



HIGH WRIST TORQUE ROBOTS

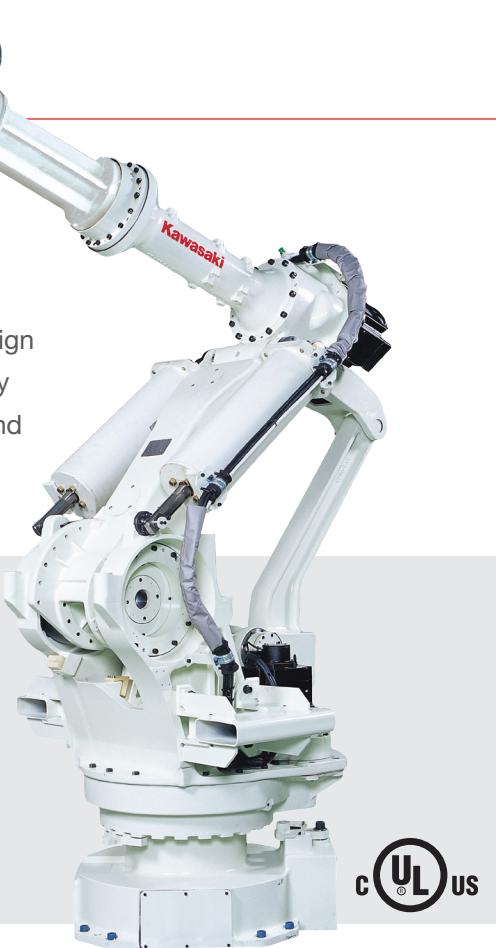
The M-Series maximum payload robots incorporate a compact profile design with long reach and high wrist torque. With an impressive payload capacity of up to 700 kg, the innovative robot line design gives it the power to lift and manipulate heavy loads with great ease and high accuracy.

MXE350L

Payload	350 kg
Horizontal Reach	3,018 mm
Vertical Reach	3,502 mm
Repeatability	±0.5 mm
Maximum Linear Speed	2,000 mm/s

Applications

- Machine Tending
- Material Handling



The M-Series Robots are ideal for lifting payloads that exceed the limits of most industrial robots. These robots can be utilized in a variety of industries and applications, including handling engines, manipulating car bodies, transferring assemblies, moving large tools, lifting heavy construction equipment, manipulating appliances, fixtureless manufacturing, investment casting and forging.

COMPACT PROFILE

Conventional high-payload robots require a large counter-balance weight which can cause interference in the work zone as well as limit the overall working range of the robot. Kawasaki's innovative Advanced Link Structure design (patent pending) eliminates the need for this counter-balance. This allows the robot to be used in a confined work zone while still maintaining the ability to fully articulate throughout the robot work envelope.

ULTRA HIGH WRIST TORQUE

Using advanced engineering techniques in motor technology, the robot is capable of industry-leading wrist torques of 5,488 N·m. In order for the MXE Robots to achieve one of the highest available wrist torques in the industry, Kawasaki high power servo motors are used on all six axes. This high wrist torque offers many benefits, including the ability to significantly offset the payload from the tool mounting flange.

