

**Specification sheet – Precision rail guide**

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>Length of shorter rail</b>	<b>Distance B<sub>1</sub></b>	<b>Distance B<sub>1</sub> + A</b>	<b>Guiding system</b>
mm	mm	mm	mm	or mm	Maximum height 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 km	Total time h	Period of one cycle s	Stroke of one cycle 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
<sup>1)</sup> Here the maximum values. Enter load phase specific values in table "External loads and load phases"		<input type="radio"/> No specific requirements	Parallelism in sideward direction μm

<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  <input type="radio"/> Humid or corrosive environment If yes, please describe:	Requirements on friction <input type="radio"/> Lowest possible friction <input type="radio"/> Standard friction <input type="radio"/> No requirement  Preferred material <input type="radio"/> No preference (standard) <input type="radio"/> Stainless steel <input type="radio"/> Coated steel

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

<b>Lubricant in use</b>	<input type="radio"/> Other Please specify:
<input type="radio"/> Standard (SKF grease LGEP2)	

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

**Product details**

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**Rail designation** (if already known)

**Precision class of rail**

 P10 (Standard)                       P5 (Medium)                       P2 (High)

**Designation of rolling element assembly** (if already known)

**Anti-creeping system needed** (recommended for high accelerations or vertical systems)

 Yes                       No

**Needed accessories** (for details see Ewellix publication Precision rail guides)

 End pieces                      Designation

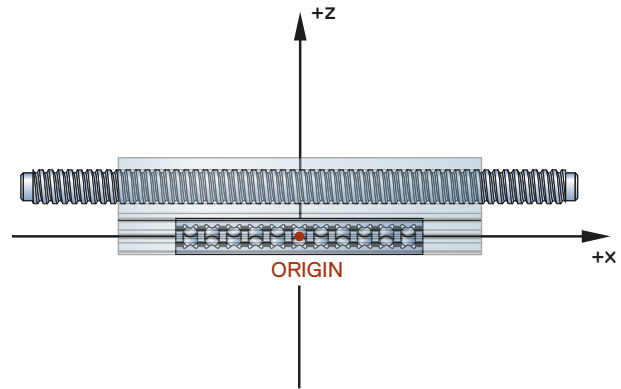
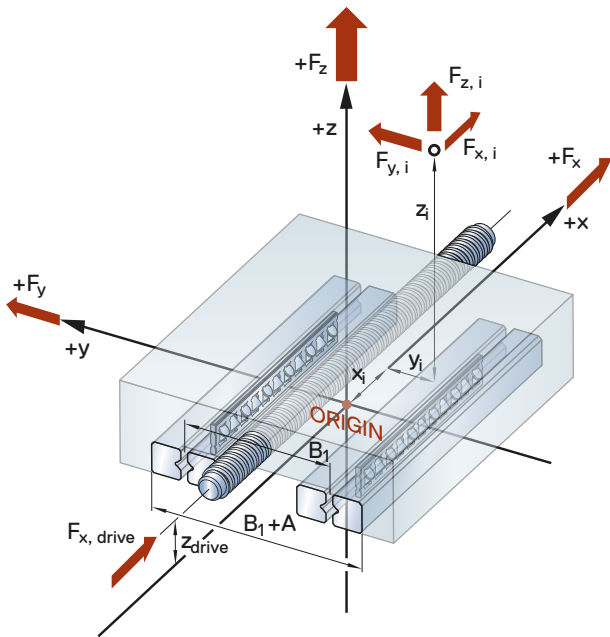
 End pieces with wipers  
(requires long and short rails)                      Designation

 Special mounting screws – LWGD

**Precision rail guides mounted into a complete system**

 GCL                       GCLA                       System with drive, e.g. roller screw

Input for dimensioning calculation



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 phase1			
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			
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