

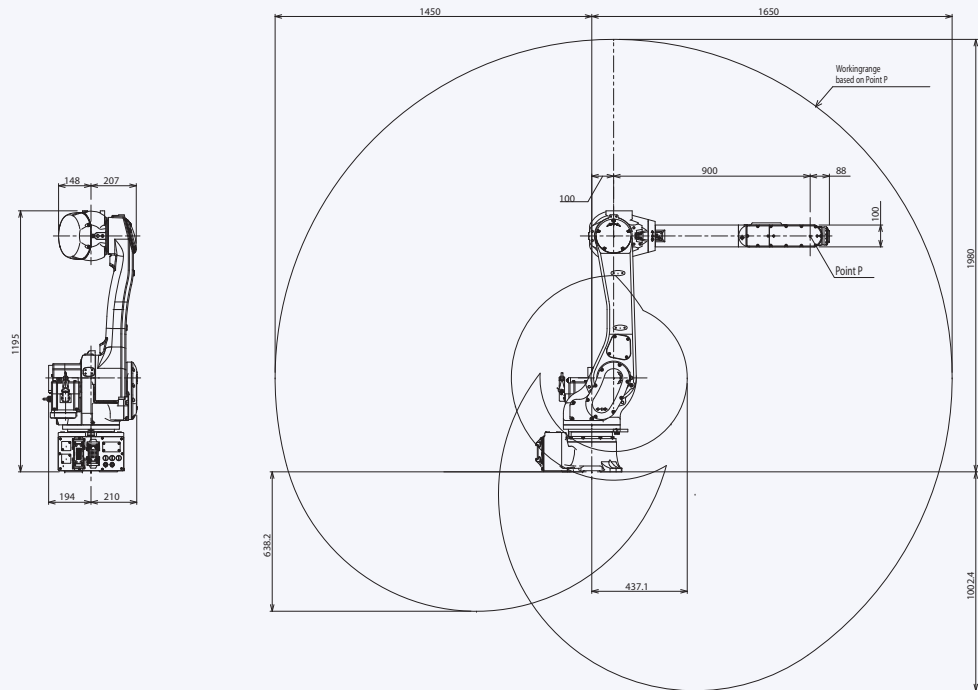
MODEL		RA006L	RA010N	RA010L
Degrees of Freedom				
Maximal Reach*1		1650 mm	1450 mm	1925 mm
Maximum Payload		6 kg	10 kg	10 kg
Maximum Stroke	Axis 1	±180 °	±180 °	±180 °
	Axis 2	+145 ° ~ -105 °	+145 ° ~ -105 °	+155 ° ~ -105 °
	Axis 3	+150 ° ~ -163°	+150 ° ~ -163 °	+150 ° ~ -163 °
	Axis 4	±270 °	±270 °	±270 °
	Axis 5	±145 °	±145 °	±145 °
	Axis 6	±360 °	±360 °	±360 °
Maximum Speed	Axis 1	250 °/s	250 °/s	190 °/s
	Axis 2	250°/s	250 °/s	205 °/s
	Axis 3	215 °/s	215 °/s	210 °/s
	Axis 4	365 °/s	365 °/s	400 °/s
	Axis 5	380 °/s	380 °/s	360 °/s
	Axis 6	700 °/s	700 °/s	610 °/s
Moment	Axis 4	13,0 N·m	22,0 N·m	22,0 N·m
	Axis 5	13,0 N·m	22,0 N·m	22,0 N·m
	Axis 6	7,5 N·m	10,0 N·m	10,0 N·m
Moment of Inertia	Axis 4	0,45 kg·m²	0,7 kg·m²	0,7 kg·m²
	Axis 5	0,45 kg·m²	0,7 kg·m²	0,7 kg·m²
	Axis 6	0,14 kg·m²	0,2 kg·m²	0,2 kg·m²
Repeatability (Measure Point: Middle of Flange)		± 0,06 mm	± 0,06 mm	± 0,06 mm
Weight		150 kg	150 kg	230 kg
Max. linear Speed (Measure Point: Middle of Flange)		13.700 mm/s	11.800 mm/s	13.100 mm/s
Controller		E40		
Color		Munsell 10GY9/1		
Installation		Floor or Ceiling		
Ambient Conditions	Temperature	0 ~ 45 °C		
	Humidity	35 ~ 85 % (no Dew, nor Frost allowed)		
	Vibration	< 0.5 G		
	Others	Installation Ambience must be free of: • Inflammable or corrosive Liquid or Gas • Electric Noise Interferences		
Protection Class		IP65		

