

NACHI



*Compact Design
10 kg Payload*

MZ10

10 kg payload with a compact body

- *Achieves 10 kg payload with the same dimensions and workspace as MZ07*
- *Cables/hoses are neatly routed through the hollow wrist. Wrist Torque has also been improved.*

Specification

Robot type	MZ10-01	
Structure	Articulated robot	
No. of axes	6	
Drive system	AC servo motor	
Maximum motion range	J1	$\pm 170^\circ$
	J2	$-135 \sim 80^\circ$
	J3	$-136 \sim 270^\circ$
	J4	$\pm 190^\circ$
	J5	$\pm 120^\circ$
	J6	$\pm 360^\circ$
Maximum Velocity ¹⁵	J1	300°/s
	J2	250°/s
	J3	360°/s
	J4	454°/s
	J5	343°/s
	J6	707°/s
Maximum Payload	Wrist	10kg
Maximum Static load torque	J4	17.9N·m
	J5	17.9N·m
	J6	10.4N·m
Maximum Moment of inertia ¹	J4	0.47kg·m ²
	J5	0.47kg·m ²
	J6	0.15kg·m ²
Position repeatability ²	± 0.03 mm	
Maximum Reach	723mm	
Mounting Condition	Floor / Inverted	
Ambient Temperature ³	0~45°C	
Ambient Humidity	20~85%RH (No dew, nor frost allowed)	
Protection class ⁴	IP 67 equivalent (dust-proof, moisture-resistant)	
Robot weight ⁵	36kg	

1 (rad)=180/π(°). 1 (N/m)=1/9.8(kgf/m)

* Axis 1 - Axis 6 are displayed as J1-J6 each on the controller screen.

* Specifications are subject to change without prior notice for technical changes.

* Explosion-proof version is not available.

*1: Depends on wrist load condition.

*2: JIS B 8432 conformance.

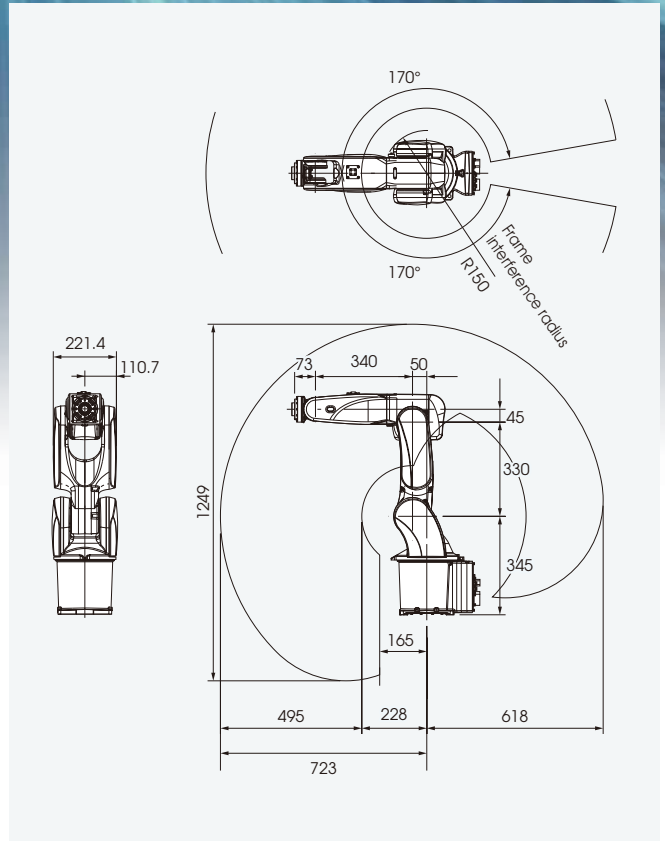
*3: Using at 1000 m or lower sea level. Ambient temperature has limitations when allowable altitude is exceeded.

*4: Prohibit in applications where liquids, such as, organic compound, acidity, alkalinity, chlorine, gasoline and/or cutting fluids. These could deteriorate sealing material.

*5: The maximum velocity in the chart is the maximum value. It will change depending on the operation program and the wrist load condition.

*6: Bottom Connection Type +8kg.

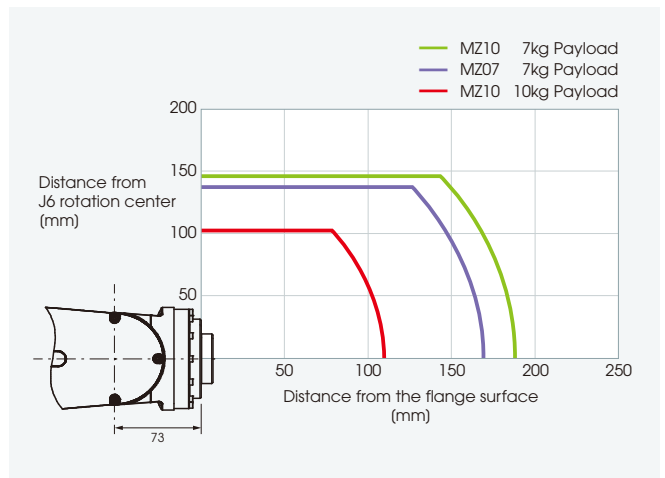
Dimensions



Spec comparison of MZ07 and MZ10

Item	Specification	
Robot type	MZ07-01	MZ10-01
Maximum motion range	J1	$\pm 170^\circ$
	J2	$-135 \sim 80^\circ$
	J3	$-136 \sim 270^\circ$
	J4	$\pm 190^\circ$
	J5	$\pm 120^\circ$
	J6	$\pm 360^\circ$
Maximum Velocity	J1	450°/s
	J2	380°/s
	J3	520°/s
	J4	550°/s
	J5	550°/s
	J6	1000°/s
Maximum Payload	7 kg	10 kg
Maximum Static load torque	J4	16.6 N·m
	J5	16.6 N·m
	J6	9.4 N·m
Position repeatability	± 0.02 mm	± 0.03 mm
Maximum Reach	723 mm	
Mounting Condition	Floor / Wall / Angle / Inverted	Floor / Inverted
Robot weight	36 kg	36 kg

Load diagram comparison



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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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R7707E-2

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