

LINEAR ROBOT **RL300**

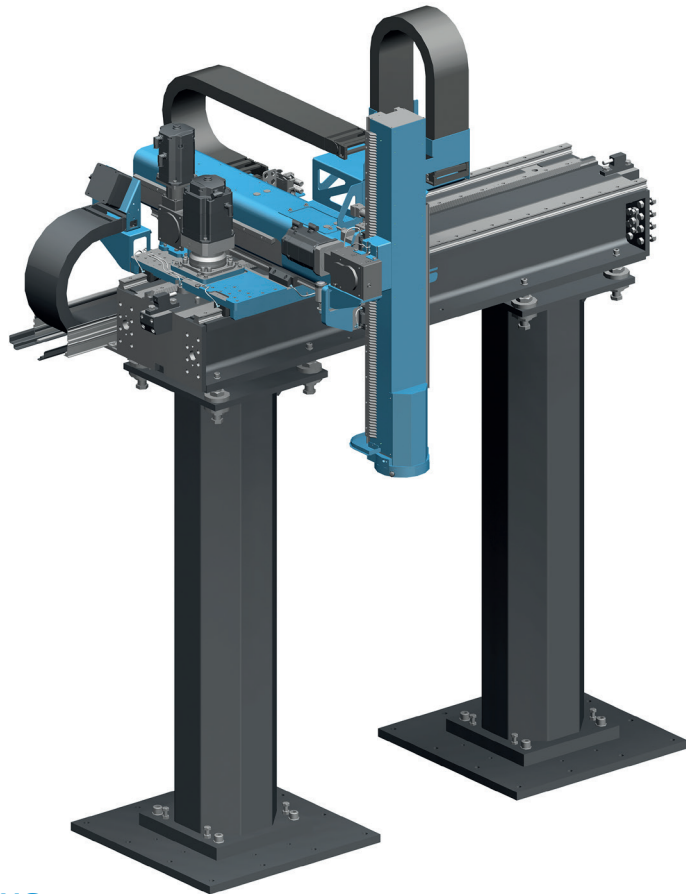
FOR ENHANCED QUALITY AND PRODUCTIVITY IN LARGE-SCALE WORKSPACES

In its maximum configuration, the **RL300 linear robot** has three cartesian axes and three rotary axes, which are fully synchronized and interpolated servo axes controlled by the robot controller.

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 **RL300**.

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 1 m³ to 255 m³ make the linear robot 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

- **RL300** with flexible stroke and staggered operating height
Basic stroke:
A1 = 2,000 mm,
A2 = 500 mm,
A3 = 1,000 mm

OPTIONS

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



LINEAR ROBOT RL300

Technical data

Nominal payload capacity	kg	300
Payload range (depending on stroke A3)	kg	252 to 324
Repeat positioning accuracy	mm	±0.3
Number of axes		3
Work envelope	m ³	1 to 255
Medium power consumption	kVA	3.0
Connected load	kVA	7.5
Weight of basic stroke A1 – A3 (without support columns, without load)	kg	approx 2,538

Velocities

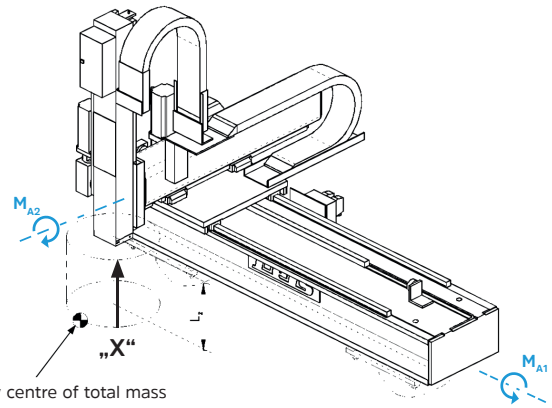
A1	m/s	2
A2	m/s	1.7
A3	m/s	1

Strokes

		A1	A2	A3
Basic stroke	mm	2,000	500	1,000
Max. stroke	mm	45,000	2,000	2,500
Extension steps	mm	1,000	250	250
Extra weight for each upgrade	kg	544	33	12

Support column

Basic size (ø)	mm	560
Basic height	mm	1,750
Maximum height	mm	3,000
Height of extension steps	mm	250
Support column spacing (max.)	mm	6,500
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.)	
1,000 mm	kg	324
1,250 mm	kg	312
1,500 mm	kg	300
1,750 mm	kg	288
2,000 mm	kg	276
2,250 mm	kg	264
2,500 mm	kg	252

Max. lever arm with max. load

L _Z	mm	250
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For further information please contact us under: sales@reisrobotics.com

