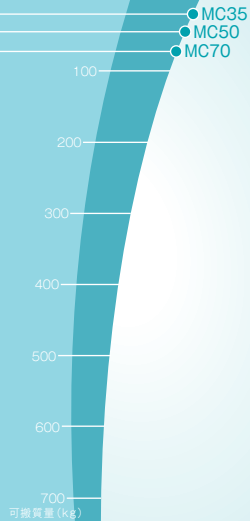


“Powerful & Compact” Robot for various manufacturing processes.

MC35/50/70



Adaptable to various production environments

- The new MC (35/50/70kg) has a std.IP54 rating for the body, (optional IP65/IP67) and std.IP67 for the arm/wrist. Available IP ratings make the MC Series ideal for various applications that include harsh environments that previously required expensive robot covers.

Large working envelope and powerful robot arm

- Maximum reach of 2,050mm, (best in class). Strong wrist torque can handle a large variety of applications.

MC35/50/70

Robot specifications

Item		Specifications		
Robot model		MC35-01	MC50-01	MC70-01
Construction		Articulated construction		
Number of axes		6		
Drive system		AC servo system		
Max. operating area	J1	±2.88rad(±165°)		
	J2	+1.39~-2.35rad(+80~-135°)		
	J3	+4.54~-2.55rad(+260~-146°)		
	J4	±6.28rad(±360°)		
	J5	±2.18rad(±125°)		
	J6	±7.84rad(±450°)		
Max. speed	J1	3.23rad/s(185°/s)	3.14rad/s(180°/s)	3.05rad/s(175°/s)
	J2	3.14rad/s(180°/s)		2.53rad/s(145°/s)
	J3	3.32rad/s(190°/s)	3.14rad/s(180°/s)	2.88rad/s(165°/s)
	J4	5.32rad/s(305°/s)	4.45rad/s(255°/s)	4.10rad/s(235°/s)
	J5	5.32rad/s(305°/s)	4.45rad/s(255°/s)	4.10rad/s(235°/s)
	J6	7.33rad/s(420°/s)	6.46rad/s(370°/s)	6.11rad/s(350°/s)
Payload	Wrist	35kg	50kg	70kg
	Forearm	15kg		
Wrist torque	J4	160N·m	210N·m	300N·m
	J5	160N·m	210N·m	300N·m
	J6	90N·m	130N·m	150N·m
Wrist moment of inertia ^{※1}	J4	16kg·m ²	30kg·m ²	
	J5	16kg·m ²	30kg·m ²	
	J6	5kg·m ²	12kg·m ²	
Position repeat accuracy ^{※2}		±0.07mm		
Maximum working air pressure		0.49MPa (5.0kgf/cm ²) 以下		
Ambient temperature		0~45°C		
Installation		Floor mounted		
Environmental resistance ^{※3}	Body	Meets the IP54 standard (optional IP65/67)		
	Wrist	Meets the IP67 standard (for dust and waterproofing)		
Robot mass		640kg		

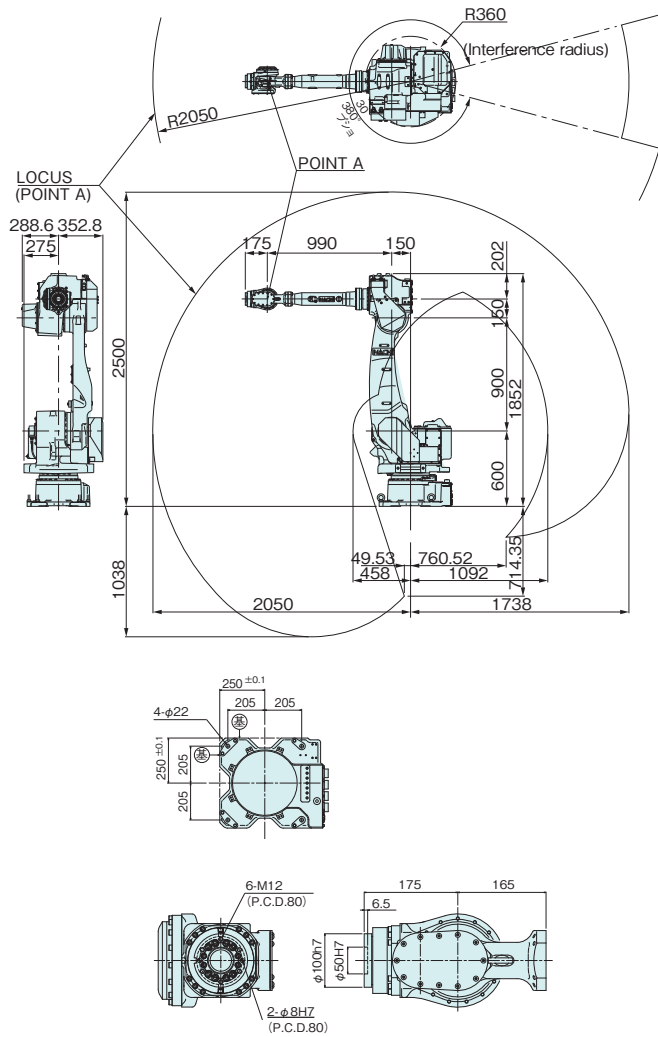
1[rad] = 180/π[°], 1[N·m] = 1/9.8[kgf·m]

※1 : Note that wrist moment of inertia varies depending on wrist load conditions.

※2 : JIS B 8432 compliant.

※3 : Fluids that corrode the seal material, such as organic solvents, acids, alkalis, salts and petroleum-based cutting fluids, cannot be used.

Exterior dimensions and operating envelope



*The specifications are subject to changes without notice.

•In case that an end user uses this product for military purpose or production of weapon, this product may be liable for the subject of export restriction stipulated in the Foreign Exchange and Foreign Trade Control Law. Please go through careful investigation and necessary formalities for export.

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CATALOG NO.

7308-3

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