

# YASKAWA

# MOTOMAN GP7 ACC, GP8 ACC

Handling & General Application  
in corrosive Environments



## Increase Productivity

### Highest payloads, speeds and wrist allowable moment in its class

- A variety of workpieces can be transferred and different grippers can be mounted with 7-kg and 8-kg payloads and 38 % greater allowable moment
- Speeds of all axes have been increased by 39 % (max)
- Acceleration/deceleration control has been improved to achieve maximum reduction of acceleration/deceleration times for all robot postures

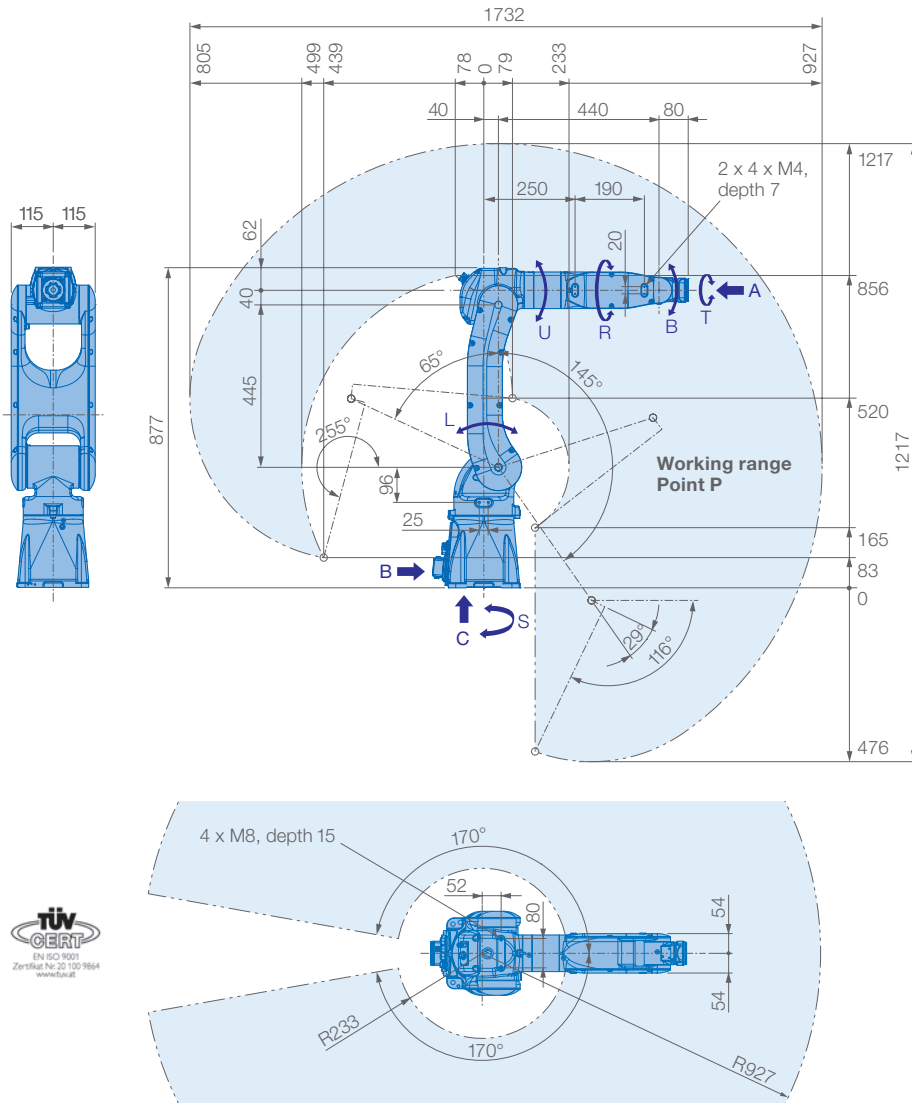
## Make Equipment compact

### Slim and easy-to-use structure

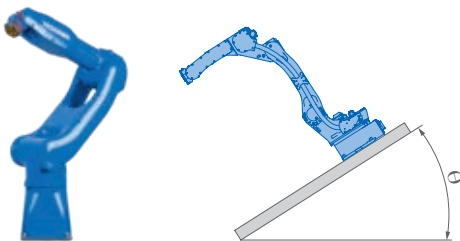
- Slim robot body requires minimum installation space (minimizes L-U axis offset)
- The manipulator cable can be connected at the bottom section, which reduces interference with walls and requires far less installation space when compared with cable connections on the side of the robot
- Increased maximum reach and horizontal reach enables robots to operate in wider work areas
- The slim, straight, and symmetrical arm design minimize interference with peripheral devices even in small spaces

