

## VERTICAL ARTICULATED ROBOT RV150-2390

#### HIGHLY DYNAMIC 6-AXIS ARTICULATED ROBOT FOR PRECISE INDUSTRIAL APPLICATIONS

The REIS **RV150-2390** is an advanced 6-axis articulated robot that offers exceptional precision and dynamics with a nominal payload of 150 kg. The **RV150** is ideally suited for testing and measuring tasks, as well as milling, handling and laser applications.

For extremely high-precision tasks in the high-end sector, the mechanics can also be equipped with secondary encoders.

#### **Top-class technology**

Equipped with six rotary axes, the **RV150-2390** offers full freedom of movement (6DoF: three translational and three rotational degrees of freedom), making it a versatile solution for complex industrial applications.

### Perfect coordination with the control system

In combination with the advanced REIS ROBOTstar VII robot controller, the **RV150-2390** unfolds its full potential. The precise path control technology of the REIS ROBOTstar VII, in combination with the SINA-MICS hardware and control technology, ensures optimum management of the complete servo drive technology, including powerful servomotors.



#### Maximum performance thanks to high-quality materials

The REIS RV series sets new standards in its class through the use of precise high-performance gearboxes and mechanics designed for maximum rigidity, natural frequency and damping. The construction includes innovative material combinations of steel, aluminum, magnesium and carbon fiber composites to ensure maximum stability with minimum weight.





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#### **Technical data**

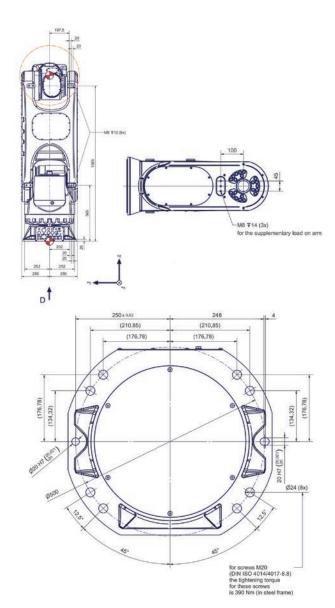
Nominal load capacity	kg	150
Additional load on arm A3	kg	50
Number of axes		6
Repeat accuracy	mm	± 0.036
Protection class axis 1	IP	66
Protection class from axis 2	IP	67
Weight of basic device (without control unit)	kg	793

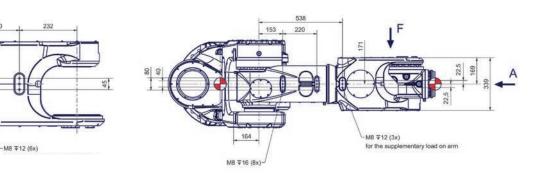
#### **Speeds**

A1	°/s	100
A2	°/s	88
A3	°/s	115
A4	°/s	180
A5	°/s	170
A6	°/s	219

#### Swivel range of traversing axis Axis 1 to 6

Swivel range A1	o	±185
Swivel range A2	o	-38/+145
Swivel range A3	o	-180/+65
Swivel range A4	o	±185
Swivel range A5	o	±123
Swivel range A6	o	±360





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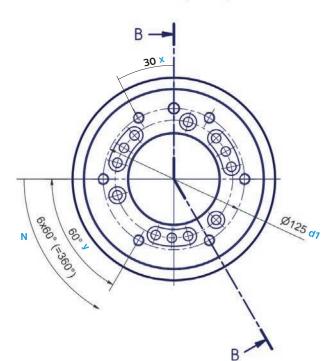


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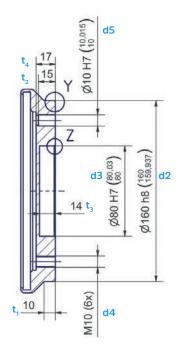
MECHANICAL INTERFACE

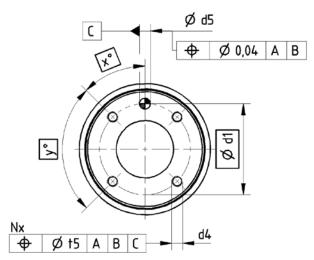
Туре	d <sub>1</sub>	d <sub>2 h8</sub>	$d_3 H^7$	d <sub>4</sub>	Ν	$d_5 H^7$	x	У	t <sub>1</sub>	t <sub>2</sub>	t <sub>3</sub>	t <sub>4</sub>
	mm	mm	mm	mm		mm	o	o	mm	mm	mm	mm
RV150-2390	125	160	80	M10	6	10	30	60	10	15	14	17

A(1:2) Tool mounting flange A6

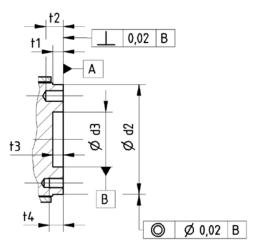








A dowel pin is required in addition to the internal or external centering to fix the position



From the position shown, a rotation range of  $\pm$  360° is possible.



### VERTICAL ARTICULATED ROBOT RV150-2390 WORKSPACE

н Max. Center of the line TCP Max. area Load center J K EÎ 1292 G§ Movement range of the center of 870 rotation of the A5 axis TCP F Kinematic W8 ∓16 (8x) origin M16 ¥30 (12) D 012 1321 **C** 

#### Workspace

Α	mm	2,390
В	mm	185
С	mm	1,321
D	mm	1,210
E	mm	2,521
F	mm	565

G	mm	1,000
н	mm	950
1	mm	250
J	mm	1,956
К	mm	105

P For further information please contact us under:

Reis Robotics GmbH & Co. KG Walter-Reis-Straße 1 63785 Obernburg/Germany Phone +49 6022 503-0 Statements on quality and usability of the products are no warranty of properties, but are for information only. The relevant object of the contract is decisive for the scope of our supply and services. Some illustrations may contain optional equipment that is not included in the standard scope of supply.

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#### www.reisrobotics.com

