

# YASKAWA

# MotoMINI

SMALL – LIGHTWEIGHT – FAST



The MotoMINI 6-axis robot was especially designed for handling and assembly of small work pieces. It reduces the size of your production line and helps to increase productivity.

This light weight high-speed robot provides a payload of 500 g and a maximum reach of 350 mm. The high repeatability of 0.02 mm offers superior performance in small part handling and assembly. It is easy to change the location of MotoMINI according to the line's operating condition or the work piece being manufactured.

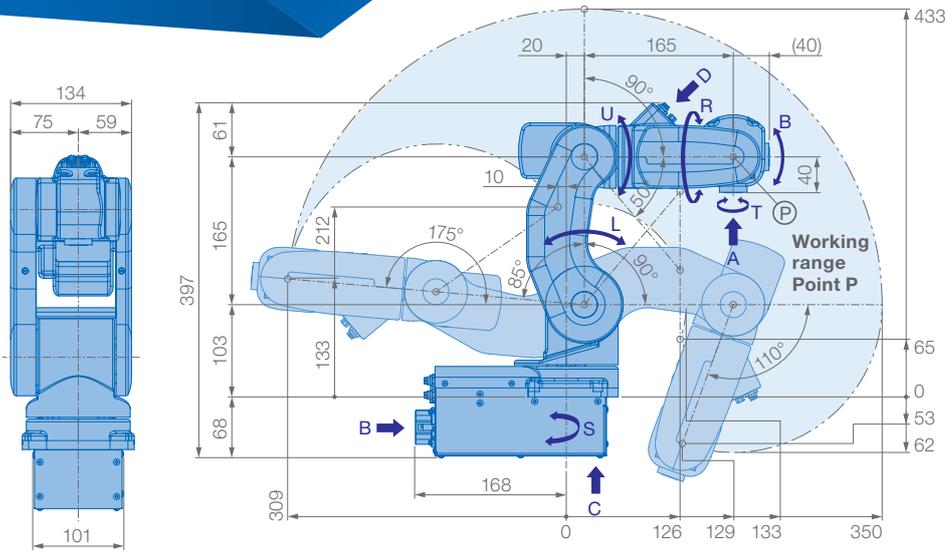
This robot is driven by the also small and compact MOTOMAN YRC1000micro controller, which is especially suited to operate small robots.

## KEY BENEFITS

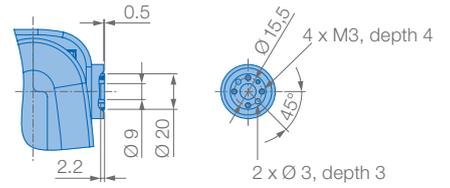
- Small and fast
- Lightweight and portable
- Superior performance in small part handling & assembly
- Minimum footprint
- Flexible positioning



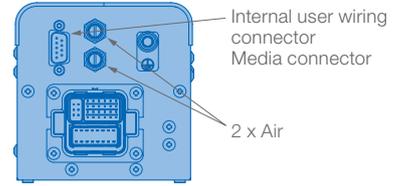
Controlled by  
**YRC1000  
micro**



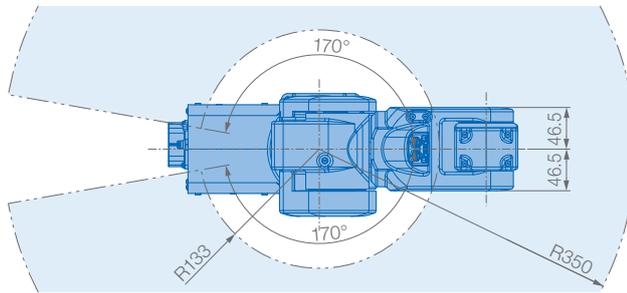
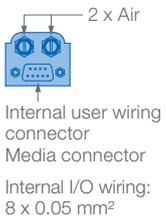
View A



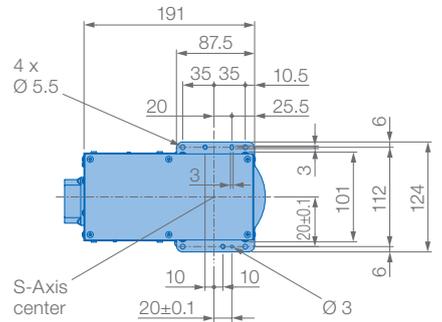
View B



View D



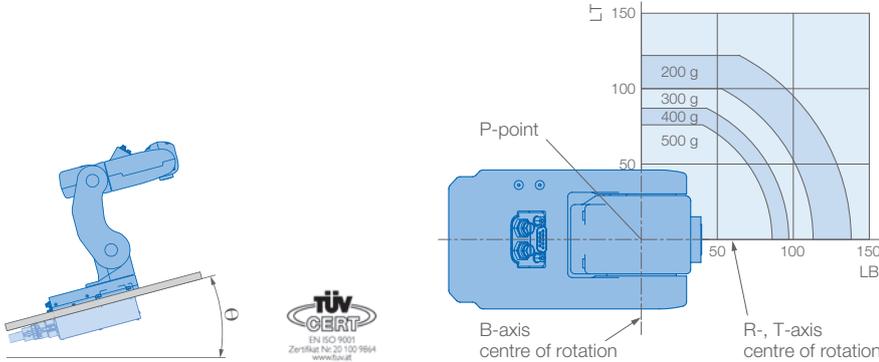
View C



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

\* tilt with condition of angle – see table below

Allowable wrist load



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

Specifications MotoMINI

Axes	Maximum motion range [°]	Maximum speed [°/sec.]	Allowable moment [Nm]	Allowable moment of inertia [kg · m <sup>2</sup> ]	Controlled axes	6
S	$\pm 170$	315	–	–	Max. payload [kg]	0.5
L	+90/-85	315	–	–	Repeatability [mm]	$\pm 0.02$
U	+90/-50	420	–	–	Max. working range R [mm]	350
R	$\pm 140$	600	0.43	0.00378	Temperature [°C]	0 to +40
B	+210/-30	600	0.43	0.00378	Humidity [%]	20 – 80
T	$\pm 360$	600	0.38	0.00299	Weight [kg]	7
					Power supply, average [KVA]	0.5

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