### KEY BENEFITS

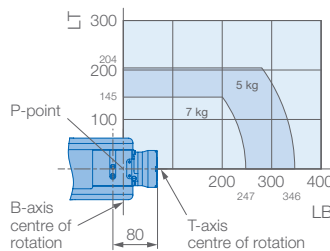
- Anti-Corrosive painting allows robot to be used in environments with corrosive atmosphere such as acids, alkali and vapors
- Drip proof design assures smooth disposal of a liquid on the robot surface
- Excellent resistance to oil and chemicals
- Good abrasion resistance



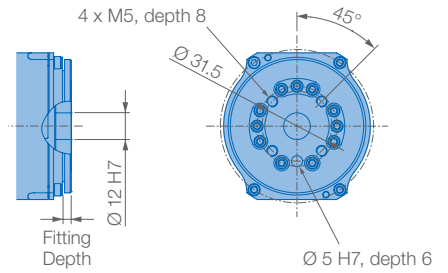
- Free from corrosive gasses or liquids, or explosive gasses
- Free from exposure to water, oil or dust
- Free from excessive electrical noise (plasma)



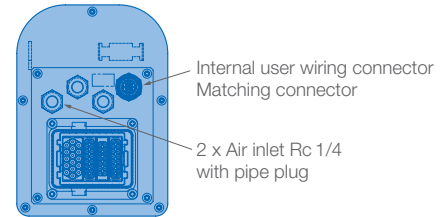
**Allowable wrist load**



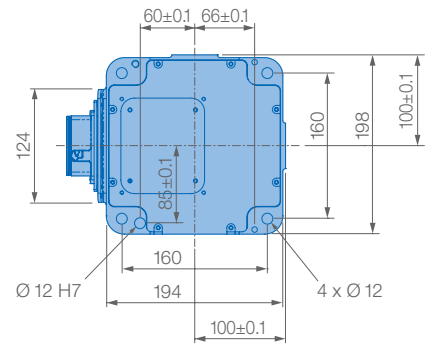
**View A**



**View B**



**View C**



Mounting options: Floor, ceiling, wall, tilt\*  
Protection class: IP67

\* tilt with condition of angle – see table below

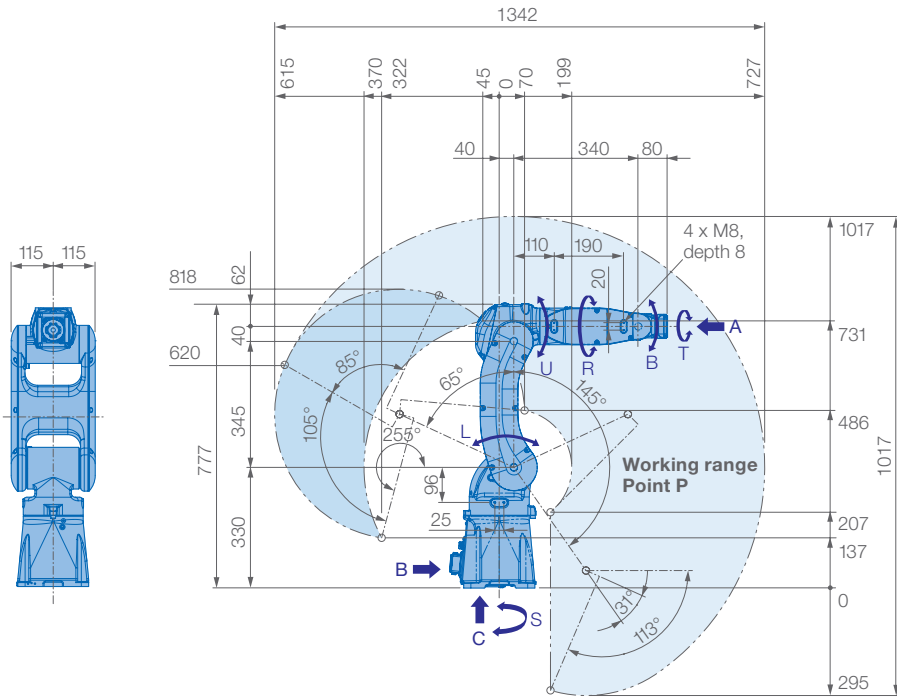
Robot installation angle $\theta$ [deg.]	S-axis operating range [deg.]
$0 \leq \theta \leq 30$	$\pm 170$ degrees or less (no limit)
$30 < \theta \leq 35$	$\pm 60$ degrees or less
$35 < \theta \leq 40$	$\pm 50$ degrees or less
$40 < \theta \leq 45$	$\pm 45$ degrees or less
$45 < \theta \leq 50$	$\pm 40$ degrees or less
$50 < \theta \leq 60$	$\pm 35$ degrees or less
$60 < \theta$	$\pm 30$ degrees or less

