YASKAWA

Multi-Purpose Robot
MOTOMAN-MH and UP Series

Certified for
ISO9001 and
ISO14001

JAB
QMS Accreditation
R009

JQA-0813

JQA-EM0202

Yaskawa builds optimum facilities with a complete lineup and the new DX200 robot controller.

Save Space Energy

Structures, performance, and functions designed for optimum application help you downsize production facilities and save energy.

Hardware

Manipulator

Best Performance in its class

High speed and high precision have been achieved by using high-speed, low-inertia AC servomotors and state-of-the-art control technology. A slimmer robot form has also been developed, while wrist allowable inertia has been increased.

Applicable in Severe Environments

The waterproof and dustproof structure (IP67 class level)*1 at the wrist part enables the robot to operate in environments subject to water drops and dust.

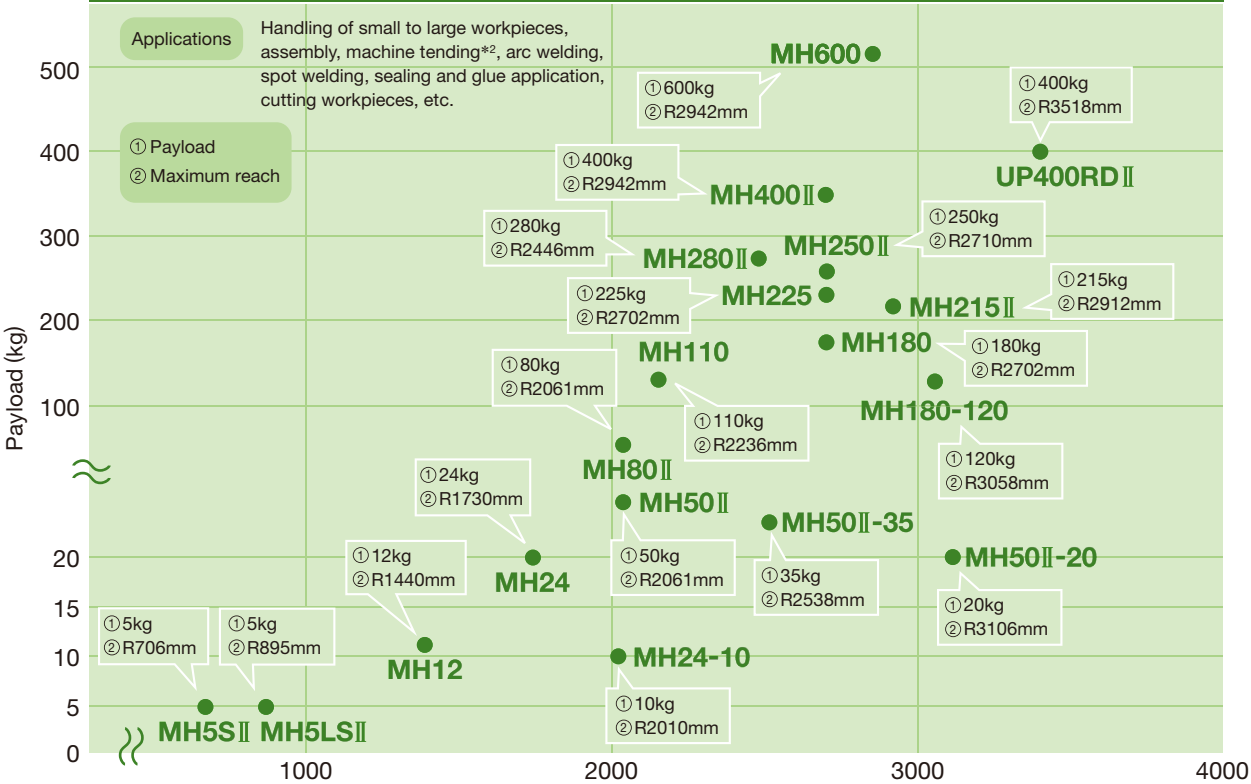
*1 : MH5SⅡ and MH5LSⅡ are available as options.

Robot Controller DX200

Installation space for the control panel is reduced by 50%.

The DX200 is a low-floor robot controller developed with Yaskawa's expertise acquired through the development of products for various applications. The amplifier for three external axes and other options that previously required attachment tools can now be housed inside a standard cabinet, reducing the required space for installation by up to 50%. The safety functions have been strengthened by improving the safety performance of the speed limiting function and tool switching monitoring function.

Line-up of Multi-purpose Robot



*2 : Loading and unloading for NC machine tools, die-casting, bending, injection molding presses, etc.

Short processing

Increased freedom in operation or compact and slim design have made the new robots more optimized for specific applications. High-density installation has contributed customers production line to saving space. The facility which enables integrated process, rapid production and saving space is called “short processing”.

New robot solutions

- Slimmer design enables closer mounting.
- Smaller Controller saves space.
- Multiple Robot Controller prevents robots from collisions.
- Installation space reduced by safety function (restricting the range of Robot operation).

Short process

- Shorter production lines.
- Reduced number of processes.

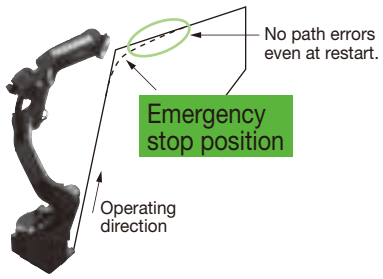
Customer advantages

- Highly efficient production.
- Better quality.
- Saving energy.

Software

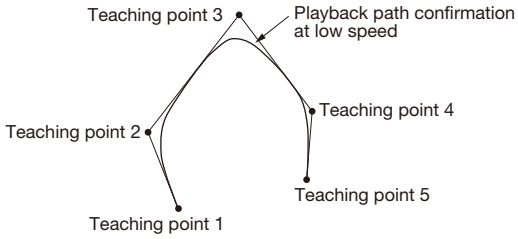
No Deviation from Track at Emergency Stop

The Robot stops on the taught path at emergency stop and will not deviate from the path when restarting, preventing interference of the Robot with nearby obstacles.



Playback Path Confirmation

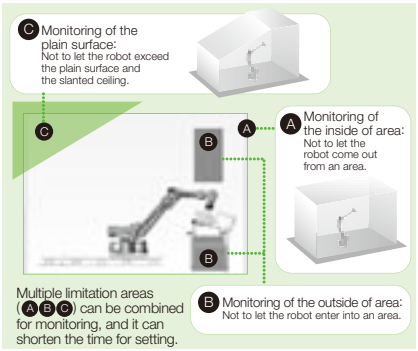
The playback path mode during a test operation can be confirmed by a low speed test operation. This has mode the teaching operation with the optimum path in minimal time possible while verifying the existence of interference with workpieces or jigs.

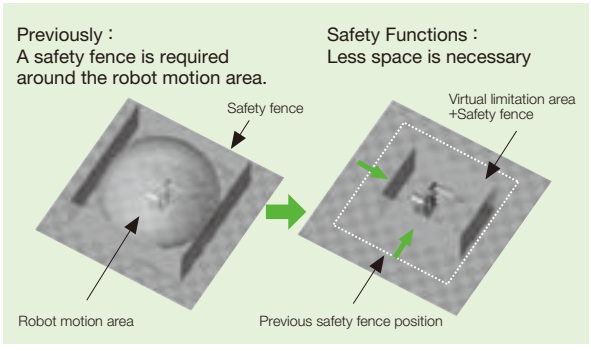


Minimized Area for Safety Fence Installation

Optional

Movements of the robot can be limited within an optimal range for the attached tool by monitoring positions of the robot and tool with the functional safety module equipped with two CPUs. With this function, the safety fence can be installed for an area that is smaller than the motion range of the robot, which reduces the required installation space for production equipment.

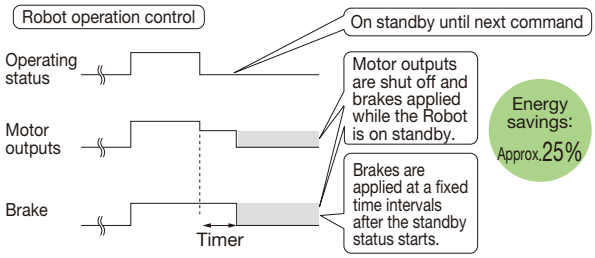




Saving Energy

- The servos are turned OFF automatically when the Robot is stopped for a long period of time. Reduced power consumption helps lower running costs.

〈Conditions〉
Twenty-four-hour operation in which the Robot is operating for 16 hours and on standby for 8 hours

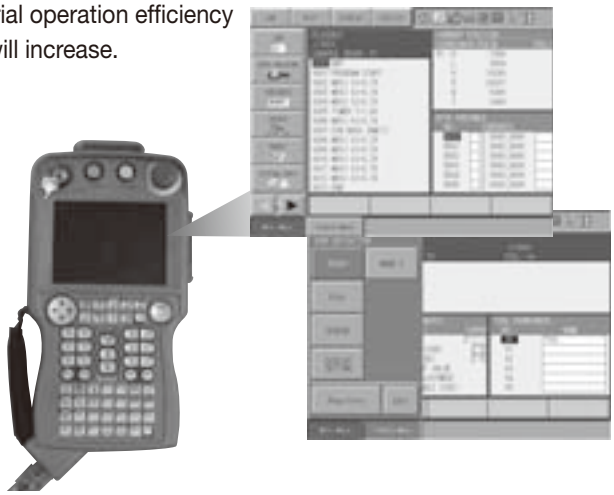


Easy Operation Simulation

Operability of teaching and simulation have been improved to reduce time required for system startup.

Multi-window Display Function

Program operation can be checked while monitoring I/O or variables on the programming pendant so that teaching and trial operation efficiency will increase.



MotoSimEG-VRC Simulator Optional

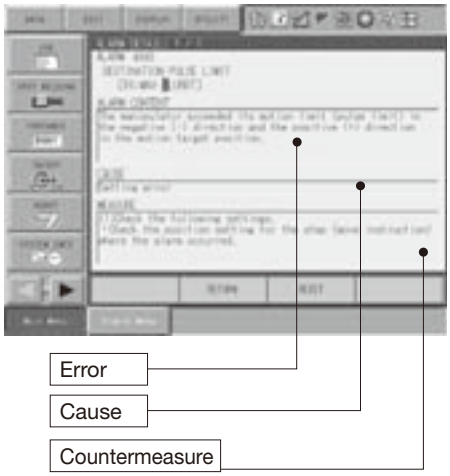
The Simulator has evolved from merely simulating Robot operation to a Virtual Controller that reproduces the functions, operations, and displays of the actual Robot. Easy simulation is possible by anyone with an understanding of Robot operation.

Quick Maintenance Troubleshooting

MOTOMAN continually strives to improve monitoring, troubleshooting, and structures to reduce maintenance and recovery time from failures.

Troubleshooting

When an alarm occurs, the detail, cause, and countermeasure of the error are displayed on the Programming Pendant to provide measures for troubleshooting.



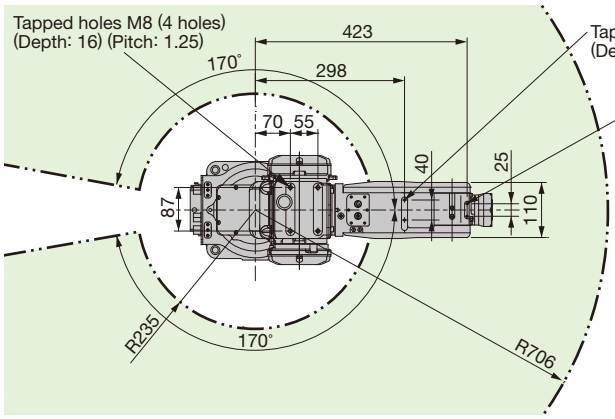
Reduced Replacement Time for Parts

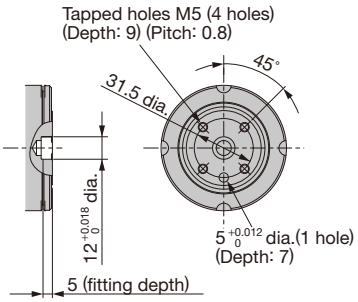
We have reduced the time required to replace Controller parts to shorten recovery time when troubles do occur. (Required time for replacement: from 10 to 8 minutes: reduced by 20%)
The encoder can be replaced with standard tools since it employs a unit style and thus the required time for replacement is reduced.
An optional zeroing function can be used to accurately and quickly reset the home position after replacing the motor or encoder.