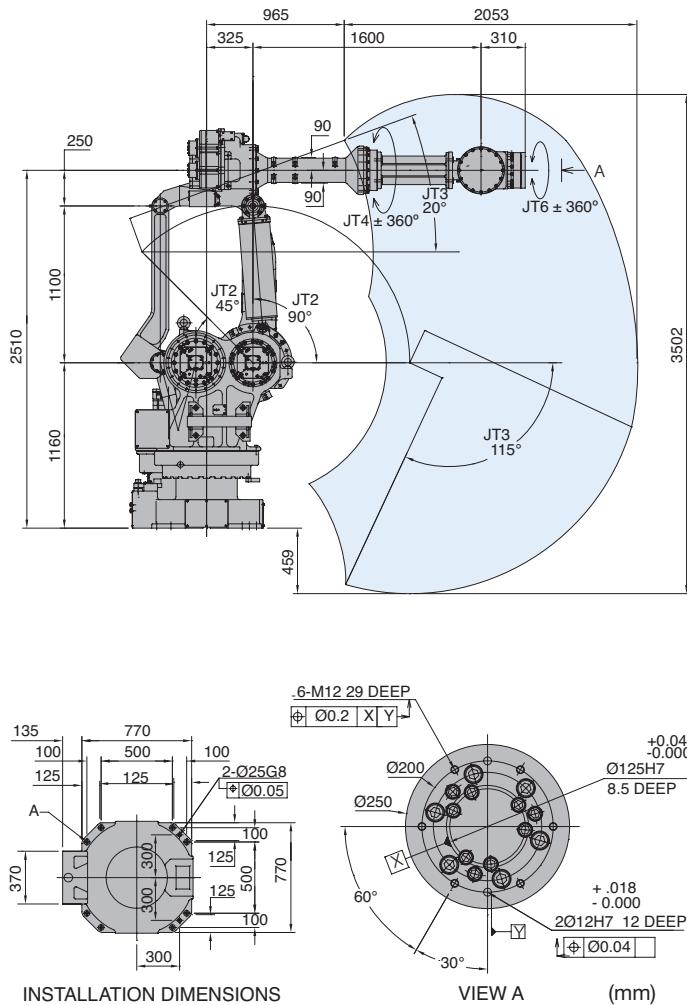
ADVANCED SAFETY FEATURES

The M-Series Robots are capable of manipulating extremely heavy loads smoothly and safely using Kawasaki's vibration suppression control and collision detection software. Additional mechanical stops and limit switches can be incorporated to further enhance working environment safety, even when the robot is operating in a confined work zone.

MODULAR ARM DESIGN

The MXE floor mounted robots are available in three different reach configurations (from 2,540 to 3,018 mm) and four payload capacities (from 350 to 700 kg) to suit most any high payload application. All four units use a common platform with a modular arm extension allowing the robots to be retrofitted in the field to either increase reach or payload. A maximum payload palletizing robot is also available based on the M-Series Robot platform - refer to Kawasaki's Palletizing Robots literature for more information on the 5-axis MDE model available in 400 kg and 500 kg payload capacity.

MOTION RANGE & DIMENSIONS



Note: Detailed drawings are available upon request.

MXE350L SPECIFICATIONS

Type	Articulated	
Degrees of Freedom	6 axes	
Payload	350 kg	
Horizontal Reach	3,018 mm	
Vertical Reach	3,502 mm	
Repeatability	±0.5 mm	
Maximum Linear Speed	2,000 mm/s at robot flange	
Work Envelope (degrees) & Maximum Speed (degrees/s)	Axis	Motion Range
	JT1	±180°
	JT2	+90° ~ -45°
	JT3	+20° ~ -115°
	JT4	±360°
	JT5	±110°
	JT6	±360°
Wrist Load Capacity	Axis	Maximum Torque
	JT4	2,740 N·m
	JT5	2,740 N·m
	JT6	1,960 N·m
Motor(s)	Brushless AC Servomotor	
	Brakes	
	All axes	
	Hard Stop(s)	
	Adjustable mechanical stopper JT1	
	Limit Switch	
	End of stroke limit switch JT1	
	Mass	
	2,800 kg (excluding Options)	
	Body Color	
Installation	Kawasaki Standard	
	Floor (includes fork pockets)	
	Temperature	0 ~ 45° C
Environmental Conditions	Humidity	35 ~ 85 % (no dew, nor frost allowed)
	Vibration	Less than 0.5 G
	Protection Classification	Wrist: IP65 Base: IP65 * Equivalent
Built-in Utilities	Pneumatic piping (ø12 x 2 lines)	
	Options	
Linear track options Base plate Adjustable mechanical stopper JT2/JT3 Limit switch JT2/JT3 Signal harness (up to 24 inputs and 8 outputs) Double/single solenoid valves (2 units max.) Air cleaning equipment (filter, regulator, mist separator) Piping for cooling water		
Controller	E34 (See E Controller data sheet for specifications)	

Simple  friendly

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

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