



Kawasaki Robot

MS005N

Medical and pharmaceutical robots

Features:

All stainless steel

Vapor hydrogen peroxide (VHP) resistant.

Meets FDA standards

FDA (Food and Drug Administration, USA) approved gaskets and seals.

Meets ISO Class 5

(Class 100 of US FED STD 209E) cleanroom standard.

Hollow wrist

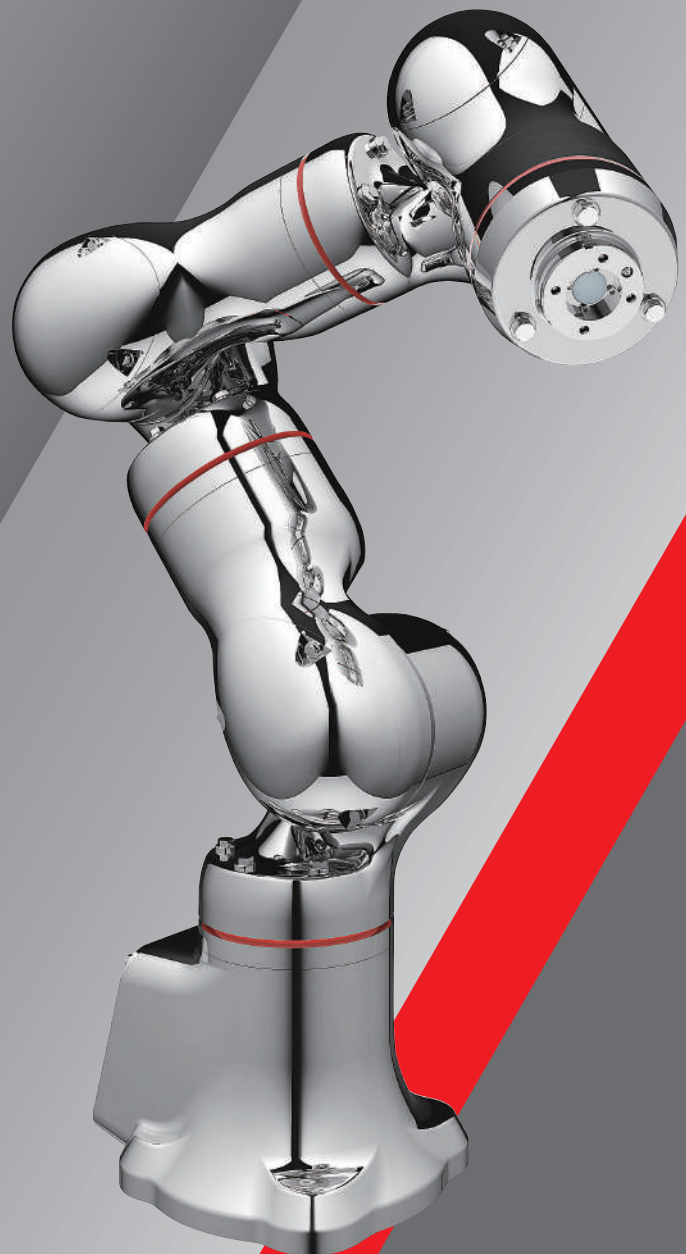
Through-arm cabling minimizes potential interference with other processing and manufacturing equipment.

