

MZ10LF

LONG | PRECISE | HIGH-SPEED



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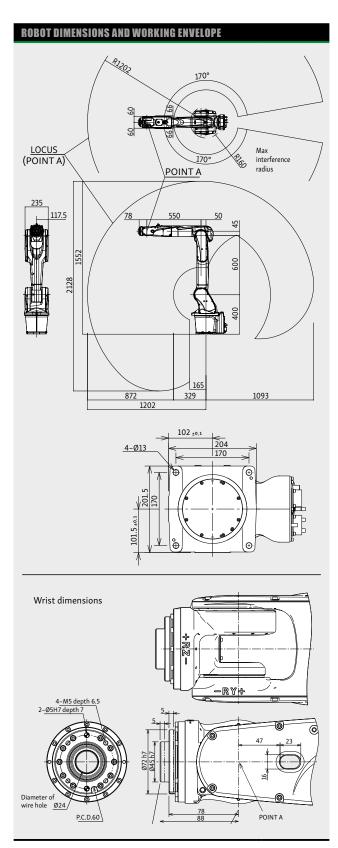
The MZ10LF achieves a significant payload improvement, longer reach as well as higher speed and precision while maintaining the MZ07 features: lightweight, compact body and hollow wrist.

BASIC SPECIFICATION OF ROBOT		
Item		Specifications
Robot model		MZ10LF- 01
Structure		Articulated
Number of axes		6
Max. reach		1202mm
Installation		Floor, inverted mount
Drive system		AC Servodrive
Max. working envelope	J1	±2.97rad (±170°)
	J2	-2.36~1.40rad (-135~80°)
	J3	-2.37~4.71rad (-136~270°)
	J4	±3.32rad (±190°)
	J5	±2.09rad (±120°)
	J6	±6.28rad (±360°)
Max. speed*1	J1	5.24rad/s (300°/s)
	J2	3.49rad/s (200°/s)
	J3	5.76rad/s (330°/s)
	J4	8.20rad/s (470°/s)
	J5	8.20rad/s (470°/s)
	J6	12.92rad/s (740°/s)
Payload (max.)	Wrist	10kg
Allowable static load torque	J4	20N•m
	J5	20N•m
	J6	10.4N•m
Allowable moment of inertia*2	J4	0.6kg•m²
	J5	0.6kg•m²
	J6	0.2kg•m²
Position repeatability*3		±0.025mm
Air piping		Ø6×2
Application signal wires		20 wires
Ambient conditions		Ambient temperature: 0-45°C*4 Ambient humidity: 20-85% RH (No dew, nor frost allowed) Vibration: Not more than 0.5G (4.9m/s²)
Dust-proof/		IP67 equivalent
Drip-proofperformance*5 Noise*7		(dust proof and moisture resistant) 75dB or lower
Robot mass		55kg
KODOL III455		Nykg

^{*1} Maximum velocity in this table is the available maximum value and will change depending on the work-program and the wrist load condition.

 $1[N \cdot m] = 1/9.8[kgf \cdot m]$

^{*?} Robot noise is A-weighted equivalent sound level measured under "JIS Z 8737-1" (ISO 11201) with maximum payload and maximum velocity.



Note: Explosion-proof version is not available.
Specifications are subject to change without prior notice for technical changes.

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^{*2} Maximum moment of inertia of a wrist changes due to the load condition.

^{*3} JIS B 8432 conformance.

^{*4} Using at 1000m or lower sea level. Ambient temperature has limitations when allowable altitude is exceeded.

^{**} Liquid such as organic compound, acidity, alkalinity, chlorine or gasoline cutting fluid which deteriorates the seal material are not available to use.

^{*6} This is based on an internal assessment in accordance with ISO 14644-1. To ensure cleanliness, install in a clean room with downflow. Robot is not packaged in dust-proof, so when bringing in a clean room, it is necessary to remove dust and dust from robot and wipe clean.