Type +6kg Bottom Connection Type +8kg

Specification of controller

Item	Specification
Controlled Axis	6-Axes
Maximum Control Axis	7-Axes
Program Number	9,999 programs
Memory Capacity	256MB (2,560,000 program steps equivalent)
Memory Device	USB Port
External Dimension	369(W)×490(D)×173(H)
Weight	Approx. 17kg
Primary Power Supply	3-Phase AC200-230V ±10% Single Phase AC200-230V ±10%
Consuming Power	0.4KVA
Dust Proof, Drip Proof	IP20
Ambient Temperature	0~40°C
Ambient Humidity	20~85% (Non-condensing)

Smart Cable Routing

Cable and tubes can be routed through hollow wrist



Conventional wrist
overhanging cables

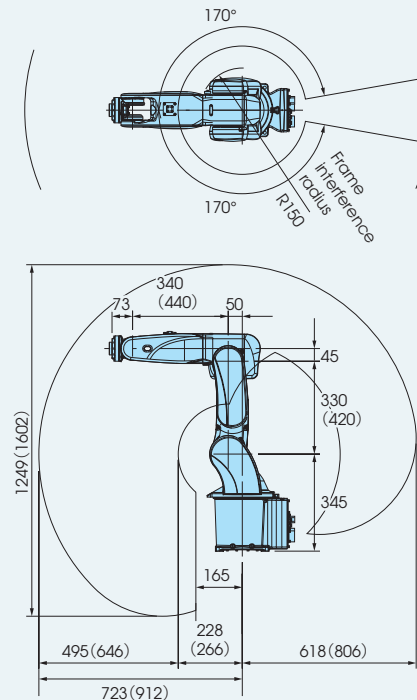
Cable routing improved

avoids interference with peripheral equipment
allows the arm to enter tight spaces
improved reliability with stable cable behavior during high speed operation



Hollow wrist
cables are stored inside wrist

Robot dimensions and Working envelope



MZ07L dimensions shown in ()

Application Examples



Machine Loading



Assembling



Deburring



Packing

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●The specifications are subject to changes without notice.

●In case that an end user uses this product for military purpose or production of weapon, this product may be liable for the subject of export restriction stipulated in the Foreign Exchange and Foreign Trade Act. Please go through careful investigation and necessary formalities for export.

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