

# Specification sheet – Roller profile rail guide LLU



MAKERS IN MOTION

Please complete the form with all available information and send it to your Ewellix representative or authorized distributor for product selection.

Ewellix contact	Date
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## General information

### Customer

Company		
Address 1		
Address 2		
Post code / Zip	City	State
Country		

### Contact

Contact name	
Job title	
Department	
Phone (including country code)	Mobile (including country code)
Mail	

Project title
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### Reason for request

Current product / brand	Description
<input type="radio"/> Replacement	<input type="radio"/> New design <input type="radio"/> Other

### Application / Industry

<input type="radio"/> Factory automation	<input type="radio"/> Food and beverage	<input type="radio"/> Machine tools	Description
<input type="radio"/> Medical	<input type="radio"/> Semiconductor	<input type="radio"/> Other	

### Export control and Ewellix policy (mandatory to mark)

<input type="radio"/> The application is not subsidiary or part of industry of national defence and/or nuclear (also not with details of the function). The application is civil.
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## Commercial information

### General

<input type="radio"/> One shot business	Quantity, pcs	Batch size, pcs	Start of supply, YYYY MM DD	Target price / each	Currency
<input type="radio"/> Yearly repeating business					

## Application description

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<b>Stroke</b>	<b>Rail length</b>	<b>Center distance between</b>		<b>or Short part dimensions</b>		<b>Guiding system</b>
mm	mm	carriages, c	rails, d	Length	Width	Maximum height
		mm	mm	mm	mm	mm
						<input type="radio"/> No constraints

<b>Required service life distance or time (fill in all fields)</b>				<b>Required static safety (in accordance to your business and application)</b>	
Distance	Total time	Period of one cycle	Stroke of one cycle		
km	h	s	mm		

<b>Maximum speed <sup>1)</sup></b>	<b>Maximum acceleration <sup>1)</sup></b>	<b>Rigidity of guiding system</b>	<b>Running accuracy of guiding system</b>
m/s	m/s <sup>2</sup>	N/μm	Parallelism in height
			μm
		<input type="radio"/> No specific requirements	Parallelism in sideward direction
			μm

<sup>1)</sup> Here the maximum values. Enter load phase specific values in table "External loads and load phases"

<b>Environment</b>		
Presence of dust, dirt or fluids <input type="radio"/> Clean environment, e.g. laboratory <input type="radio"/> Standard industrial environment <input type="radio"/> Dirty environment, e.g. milling machine	Requirements on friction <input type="radio"/> Lowest possible friction <input type="radio"/> Standard friction <input type="radio"/> No requirement	Preferred sealing version <input type="radio"/> Standard sealing <input type="radio"/> Scraper plate (S1) <input type="radio"/> Additional front seal NBR (S7) <input type="radio"/> Additional front seal FKM (S4) <input type="radio"/> Seal kit (S3) <input type="radio"/> Seal kit (S8)
<input type="radio"/> Humid or corrosive environment If yes, please describe:		

<b>Temperature [°C]</b>			<input type="radio"/> Shock loads or vibrations
Minimum	Operating	Maximum	If yes, please describe:

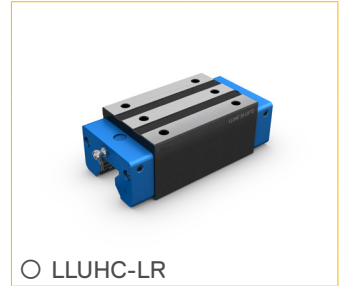
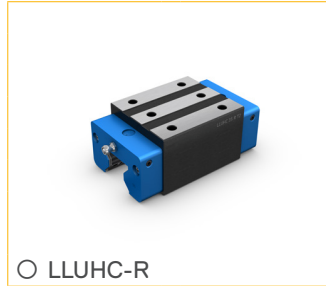
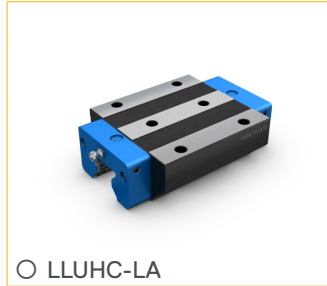
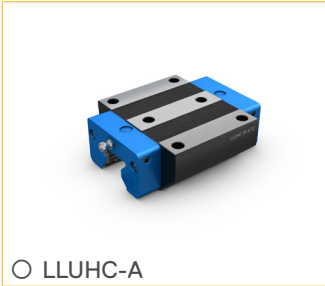
<b>Lubricant in use</b>		Please specify (type, brand):
<input type="radio"/> Grease (preferably SKF LGEP 2)	<input type="radio"/> Oil lubrication	

