

LINEAR GANTRY RLP600

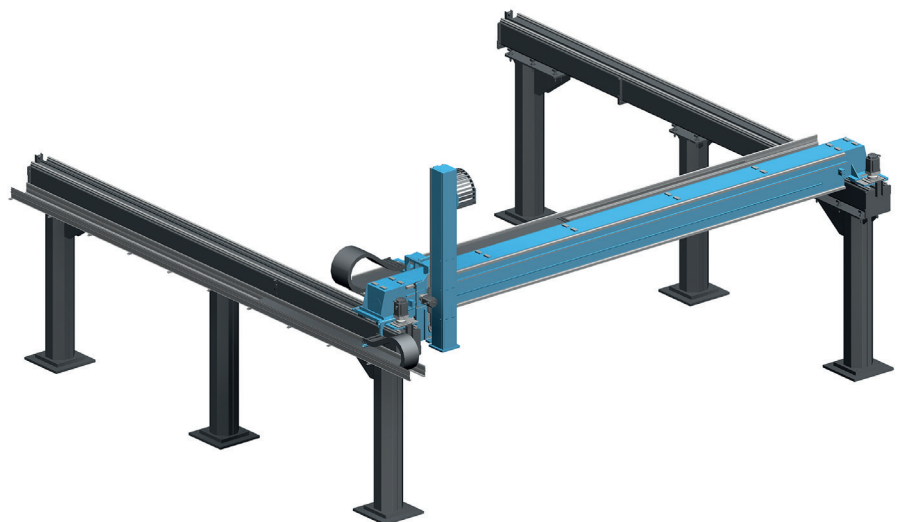
FOR ENHANCED QUALITY AND PRODUCTIVITY IN LARGE-SCALE WORKSPACES

In its maximum configuration, the **RLP600 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 **RLP600**.

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 16 m³ to 1,069 m³ make the **RLP600** 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

- **RLP600** with flexible stroke and staggered operating height
Basic stroke:
A1 = 4,000 mm,
A2 = 4,000 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	600
Payload range (depending on stroke A3)	kg	525 to tbd
Repeat positioning accuracy	mm	± 0.8
Number of axes		3
Work envelope	m ³	16 to 1,069
Medium power consumption	kVA	7.5
Connected load	kVA	11.7
Weight of basic stroke A1 – A3 (without support columns, without load)	kg	tbd

Velocities

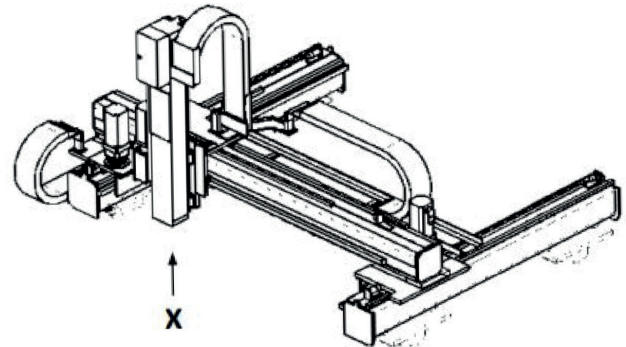
A1	m/s	2
A2	m/s	2
A3	m/s	1.3

Strokes

		A1	A2	A3
Basic stroke	mm	4,000	4,000	1,000
Max. stroke	mm	45,000	9,500	2,500
Extension steps	mm	1,000	500	250
Extra weight for each upgrade	kg	tbd	tbd	tbd

Support column

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



Gravity centre of total mass
observe max. tilting moment

Table Maximum load A3

Stroke lengths A3 [mm]	Load (max.)
2,500	kg 525

Max. lever arm with max. load

L _z	mm	500
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Max. tilting moment

M A3	Nm	2,000
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For further information please contact us under: sales@reisrobotics.com

