

Controlled by
DX200

The MOTOMAN VA1400 II, is a seven-axis arc-welding robot and offers superior performance in path welding, handling, machine tending and assembly. It has torch cables built into the robot arm to eliminate interference with the work-piece, jig or other nearby robots. Also, the power cable and gas and air hoses can be accommodated to the base. Several robots can be installed in close proximity without interfering with each other, which will allow construction of a highly effective and space-saving welding cell. Furthermore, installation space can be minimised as this new robot allows highly dense positioning between units. The innovation of the 7th axis has dramatically increased the freedom of the robot's movement. By keeping the optimal posture for welding at all times, the VA1400 II has achieved the highest welding quality. The highest performance of its class, including the world's fastest motion, high repeatability of ± 0.08 mm and a maximum reach of 1,434 mm, greatly increases productivity.



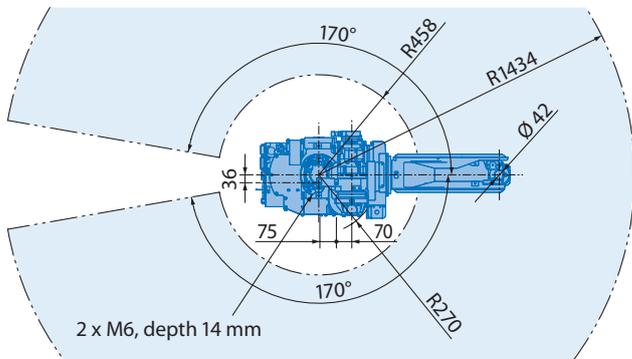
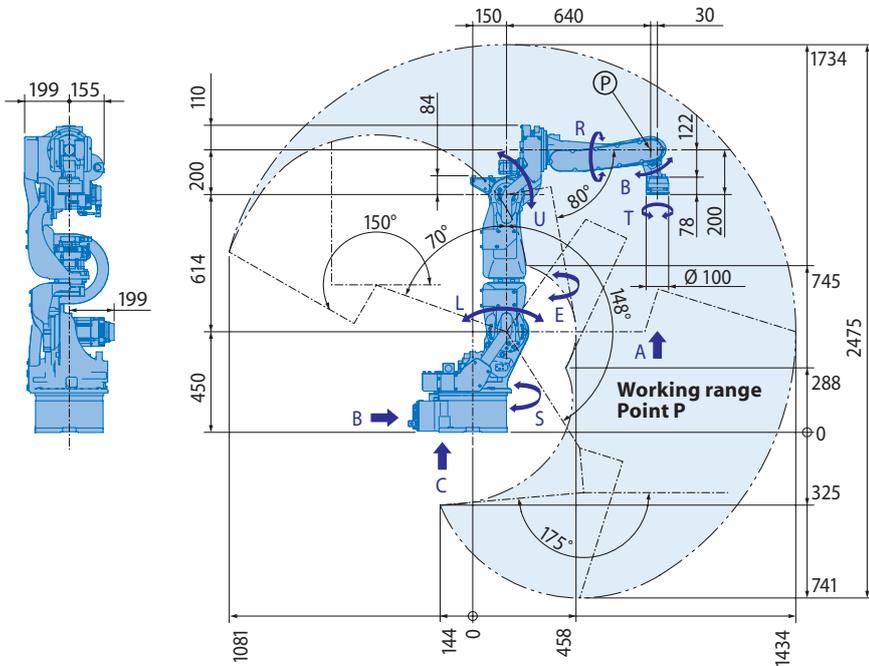
Key benefits

- Controlled axes: 7
- Max. payload of 3 kg
- Repeatability of ± 0.08 mm
- Max. working range of 1,434 mm
- High flexibility in its working area
- Space saving with high-density cell layout
- Conception of compact production lines are possible
- Integrated cables
- Less interference contours
- Further improvement of welding quality with 7th axis for ideal posture
- Increase productivity with highest performance

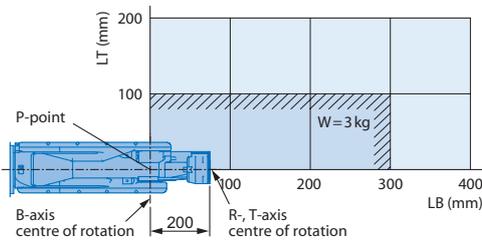
MOTOMAN VA1400 II

Shielded arc welding

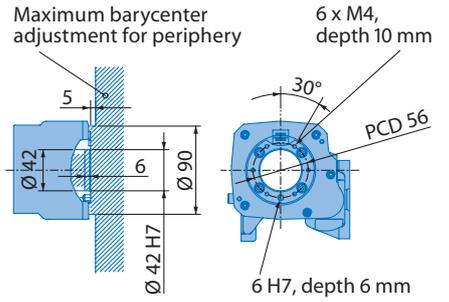
 **YASKAWA**



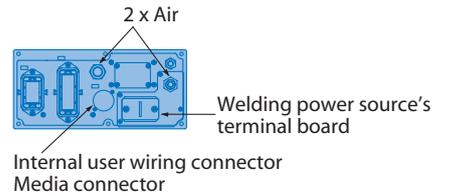
Allowable wrist load



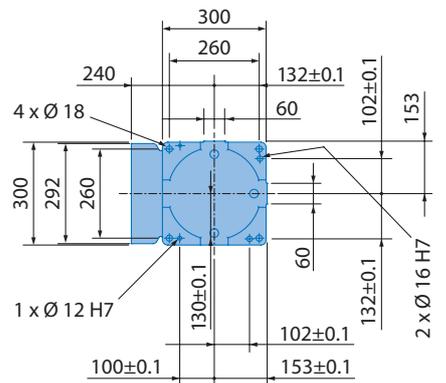
View A



View B



View C



Mounting options: Floor, ceiling, wall

All dimensions in mm | Technical data may be subject to change without previous notice | Please request detailed drawings robotics@yaskawa.eu.com – YR-VA01400II-J00, A-04-2014, A-No. 167087

Specifications VA1400 II

| Axes | Maximum motion range [°] | Maximum speed [°/sec.] | Allowable moment [Nm] | Allowable moment of inertia [kg · m ²] | | |
|------|--------------------------|------------------------|-----------------------|--|-----------------------------|----------|
| S | ±170 | 220 | - | - | Controlled axes | 7 |
| L | +148/-70 | 200 | - | - | Max. payload [kg] | 3 |
| U | +150/-175 | 220 | - | - | Repeat. pos. accuracy [mm] | ±0.08 |
| R | ±150 | 410 | 8.8 | 0.27 | Max. working range [mm] | R = 1434 |
| B | +180/-45 | 410 | 8.8 | 0.27 | Temperature [°C] | 0 to +45 |
| T | ±200 | 610 | 2.9 | 0.03 | Humidity [%] | 20 – 80 |
| E | ±90 | 220 | - | - | Weight [kg] | 150 |
| | | | | | Power supply, average [KVA] | 1.5 |



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