*1 Distance between Centre of Axis 1 and Axis 5

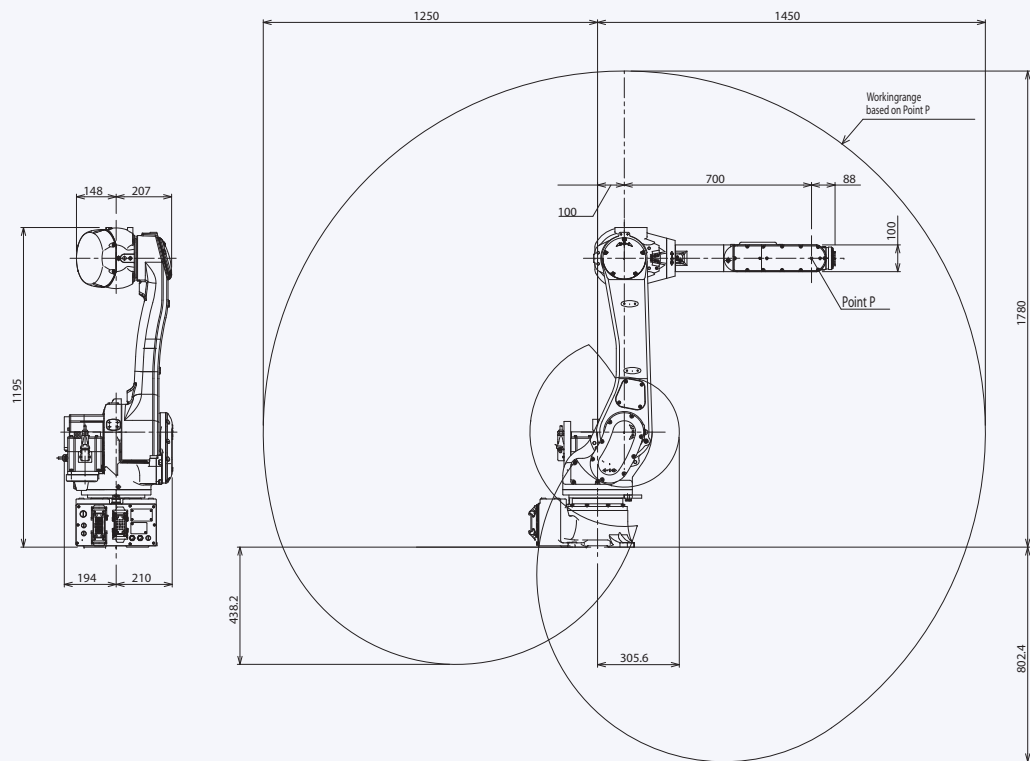


Motion Range & Dimensions

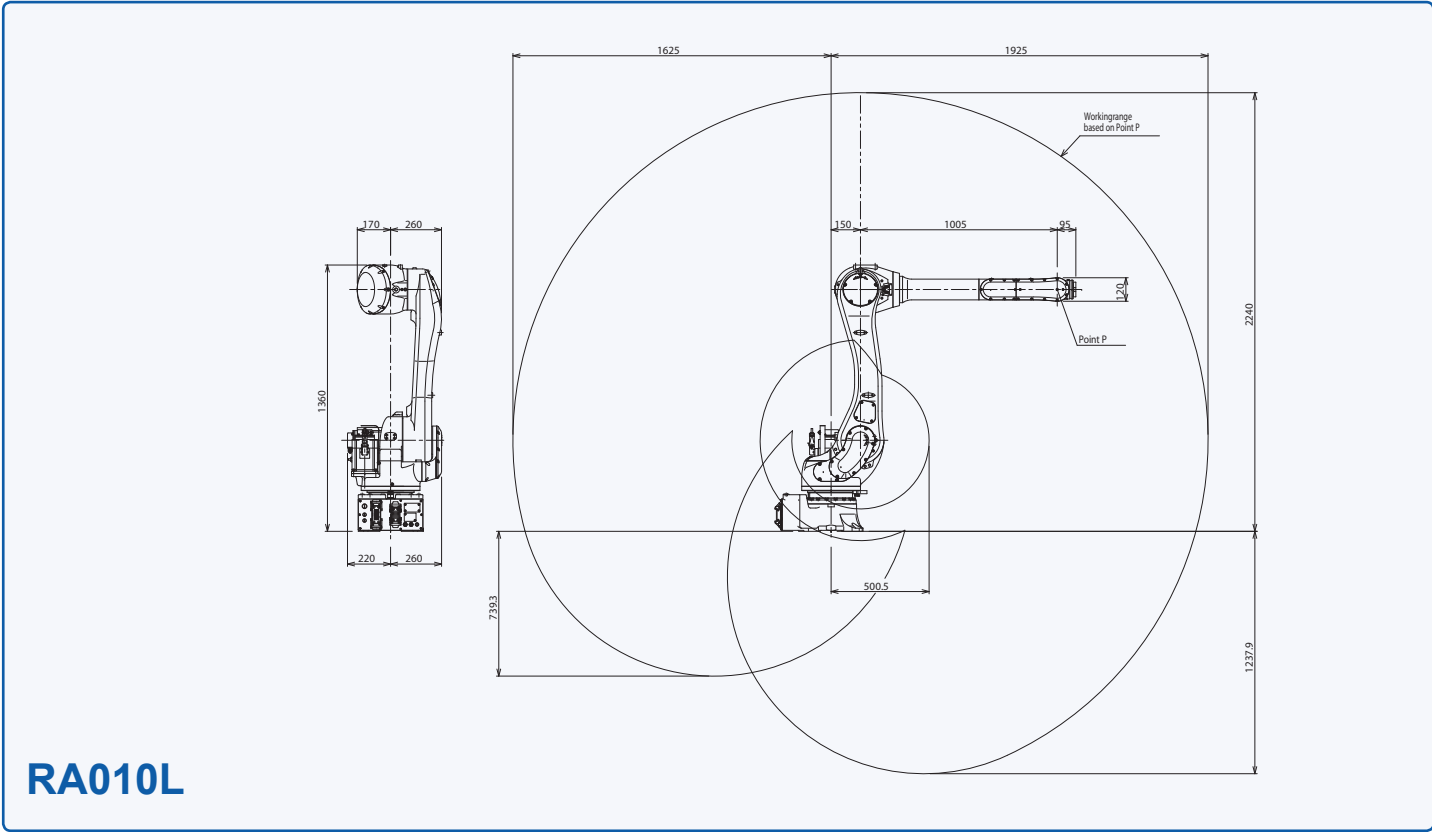
RA006L



RA010N



Motion Range & Dimensions



E CONTROLLER

The E-Controller – technically mature, easy to operate and powerful

Compact, upgradeable and user-friendly

A maximum of 10 external axes may be integrated, up to three of which in the controller housing (E4x). All established bus systems (Interbus, Profibus, ProfiNet...) are supported. The integrated Soft PLC may be edited via Teach Pendant or even more comfortably at the PC (option). Custom-tailored user interfaces may be programmed and used for the simplified control of the robot and also peripheral devices.

Motor power ON and program start may be activated directly via the manual control unit. The parallel display of two information screens (e.g. position and signal data) facilitates the process control.

System

Ultra-fast execution of programs, loading and storing processes as well as a precise continuous-path control and much more thanks to the up-to-date processor design and powerful components. 8 MB RAM (80,000 steps) and USB interface as standard.

Maintenance

»Simple and friendly« – Due to the optimized modular configuration of the Kawasaki control, maintenance work is exceptionally user-friendly. Furthermore integrated service and diagnosis tools guarantee increased safety in operation. Remote diagnosis via Ethernet is also included in the standard package.

MODEL		E40
