

# LINEAR GANTRY RLP300

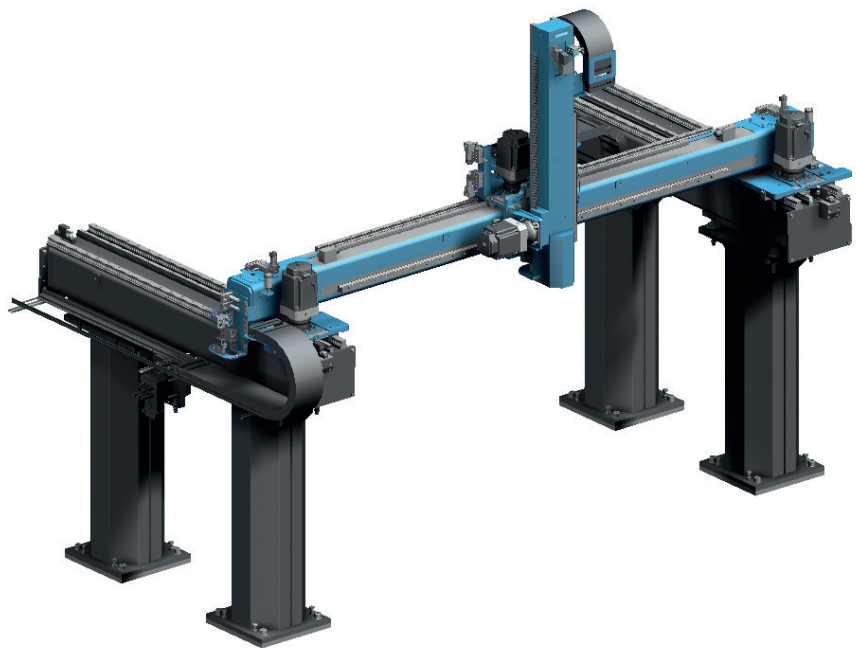
## FOR ENHANCED QUALITY AND PRODUCTIVITY IN LARGE-SCALE WORKSPACES

In its maximum configuration, the **RLP300 linear gantry robot** has three cartesian axes and three rotary axes, which are fully synchronized and interpolated servo axes controlled by the robot controller. The double-sided bearing of the first axis ensures maximum dynamics with very high stability.

The experience gained from a large number of installed handling applications and our expertise as one of the leading providers of intelligent automation solutions for more than five decades have been incorporated into the development of the new **RLP300**.

### YOUR BENEFITS

- combined with the very low interference contours of the robot kinematics, this is ideal for interlinking work sequences for loading and unloading, but also for palletizing or transferring
- modular design with workspaces from 5 m<sup>3</sup> to 675 m<sup>3</sup> make the **RLP300** a safe investment for your automation system
- state-of-the-art servo drive technologies are used to achieve the best possible dynamics, performance and reliability



### SCOPE OF SUPPLY INCLUDING

- **RLP300** with flexible stroke and staggered operating height  
Basic stroke:  
A1 = 2,000 mm,  
A2 = 2,500 mm,  
A3 = 1,000 mm

### OPTIONS

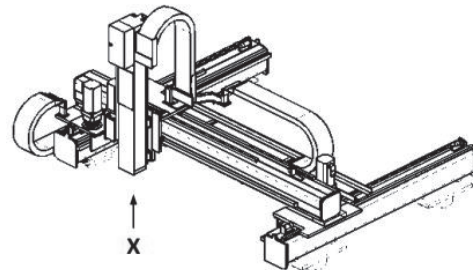
- Wrist axle modules
- Incremental stroke lengths A1 – A3
- Incremental height adjustment of the support columns
- Redundant holding brake A3
- Central lubrication system
- Energy supply
- Adapted to customer specifications
- Extra seals for guiding systems



