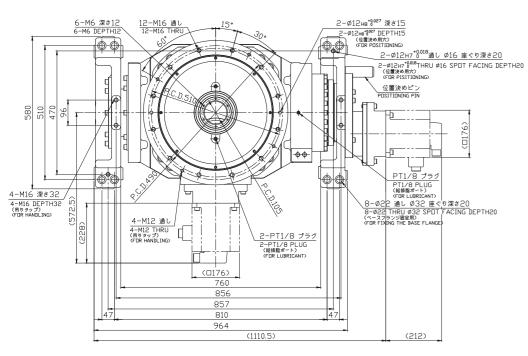
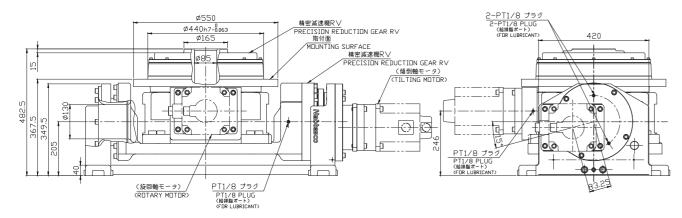
RVP^{m}

C Series

External Dimensions





Nabtesco

Nablesco Corporation

https://precision.nabtesco.com/



- Nabtesco, RV and RVP are registered trademarks or trademarks of Nabtesco Corporation.
 Specifications are subject to change without notice.
- Unauthorized reprinting, reproduction, copying, or translation of this catalog in whole or in part is strictly

CAT.180831-Rev.003 (Issued on August 31, 2018)







Europe and Africa

Nabtesco Precision Europe GmbH (Düsseldorf, Germany)

TEL: +49-211-173790 FAX: +49-211-364677

E-MAIL: info@nabtesco.de

 $\textbf{North and South America} \qquad \textbf{Nabtesco Motion Control Inc.} \ \ (\text{MI, USA})$

TEL: +1-248-553-3020 FAX: +1-248-553-3070 E-MAIL: engineer@nabtescomotioncontrol.com

India

Nabtesco India Private Limited (Bangalore, India)

TEL: +91-80-4123-4901 FAX: +91-80-4123-4903

Asia and others

Nabtesco Corporation (Japan) Nagoya Office

TEL: +81-52-582-2981 FAX: +81-52-582-2987

Customer Support Center

TEL: +81-59-237-4672 FAX: +81-59-237-4697

E-MAIL: P Information@nabtesco.com



New turntable gearhead equipped with a variable height mechanism

Nabtesco



C Series

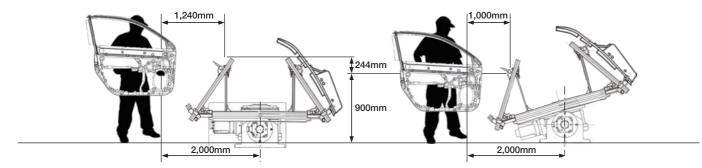


Features

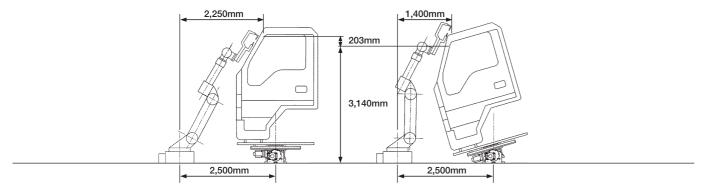
- A gearhead utilizing the industrial robot industry-proven Precision Reduction Gear RV™
 - High accuracy, rigidity, and reliability → Improved welding quality
- A turntable equipped with a tilt axis
 - Improved workability with human centered design → Reduction of the burden on workers Faster setting times Improved mixed model production
 - Area weldable by robot increased \rightarrow Robot operating distance reduced \rightarrow 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/	Rotary axis	7,840Nm
stop torque	Tilt axis	9,310Nm
Moment of inertia I (I=GD²/4) motor input conversion	Rotary axis	3.40×10 ⁻³ kg-m ²
	Tilt axis	3.21×10 ⁻³ kg-m ²
Backlash · Lost motion		1 arc.min.
Weight		609kg *2
Reduction ratio	Rotary axis	170
	Tilt axis	706.5
(Reference)	Rotary axis	17.6rpm (1.78sec/180deg)
Maximum output speed	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