MOTOMAN-MH5SⅡ

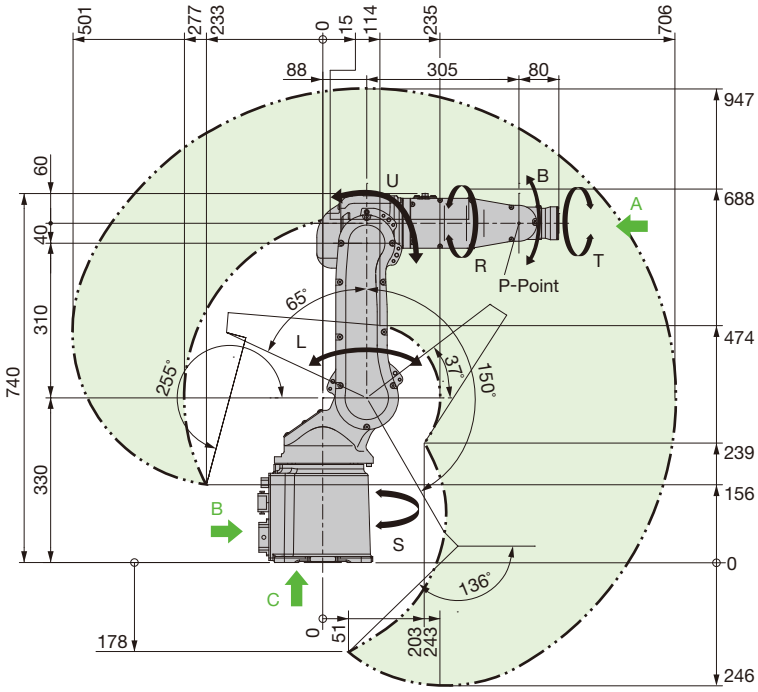
5 kg payload, R706 mm maximum reach

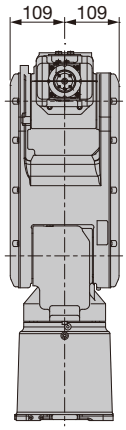
Dimensions Units : mm : P-point Maximum Envelope

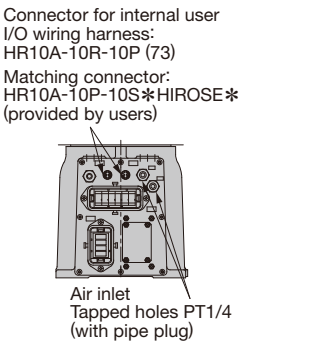




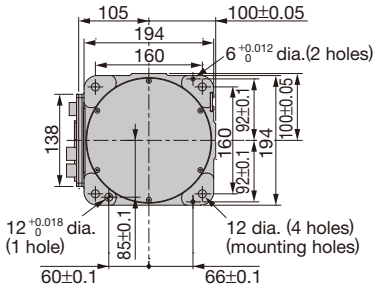
View A







View B



View C

Manipulator Specifications

Model		MOTOMAN-MH5SⅡ*3
Type		YR-MH0005S-J00
Controlled Axis		6 (Vertically articulated)
Payload		5 kg
Repeatability*1		±0.02 mm
Range of Motion	S -axis (turning)	−170° – +170°
	L -axis (lower arm)	−65° – +150°
	U -axis (upper arm)	−136° – +255°
	R -axis (wrist roll)	−190° – +190°
	B -axis (wrist pitch/yaw)	−135° – +135°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	6.56 rad/s, 376°/s
	L -axis (lower arm)	6.11 rad/s, 350°/s
	U -axis (upper arm)	6.98 rad/s, 400°/s
	R -axis (wrist roll)	7.85 rad/s, 450°/s
	B -axis (wrist pitch/yaw)	7.85 rad/s, 450°/s
	T -axis (wrist twist)	12.57 rad/s, 720°/s

Allowable Moment	R -axis (wrist roll)	12 N·m
	B -axis (wrist pitch/yaw)	12 N·m
	T -axis (wrist twist)	7 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	0.30 kg·m²
	B -axis (wrist pitch/yaw)	0.30 kg·m²
	T -axis (wrist twist)	0.1 kg·m²
Approx. Mass		27 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		1.0 kVA

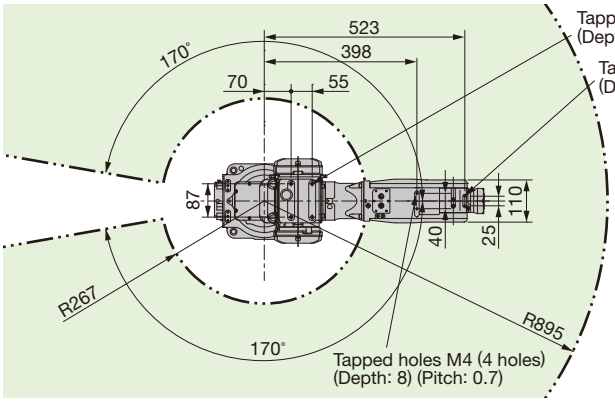
∗1 : Conforms to ISO 9283.
∗2 : Varies in accordance with applications and motion patterns.
∗3 : Also compatible with FS100 controller.
For details, refer to the KAEP C940440 06 catalog.

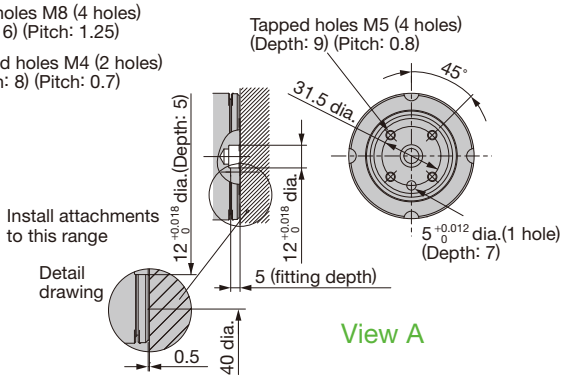
Note : SI units are used for specifications.

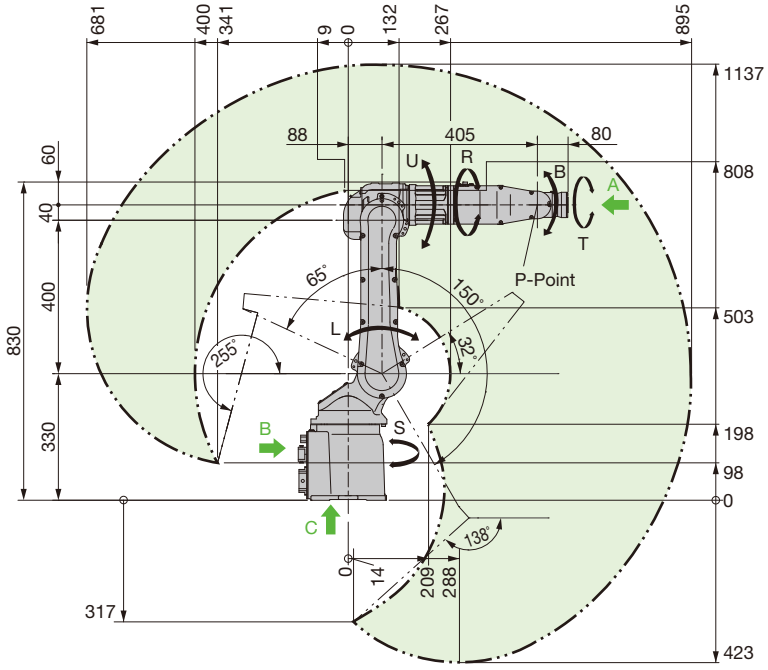
MOTOMAN-MH5LSⅡ

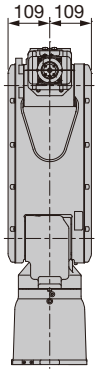
5 kg payload, R895 mm maximum reach

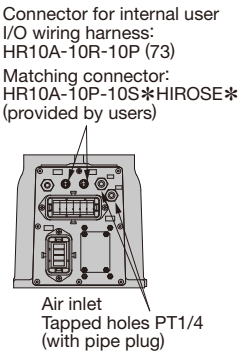
Dimensions Units : mm : P-point Maximum Envelope

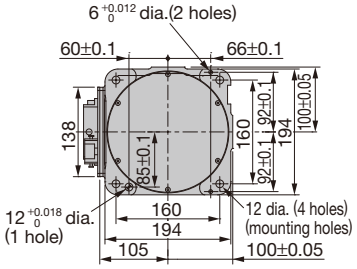












Manipulator Specifications

Model		MOTOMAN-MH5LSⅡ∗3
Type		YR-MH005LS-J00
Controlled Axis		6 (Vertically articulated)
Payload		5 kg
Repeatability∗1		±0.03 mm
Range of Motion	S -axis (turning)	−170° – +170°
	L -axis (lower arm)	−65° – +150°
	U -axis (upper arm)	−138° – +255°
	R -axis (wrist roll)	−190° – +190°
	B -axis (wrist pitch/yaw)	−135° – +135°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	4.71 rad/s, 270°/s
	L -axis (lower arm)	4.89 rad/s, 280°/s
	U -axis (upper arm)	5.24 rad/s, 300°/s
	R -axis (wrist roll)	7.85 rad/s, 450°/s
	B -axis (wrist pitch/yaw)	7.85 rad/s, 450°/s
	T -axis (wrist twist)	12.57 rad/s, 720°/s

Allowable Moment	R -axis (wrist roll)	12 N·m
	B -axis (wrist pitch/yaw)	12 N·m
	T -axis (wrist twist)	7 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	0.30 kg·m²
	B -axis (wrist pitch/yaw)	0.30 kg·m²
	T -axis (wrist twist)	0.1 kg·m²
Approx. Mass		29 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements∗2		1.0 kVA

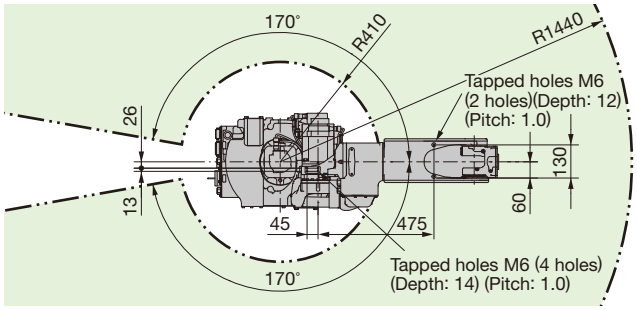
∗1 : Conforms to ISO 9283.
∗2 : Varies in accordance with applications and motion patterns.
∗3 : Also compatible with FS100 controller.
For details, refer to the KAEP C940440 06 catalog.

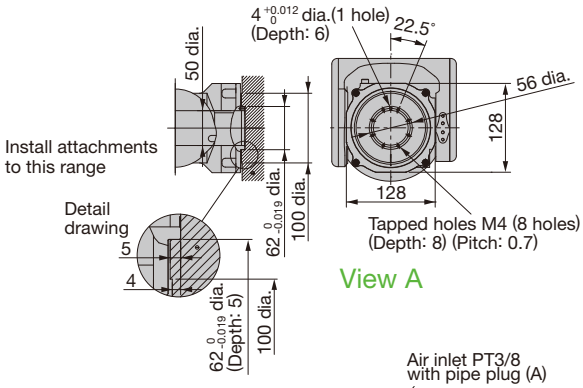
Note : SI units are used for specifications.

MOTOMAN-MH12

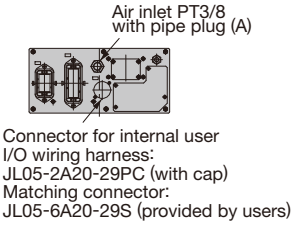
12 kg payload, R1440 mm maximum reach

Dimensions Units : mm : P-point Maximum Envelope

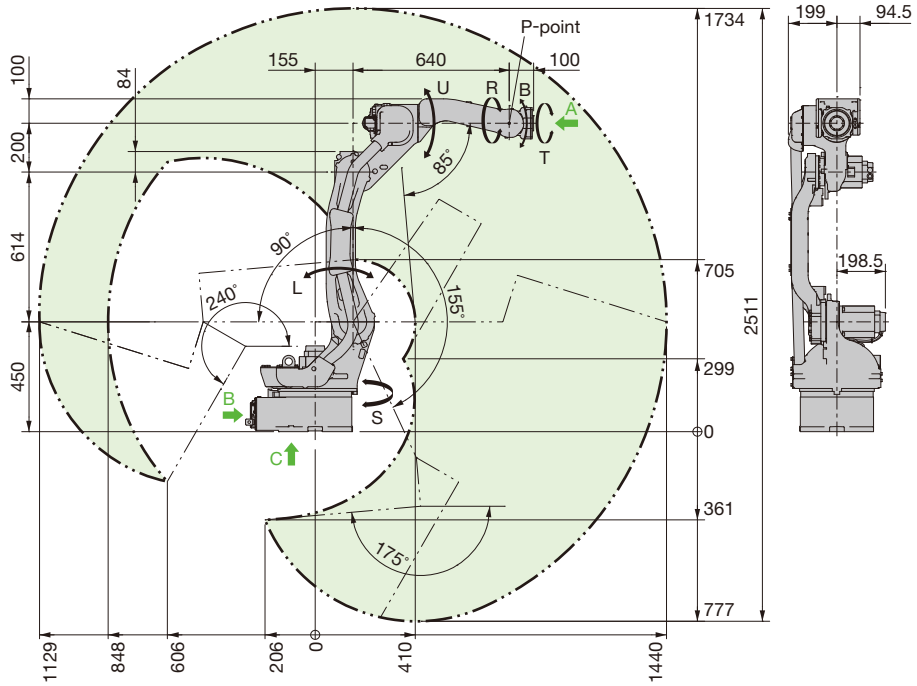


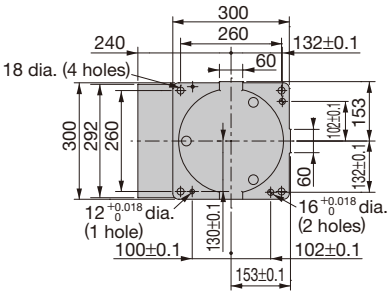


View A



View B





View C

Manipulator Specifications

Model		MOTOMAN-MH12*3
Type		YR-MA1440/MH12-A00
Controlled Axis		6 (Vertically articulated)
Payload		12 kg
Repeatability*1		±0.08 mm
Range of Motion	S -axis (turning)	−170° – +170°
	L -axis (lower arm)	−90° – +155°
	U -axis (upper arm)	−175° – +240°
	R -axis (wrist roll)	−180° – +180°
	B -axis (wrist pitch/yaw)	−135° – +135°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	3.84 rad/s, 220°/s
	L -axis (lower arm)	3.49 rad/s, 200°/s
	U -axis (upper arm)	3.84 rad/s, 220°/s
	R -axis (wrist roll)	7.16 rad/s, 410°/s
	B -axis (wrist pitch/yaw)	7.16 rad/s, 410°/s
	T -axis (wrist twist)	10.60 rad/s, 610°/s

Allowable Moment	R -axis (wrist roll)	22 N·m
	B -axis (wrist pitch/yaw)	22 N·m
	T -axis (wrist twist)	9.8 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	0.65 kg·m²
	B -axis (wrist pitch/yaw)	0.65 kg·m²
	T -axis (wrist twist)	0.17 kg·m²
Approx. Mass		130 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		1.5 kVA

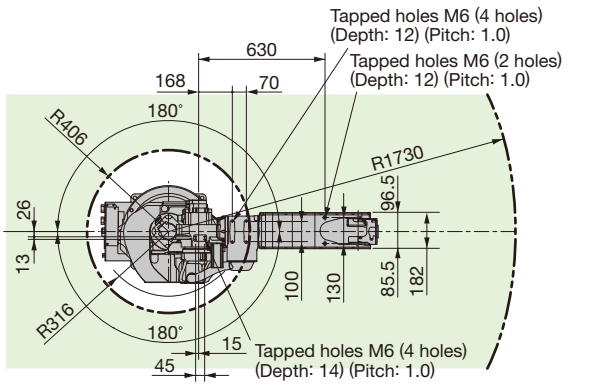
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
*3 : Also compatible with FS100 controller.
For details, refer to the KAEP C940440 06 catalog.

