Kawasaki

EXPLOSION PROOF PAINTING ROBOTS

The K-Series line of painting robots combines high operational performance with powerful programming flexibility. With six explosion-proof models available, Kawasaki has a robot that will suit any robotic painting application, from a one robot paint cell to complete multi-robot integrated finishing systems.

KJ264 - WALL

Payload	wrist 15 kg, arm 25 kg
Horizontal Reach	2,640 mm
Vertical Reach	4,607 mm
Max. Painting Speed	1,500 mm/s
Wrist Type	3R ø70 mm (Roll Roll Roll - hollow wrist)

Applications
- Painting

FM APPROVED

COMPREHENSIVE ROBOT LINE UP

Kawasaki offers six explosion-proof painting robot models, from the KF121 for small applications to the KJ314 for automotive inner and outer body finishing. All models are suited for hazardous environments such as spray painting and boast industry leading mean time between failures (MTBF).

HOLLOW WRIST ARMS

Hollow wrist versions of the K-Series robot arms can be fitted with internal hoses to minimize overspray that adheres to the piping, reducing the risk of contaminants in the paint finish. The inner diameter of the hollow wrist is 70 mm.

PROGRAMMING FLEXIBILITY

K-Series Robots can be programmed in two ways, via the robot teach pendant or a computer, and using one of the two Kawasaki's programming methodologies, Block Step or AS Language. The Block Step programming method eliminates time consuming program teaching with auto-path generating software. The AS Language provides the programmer ultimate flexibility via a Basic like syntax through any word processor text file. The programmer can create advanced logic, manipulate program locations in addition to creating and controlling the painting process. AS Language programs can create powerful "decision making" robots.

EASY SYSTEM INTEGRATION

Kawasaki Robotics also offers a control panel to enhance the ease of system building and interfacing with peripheral equipment such as robot traveling unit, workpiece transfer unit, rotation unit, and other devices. The control panel is an intuitive graphical interface that allows users to centrally operate and control all components of the robotic finishing system. It provides real time status information and access to production management information such as line monitoring data, data setting and modification of the coating requirements and coating unit control panel, as well as statistical data on production, errors, paint consumption, etc.

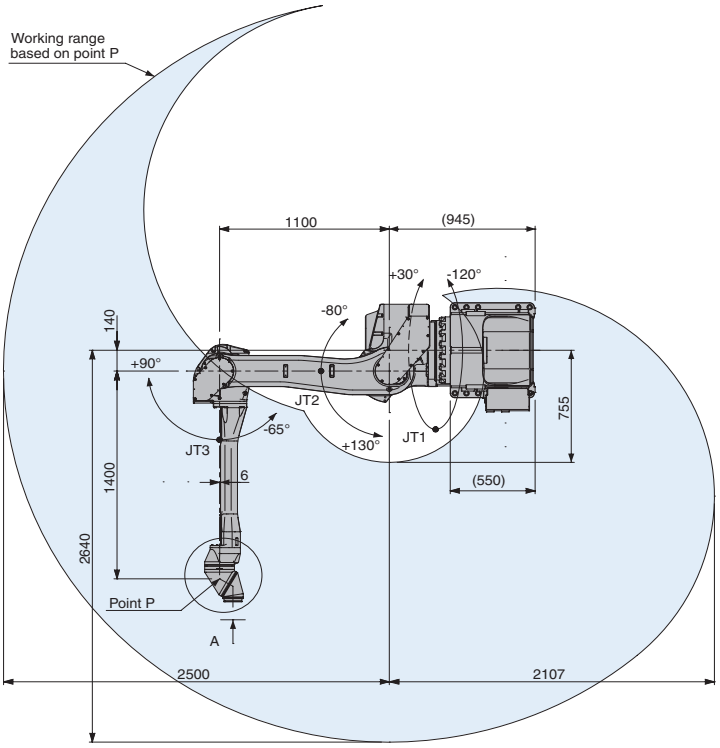
EXTENSIVE PAINTING EXPERIENCE

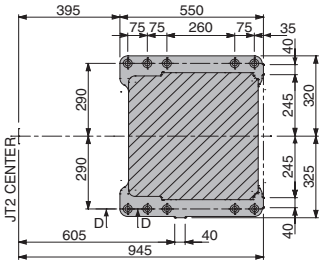
Over 30 years of successful robotic painting experience has enabled Kawasaki to design robots to meet the needs of today's most demanding customers. The K-Series Robots are now equipped with more advanced application functions than ever offered before, resulting in increased productivity. Our highly skilled paint systems professionals have both process and technology experience and are available to support your paint automation project, from the initial planning stage right up to equipment start-up.

Kawasaki

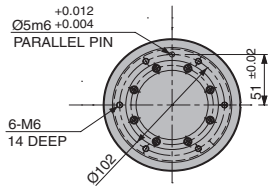
KJ264

MOTION RANGE & DIMENSIONS

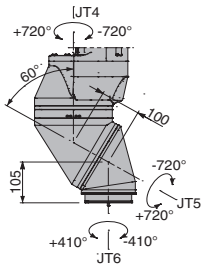




INSTALLATION DIMENSIONS



VIEW A



(mm)

Note: Detailed drawings are available upon request.

Simple and friendly

KJ264 (WALL) SPECIFICATIONS

Type	Articulated		
Degrees of Freedom	6 axes		
Payload	Wrist 15 kg, arm 25 kg		
Horizontal Reach	2,640 mm		
Vertical Reach	4,607 mm		
Repeatability	±0.5 mm		
Maximum Painting Speed	1,500 mm/s at the center of tool mounting surface		
Wrist Type	3R ø70 mm (Roll Roll Roll - hollow wrist)		
Work Envelope (degrees)	**Axis**	**Motion Range**	
	JT1	+30° ~ -120°	
	JT2	+130° ~ -80°	
	JT3	+90° ~ -65°	
	JT4	±720°	
	JT5	±720°	
	JT6	±410°	
Wrist Load Capacity	**Axis**	**Maximum Torque**	**Moment of Inertia**
	JT4	56.2 N·m	2.19 kg·m²
	JT5	43.4 N·m	1.31 kg·m²
	JT6	22.0 N·m	0.33 kg·m²
Motor(s)	Brushless AC Servomotor		
Brakes	All axes		
Hard Stop(s)	Adjustable mechanical stopper JT1		
Mass	530 kg (excluding Options)		
Installation	Wall (left and right side mount available)		
Environmental Conditions	Temperature	0 ~ 40° C	
	Humidity	35 ~ 85 % (no dew, nor frost allowed)	
Explosion Protection	Pressurized and intrinsically safe Class 1, Zone 1, Group IIB & T4 certified		
Air Supply to Manipulator	Input quantity, pressure: 0.5 Nm³/min., 0.4~0.7 MPa Clean and dry air: Solid material: 0.01 µm or less Oil content: mist separation 99.9999% or more Dew point: -17° C or less at atmospheric pressure		
Options	Linear track options Riser (300/600 mm) Base plate Adjustable mechanical stopper JT2/JT3 Jig set for zeroing Internal painting equipment: FGP motor (max. 1 unit) Solenoid valve for painting (max. 3 units) Electro pneumatic converter (max. 3 units) Upper arm cover Application hose cover		
Controller	E35 (See E Controller data sheet for specifications)		

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

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KJ264-D-F - REV02/14