

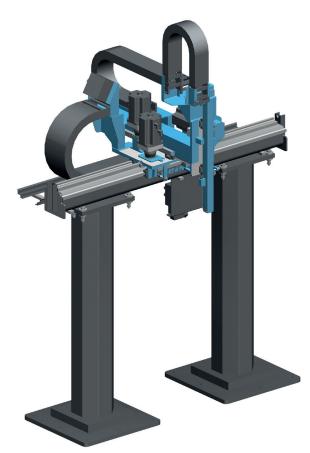
FOR ENHANCED QUALITY AND PRODUCTIVITY IN LARGE-SCALE WORKSPACES

In its maximum configuration, the **RL16 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 **RL16**.

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 0.5 m³ to 22.5 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

 RL16 with flexible stroke and staggered operating height Basic stroke:

A1 = 2,000 mm,

A2 = 500 mm,

A3 = 500 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





Technical data

Nominal payload capacity	kg	16
Payload range (depending on stroke A3)	kg	14 to 32
Repeat positioning accuracy	mm	± 0.1
Number of axes		3
Work envelope	m³	0.5 to 22.5
Medium power consumption	kVA	2.9
Connected load	kVA	4.6
Weight of basic stroke A1 – A3 (without support columns, without load)	kg	approx 373

Velocities

A1	m/s	3
A2	m/s	3
A3	m/s	4

Strokes		A1	A2	А3
Basic stroke	mm	2,000	500	500
Max. stroke	mm	15,000	1,000	1,500
Extension steps	mm	1,000	250	250
Extra weight for each upgrade	kg	6	8	4.5

Support column

Basic size (ø)	mm	345
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

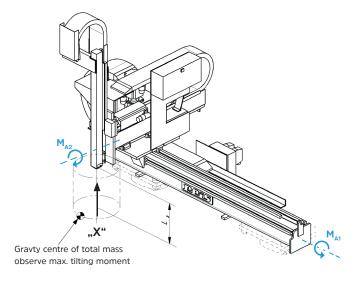


Table Maximum load A3

Stroke lengths A3 [mm]	Lo	Load (max.)	
500	kg	32	
750	kg	27.5	
1,000	kg	23	
1,250	kg	18.5	
1,500	kg	14	

Max. lever arm with max. load

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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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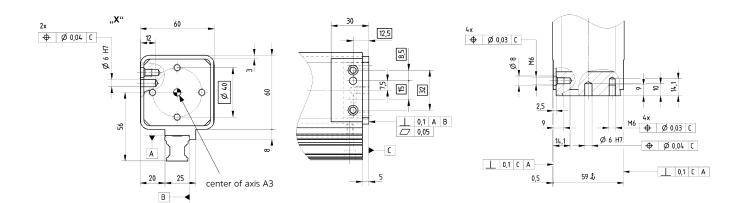


ADDITIONAL LOAD

Additional load on axis A1 and axis A2

Туре	stroke lengths A2/D	Additional load moving along on A1		Additional load moving along on A2		
		$\begin{array}{ccc} & \text{max. admissible moment} \\ \text{mass} & \text{around center of support arm} \\ \text{A1, generated by L_{A1} and L_{A2}} \end{array}$		max. mass	max. admissible moment around center of support arm A2	
	[mm]	L _{A1} [kg]	M _{A1} [Nm]	L _{A2} [kg]	M _{A2} [Nm]	
	500	33 – L _{A2}	116	18	+/_ 18	
RL16	750	27 – L _{A2}	95	12	+/_ 12	
	1,000	21 – L _{A2}	74	6	+/_ 6	

D = extension of cantilever



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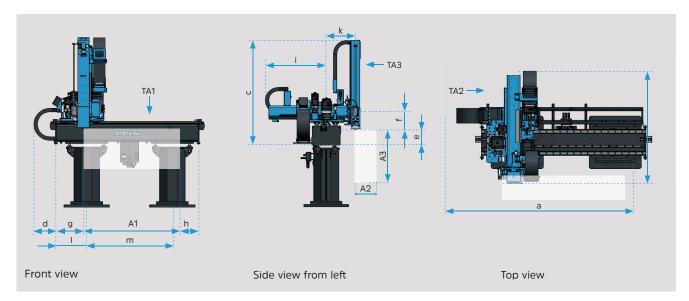
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WORK ENVELOPE



Legend

A1 Stroke axis 1

A2 Stroke axis 2

A3 Stroke axis 3

TAx Support arm Axis x

WS Tool interface A3

UK Bottom edgeOK Upper edge

Space requirement/footprint

a	Overall length	mm	A1 + 1,055
b	Total width	mm	A2 + 895
С	Total height (without stand)	mm	A3 + 1,225
d	Overhang E-chain	mm	515
е	Lower TA1 to WS	mm	150
f	Center TA2 to WS	mm	165
g	Start TA1 to WS	mm	280

h	End TA1 to WS	mm	220
i i	Protrusion TA2 Center A1	mm	A2 + 1,100
k	Center TA1 to WS	mm	355
Γ_{ij}	Max. ledge projection TA1	mm	1,250
m	Max. distance between uprights	mm	6,500

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