Number of Controlled Axes		6 (optional 16)
Servo Motors		Brushless AC Servomotors
Position Detectors		Absolute Encoder
Servo System		Full digital servo system
Programming		Block or AS-Language
Coordinate Systems		Joint, Base, Tool (Option: external Tool)
Motion Control		Joint-, Linear- and Circular interpolated
Signals	External	External Motor power, Signal HOLD, etc.
	Input	32 (optional 128)
	Output	32 (optional 128)
	Analogue Input (optional)	8/16
	Analogue Output (optional)	4/8/12/16
Memory		8 MB (ca. 80.000 steps)
External Memory		2 x USB
Data Interfaces	PC, Network, etc.	2 x RS-232C, 2 x Ethernet
	Fieldbus (optional)	DeviceNet, PROFIBUS, PROFINET, INTERBUS-S, Ethernet/IP, CC-Link, CANopen, Modbus TCP, Control Net
Teach Pendant		6.4" LCD with Touch Panel, Emergency Stop SW, Teach-Lock, Deadman SW, Motor power, Program start, Hold/Run
Operation Panel		Emergency Stop SW, Control Power, TEACH/REPEAT
Cable Length (Controller – Arm), (Controller – Teach Pendant)		10 m (Arm: optional up to 15 m), (TP: optional up to 15 m)
Dimensions (WxDxH mm)		550x550x1200
Weight (kg)		145
Power Requirements		AC 380-415V ± 10%, 50/60 Hz, 3 Phases, 4,9 kVA (E40) / 9,9 kVA (E42)
Ground		< 100 Ω, Leakage Current max. 10 mA
Safety Category		3, Performance Level d (EN ISO13849-1:2008)
Ambience Temperature / Humidity		0-45°C, 35-85% (no Dew, nor Frost allowed)
Surface		Color: Munsell 10GY9/1
Arc Welding functions		Welding sequence setup, build-in Arc Welding interface and data base, wire inching/retracting, gas on

Note: Not all Options can be combined.