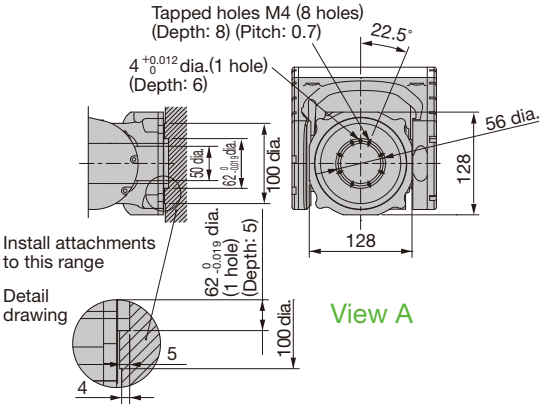
Note : SI units are used for specifications.

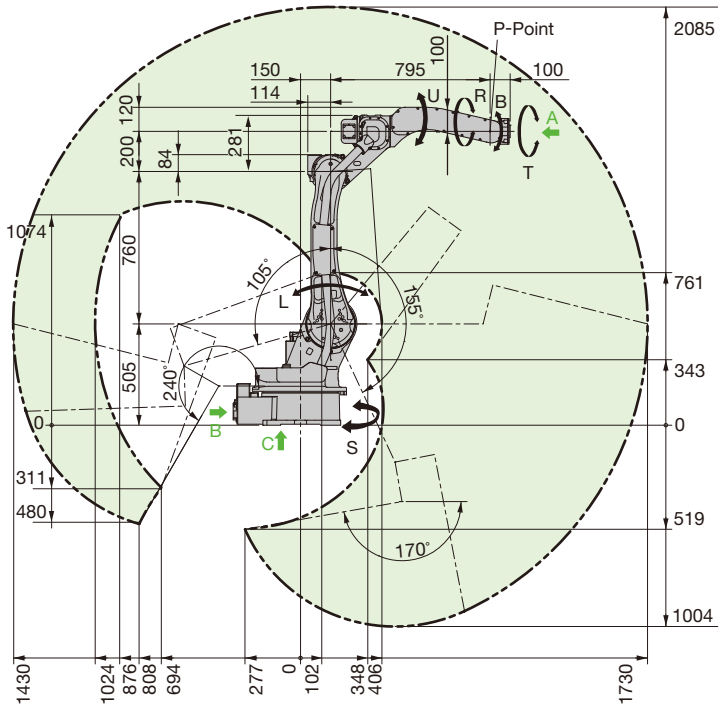
MOTOMAN-MH24

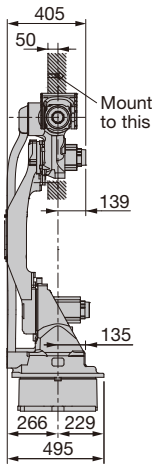
24 kg payload, R1730 mm maximum reach

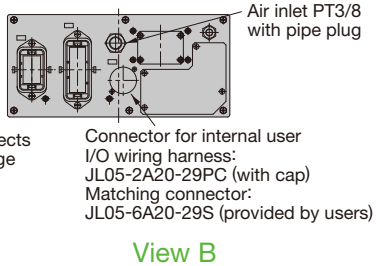
Dimensions Units : mm : P-point Maximum Envelope

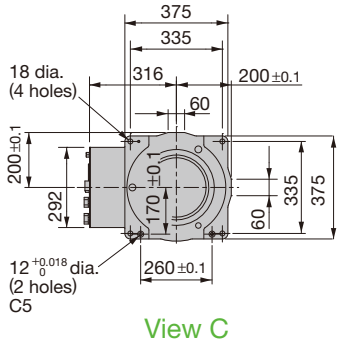










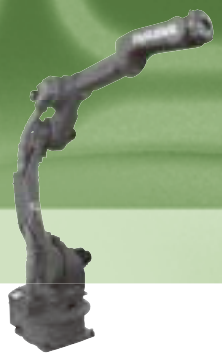


Manipulator Specifications

Model		MOTOMAN-MH24
Type		YR-MH00024-A00
Controlled Axis		6 (Vertically articulated)
Payload		24 kg
Repeatability*1		±0.06 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−105° – +155°
	U -axis (upper arm)	−170° – +240°
	R -axis (wrist roll)	−200° – +200°
	B -axis (wrist pitch/yaw)	−150° – +150°
	T -axis (wrist twist)	−455° – +455°
Maximum Speed	S -axis (turning)	3.44 rad/s, 197°/s
	L -axis (lower arm)	3.32 rad/s, 190°/s
	U -axis (upper arm)	3.67 rad/s, 210°/s
	R -axis (wrist roll)	7.16 rad/s, 410°/s
	B -axis (wrist pitch/yaw)	7.16 rad/s, 410°/s
	T -axis (wrist twist)	10.82 rad/s, 620°/s

Allowable Moment	R -axis (wrist roll)	50.0 N·m
	B -axis (wrist pitch/yaw)	50.0 N·m
	T -axis (wrist twist)	30.4 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	2.1 kg·m²
	B -axis (wrist pitch/yaw)	2.1 kg·m²
	T -axis (wrist twist)	1.1 kg·m²
Approx. Mass		268 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		2.0 kVA

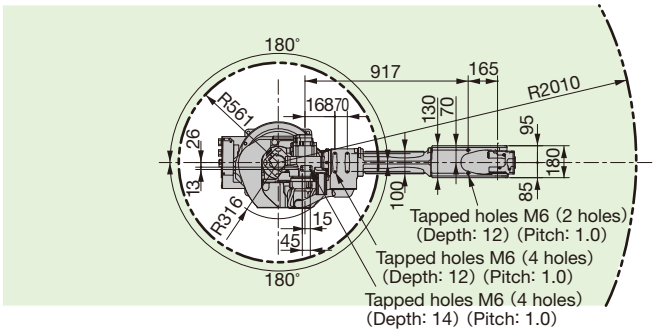
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

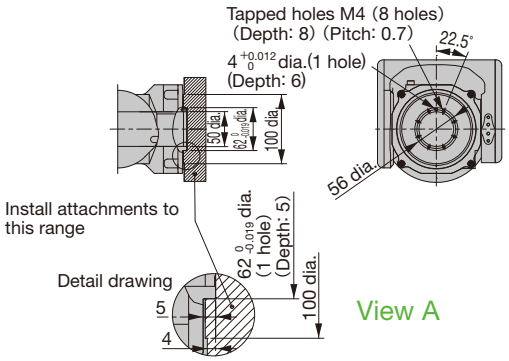


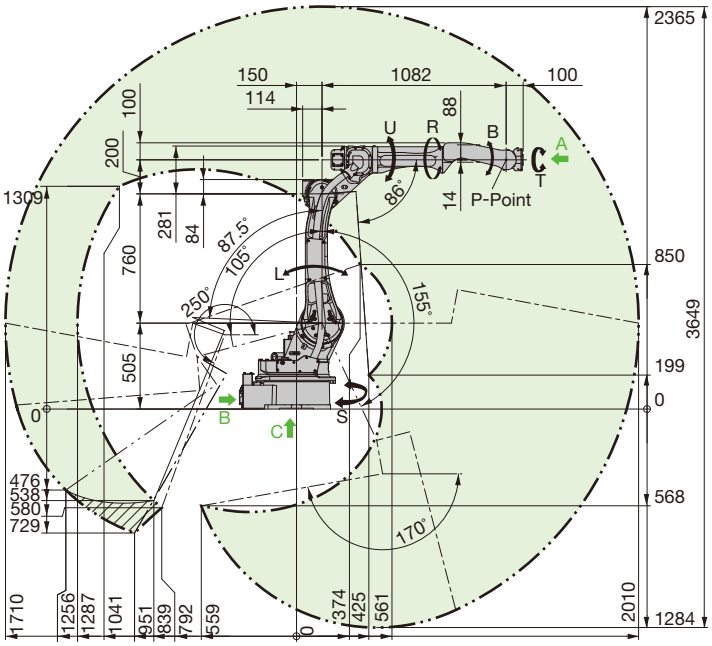
MOTOMAN-MH24-10

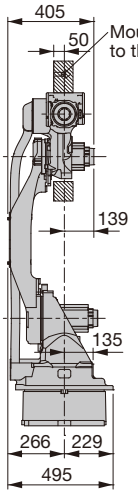
10 kg payload, R2010mm maximum reach

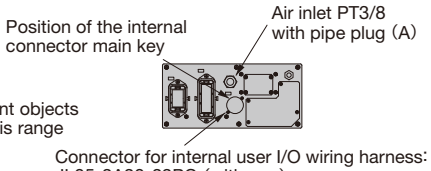
Dimensions Units : mm : P-point Maximum Envelope

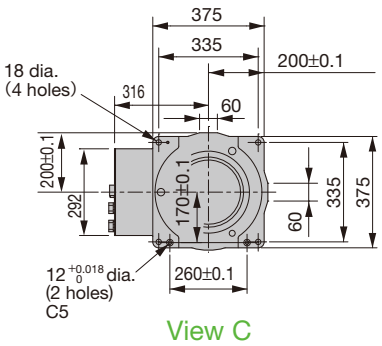












Manipulator Specifications

Model		MOTOMAN-MH24-10
Type		YR-MH00024-A10
Controlled Axis		6 (Vertically articulated)
Payload		10 kg
Repeatability*1		±0.08 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−105° – +155°
	U -axis (upper arm)	−170° – +250°
	R -axis (wrist roll)	−200° – +200°
	B -axis (wrist pitch/yaw)	−135° – +135°
	T -axis (wrist twist)	−455° – +455°
Maximum Speed	S -axis (turning)	3.44 rad/s, 197°/s
	L -axis (lower arm)	3.32 rad/s, 190°/s
	U -axis (upper arm)	3.67 rad/s, 210°/s
	R -axis (wrist roll)	7.16 rad/s, 410°/s
	B -axis (wrist pitch/yaw)	7.16 rad/s, 410°/s
	T -axis (wrist twist)	10.60 rad/s, 610°/s

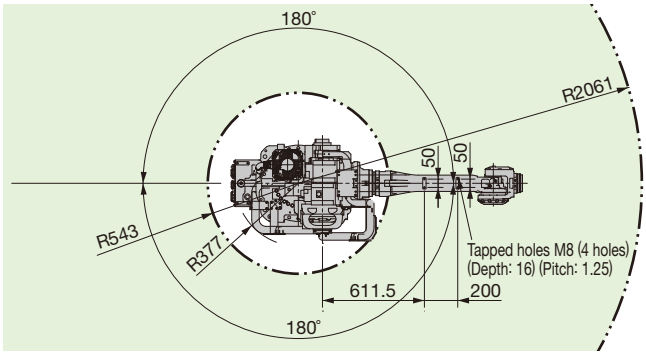
Allowable Moment	R -axis (wrist roll)	22 N·m
	B -axis (wrist pitch/yaw)	22 N·m
	T -axis (wrist twist)	9.8 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	0.65 kg·m²
	B -axis (wrist pitch/yaw)	0.65 kg·m²
	T -axis (wrist twist)	0.17 kg·m²
Approx. Mass		280 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		2.0 kVA

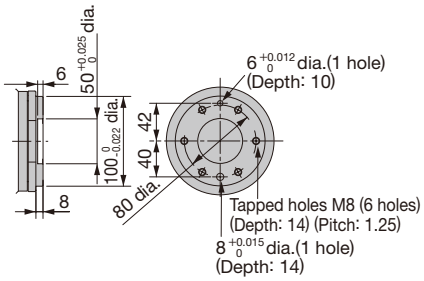
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH50Ⅱ

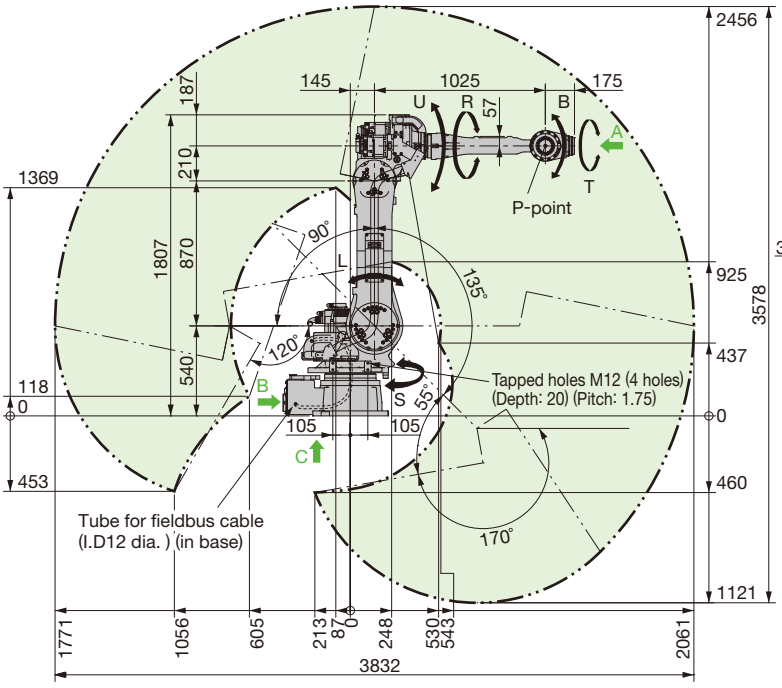
50 kg payload, R2061mm maximum reach

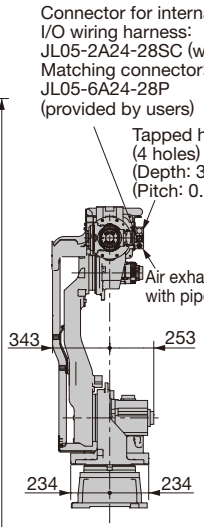
Dimensions Units : mm : P-point Maximum Envelope

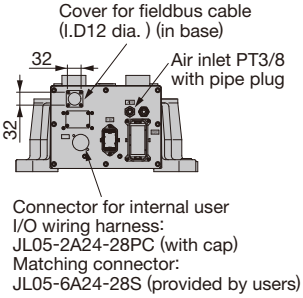




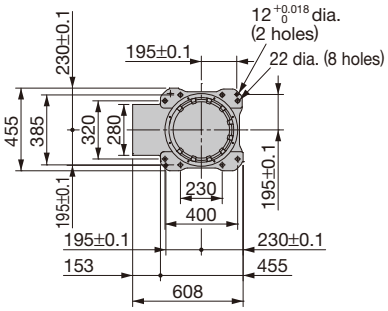
View A







View B



View C

Manipulator Specifications

Model		MOTOMAN-MH50Ⅱ
Type		YR-MH00050-J00
Controlled Axis		6 (Vertically articulated)
Payload		50 kg
Repeatability*1		±0.07 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−90° – +135°
	U -axis (upper arm)	−170° – +251°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−125° – +125°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	3.14 rad/s, 180°/s
	L -axis (lower arm)	3.11 rad/s, 178°/s
	U -axis (upper arm)	3.11 rad/s, 178°/s
	R -axis (wrist roll)	4.36 rad/s, 250°/s
	B -axis (wrist pitch/yaw)	4.36 rad/s, 250°/s
	T -axis (wrist twist)	6.28 rad/s, 360°/s