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## Technical data

Nominal payload capacity	kg	300
Payload range (depending on stroke A3)	kg	254 to 332
Repeat positioning accuracy	mm	±0.3
Number of axes		3
Work envelope	m <sup>3</sup>	5 to 675
Medium power consumption	kVA	5.4
Connected load	kVA	8.6
Weight of basic stroke A1 – A3 (without support columns, without load)	kg	2,475



Gravity centre of total mass  
observe max. tilting moment

## Velocities

A1	m/s	2.6
A2	m/s	2.6
A3	m/s	1.4

## Strokes

		A1	A2	A3
Basic stroke	mm	2,000	2,500	1,000
Max. stroke	mm	45,000	6,000	2,500
Extension steps	mm	1,000	500	250
Extra weight for each upgrade	kg	350	72.5	13

## Support column

Basic size		450
Basic height	mm	1,750
Maximum height		3,000
Height of extension steps	mm	250
Support column spacing (max.)	mm	5,000
Support arm projection (max.)	mm	1,250

## Table Maximum load A3

Stroke lengths A3 [mm]	Load (max.)	
1,000	kg	324
1,250	kg	312
1,500	kg	300
1,750	kg	288
2,000	kg	276
2,250	kg	264
2,500	kg	252

## Max. lever arm with max. load

L <sub>z</sub>	mm	250
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## Max. tilting moment

M A3	Nm	550
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For further information please contact us under: [sales@reisrobotics.com](mailto:sales@reisrobotics.com)

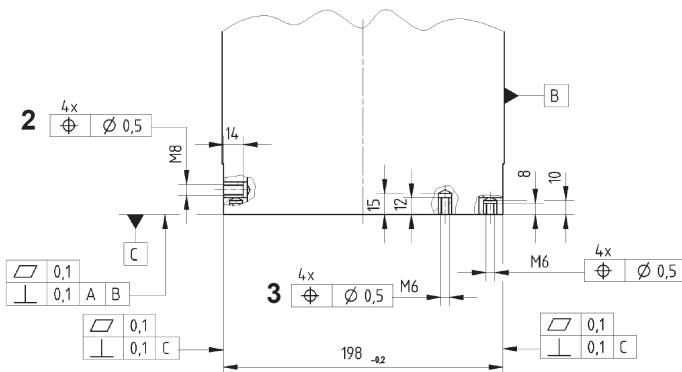
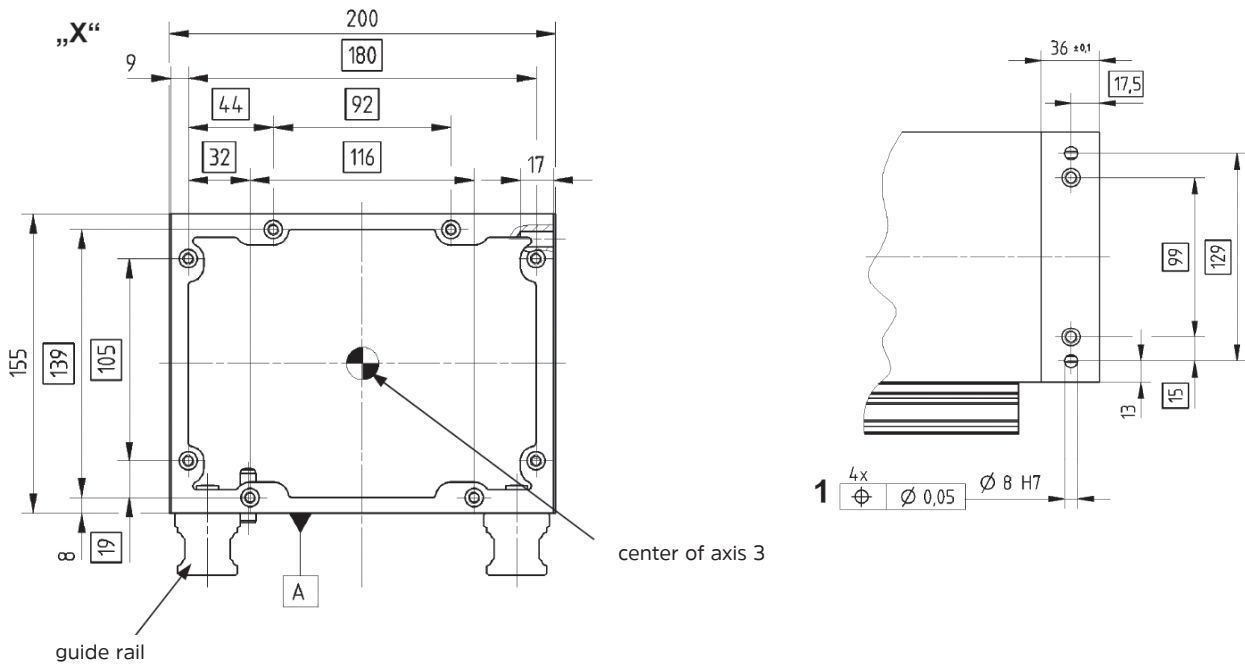
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## TOOL INTERFACE AXIS 3



