

MT *SERIES* **MACHINE TENDER**

NACHI
ROBOTIC SYSTEMS, INC.

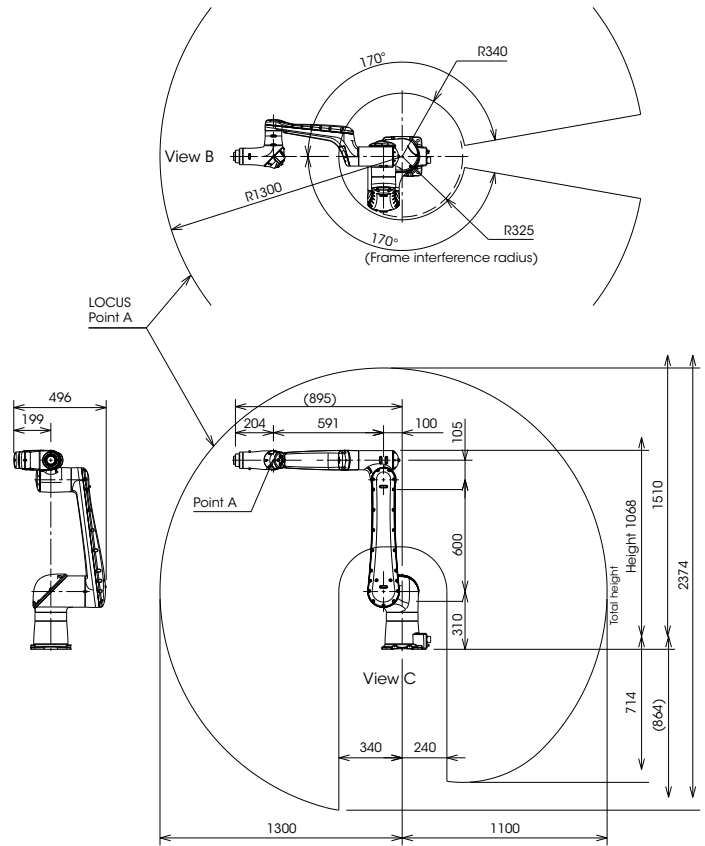
Designed for machine tending and assisting other automation needs accurately and reliably. The mobile tender includes the collaborative, high-speed and high-accuracy CZ10 robot. The cart can easily be relocated to multiple workstations with a quick disconnect capability to the machine.



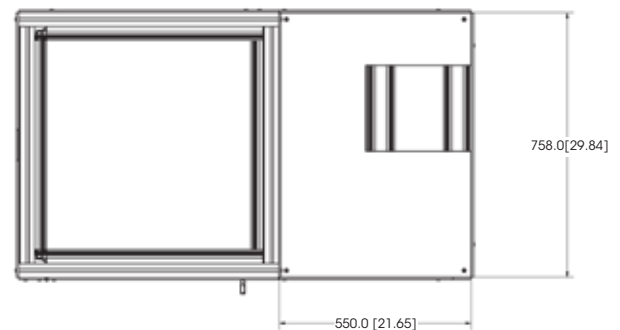
Basic Specification of Robot

Item	Specification	
Robot type	CZ10	
Number of axis	6	
Drive system	AC servo motor	
Max. working envelope	Axis 1	$\pm 2.96\text{rad}$ ($\pm 170^\circ$)
	Axis 2	$-1.30 \sim +3.92\text{rad}$ ($-75 \sim +225^\circ$)
	Axis 3	$-1.34 \sim +3.96\text{rad}$ ($-77 \sim +227^\circ$)
	Axis 4	$\pm 3.14\text{rad}$ ($\pm 180^\circ$)
	Axis 5	$\pm 2.96\text{rad}$ ($\pm 170^\circ$)
	Axis 6	$\pm 6.28\text{rad}$ ($\pm 360^\circ$)
Max. speed *1	Axis 1	2.09rad/s (120°/s)
	Axis 2	2.09rad/s (120°/s)
	Axis 3	3.14rad/s (180°/s)
	Axis 4	3.14rad/s (180°/s)
	Axis 5	3.14rad/s (180°/s)
	Axis 6	3.14rad/s (180°/s)
Max. payload	Wrist 10kg	
Allowable static load torque	Axis 4	25.9N·m
	Axis 5	25.9N·m
	Axis 6	5.9N·m
Allowable moment of inertia *2	Axis 4	0.75kg·m ²
	Axis 5	0.75kg·m ²
	Axis 6	0.08kg·m ²
Position repeatability *3	$\pm 0.1\text{mm}$	
Max. reach	1300mm	
Air piping	$\phi 4 \times 1$	
I/O on the wrist part	Dlx4, DOx3	
Installation	Cart	
Ambient conditions	Temperature: 0 ~ 45°C *4 Humidity: 20 ~ 85%RH (No dew condensation) Vibration to the installation face: 0.5G (4.9m/s ²) or less	
Dust-proof Drip-proof performance *5	IP54 equivalent (dust and drain proof-type)	
Robot mass	61kg	
Safety certification	Conforming to ISO 10218-1 *6 Conforming to TS 15066	

Robot Dimensions and Working Envelope



Cart Dimensions



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www.nachirobotics.com

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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.