Allowable Moment	R -axis (wrist roll)	216 N·m
	B -axis (wrist pitch/yaw)	216 N·m
	T -axis (wrist twist)	147 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	28 kg·m²
	B -axis (wrist pitch/yaw)	28 kg·m²
	T -axis (wrist twist)	11 kg·m²
Approx. Mass		550 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		4.0 kVA

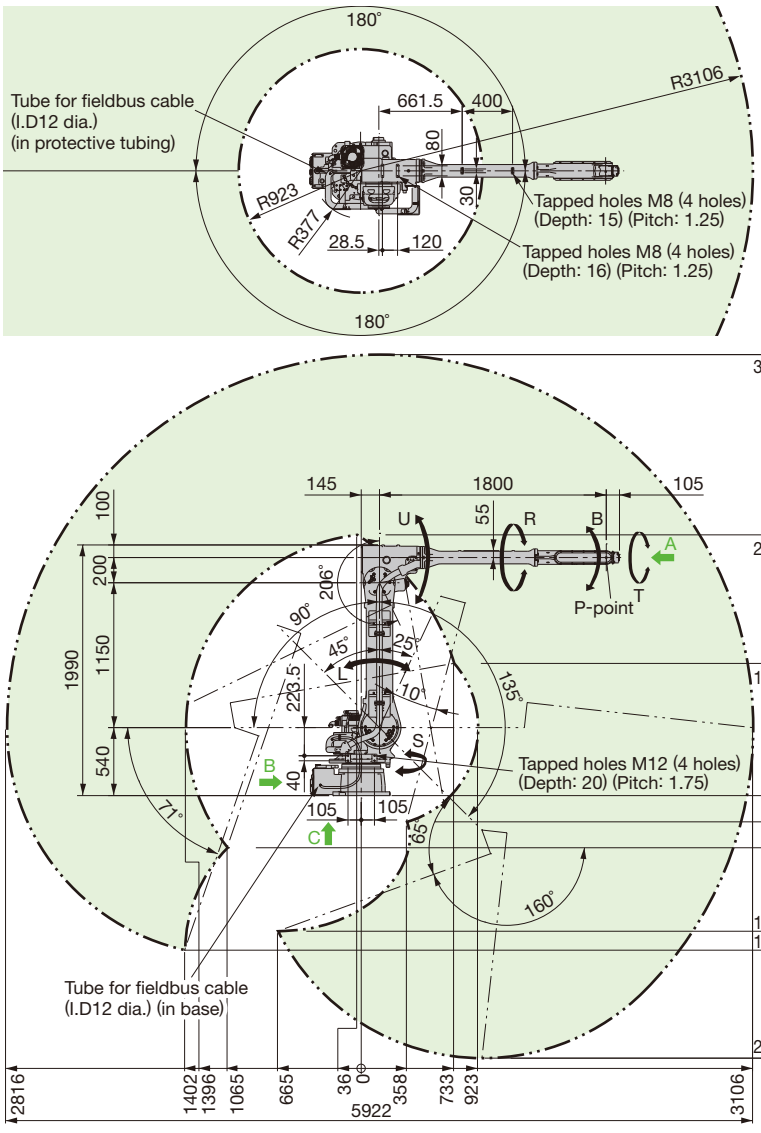
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.

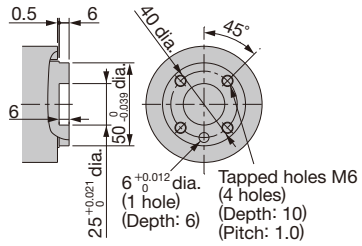
Note : SI units are used for specifications.

MOTOMAN-MH50Ⅱ-20

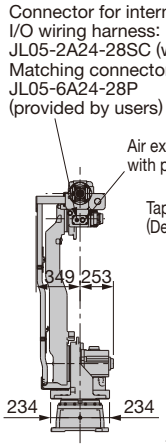
20 kg payload, R3106mm maximum reach

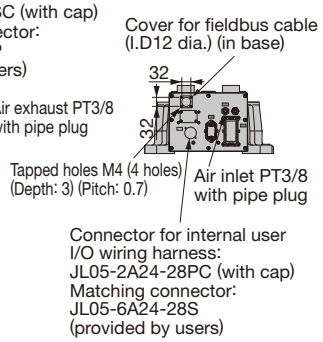
Dimensions Units : mm : P-point Maximum Envelope



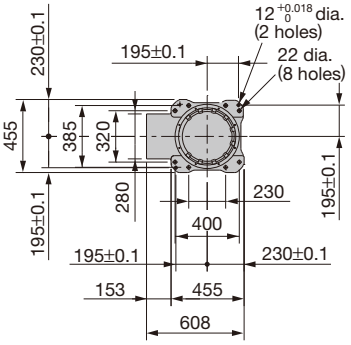


View A





View B



View C

Manipulator Specifications

Model		MOTOMAN-MH50Ⅱ-20
Type		YR-MH00050-J10
Controlled Axis		6 (Vertically articulated)
Payload		20 kg
Repeatability*1		±0.15 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−90° – +135°
	U -axis (upper arm)	−160° – +251°
	R -axis (wrist roll)	−190° – +190°
	B -axis (wrist pitch/yaw)	−50° – +230°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	3.14 rad/s, 180°/s
	L -axis (lower arm)	3.11 rad/s, 178°/s
	U -axis (upper arm)	3.11 rad/s, 178°/s
	R -axis (wrist roll)	6.98 rad/s, 400°/s
	B -axis (wrist pitch/yaw)	6.98 rad/s, 400°/s
	T -axis (wrist twist)	10.47 rad/s, 600°/s

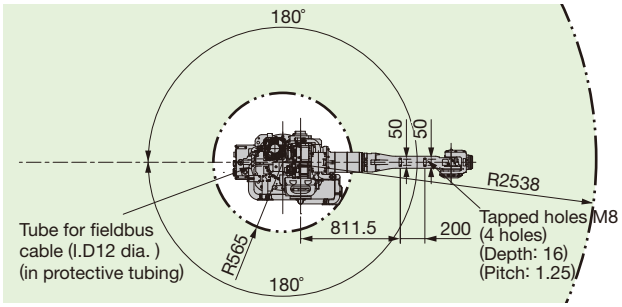
Allowable Moment	R -axis (wrist roll)	39.2 N·m
	B -axis (wrist pitch/yaw)	39.2 N·m
	T -axis (wrist twist)	19.6 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	1.05 kg·m²
	B -axis (wrist pitch/yaw)	1.05 kg·m²
	T -axis (wrist twist)	0.75 kg·m²
Approx. Mass		495 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		3.5 kVA

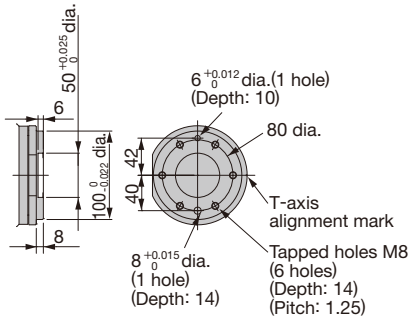
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH50Ⅱ-35

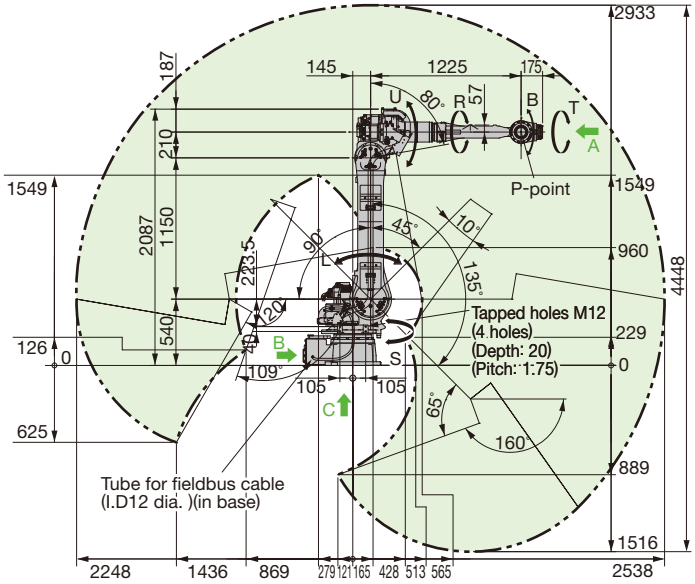
35 kg payload, R2538mm maximum reach

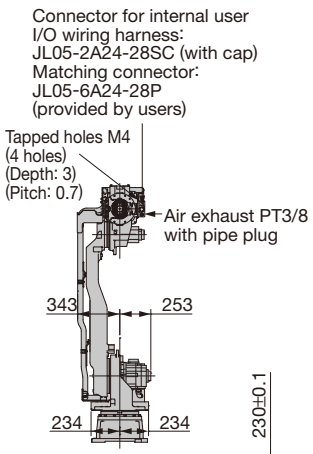
Dimensions Units : mm : P-point Maximum Envelope

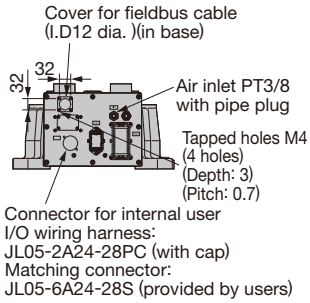




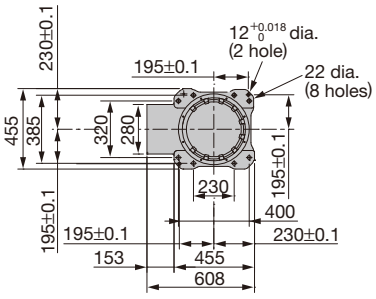
View A







View B



View C

Manipulator Specifications

Model		MOTOMAN-MH50Ⅱ-35
Type		YR-MH00050-J20
Controlled Axis		6 (Vertically articulated)
Payload		35 kg
Repeatability*1		±0.07 mm
Range of Motion	S -axis (turning)	−180° – +180° (−30° – +30° when mounted on the wall)
	L -axis (lower arm)	−90° – +135°
	U -axis (upper arm)	−160° – +251°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−125° – +125°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	3.14 rad/s, 180°/s
	L -axis (lower arm)	2.44 rad/s, 140°/s
	U -axis (upper arm)	3.11 rad/s, 178°/s
	R -axis (wrist roll)	4.36 rad/s, 250°/s
	B -axis (wrist pitch/yaw)	4.36 rad/s, 250°/s
	T -axis (wrist twist)	6.28 rad/s, 360°/s

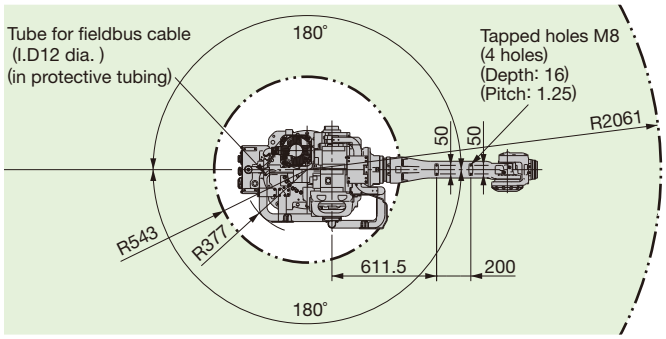
Allowable Moment	R -axis (wrist roll)	147 N·m
	B -axis (wrist pitch/yaw)	147 N·m
	T -axis (wrist twist)	78 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	10 kg·m²
	B -axis (wrist pitch/yaw)	10 kg·m²
	T -axis (wrist twist)	4 kg·m²
Approx. Mass		570 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		4.0 kVA

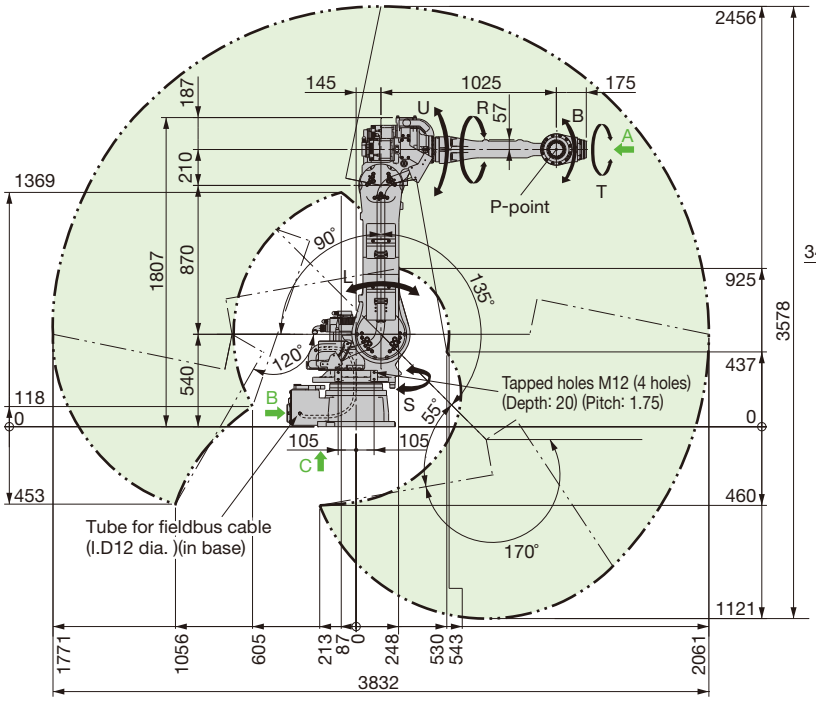
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