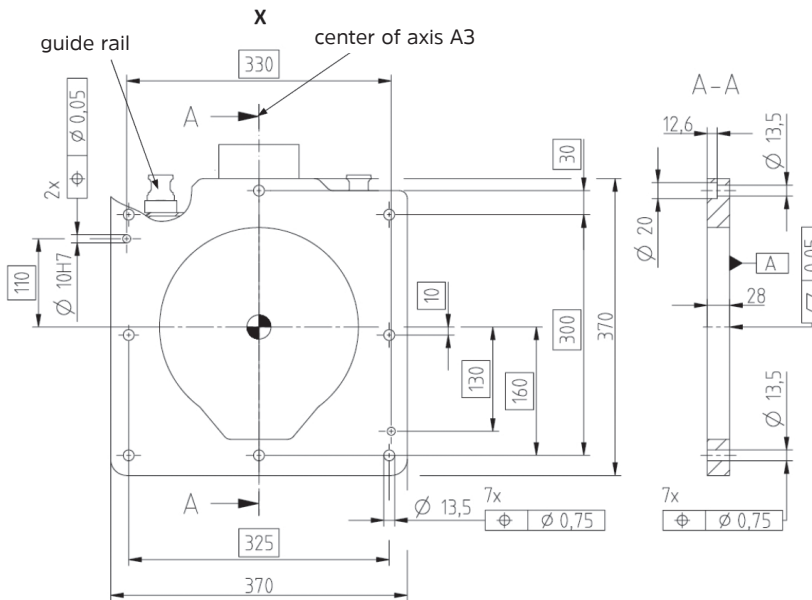
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TOOL INTERFACE AXIS 3



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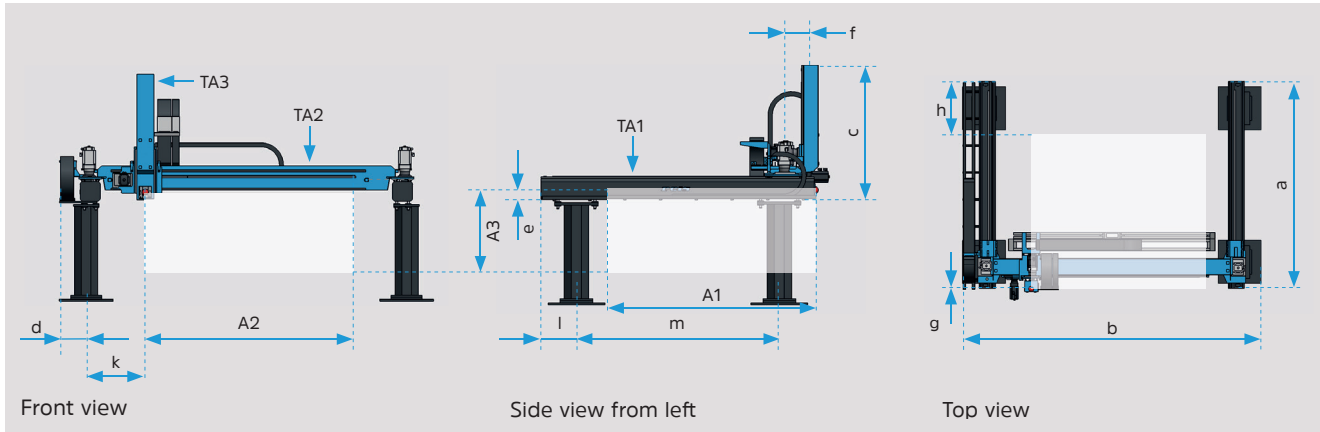
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WORK ENVELOPE



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

a	Overall length	mm	$A1 + 2,160$	g	Start TA1 to WS	mm	160
b	Total width	mm	$A2 + 2,650$	h	End TA1 to WS	mm	925
c	Total height (without stand)	mm	$A3 + 925$	k	Middle TA1 to WS	mm	865
d	Overhang E-chain	mm	740	l	max. ledge projection TA1	mm	1,250
e	Lower TA1 to WS	mm	125	m	max. distance between uprights	mm	5,000
f	Center TA2 to WS	mm	530				

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