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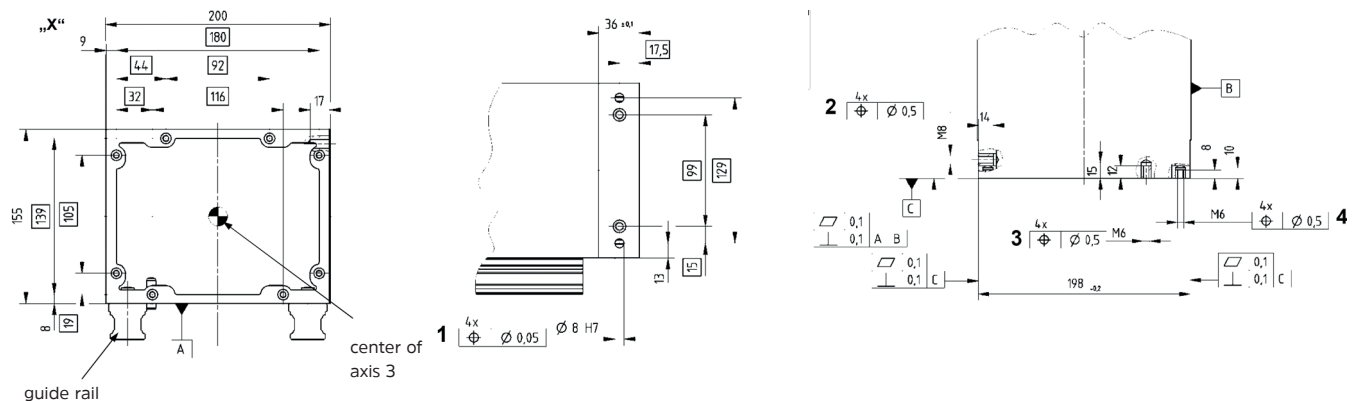
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ADDITIONAL LOAD

Additional load on axis A1 and axis A2

Type	stroke lengths A2 / D	Additional load moving along on A1		Additional load moving along on A2	
		max. mass	max. admissible moment around center of support arm A1, generated by L_{A1} and L_{A2}	max. mass	max. admissible moment around center of support arm A2
	[mm]	L_{A1} [kg]	M_{A1} [Nm]	L_{A2} [kg]	M_{A2} [Nm]
RL300	500	610 - L_{A2}	4,270	290	+/- 580
	750	570 - L_{A2}	3,990	250	+/- 500
	1,000	530 - L_{A2}	3,710	210	+/- 420
	1,250	490 - L_{A2}	3,430	170	+/- 340
	1,500	450 - L_{A2}	3,150	130	+/- 260
	1,750	410 - L_{A2}	2,870	90	+/- 180
	2,000	370 - L_{A2}	2,590	50	+/- 100

D = extension of cantileve



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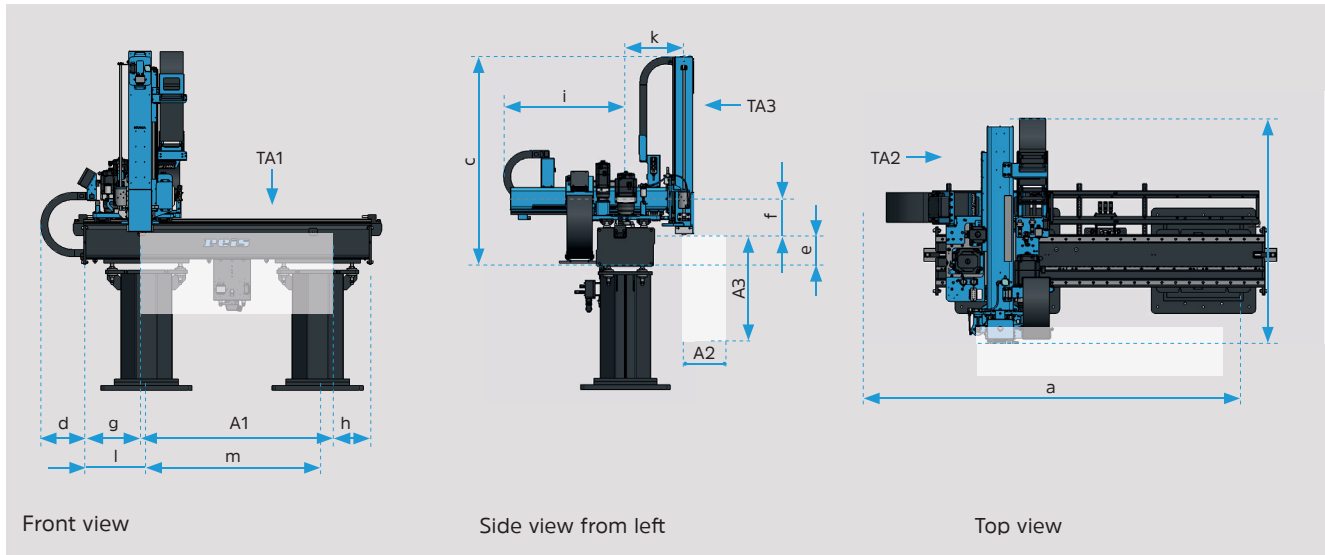
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WORK ENVELOPE



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 + 1,335	g	Start TA1 to WS	mm	520
b	Total width	mm	A2 + 1,485	h	End TA1 to WS	mm	525
c	Total height (without stand)	mm	A3 + 995	i	Protrusion TA2 Center A1	mm	A2 + 640
d	Overhang E-chain	mm	315	k	Center TA1 to WS	mm	730
e	Lower TA1 to WS	mm	265	l	Max. ledge projection TA1	mm	1,250
f	Center TA2 to WS	mm	350	m	Max. distance between uprights	mm	6,500

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