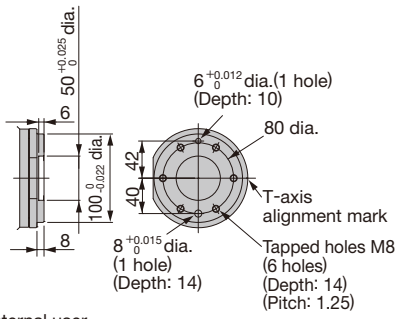
MOTOMAN-MH80Ⅱ

80 kg payload, R2061mm maximum reach

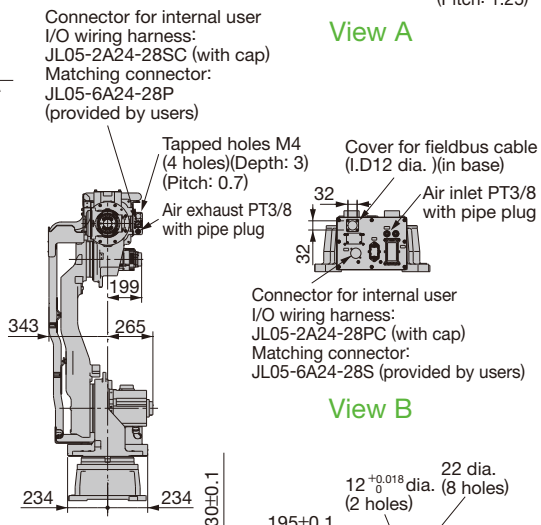
Dimensions Units : mm : P-point Maximum Envelope



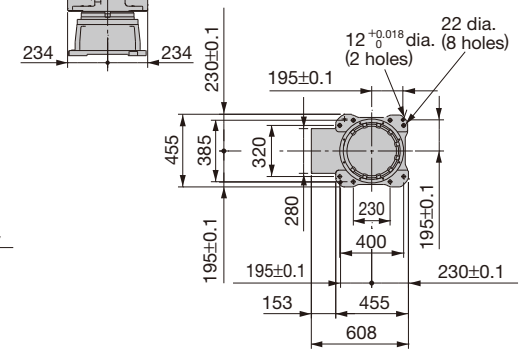




View A



View B



View C

Manipulator Specifications

Model		MOTOMAN-MH80Ⅱ
Type		YR-MH00080-J00
Controlled Axis		6 (Vertically articulated)
Payload		80 kg
Repeatability*1		±0.07 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−90° – +135°
	U -axis (upper arm)	−170° – +251°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−125° – +125°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	2.97 rad/s, 170°/s
	L -axis (lower arm)	2.44 rad/s, 140°/s
	U -axis (upper arm)	2.79 rad/s, 160°/s
	R -axis (wrist roll)	4.01 rad/s, 230°/s
	B -axis (wrist pitch/yaw)	4.01 rad/s, 230°/s
	T -axis (wrist twist)	6.11 rad/s, 350°/s

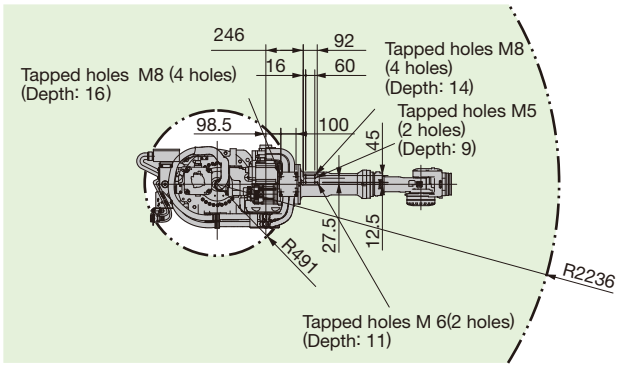
Allowable Moment	R -axis (wrist roll)	392 N·m
	B -axis (wrist pitch/yaw)	392 N·m
	T -axis (wrist twist)	196 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	28 kg·m²
	B -axis (wrist pitch/yaw)	28 kg·m²
	T -axis (wrist twist)	11 kg·m²
Approx. Mass		555 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		4.5 kVA

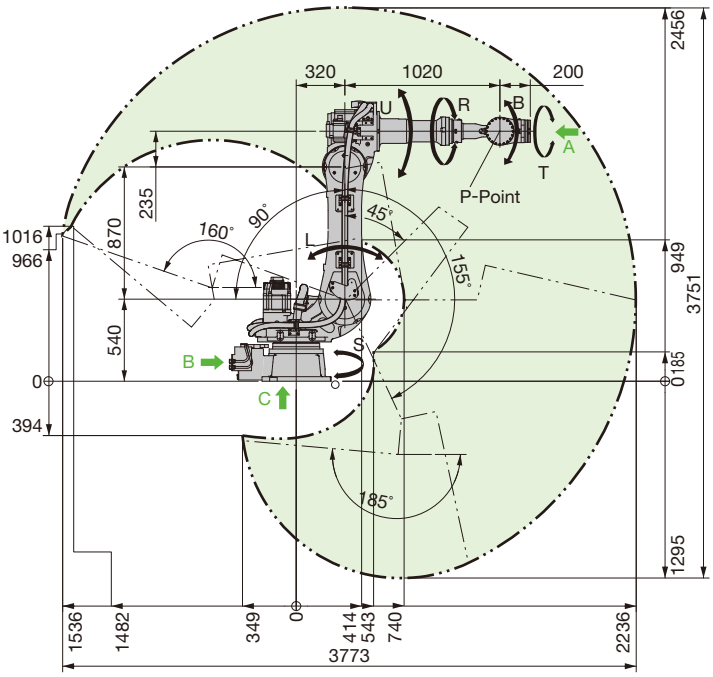
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

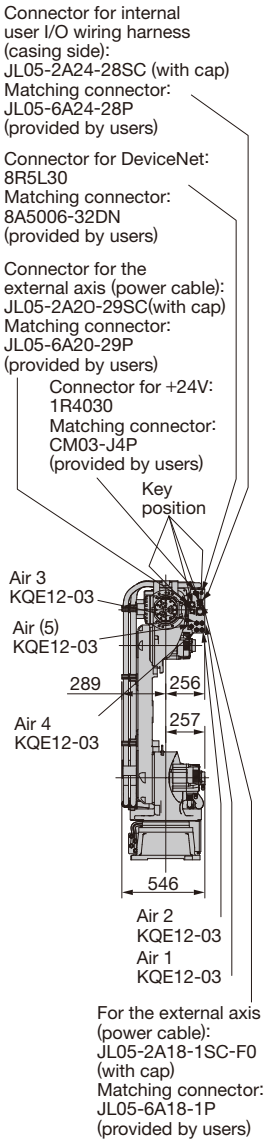
MOTOMAN-MH110

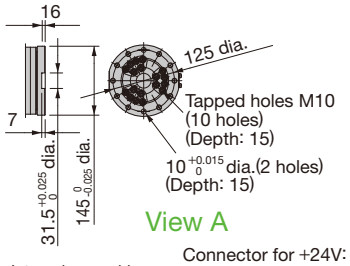
110 kg payload, R2236 mm maximum reach

Dimensions Units : mm : P-point Maximum Envelope

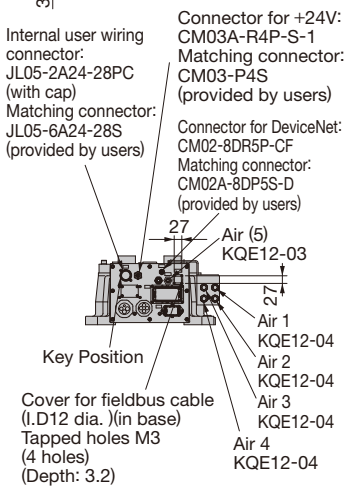




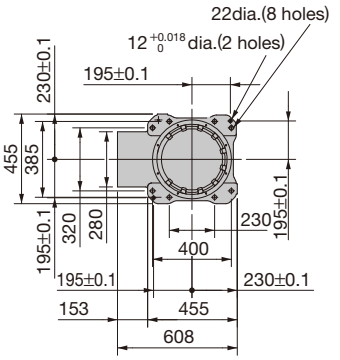




View A



View B



View C

Manipulator Specifications

Model		MOTOMAN-MH110
Type		YR-MS100/MH110-A00
Controlled Axis		6 (Vertically articulated)
Payload		110 kg
Repeatability*1		±0.07 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−90° – +155°
	U -axis (upper arm)	−185° – +160°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−125° – +125°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	2.45 rad/s, 140°/s
	L -axis (lower arm)	1.92 rad/s, 110°/s
	U -axis (upper arm)	2.27 rad/s, 130°/s
	R -axis (wrist roll)	3.05 rad/s, 175°/s
	B -axis (wrist pitch/yaw)	3.05 rad/s, 175°/s
	T -axis (wrist twist)	4.44 rad/s, 255°/s

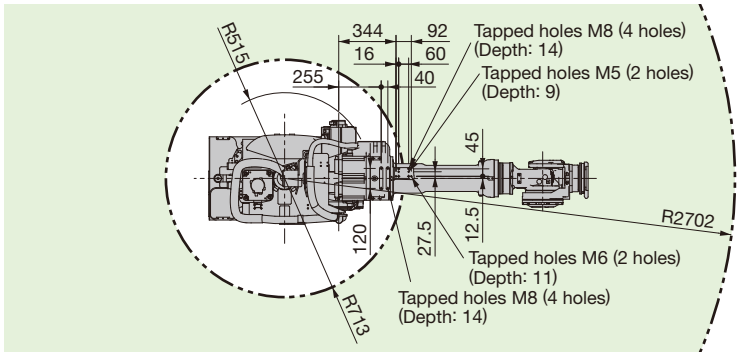
Allowable Moment	R -axis (wrist roll)	721 N·m
	B -axis (wrist pitch/yaw)	721 N·m
	T -axis (wrist twist)	294 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	60 kg·m²
	B -axis (wrist pitch/yaw)	60 kg·m²
	T -axis (wrist twist)	33.7 kg·m²
Approx. Mass		625 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		5.0 kVA

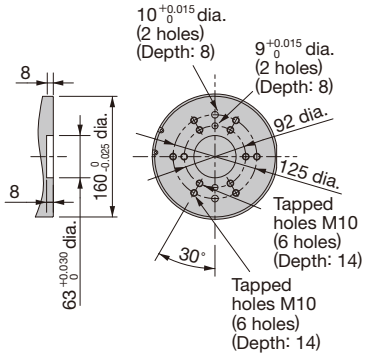
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH180

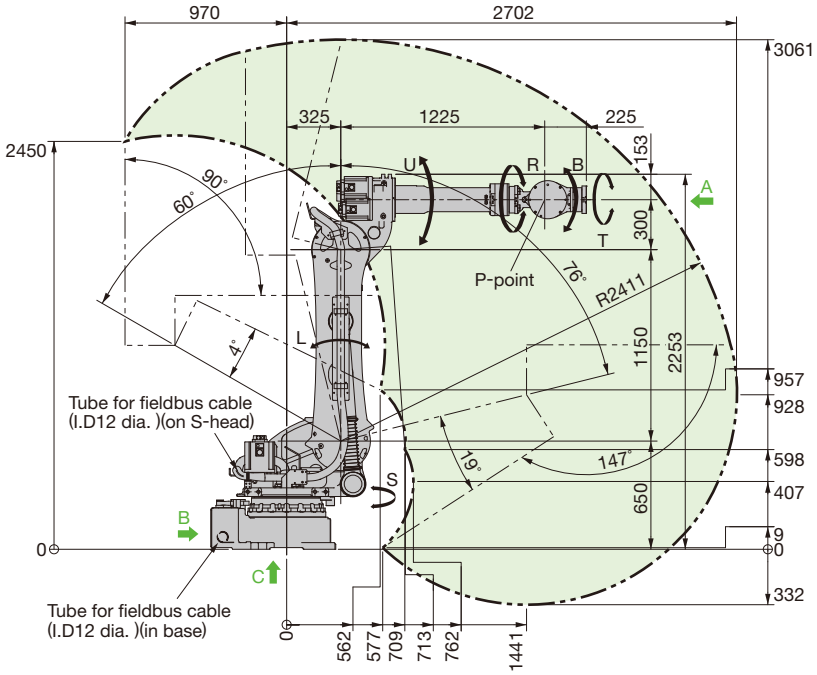
180 kg payload, R2702 mm maximum reach

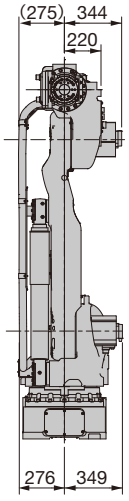
Dimensions Units : mm : P-point Maximum Envelope

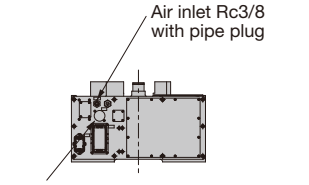




View A

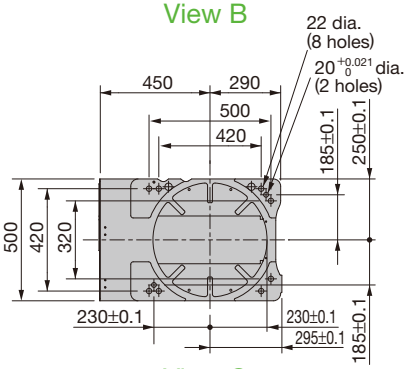






Connector for internal user I/O wiring harness (base side):
JL05-2A24-28PC (with cap)
Matching connector: JL05-6A24-28S
(provided by users)

View B



View C

Manipulator Specifications

Model		MOTOMAN-MH180
Type		YR-MS165/MH180-A00
Controlled Axis		6 (Vertically articulated)
Payload		180 kg
Repeatability*1		±0.2 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−60° – +76°
	U -axis (upper arm)	−147° – +90°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−130° – +130°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	2.18 rad/s, 125°/s
	L -axis (lower arm)	2.01 rad/s, 115°/s
	U -axis (upper arm)	2.18 rad/s, 125°/s
	R -axis (wrist roll)	3.18 rad/s, 182°/s
	B -axis (wrist pitch/yaw)	3.05 rad/s, 175°/s
	T -axis (wrist twist)	4.63 rad/s, 265°/s

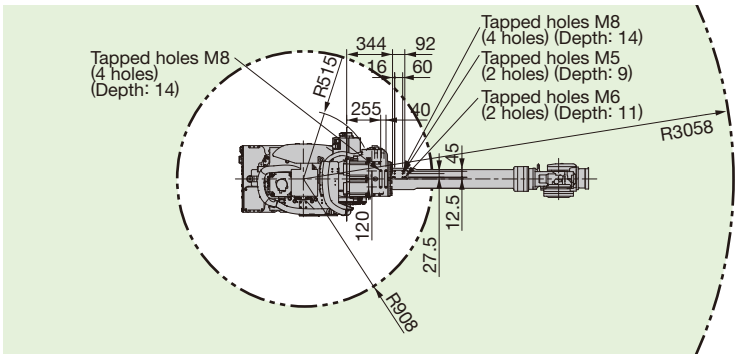
Allowable Moment	R -axis (wrist roll)	1000 N·m
	B -axis (wrist pitch/yaw)	1000 N·m
	T -axis (wrist twist)	618 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	90 kg·m²
	B -axis (wrist pitch/yaw)	90 kg·m²
	T -axis (wrist twist)	46.3 kg·m²
Approx. Mass		970 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		5.0 kVA

