LINEAR ROBOT **RL600**

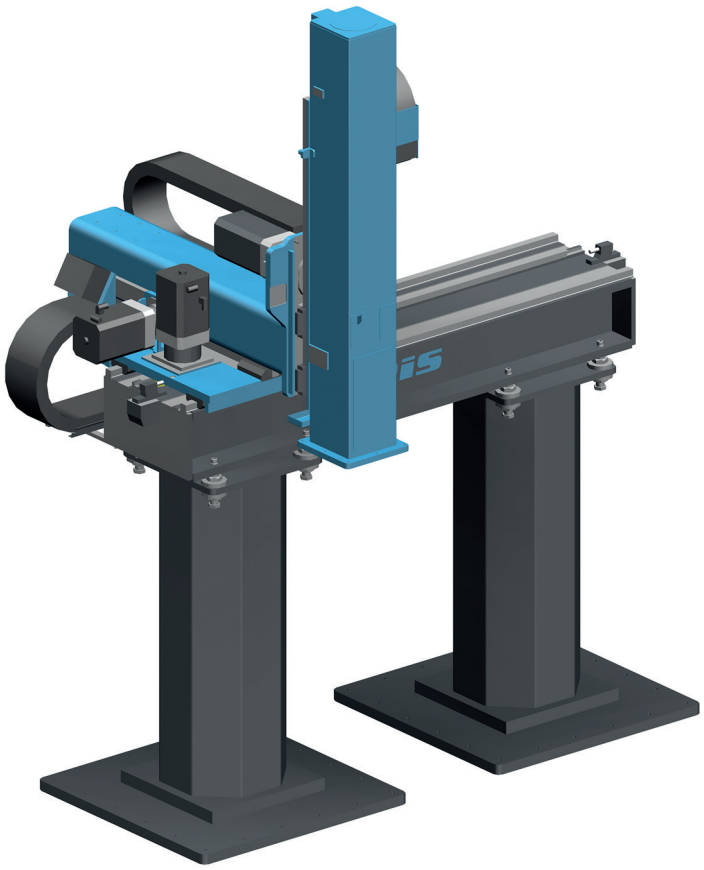
FOR ENHANCED QUALITY AND PRODUCTIVITY IN LARGE-SCALE WORKSPACES

In its maximum configuration, the **RL600 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 **RL600**.

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 m^3 to 255 m^3 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

- **RL600** 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

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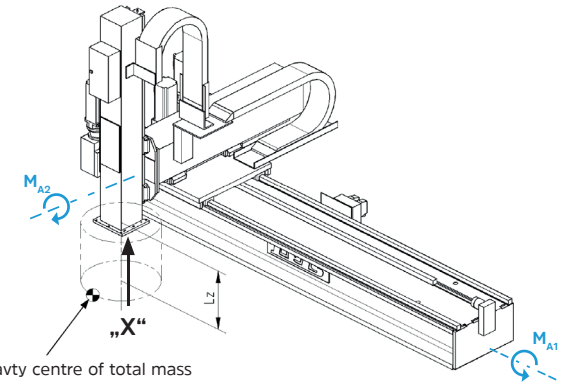
Technical data

Nominal payload capacity	kg	600
Payload range (depending on stroke A3)	kg	563 to 695
Repeat positioning accuracy	mm	± 0.3
Number of axes		3
Work envelope	m^3	1 to 255
Medium power consumption	kVA	2.3
Connected load	kVA	3.7
Weight of basic stroke A1 – A3 (without support columns, without load)	kg	approx 2,772



Gravty centre of total mass
observe max. tilting moment

Velocities

A1	m/s	2
A2	m/s	1.5
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	39	22

Max. lever arm with max. load

L_z	mm	500

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

Table Maximum load A3

Hub A3		Stroke lengths A2 [mm]								
[mm]		/	/	500	750	1,000	1,000	1,500	1,750	2,000
1,000	kg	675	675	675	675	675	675	675	675	675
1,250	kg	650	650	650	650	650	650	650	650	650
1,500	kg	625	625	625	625	625	625	625	625	625
1,750	kg	600	600	600	600	600	600	600	600	550
2,000	kg	575	575	575	575	575	575	575	575	525
2,250	kg	550	550	550	525	500	475	445	420	400
2,500	kg	525	525	500	475	450	425	395	370	350

For further information please contact us under: sales@reisrobotics.com

Reis Robotics GmbH & Co. KG
Walter-Reis-Straße 1
63785 Obernburg / Germany
Phone +49 6022 503-0

