Kawasaki Robotics (USA), Inc.

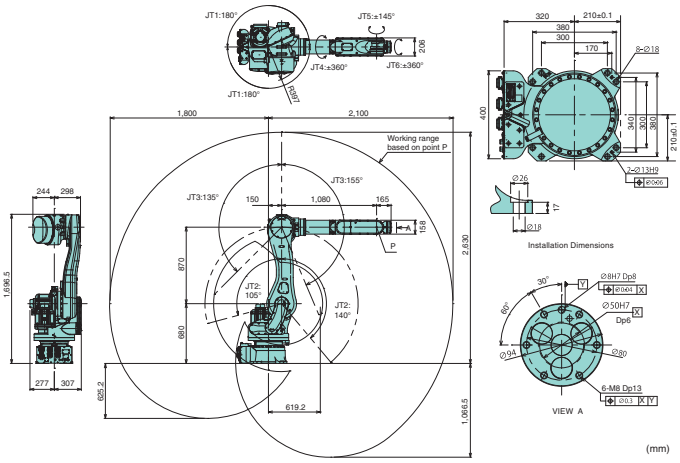
RD80N

Product Specification

Standard Applications:

- Palletizing

series



Arm Type	Articulated		
Degrees of Freedom	5		
Axes Work Envelope and Maximum Speed	**Axis**	**Work Envelope**	**Maximum Speed**
	Arm Rotation (JT1)	+180° ~ -180°	180° /s
	Arm Out-In (JT2)	+140° ~ -105°	180° /s
	Arm Down-Up (JT3)	+40° ~ -205°	175° /s
	Wrist Swivel (JT4)	+360° ~ -360°	360° /s
	Wrist Bend (JT5)	+135° ~ -10° *	---
	* Motion range of JT5 is ±10° to the vertical direction		
Palletizing Capacity (Maximum)	Approx. 3,200 cycles/h* (Load: 80kg, Vertical: 75mm & Horizontal: 900mm) *Note When operating the robot at repeat operation, adjust JT1 motor duty to be within 50%		
Position Repeatability	±0.07 mm (at tool mounting surface)		
Payload	80 kg		
Wrist Load Capacity	(kgf * m * s^2) (kg * mm^2) (Note)		
		Torque	Moment of Inertia
	JT4	---	13.7 kg*m^2
	* Note: Restrictions are applied to the center of gravity. See the Installation and Connection Manual. If more detailed data is required for your application, please contact Kawasaki.		
Driving Motor	Brushless AC Servomotor		
Working range	See attached drawing		
Mass	540 kg (excluding options)		
Color	Kawasaki Standard		
Installation	Floor Mount		
Ambient Temperature Relative Humidity	0 ~ 45° C 35 ~ 85% no dew nor frost allowed		
Built-in utilities	Pneumatic Pipings (Φ 10 x 2 lines)		
Degree of Protection	Wrist : IP67 Arm : IP65		
Options	Degree of protection arm : IP67		
	Sensor harness (8 circuits), wired inside robotic arm		
	Optional harness (7 pairs), wired inside robotic arm		
	Double solenoid/ Single solenoid valves (4 units max.)		
	Air cleaning equipment (filter, regulator, mistseperator)		
	Adjustable mechanical stoppers JT1/JT2/JT3		
	Color (Munsell)		
	Traverse unit (Stroke) Arm installation stand (height 600mm, 300mm)		
	Arm installation plare (750mm x 750mm)		
Others	Consult us about Maintenance Parts and Spare Parts.		

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