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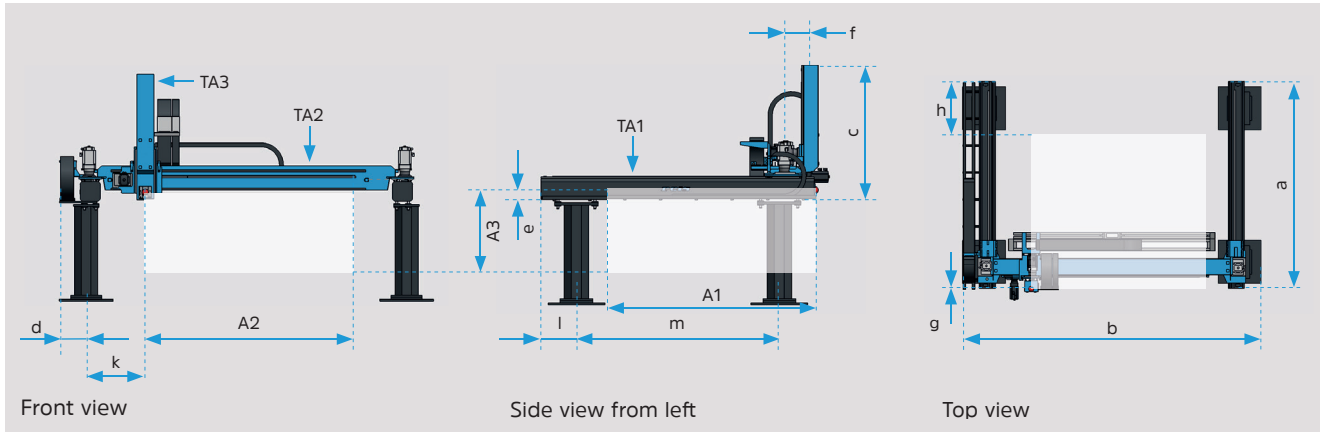
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## WORK ENVELOPE



### Legend

- A1** Stroke axis 1
- A2** Stroke axis 2
- A3** Stroke axis 3

- TAx** Support arm Axis x
- WS** Tool interface A3
- UK** Bottom edge
- OK** Upper edge

### Space requirement / footprint

<b>a</b>	Overall length	mm	$A1 + 1,200$	<b>g</b>	Start TA1 to WS	mm	185
<b>b</b>	Total width	mm	$A2 + 2,500$	<b>h</b>	End TA1 to WS	mm	840
<b>c</b>	Total height (without stand)	mm	$A3 + 975$	<b>k</b>	Middle TA1 to WS	mm	760
<b>d</b>	Overhang E-chain	mm	585	<b>l</b>	max. ledge projection TA1	mm	1,250
<b>e</b>	Lower TA1 to WS	mm	235	<b>m</b>	max. distance between uprights	mm	5,000
<b>f</b>	Center TA2 to WS	mm	330				

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