**Sketch of the application (or attach a drawing)**

## Product details

Product designation (if already known)

Carriage type



Rail type



Preload class

<input type="radio"/> T2 (8% C)	<input type="radio"/> T3 (13% C)	
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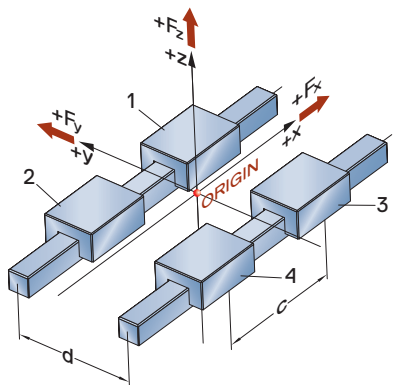
Precision class

<input type="radio"/> P3 (Medium)	<input type="radio"/> P1 (High)	<input type="radio"/> P01 (Super)	<input type="radio"/> P001 (Ultra)
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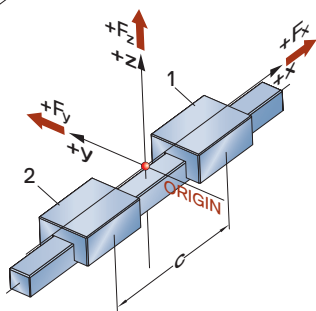
Needed accessories (for details see Ewellix publication Roller profile rail guide LLU)

- Grease nipple straight (standard) (25-65VN-M6)
- Grease nipple 45° (25-65VN-M6-45)
- Grease nipple 90° (25-65VN-M6-90)
  
- Quick coupling straight (25-65VN SC)
- Quick coupling 90°, adjustable (25-65 VN AC)
  
- Lubrication connector, extension M6 to M6 (25-65VN UA)
- Reduction fitting, from G1/8 to M6 (25-65VN UB)
- Reduction fitting, from M8x1 to M6 (25-65VN UC)
  
- Assembly tools for metal plugs (LLUHZ ... D6)

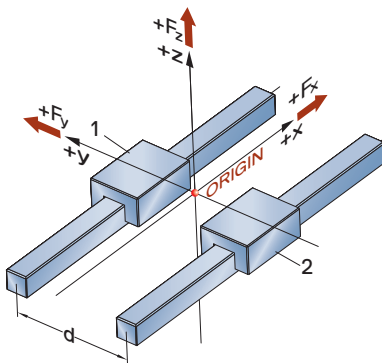
Input for dimensioning calculation



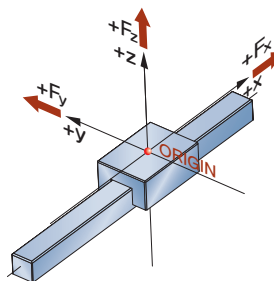
Config 24



Config 12



Config 22



Config 11

- No preference
- Other

If yes, please describe:

Moving direction (set coordinate system accordingly)

Please specify:

- Horizontal
- Vertical
- Other

External loads and load phases

Forces in N, Lever arms in mm measured from defined origin (see graphics above) If the application has more than 3 load phases, please copy this page.

Load phase 1			
Stroke	mm		
Acceleration	mm/s <sup>2</sup>		
Speed	m/s		
Lever arms in			
Force $F_x$	x	y	z
Force $F_y$	x	y	z
Force $F_z$	x	y	z

Load phase 2			
Stroke	mm		
Acceleration	mm/s <sup>2</sup>		
Speed	m/s		
Lever arms in			
Force $F_x$	x	y	z
Force $F_y$	x	y	z
Force $F_z$	x	y	z

Load phase3			
Stroke	mm		
Acceleration	mm/s <sup>2</sup>		
Speed	m/s		
Lever arms in			
Force $F_x$	x	y	z
Force $F_y$	x	y	z
Force $F_z$	x	y	z