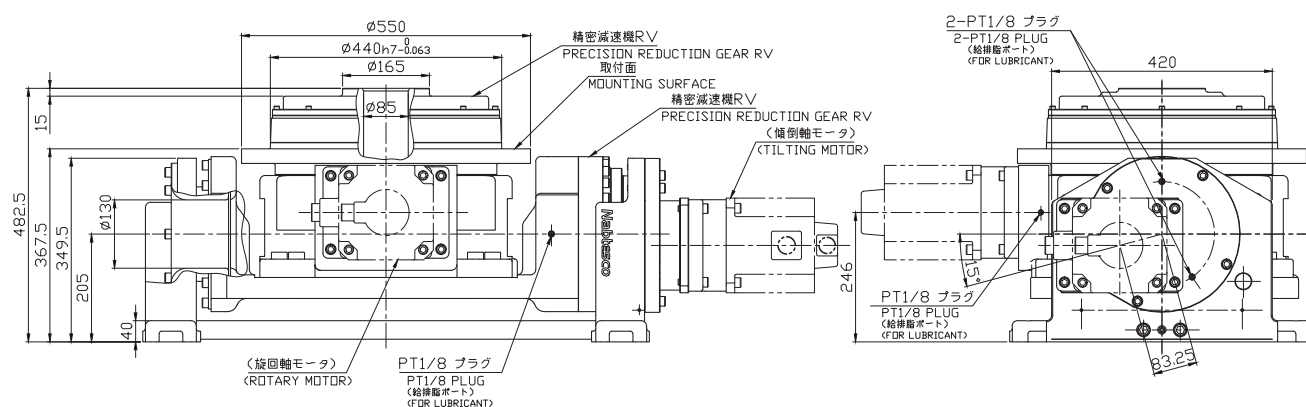
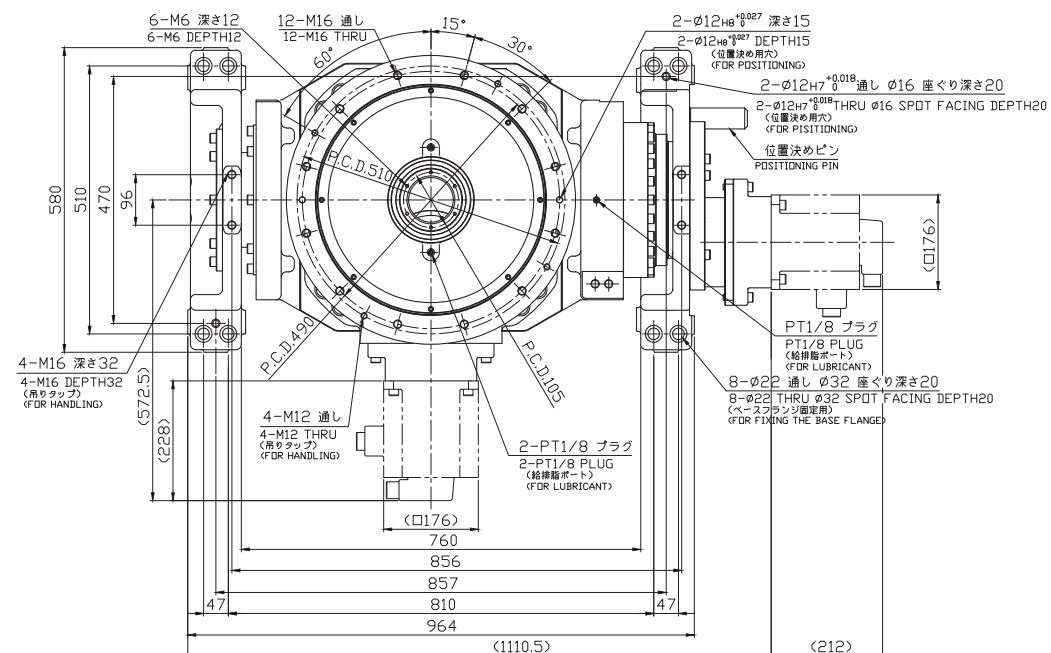


C Series

External Dimensions



Nabtesco Corporation

<https://precision.nabtesco.com/>



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CM009



JQA-EM721



ISO 9001

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Precision Reduction Gear RV™

