



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.

RS03N

Payload	3 kg
Horizontal Reach	620 mm
Vertical Reach	967 mm
Repeatability	±0.02 mm
Maximum Speed	6,000 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.

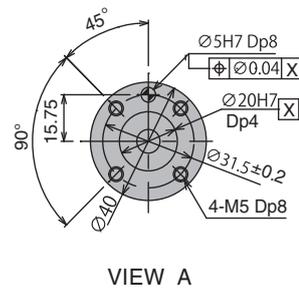
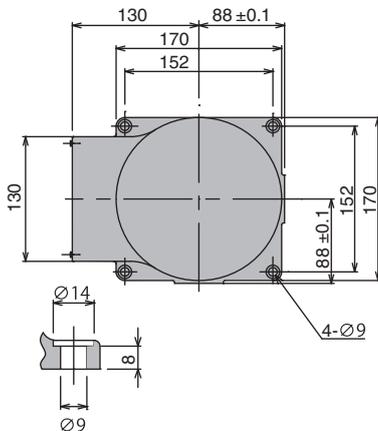
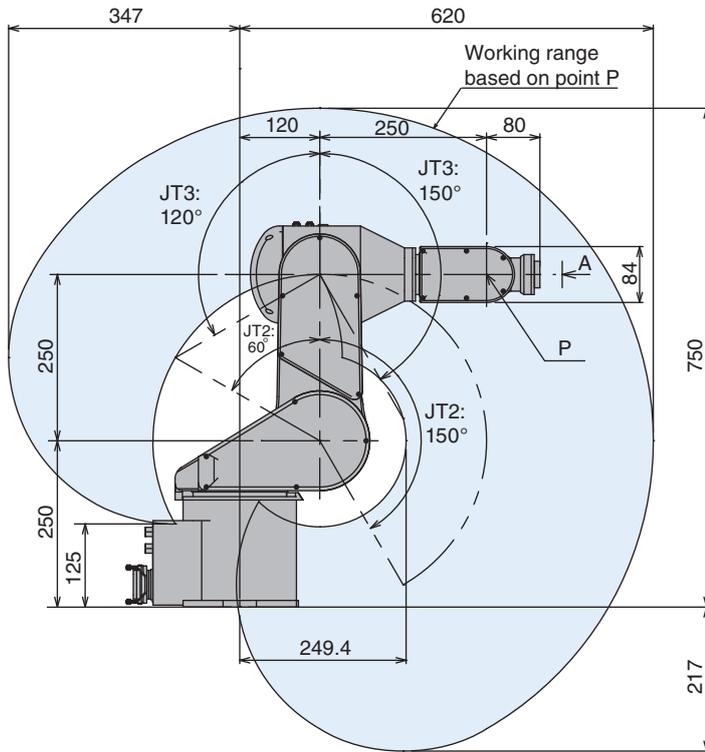
SPACE SAVING

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



INSTALLATION DIMENSIONS

(mm)

Note: Detailed drawings are available upon request.

Simple friendly

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

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RS03N SPECIFICATIONS

Type	Articulated		
Degrees of Freedom	6 axes		
Payload	3 kg		
Horizontal Reach	620 mm		
Vertical Reach	967 mm		
Repeatability	±0.02 mm		
Maximum Speed	6,000 mm/s		
Work Envelope (degrees) & Maximum Speed (degrees/s)	Axis	Motion Range	Maximum Speed
	JT1	±160°	360°/s
	JT2	+150° ~ - 60°	250°/s
	JT3	+120° ~ -150°	225°/s
	JT4	±360°	540°/s
	JT5	±135°	225°/s
	JT6	±360°	540°/s
Wrist Load Capacity	Axis	Maximum Torque	Moment of Inertia
	JT4	5.8 N·m	0.12 kg·m ²
	JT5	5.8 N·m	0.12 kg·m ²
JT6	2.9 N·m	0.03 kg·m ²	
Motor(s)	Brushless AC Servomotor		
Brakes	All axes		
Hard Stop(s)	Adjustable mechanical stopper JT1		
Mass	20 kg (excluding Options)		
Body Color	Kawasaki Standard		
Installation	Floor, ceiling		
Environmental Conditions	Temperature	0 ~ 45° C	
	Humidity	35 ~ 85 % (no dew, nor frost allowed)	
	Vibration	Less than 0.5 G	
Protection Classification	IP54 * Equivalent		
Built-in Harness	Sensor harness 4 inputs, 24VDC, GND		
Built-in Utilities	Pneumatic piping (ø4 x 2 lines)		
Options	Wall mount Double/single solenoid valves (2 units max.)		
Controller	E76 (see E Controller data sheet for specifications)		

www.kawasakirobotics.com

RS03N - REV03/12
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 Technical specifications subject to change without notice.