**Specifications GP7 ACC**

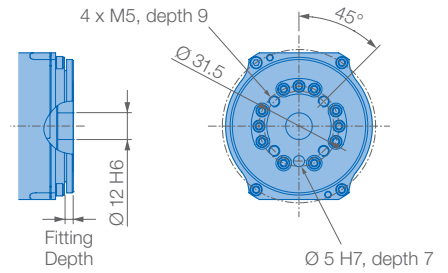
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m <sup>2</sup> ]	Controlled axes	
S	$\pm 170$	375	–	–	Max. payload [kg]	6
L	+145/–65	315	–	–	Repeatability [mm]	7
U	+255/–116	410	–	–	Max. working range R [mm]	$\pm 0.01^*$
R	$\pm 190$	550	17	0.5	Temperature [°C]	927
B	$\pm 135$	550	17	0.5	Humidity [%]	0 to +45
T	$\pm 360$	1000	10	0.2	Weight [kg]	20 – 80
					Power supply, average [kVA]	37
						1**

\* Conforms to ISO 9283 \*\* Varies in accordance with applications and motion patterns

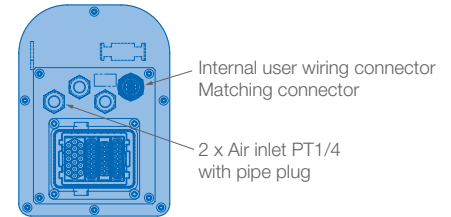
Note: SI units are used for specifications.



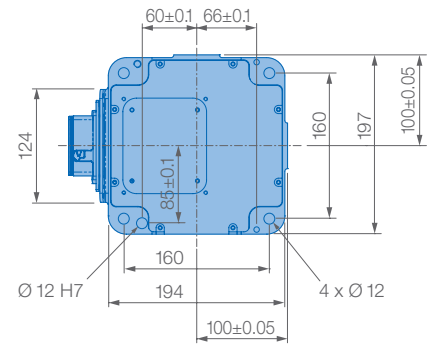
### View A



### View B



### View C

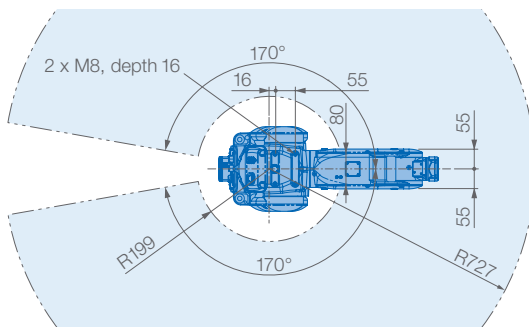


Mounting options: Floor, ceiling, wall, tilt\*

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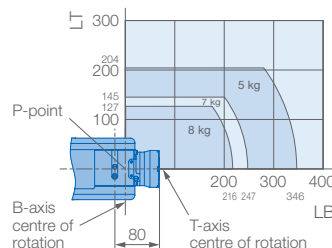
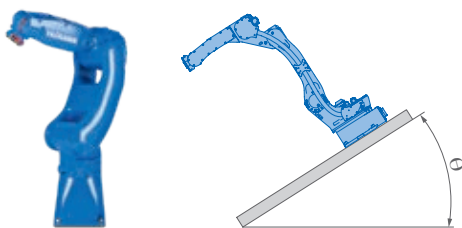
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- Free from corrosive gasses or liquids, or explosive gasses
- Free from exposure to water, oil or dust
- Free from excessive electrical noise (plasma)

### Allowable wrist load



Specifications GP8 ACC						
Axes	Maximum motion range [°]	Maximum speed [°/s]	Allowable moment [Nm]	Allowable moment of inertia [kg · m <sup>2</sup> ]	Controlled axes	6
S	$\pm 170$	455	–	–	Max. payload [kg]	8
L	+145/–65	385	–	–	Repeatability [mm]	$\pm 0.01^*$
U	+255/–113	520	–	–	Max. working range R [mm]	727
R	$\pm 190$	550	17	0.5	Temperature [°C]	0 to +45
B	$\pm 135$	550	17	0.5	Humidity [%]	20 – 80
T	$\pm 360$	1000	10	0.2	Weight [kg]	35
					Power supply, average [kVA]	1**

\* Conforms to ISO 9283 \*\* Varies in accordance with applications and motion patterns

Note: SI units are used for specifications.

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All drawing dimensions in mm.  
Technical data may be subject to change without previous notice.  
Please request detailed drawings at robotics@yaskawa.eu.com.

YR-1-06VX7-B00, YR-1-06VX8-B00  
GP7 ACC, GP8 ACC  
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