

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

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.

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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Stroke	Rail length	Length of shorter rail	Distance B₁	Distance B₁ + A	Guiding system
mm	mm	mm	mm	or mm	Maximum height mm
					<input type="radio"/> No constraints

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

Maximum speed ¹⁾	Maximum acceleration¹⁾	Rigidity of guiding system	Running accuracy of guiding system
m/s	m/s ²	N/μm	Parallelism in height μm
¹⁾ 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

Environment	
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

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

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

Sketch of the application (or attach a drawing)

Product details

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

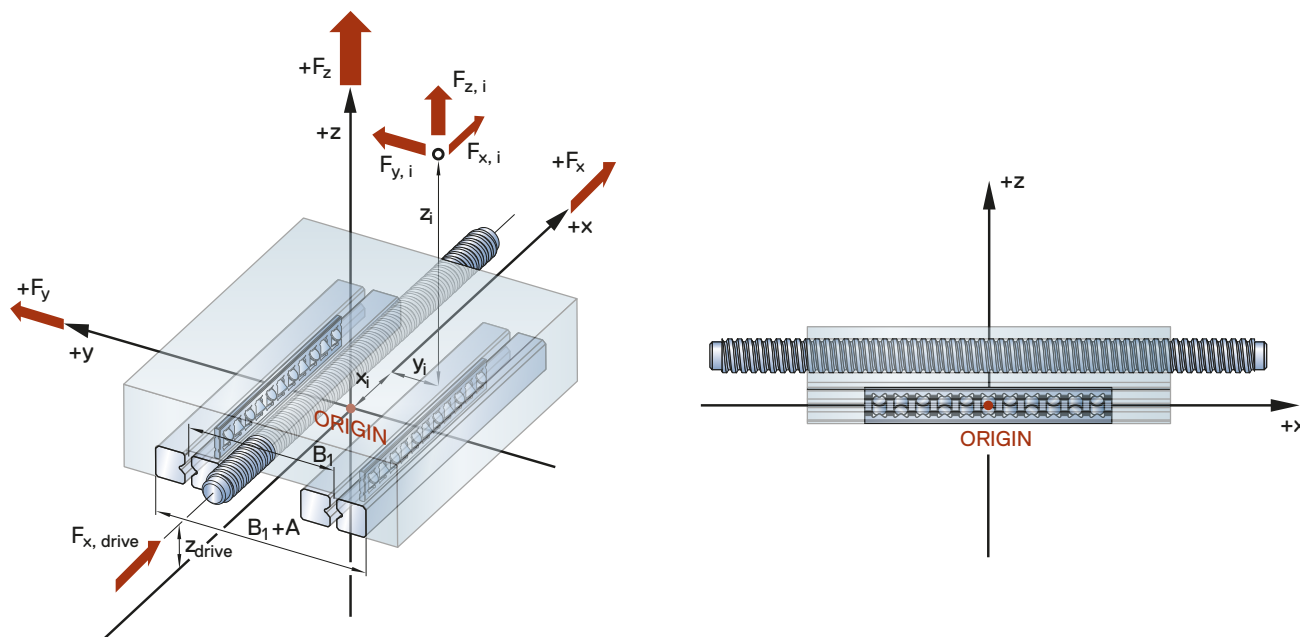
 End pieces with wipers
(requires long and short rails) Designation

 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 ²		
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 ²		
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 ²		
Speed	m/s		
Lever arms in			
Force F_x	x	y	z
Force F_y	x	y	z
Force F_z	x	y	z