![reis]

VERTICAL ARTICULATED ROBOT
RV30-1665

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

The REIS **RV30-1665** is a highly developed 6-axis articulated arm robot that offers exceptional precision and dynamics with a nominal payload of 30 kg. The **RV30** 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 range, the mechanics can also be equipped with secondary encoders.

Top class technology top class

Equipped with six rotary axes, the **RV30-1665** 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 **RV30-1665** unfolds its full potential. The precise path control technology of the REIS ROBOTstar VII, in combination with the SINAMICS 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.

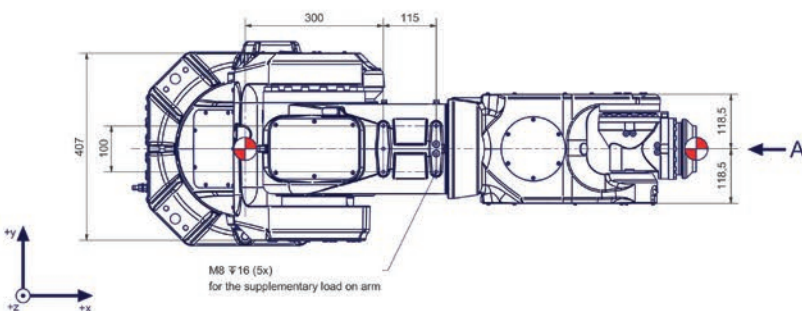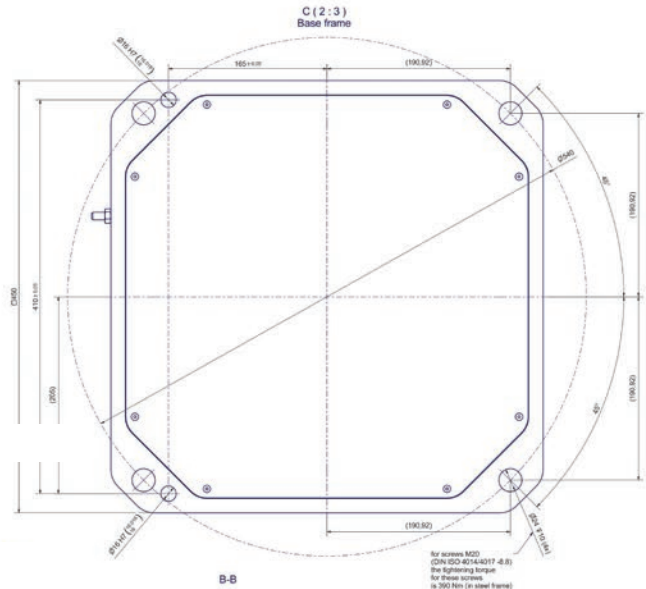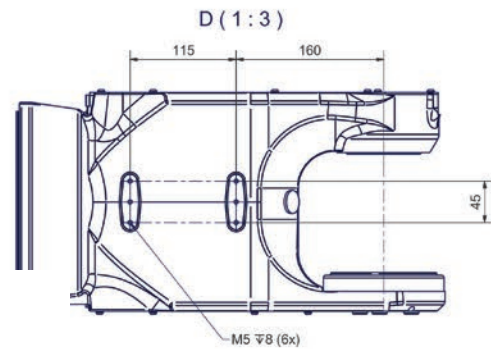# VERTICAL ARTICULATED ROBOT
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Technical data

Nominal load capacity	kg	30
Additional load on arm A3	kg	10
Number of axes		6
Protection class	IP	67
Repeat accuracy	mm	±0,018
Weight of basic device (without control unit)	kg	312