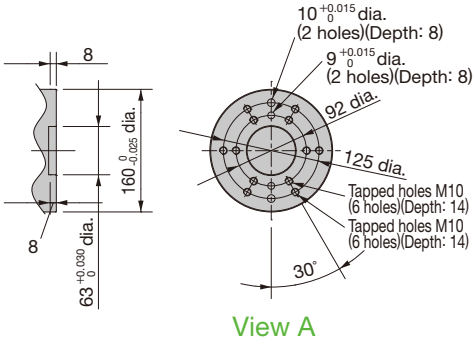
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH180-120

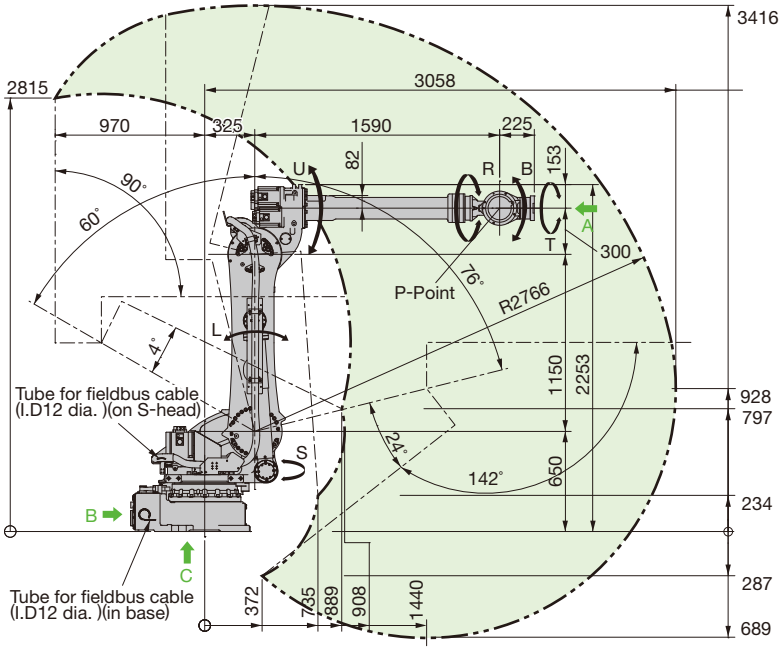
120 kg payload, R3058 mm maximum reach

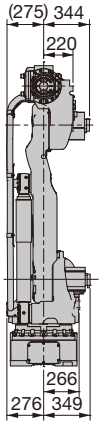
Dimensions Units : mm : P-point Maximum Envelope

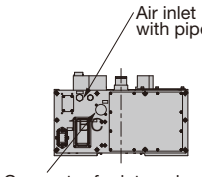




View A

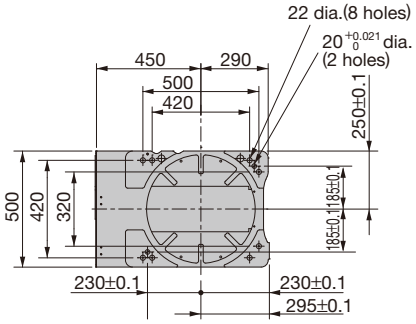






Connector for internal user
I/O wiring harness:
JL05-2A24-28PC (with cap)
Matching connector: JL05-6A24-28S
(provided by users)

View B



View C

Manipulator Specifications

Model		MOTOMAN-MH180-120
Type		YR-MS165/MH180-A10
Controlled Axis		6 (Vertically articulated)
Payload		120 kg
Repeatability*1		±0.2 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−60° – + 76°
	U -axis (upper arm)	−142° – + 90°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−130° – +130°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	2.18 rad/s, 125°/s
	L -axis (lower arm)	2.01 rad/s, 115°/s
	U -axis (upper arm)	2.18 rad/s, 125°/s
	R -axis (wrist roll)	3.18 rad/s, 182°/s
	B -axis (wrist pitch/yaw)	3.05 rad/s, 175°/s
	T -axis (wrist twist)	4.63 rad/s, 265°/s

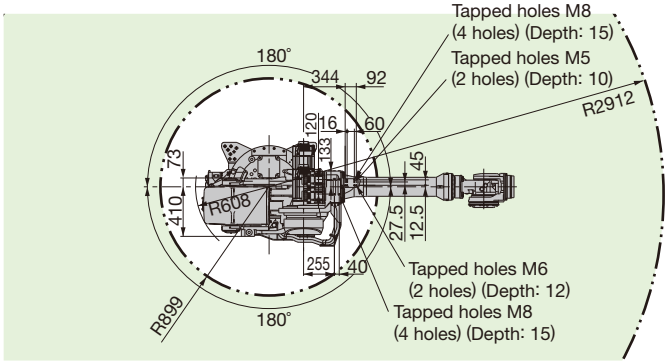
Allowable Moment	R -axis (wrist roll)	883 N·m
	B -axis (wrist pitch/yaw)	883 N·m
	T -axis (wrist twist)	520 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	79 kg·m²
	B -axis (wrist pitch/yaw)	79 kg·m²
	T -axis (wrist twist)	40 kg·m²
Approx. Mass		1010 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		5.0 kVA

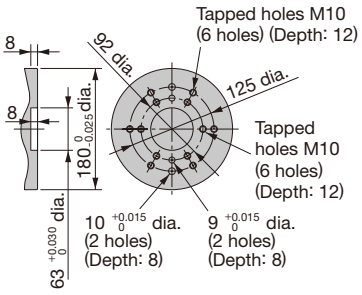
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH215Ⅱ

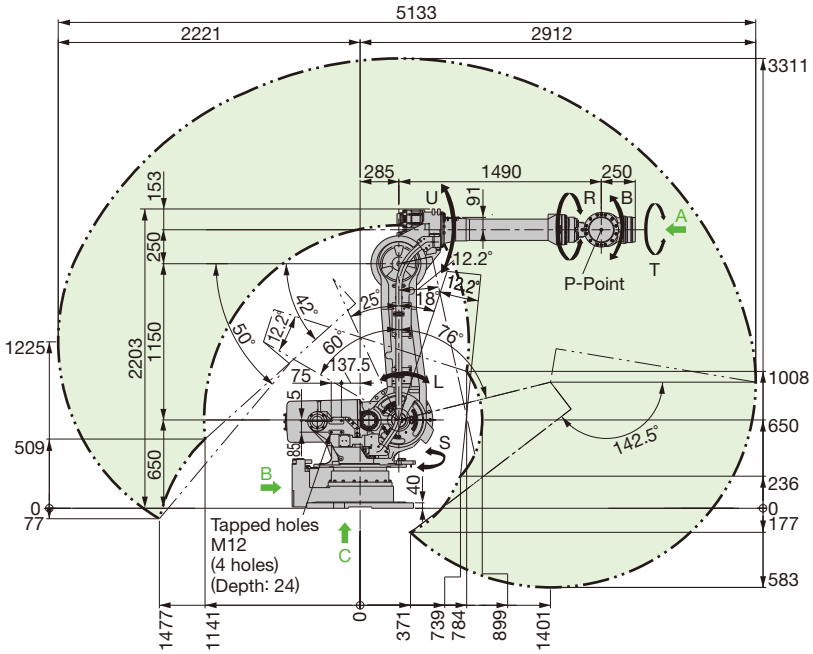
215 kg payload, R2912 mm maximum reach

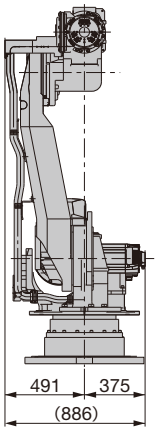
Dimensions Units : mm : P-point Maximum Envelope



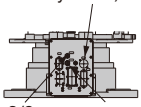


View A





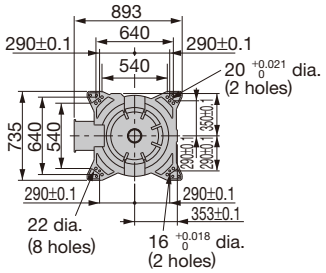
Connector for internal user
I/O wiring harness (base side):
JL05-2A24-28PC (with cap)
Matching connector: JL05-6A24-28S
(provided by users)



Air inlet Rc3/8
with pipe plug (A)

Air inlet Rc3/8
with pipe plug (B)

View B



View C

Manipulator Specifications

Model		MOTOMAN-MH215Ⅱ
Type		YR-MH00215-J00
Controlled Axis		6 (Vertically articulated)
Payload		215 kg
Repeatability*1		±0.2 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−60° – +76°
	U -axis (upper arm)	−142.5° – +230°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−125° – +125°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	1.75 rad/s, 100°/s
	L -axis (lower arm)	1.57 rad/s, 90°/s
	U -axis (upper arm)	1.69 rad/s, 97°/s
	R -axis (wrist roll)	2.09 rad/s, 120°/s
	B -axis (wrist pitch/yaw)	2.09 rad/s, 120°/s
	T -axis (wrist twist)	3.32 rad/s, 190°/s

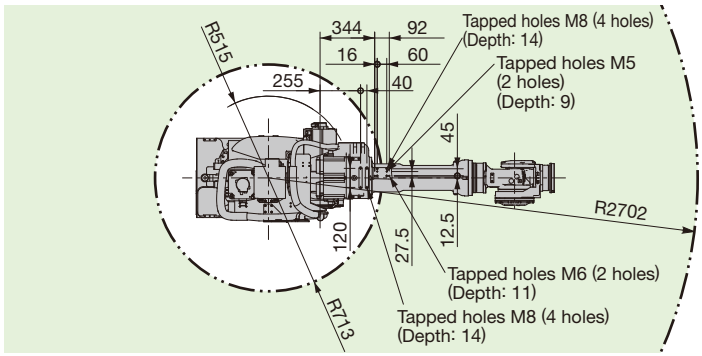
Allowable Moment	R -axis (wrist roll)	1176 N·m
	B -axis (wrist pitch/yaw)	1176 N·m
	T -axis (wrist twist)	710 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	317 kg·m²
	B -axis (wrist pitch/yaw)	317 kg·m²
	T -axis (wrist twist)	200 kg·m²
Approx. Mass		1140 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		5.0 kVA

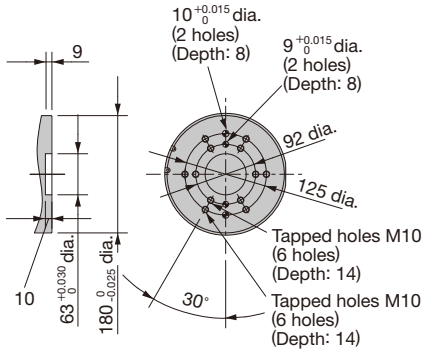
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH225

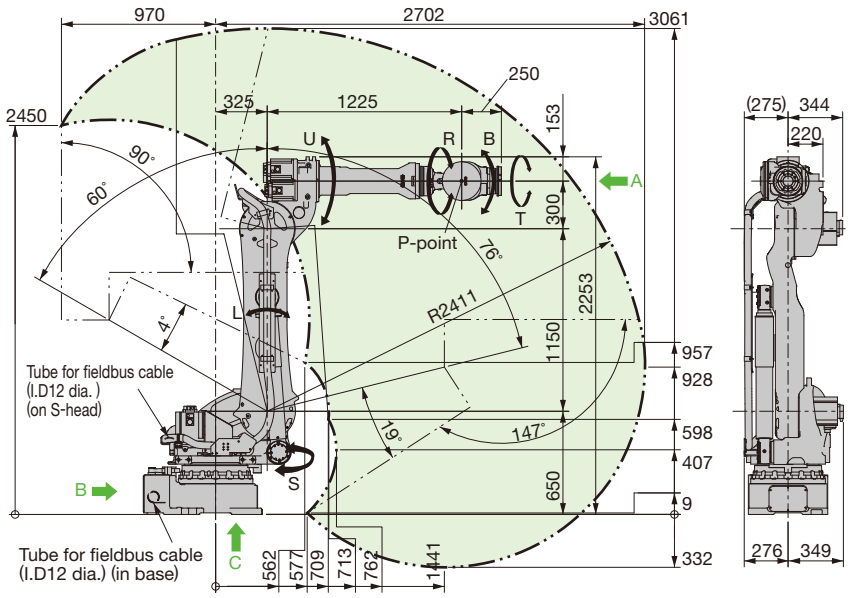
225 kg payload, R2702 mm maximum reach

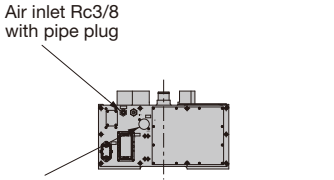
Dimensions Units : mm : P-point Maximum Envelope



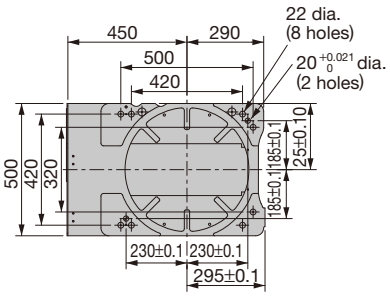


View A





View B



View C

Manipulator Specifications

Model		MOTOMAN-MH225
Type		YR-MS210/MH225-A00
Controlled Axis		6 (Vertically articulated)
Payload		225 kg
Repeatability*1		±0.2 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−60° – +76°
	U -axis (upper arm)	−147° – +90°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−125° – +125°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	2.09 rad/s, 120°/s
	L -axis (lower arm)	1.69 rad/s, 97°/s
	U -axis (upper arm)	2.01 rad/s, 115°/s
	R -axis (wrist roll)	2.53 rad/s, 145°/s
	B -axis (wrist pitch/yaw)	2.53 rad/s, 145°/s
	T -axis (wrist twist)	3.84 rad/s, 220°/s