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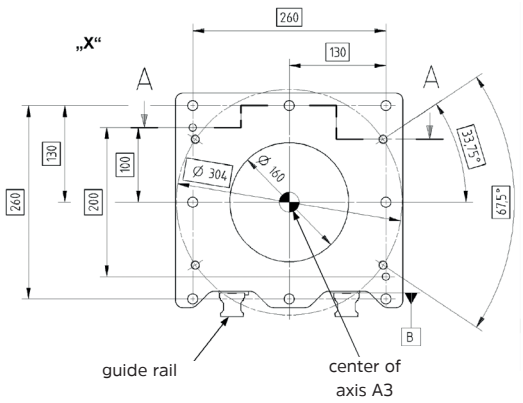
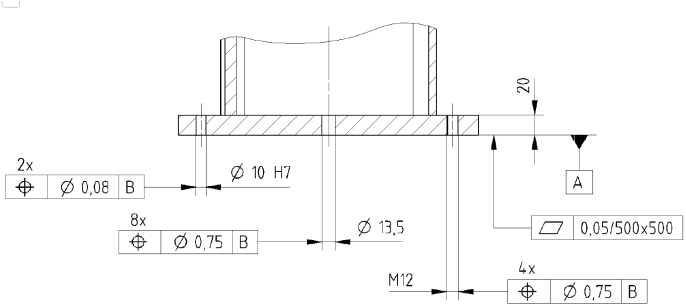
ADDITIONAL LOAD

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]
RL600	500	1,175 – L_{A2}	15,800	375	+/- 3,300
	750	1,130 – L_{A2}	13,300	375	+/- 3,300
	1,000	1,085 – L_{A2}	10,800	330	+/- 3,300
	1,250	1,040 – L_{A2}	8,300	285	+/- 3,300
	1,500	995 – L_{A2}	5,800	240	+/- 3,300
	1,750	950 – L_{A2}	3,300	195	+/- 3,300
	2,000	905 – L_{A2}	800	150	+/- 3,300

D = extension of cantilever





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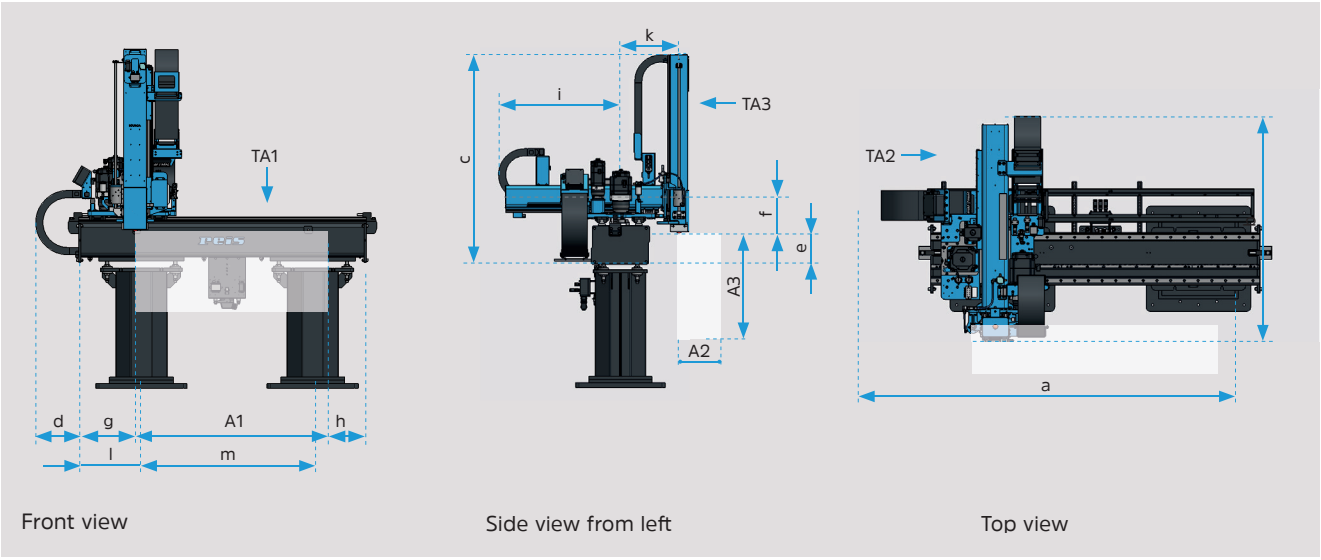
WORK ENVELOPE



Front view | Side view from left | Top view

Legend

A1	Stroke axis 1	**TAx**	Support arm Axis x
A2	Stroke axis 2	**WS**	Tool interface A3
A3	Stroke axis 3	**UK**	Bottom edge
		OK	Upper edge

Space requirement / footprint

a	Overall length	mm	A1 + 1,450
b	Total width	mm	A2 + 1,645
c	Total height (without stand)	mm	A3 + 1,315
d	Overhang E-chain	mm	325
e	Lower TA1 to WS	mm	205
f	Center TA2 to WS	mm	430
g	Start TA1 to WS	mm	530
h	End TA1 to WS	mm	500
i	Protrusion TA2 Center A1	mm	A2 + 615
k	Center TA1 to WS	mm	845
l	Max. ledge projection TA1	mm	1,250
m	Max. distance between uprights	mm	6,500

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