

# MOTOMAN MPP3S

## Handling, Picken & Verpacken mit dem MPP3S

The MOTOMAN MPP3S 4-axis high-speed robot with parallel kinematic system combines the speed of the delta design with a high payload capacity and a large working range. Due to the high torque of the fourth axis, the so-called wrist axis, the MOTOMAN

MPP3S moves payloads of up to 3 kg at unprecedented speeds. This delta robot was developed for a wide spectrum of industries, such as food and beverage, pharmaceutical and the automotive sector.

The MPP3S is driven by YASKAWA's compact FS100 controller and is available with advanced technologies such as MotoSight, MotoPick and conveyor tracking.



### KEY BENEFITS

- Protection classification IP67
- ISO class 4 (with 50% speed), clean room rated
- ISO class 5 (with 100% speed), clean room rated
- Payloads with unprecedented speed:
  - 150 cycles per minute with 3 kg payload
  - 185 cycles per minute with 1 kg payload
- Total stroke of 300 mm with a working range of 800 mm
- High-precision, high-speed conveyor tracking
- Maximum machine accuracy
- Compact installation space: 684 mm diameter



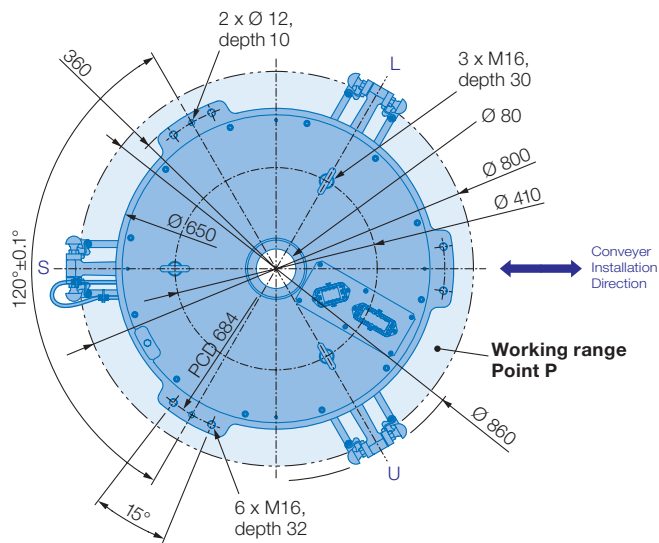
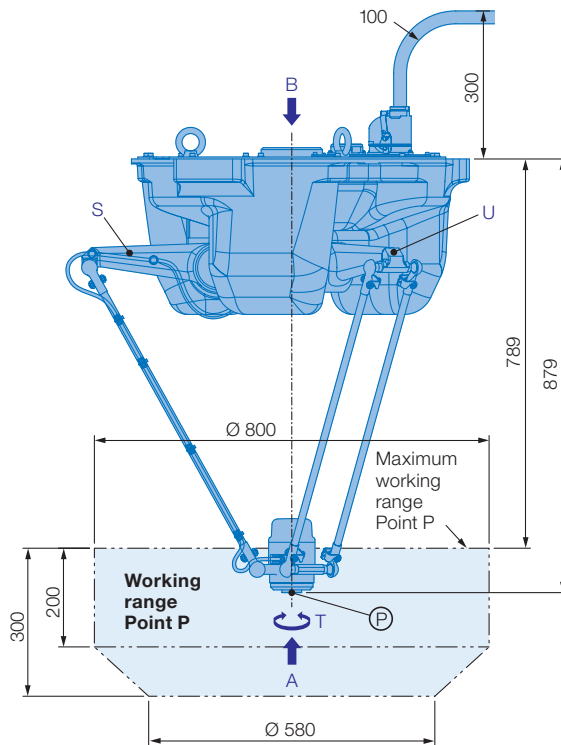
Fraunhofer

TESTED<sup>®</sup>  
DEVICE

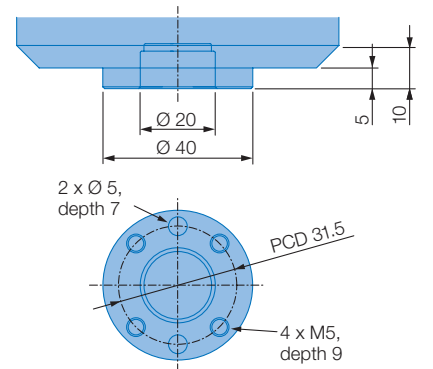
Yaskawa Europe GmbH  
MOTOMAN robot MPP3s  
Report No. YA 1312-680

Controlled by  
**FS100**

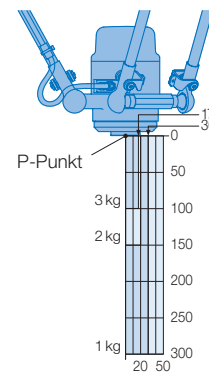
# MOTOMAN MPP3S



View A



Allowable wrist load



All dimensions in mm | Technical data may be subject to change without previous notice | For planning Multi-Robot-Systems please refer to your YASKAWA sales contact | Please request detailed drawings at [robotics@yaskawa.eu](mailto:robotics@yaskawa.eu) – YR-MPP0003S-A00, C-07-2015, A-No. 166332



Specifications MPP3S

Pattern	Specifications MPP3S					
	Payload [kg]	CPM*	Payload [kg]	CPM *	Controlled axes	4
					Max. payload [kg]	3
25-305-25	1	230	3	170	Repeat. pos. accuracy [mm]	±0.1
300-400-100	1	100	3	80	Repet. rotational accuracy of T-axis [arc x min –1]	±1
70-700-70	1	130	3	95	Max. working range R [mm]	800
	Conveyor speed** [mm/s]		Conveyor position repeat accuracy** [mm]		Temperature [°C]	0 to +40
					Humidity [%]	20 – 80
	800		1		Weight [kg]	95
	1300		1.5		Power supply, average [KVA]	1.5
	2000		3		IP class	IP67
* Cycle time without picking time and product. ** Values determined under test conditions, differences possible depending on application. *** ISO 4 with 50% speed. ISO 5 with 100% speed.					IPA cleanroom class	4/5***

\* Cycle time without picking time and product. \*\* Values determined under test conditions, differences possible depending on application. \*\*\* ISO 4 with 50% speed, ISO 5 with 100% speed.

**YASKAWA**

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