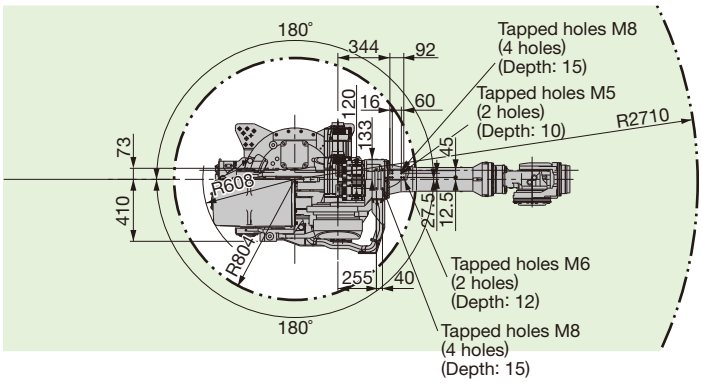
Allowable Moment	R -axis (wrist roll)	1372 N·m
	B -axis (wrist pitch/yaw)	1372 N·m
	T -axis (wrist twist)	735 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	145 kg·m²
	B -axis (wrist pitch/yaw)	145 kg·m²
	T -axis (wrist twist)	84 kg·m²
Approx. Mass		1000 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		5.0 kVA

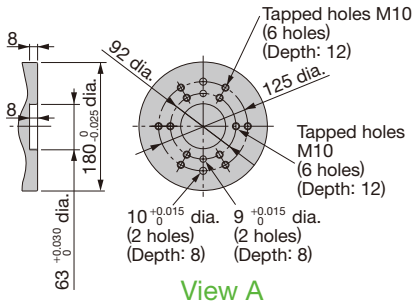
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH250Ⅱ

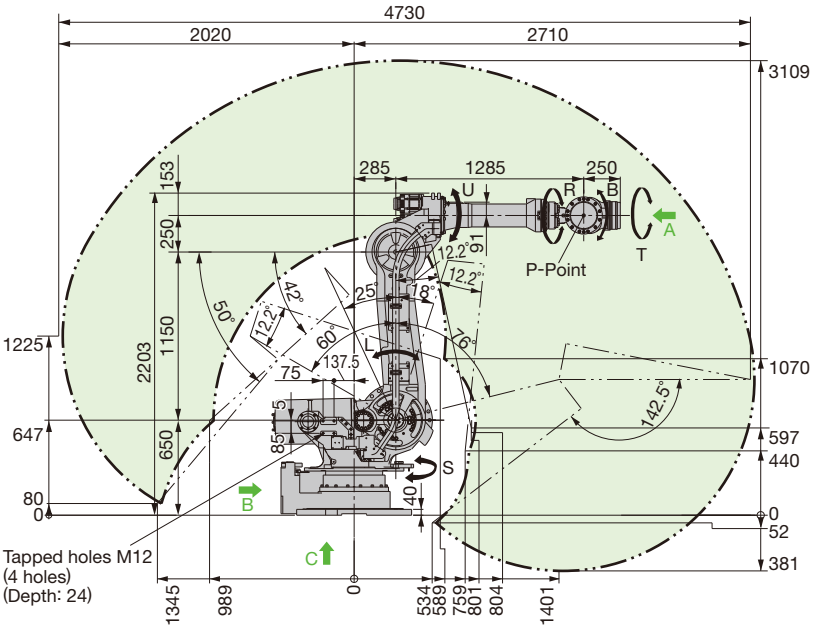
250 kg payload, R2710 mm maximum reach

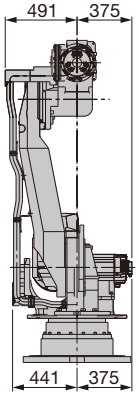
Dimensions Units : mm : P-point Maximum Envelope

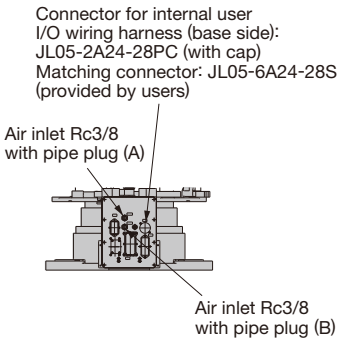




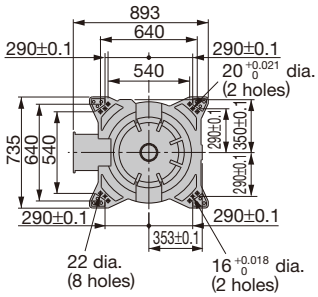
View A







View B



View C

Manipulator Specifications

Model		MOTOMAN-MH250Ⅱ
Type		YR-MH00250-J00
Controlled Axis		6 (Vertically articulated)
Payload		250 kg
Repeatability*1		±0.2 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−60° – +76°
	U -axis (upper arm)	−142.5° – +230°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−125° – +125°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	1.75 rad/s, 100°/s
	L -axis (lower arm)	1.57 rad/s, 90°/s
	U -axis (upper arm)	1.69 rad/s, 97°/s
	R -axis (wrist roll)	2.09 rad/s, 120°/s
	B -axis (wrist pitch/yaw)	2.09 rad/s, 120°/s
	T -axis (wrist twist)	3.32 rad/s, 190°/s

Allowable Moment	R -axis (wrist roll)	1385 N·m
	B -axis (wrist pitch/yaw)	1385 N·m
	T -axis (wrist twist)	735 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	317 kg·m²
	B -axis (wrist pitch/yaw)	317 kg·m²
	T -axis (wrist twist)	200 kg·m²
Approx. Mass		1130 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		6.0 kVA

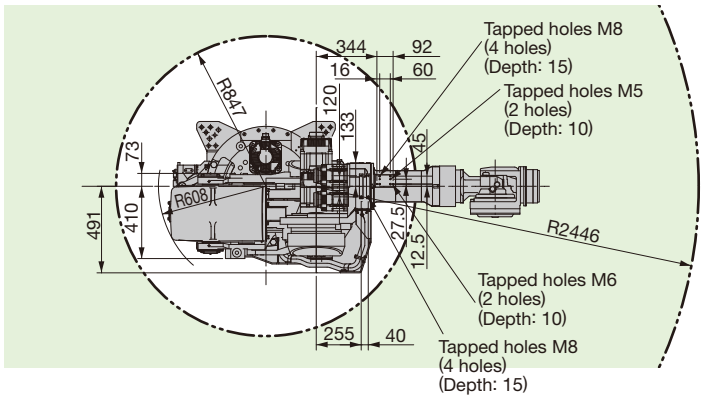
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

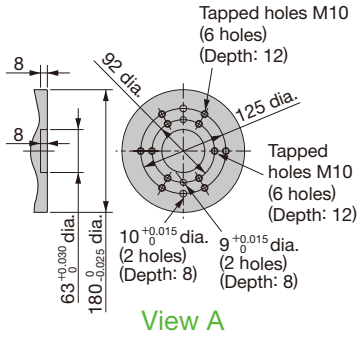
MOTOMAN-MH280Ⅱ

280 kg payload, R2446 mm maximum reach

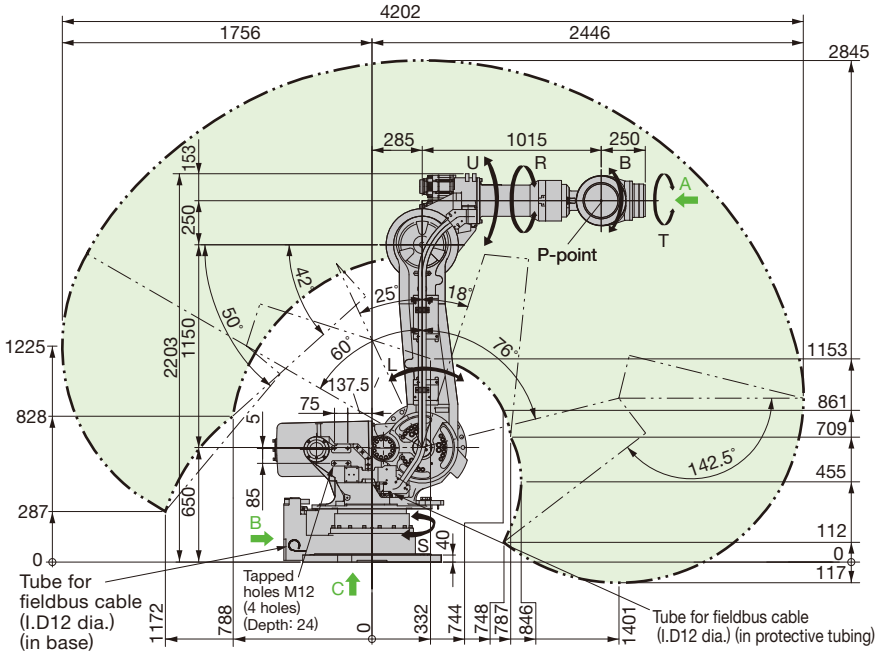
Dimensions Units : mm

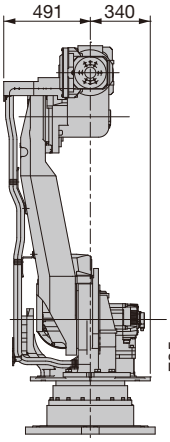
: P-point Maximum Envelope

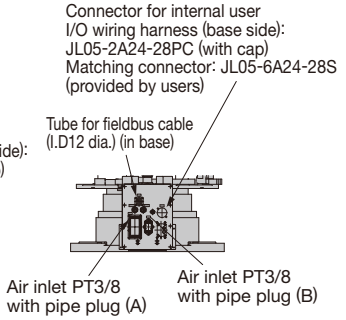




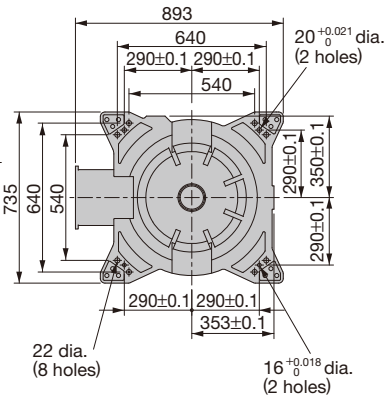
View A







View B



View C

Manipulator Specifications

Model		MOTOMAN-MH280Ⅱ
Type		YR-MH00280-J00
Controlled Axis		6 (Vertically articulated)
Payload		280 kg
Repeatability*1		±0.2 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−60° – +76°
	U -axis (upper arm)	−142.5° – +230°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−125° – +125°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	1.57 rad/s, 90°/s
	L -axis (lower arm)	1.39 rad/s, 80°/s
	U -axis (upper arm)	1.57 rad/s, 90°/s
	R -axis (wrist roll)	2.01 rad/s, 115°/s
	B -axis (wrist pitch/yaw)	1.92 rad/s, 110°/s
	T -axis (wrist twist)	3.32 rad/s, 190°/s

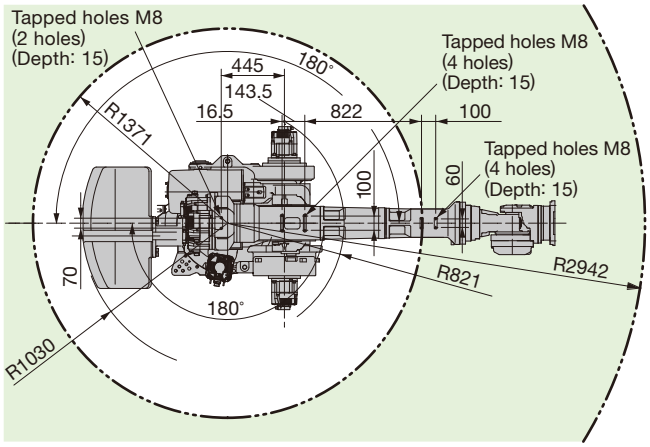
Allowable Moment	R -axis (wrist roll)	1333 N·m
	B -axis (wrist pitch/yaw)	1333 N·m
	T -axis (wrist twist)	706 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	142 kg·m²
	B -axis (wrist pitch/yaw)	142 kg·m²
	T -axis (wrist twist)	79 kg·m²
Approx. Mass		1120 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		5.0 kVA

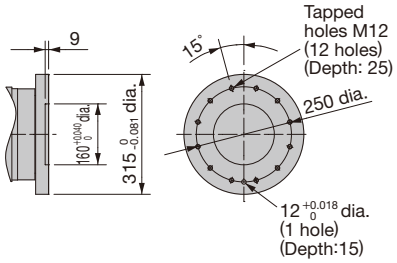
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH400Ⅱ

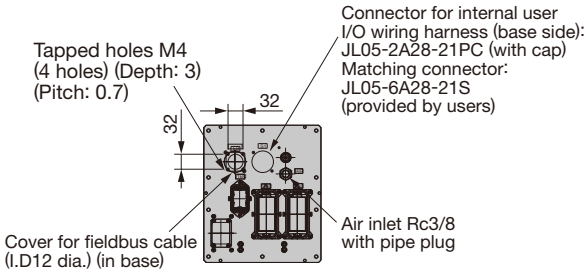
400 kg payload, R2942 mm maximum reach

Dimensions Units : mm : P-point Maximum Envelope

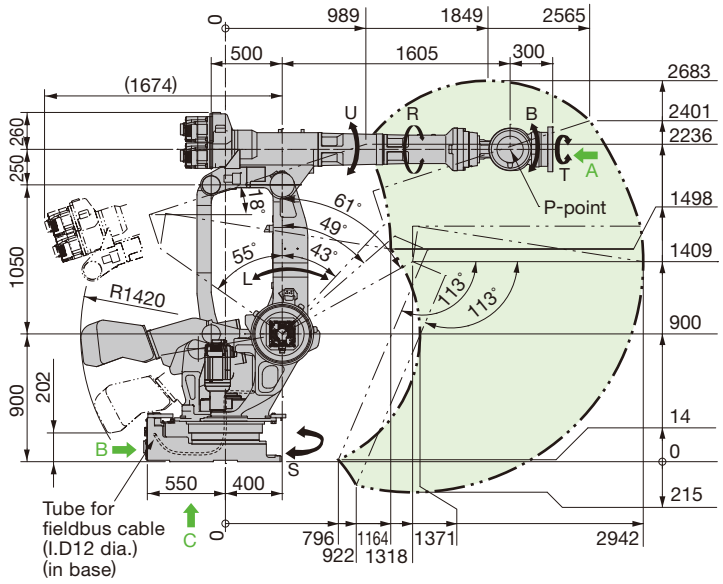


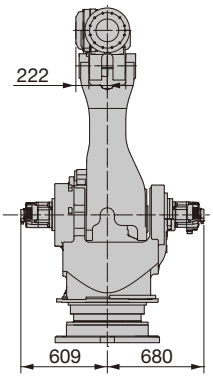


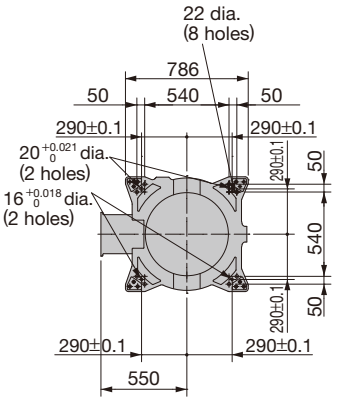
View A



View B







View C

Manipulator Specifications

Model		MOTOMAN-MH400Ⅱ
Type		YR-MH00400-J00
Controlled Axis		6 (Vertically articulated)
Payload		400 kg
Repeatability*1		±0.3 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−55° – +61°
	U -axis (upper arm)	−113° – +18°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−115° – +115°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	1.78 rad/s, 102°/s
	L -axis (lower arm)	1.69 rad/s, 97°/s
	U -axis (upper arm)	1.69 rad/s, 97°/s
	R -axis (wrist roll)	1.40 rad/s, 80°/s
	B -axis (wrist pitch/yaw)	1.40 rad/s, 80°/s
	T -axis (wrist twist)	3.00 rad/s, 172°/s