Gearhead for Positioners

RVP™

C Series

New Product



New turntable gearhead equipped with a variable height mechanism

Nabtesco

RVP™

C Series

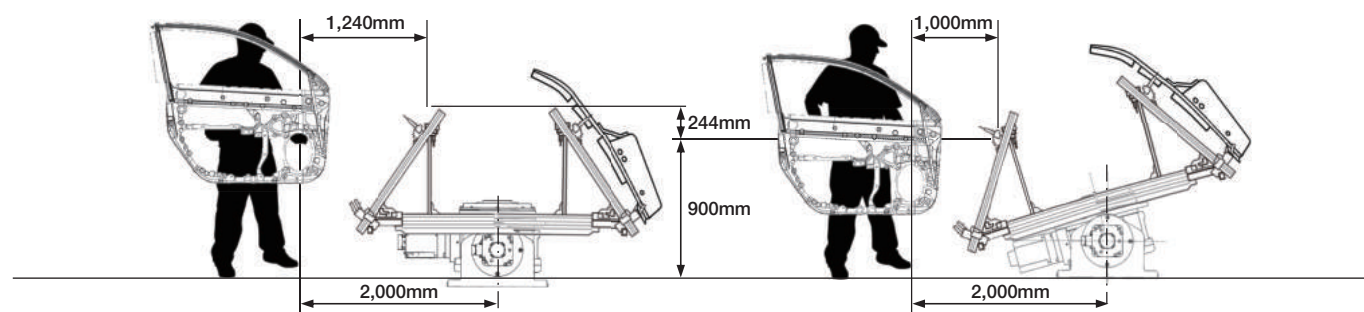


Features

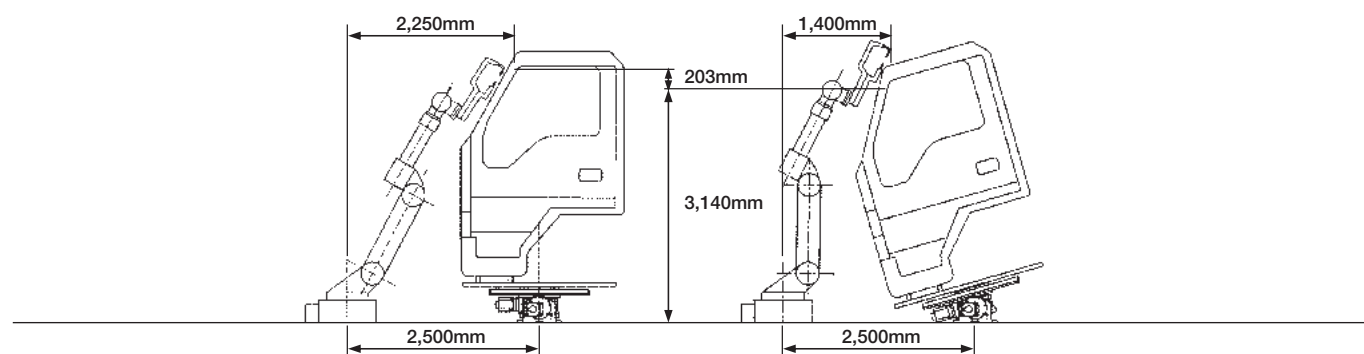
- **A gearhead utilizing the industrial robot industry-proven Precision Reduction Gear RV™**
High accuracy, rigidity, and reliability → Improved welding quality
- **A turntable equipped with a tilt axis**
Improved workability with human centered design → Reduction of the burden on workers • Faster setting times • Improved mixed model production
Area weldable by robot increased → Robot operating distance reduced → Shorter cycle and reduced production times
- **Support for all major servo motor manufacturers**
Compatible for collaborative work using many different robots
- **A wide variety of options are available**
(Mechanical stopper, origin positioning pin, mounting plate, etc..)

Application Example

Improved workability with human centered design • Faster setting times • Increased flexibility for mixed model production



By varying the height, areas that would normally be unreachable for the robot can be welded



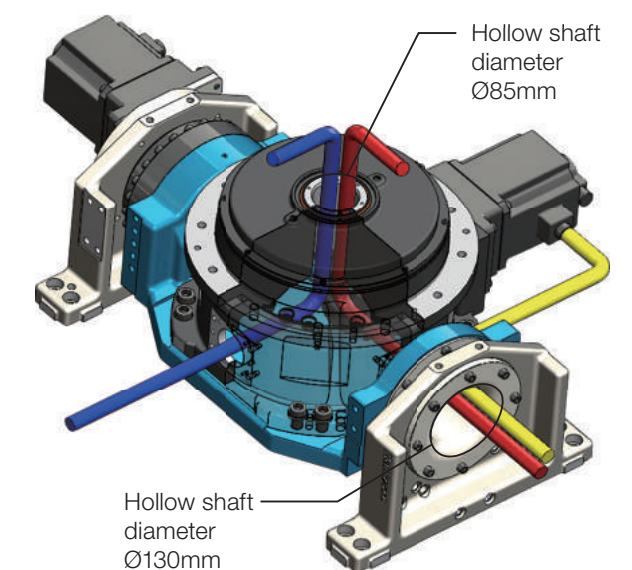
Specification Table

Model	RVP-C40	
Maximum allowable load	4,000kg	
Maximum center of gravity height	500mm	
Maximum tilt angle	±16deg *1	
Hollow shaft diameter (Rotary axis/Tilt axis)	Ø85/Ø130	
Allowable startup/stop torque	Rotary axis	7,840Nm
	Tilt axis	9,310Nm
Moment of inertia I (I=GD²/4) motor input conversion	Rotary axis	3.40×10⁻³kg-m²
	Tilt axis	3.21×10⁻³kg-m²
Backlash • Lost motion	1 arc.min.	
Weight	Rotary axis	609kg *2
	Tilt axis	706.5
Reduction ratio	Rotary axis	170
	Tilt axis	706.5
(Reference) Maximum output speed	Rotary axis	17.6rpm (1.78sec/180deg)
	Tilt axis	4.2rpm (1.78sec/16deg)

*1 The maximum tilt angle is ±25 degrees, but may change depending on the load and the center of gravity of the load. For details, please refer to the figure below.

*2 Weight of motor flange and input spline are not included.

Cable Layout Example



Center of Gravity Height and Allowable Load Range

* Loading beyond this range will exceed the startup/stop torque and/or allowable moment of the reduction gear, and may damage the reduction gear.

* Loads given are reference values.