Sanitary features

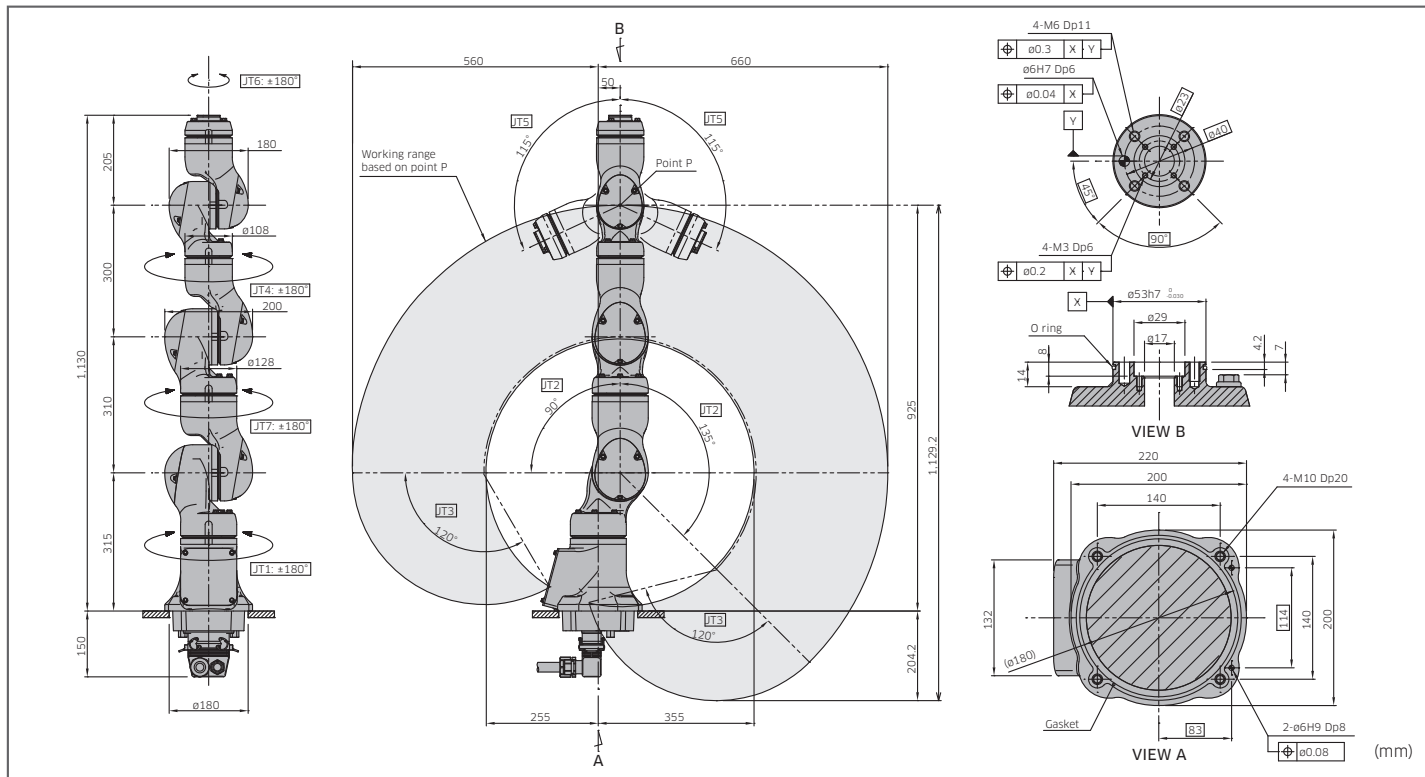
The streamlined design of the MS005N robot features a smooth surface, high performance seals and a chemical resistant stainless steel casing to help prevent contamination.

Flexible motion

The 7-axis configuration minimizes potential interference with other equipment and provides high dexterity for flexible and complex motion.



Motion range & dimensions



Specifications

Robot

		MS005N
Degree of freedom (axes)		7
Max. payload (kg)		5
Max. reach (mm)		660
Positional repeatability (mm) *1		±0.1
Motion range (°)	Arm rotation (JT1)	±180
	Arm out-in (JT2)	+135 - -90
	Arm up-down (JT3)	±120
	Wrist swivel (JT4)	±180
	Wrist bend (JT5)	±115
	Wrist twist (JT6)	±180
	Wrist twist (JT7)	±180
Max. speed (°/s)	Arm rotation (JT1)	130
	Arm out-in (JT2)	130
	Arm up-down (JT3)	215
	Wrist swivel (JT4)	300
	Wrist bend (JT5)	300
	Wrist twist (JT6)	480
Mass (kg)		50
Installation		Floor, Ceiling
Controller	America	E76
	Europe	E70
	Japan & Asia	E73

*1: Conforms to ISO9283

Controller

		Standard	Option
America		E77	Option
Europe		E70	
Japan & Asia		E73	
Dimensions (mm)		W500 × D420 × H259	
Structure		Enclosed structure / Indirect cooling system	
Number of controlled axes		8	
Drive system		Full digital servo system	
Coordinate systems		Joint, Base, Tool	
Types of motion control		Joint / Linear / Circular interpolated motion	
Programming		Point to point teaching or language based programming	
Memory capacity (MB)		8	
General purpose signals	External operation	Motor power off, Hold	
	Input (channels)	32	
	Output (channels)	32	
Operation panel		E-Stop switch, Teach/repeat switch, Control power light (Cycle start, motor-on, hold/run, and error reset are activated from the teach pendant)	Cycle start switch, Motor-on switch, Hold/run switch, Error light, Error reset switch (E7X), Rapid-feed check mode switch
Cable length	Teach pendant (m)	5	10, 15
	Robot-controller (m)	5	10, 15
Mass (kg)		30	
Power requirements		AC200-240V ±10% 50/60HZ 1ø Class-D earth connection (Earth connection dedicated to robots), Leakage current: Maximum 100mA	
Environmental conditions	Ambient temperature (°C)	0 - 45 (0 - 40 in vertical use)	
	Relative humidity (%)	35 - 85 (no dew, nor frost allowed)	
Teach pendant		TFT color LCD display with touch-panel, E-Stop switch, Teach lock switch, Enable switch	
Auxiliary storage unit		-	
Interface		USB, Ethernet (100BASE-TX), RS-232C	

Kawasaki Robotics (USA), Inc.

United States

28140 Lakeview Drive
Wixom, Michigan 48393
Phone (248) 446-4100
Email info@kri-us.com

Canada

Phone (905) 304-7784

Mexico

Phone (52) 44-2291-1204

KawasakiRobotics.com

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* Materials and specifications are subject to change without notice.