



HIGH-SPEED, HIGH-PERFORMANCE INDUSTRIAL ROBOTS

The new R-Series Robots are setting the benchmark for all small to medium duty industrial robots. The compact design, along with industry leading speed, reach and work range make the R-Series Robots ideal for a wide range of applications throughout a multitude of diverse industries.

RS80N

Payload	80 kg
Horizontal Reach	2,100 mm
Vertical Reach	3,697 mm
Repeatability	±0.07 mm
Maximum Speed	12,700 mm/s

Applications

- Assembly
- Dispensing
- Inspection
- Machine Tending
- Material Handling
- Material Removal
- Welding



ULTRA HIGH-SPEED OPERATION

The new lightweight arm along with high-output high-revolution motors provide industry leading acceleration and high-speed operation. The acceleration rate automatically adjusts to suit the payload and robot posture to deliver optimum performance and the shortest cycle times.

WIDE WORK RANGE

In addition to extending the robot's maximum reach, the rotation range of each axis has also been increased. The extended motion range translates to a larger usable work area with minimal dead-space and greater flexibility.

ENVIRONMENTAL PROTECTION

The R-Series incorporates a double-seal construction on all axes and the electrical connections are water-resistant offering an IP67 classification for wrist and IP65 for the remaining axes. If a wash-down arm is required, the entire robot can be provided as IP67.

HIGH TORQUE

High-output motors, combined with a rigid arm construction, allow for superior wrist torque and load capacity.

INTEGRATED FEATURES

Built-in pneumatic lines and internal wiring are standard. Mounting pads and taps are provided to allow easy installation of additional cabling, tubing or equipment.

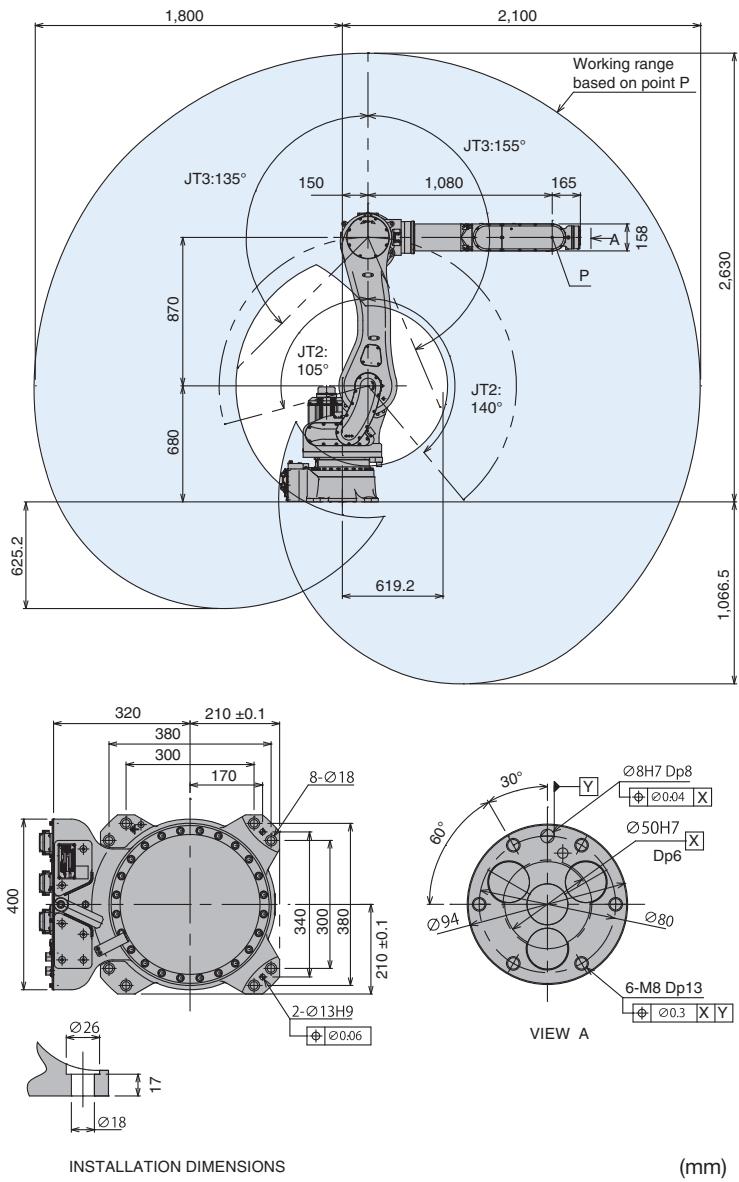
SPACE SAVING

The slim arm design requires very little floor space. Multiple robots can be installed in "high-density" applications without impeding performance.

EASY MAINTENANCE

The Kawasaki design requires very little maintenance while boasting industry leading mean time between failures (MTBF).

MOTION RANGE & DIMENSIONS



Note: Detailed drawings are available upon request.

RS80N SPECIFICATIONS		
Type	Articulated	
Degrees of Freedom	6 axes	
Payload	80 kg	
Horizontal Reach	2,100 mm	
Vertical Reach	3,697 mm	
Repeatability	±0.07 mm	
Maximum Speed	12,700 mm/s	
Work Envelope (degrees) & Maximum Speed (degrees/s)	Axis	Motion Range
	JT1	±180°
	JT2	+140° ~ -105°
	JT3	+135° ~ -155°
	JT4	±360°
	JT5	±145°
	JT6	±360°
Wrist Load Capacity	Axis	Maximum Torque
	JT4	336 N·m
	JT5	336 N·m
	JT6	194 N·m
Motor(s)	Brushless AC Servomotor	
	Brakes	All axes
	Hard Stops	Adjustable mechanical stopper JT1/JT2/JT3
	Mass	555 kg (excluding Options)
	Body Color	Kawasaki Standard
	Installation	Floor, wall, ceiling
	Environmental Conditions	Temperature: 0 ~ 45°C Humidity: 35 ~ 85% (no dew, nor frost allowed) Vibration: Less than 0.5 G
	Protection Classification	Wrist: IP67 Base: IP65 * Equivalent
	Built-in Harness	Sensor harness 12 inputs, 24VDC, GND
	Internal Wiring	14 wires, inside robot arm
Options	Built-in Utilities Pneumatic piping (Ø10 x 2 lines)	
	IP67 entire arm JT1/JT2 motor cover Linear track options Riser (300/600 mm) Base plate	
	Double/single solenoid valves (4 units max.) Air cleaning equipment (filter, regulator, mist separator) Limit switch JT1	
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Controller	E32 (see E Controller data sheet for specifications)	

Simple  friendly

Assembly • Cutting • Dispensing • Grinding • Handling • Inspection • Packaging • Painting • Palletizing • Polishing • Tending • Welding

Kawasaki Robotics (USA), Inc.

United States

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

Canada

Phone (905) 304-7784

Mexico

Phone (52) 33-3110-1895

www.kawasakirobotics.com

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