Speeds

A1	°/s	222
A2	°/s	145
A3	°/s	206
A4	°/s	245
A5	°/s	206
A6	°/s	450

Swivel range of traversing axis
Axis 1 to 6

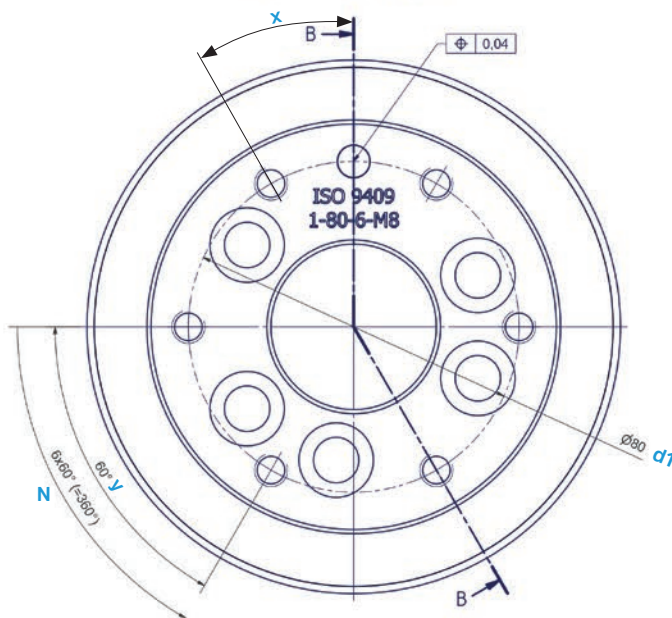|		
Swivel range A1	°	±185
Swivel range A2	°	-69/+148
Swivel range A3	°	-160/+67
Swivel range A4	°	±185
Swivel range A5	°	±120
Swivel range A6	°	±360

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MECHANICAL INTERFACE

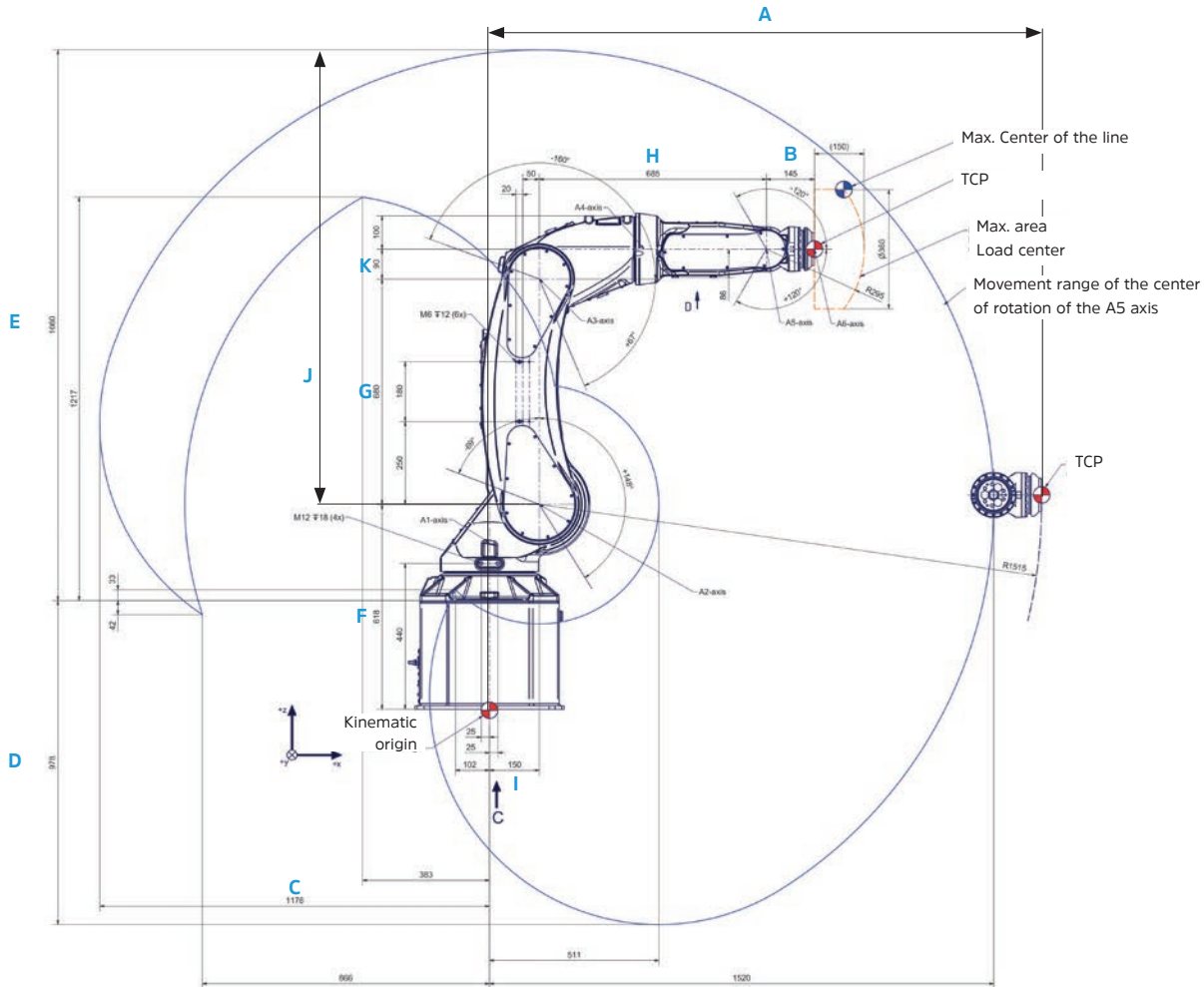| Typ	d_1	$d_{2\,h8}$	$d_3\,H^7$	d_4	N	$d_5\,H^7$	x	y	t_1	t_2	t_3	t_4
	mm	mm	mm	mm		mm	°	°	mm	mm	mm	mm
RV30-1665	80	100	40	M8	6	8	30	60	8	10	12	18