Allowable Moment	R -axis (wrist roll)	2989 N·m
	B -axis (wrist pitch/yaw)	2989 N·m
	T -axis (wrist twist)	1343 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	500 kg·m²
	B -axis (wrist pitch/yaw)	500 kg·m²
	T -axis (wrist twist)	315 kg·m²
Approx. Mass		2700 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		7.0 kVA

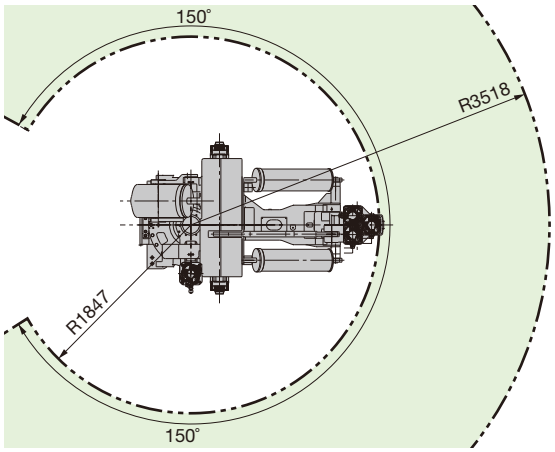
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

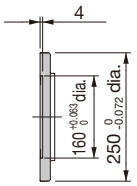
MOTOMAN-UP400RDⅡ

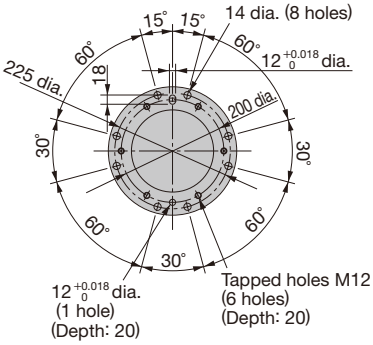
400 kg payload, R3518 mm maximum reach

Dimensions Units : mm

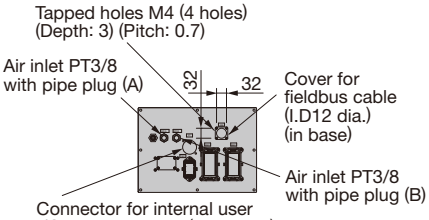
: P-point Maximum Envelope



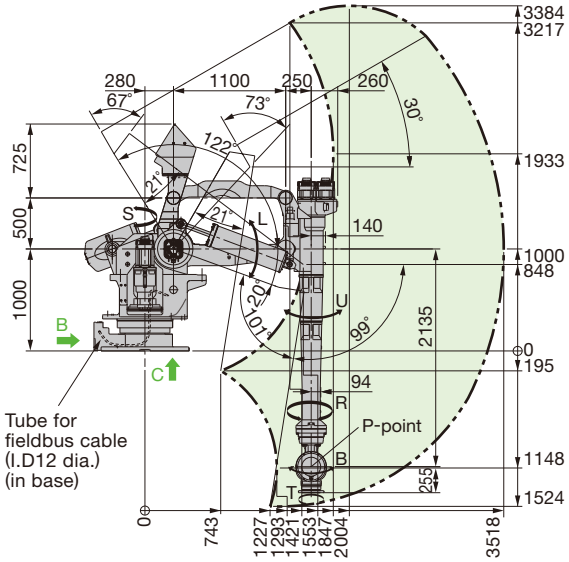


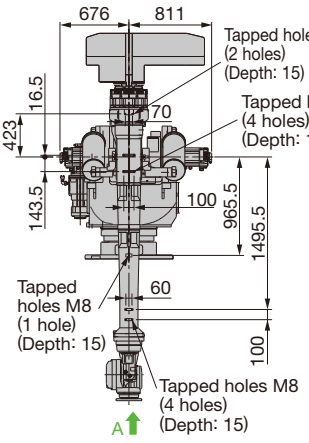


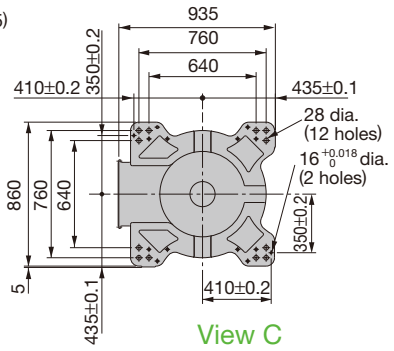
View A



View B







View C

Manipulator Specifications

Model		MOTOMAN-UP400RDⅡ
Type		YR-UP400RD-J00
Controlled Axis		6 (Vertically articulated)
Payload		400 kg
Repeatability*1		±0.5 mm
Range of Motion	S -axis (turning)	−150° – +150°
	L -axis (lower arm)	−122° – +20°
	U -axis (upper arm)	−9° – +120°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−120° – +120°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	1.40 rad/s, 80°/s
	L -axis (lower arm)	1.40 rad/s, 80°/s
	U -axis (upper arm)	1.40 rad/s, 80°/s
	R -axis (wrist roll)	1.40 rad/s, 80°/s
	B -axis (wrist pitch/yaw)	1.40 rad/s, 80°/s
	T -axis (wrist twist)	2.79 rad/s, 160°/s

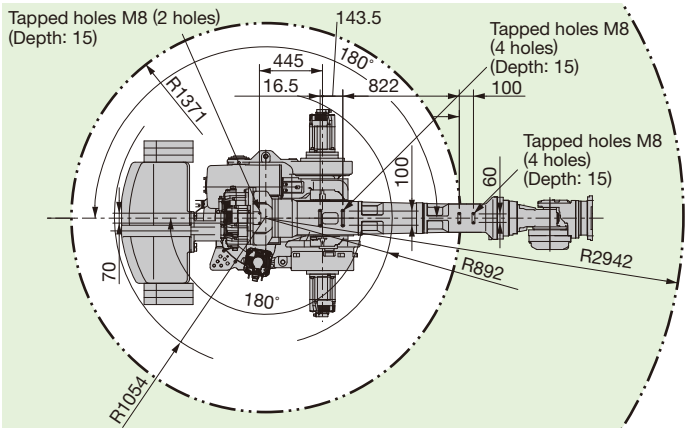
Allowable Moment	R -axis (wrist roll)	1960 N·m
	B -axis (wrist pitch/yaw)	1960 N·m
	T -axis (wrist twist)	833 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	150 kg·m²
	B -axis (wrist pitch/yaw)	150 kg·m²
	T -axis (wrist twist)	50 kg·m²
Approx. Mass		3600 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		8.5 kVA

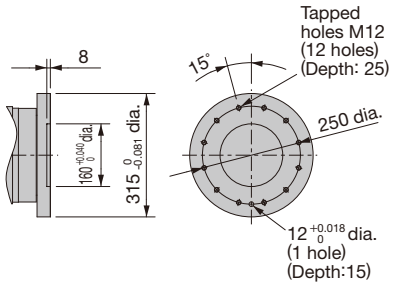
*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH600

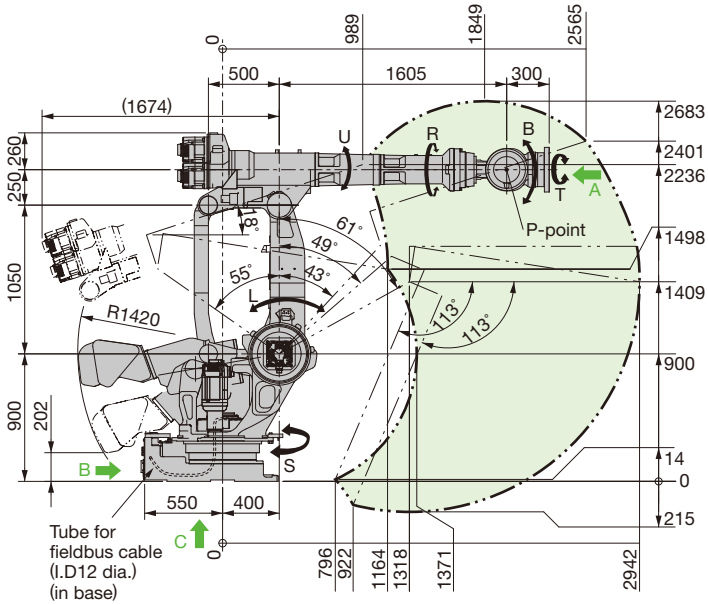
600 kg payload, R2942 mm maximum reach

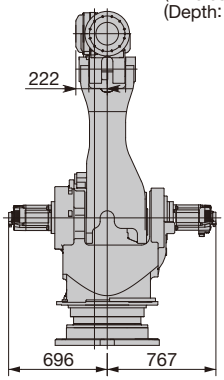
Dimensions Units : mm : P-point Maximum Envelope

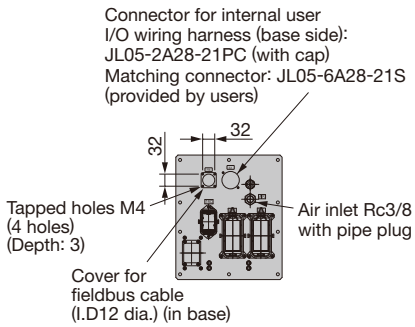




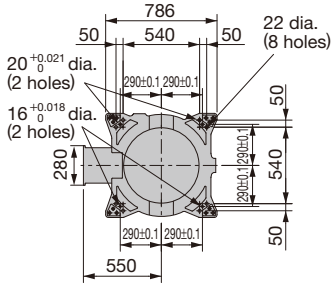
View A







View B



View C

Manipulator Specifications

Model		MOTOMAN-MH600
Type		YR-MH00600-A00
Controlled Axis		6 (Vertically articulated)
Payload		600 kg
Repeatability*1		±0.3 mm
Range of Motion	S -axis (turning)	−180° – +180°
	L -axis (lower arm)	−55° – +61°
	U -axis (upper arm)	−113° – +18°
	R -axis (wrist roll)	−360° – +360°
	B -axis (wrist pitch/yaw)	−115° – +115°
	T -axis (wrist twist)	−360° – +360°
Maximum Speed	S -axis (turning)	1.43 rad/s, 82°/s
	L -axis (lower arm)	1.43 rad/s, 82°/s
	U -axis (upper arm)	1.43 rad/s, 82°/s
	R -axis (wrist roll)	1.40 rad/s, 80°/s
	B -axis (wrist pitch/yaw)	1.40 rad/s, 80°/s
	T -axis (wrist twist)	2.83 rad/s, 162°/s

Allowable Moment	R -axis (wrist roll)	3430 N·m
	B -axis (wrist pitch/yaw)	3430 N·m
	T -axis (wrist twist)	1764 N·m
Allowable Inertia ($GD^2/4$)	R -axis (wrist roll)	520 kg·m²
	B -axis (wrist pitch/yaw)	520 kg·m²
	T -axis (wrist twist)	350 kg·m²
Approx. Mass		3050 kg
Ambient conditions	Temperature	0°C to +45°C
	Humidity	20% to 80%RH (non-condensing)
	Vibration	4.9 m/s² or less
	Others	• Free from corrosive gas or liquid, or explosive gas or liquid • Free from exposure to water, oil, or dust • Free from excessive electrical noise (plasma)
Power Requirements*2		7.5 kVA

*1 : Conforms to ISO 9283.
*2 : Varies in accordance with applications and motion patterns.
Note : SI units are used for specifications.

MOTOMAN-MH, UP Series

Robot Controller DX200 Specifications

Items	Specifications
Configuration	Dust proof IP54
Dimensions, Mass	MH5SⅡ, MH5LSⅡ, MH12, MH24, MH24-10, MH50Ⅱ, MH50Ⅱ-20, MH50Ⅱ-35, MH80Ⅱ, MH110, MH180, MH180-120, MH215Ⅱ, MH225, MH250Ⅱ, MH280Ⅱ: 600 (W)×520 (D)×730 (H) mm* (Possible to control three external axes) , 100 kg
	MH400Ⅱ, UP400RDⅡ, MH600 : 600 (W)×640 (D)×730 (H) mm* (Possible to control three external axes) , 110 kg
Cooling System	Indirect cooling
Ambient Temperature	During operation : 0℃ to +45℃ During storage : −10℃ to +60℃
Relative Humidity	90% max. (non-condensing)
Power Supply	Three-phase 200 VAC (+10%, −15%), 50/60 Hz (±2%) Three-phase 220 VAC (+10%, −15%), 60 Hz (±2%)
Grounding	Grounding resistance : 100Ω or less
Digital I/Os	Specialized signals : 28 inputs and 7 outputs General signals : 40 inputs and 40 outputs Max. I/O (optional) : 4096 inputs and 4096 outputs
Positioning System	Serial communications (absolute encoder)
Programming Capacity	JOB : 200,000 steps, 10,000 instructions CIO ladder : 20,000 steps
Expansion Slots	PCI : 2 slots
LAN (Connection to Host)	1 (10BASE-T/100BASE-TX)
Interface	RS-232C : 1ch
Control Method	Software servo control
Drive Units	SERVOPACK for AC servomotors (can control up to 9 axes)

∗ : Dimensions of the controller only. Does not include any attachments.

Programming Pendant Specifications

Items	Specifications
Dimensions	169 (W)×50 (D)×314.5 (H) mm
Mass	0.990 kg
Material	Reinforced plastics
Operation Device	Select keys, axis keys, numerical/application keys, mode selector switch with keys (mode : teach, play, and remote), emergency stop button, enable switch, compact flash card interface device (compact flash is optional), USB port (1 port)
Display	5.7-inch color LCD, touch panel 640×480 pixels (Alphanumeric characters, Chinese characters, Japanese letters, Others)
IEC Protection Class	IP65
Cable Length	Standard : 8 m, Max. : 36 m (with optional extension cable)

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