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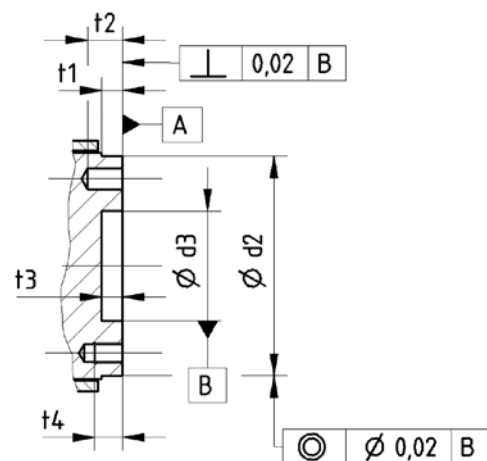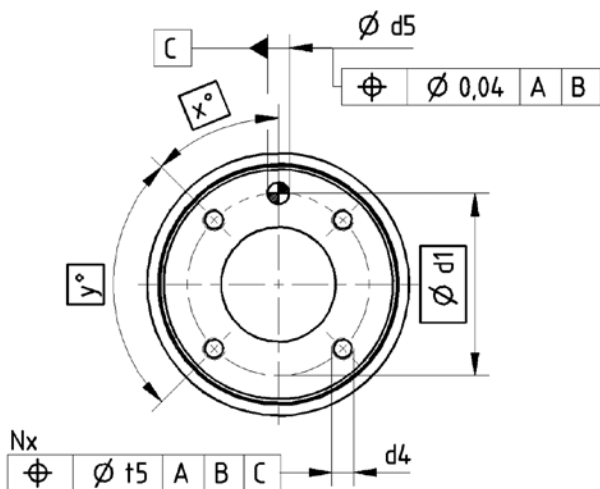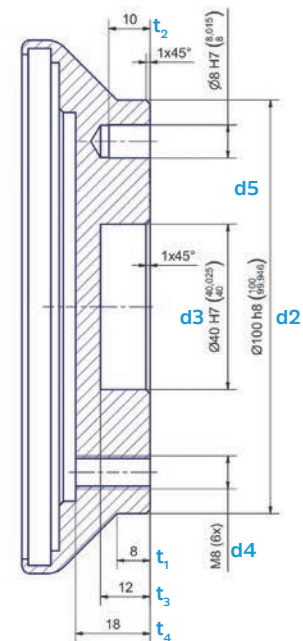
A dowel pin is required in addition to the internal or external centering to fix the position

From the position shown, a rotation range of ± 360° is possible.

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VERTICAL ARTICULATED ROBOT
RV30-1665
WORKSPACE

Max. Center of the line

TCP

Max. area
Load center

Movement range of the center
of rotation of the A5 axis

TCP

Kinematic origin

Workspace

A	mm	1,665	G	mm	680
B	mm	145	H	mm	685
C	mm	1,176	I	mm	150
D	mm	978	J	mm	1,042
E	mm	1,660	K	mm	90
F	mm	618			

🖥 For further information please contact us under: