

Product description

Characteristic features

With interchangeable elements ex store, you can combine complete guide units yourself ...

At Rexroth, we manufacture ball guide rails and ball runner blocks in ball raceways in particular so precisely that it is possible to interchange each individual element at any time. This means that you can combine them in any way you like within each accuracy class.

As a result, you have top level logistics that are unique. Each element can be individually ordered and separately stocked. Both sides of the guide rail can be used as reference edges.

Highlights

- ▶ The same high load capacities in all four main directions of loading
- ▶ Very low noise level and best travel performance
- ▶ Excellent dynamic characteristics:
Speed: v_{\max} to 10 m/s
Acceleration: $a_{\max} = 500 \text{ m/s}^2$
- ▶ Long-term lubrication over several years possible
- ▶ Minimum quantity lubrication system with integrated reservoir for oil lubrication¹⁾
- ▶ Lube ports with metal thread on all sides¹⁾
- ▶ Limitless interchangeability; all guide rail versions can be combined with all runner block versions
- ▶ Optimum system rigidity through preloaded O-arrangement
- ▶ Optimum installation error compensation with Super ball runner block
- ▶ 60 % weight saving with aluminum ball runner block (compared to the steel version)

1) Type-dependent

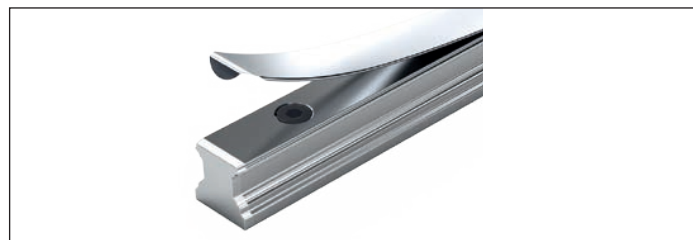
Abbreviation of the formats of all available ball runner blocks and ball guide rails

FNS = Flange, normal, standard height
FLS = Flange long standard height
FKS = Flange, short, standard height
FNN = Flange, normal, low profile
FKN = Flange, short, low profile

SNS = Slimline, normal, standard height
SLS = Slimline, long, standard height
SKS = Slimline, short, standard height
SNH = Slimline, normal, high
SLH = Slimline, long, high
SNN = Slimline, normal, low profile
SKN = Slimline, short, low profile
SNO = Slimline normal no base groove

BNS = Wide, normal, standard height
CNS = Compact, normal, standard height

2) For each ball runner block and ball guide rail type, any design styles that are not available will be indicated in gray lettering.



Definition of ball runner block format

Criterion	Designation	Abbreviation (example)		
		F	N	S
Width	Flange	F		
	Slimline	S		
	Wide	B		
	Compact	C		
Length	Normal		N	
	Long		L	
	Short		K	
Height	Standard height			S
	High			H
	Low			N

Definition of ball guide rail format

Criterion	Designation	Code (example)		
		S	N	S
Width	Slimline	S		
	Wide	B		
Length	Normal		N	
Height	Standard height			S
	No base groove			O

Proven cover strip for ball guide rail mounting holes

- ▶ One cover for all the holes saves time and costs
- ▶ Made of corrosion-resistant spring steel per EN 10088
- ▶ Easy, secure mounting
- ▶ Clip it on and secure it

Further highlights

- ▶ Interchangeability with the roller rail system
- ▶ Integrated, inductive and wear-free measuring system as an option
- ▶ Extensive range of accessories
- ▶ Attachments on the ball runner block for mounting from above and below¹⁾
- ▶ Increase in rigidity with lift-off and lateral loading by means of additional screw connections on two drilled holes in the middle of the ball runner block¹⁾
- ▶ Mounting threads provided on end faces for fixing of all add-on elements
- ▶ High rigidity in all load directions – permits applications with just one runner block per rail
- ▶ Integrated all-round sealing
- ▶ High torque load capacity
- ▶ Optimized entry-zone geometry and high number of balls per track minimizes variation in elastic deflection
- ▶ Smooth, light running thanks to optimized ball recirculation and ball or ball chain guidance
- ▶ Various preload classes

Corrosion protection (optional)¹⁾

- ▶ Resist NR: Ball runner block body made of corrosion-resistant steel according to DIN EN 10088
- ▶ Resist NR II: Ball runner block body or ball guide rail and all steel components made of corrosion-resistant steel according to DIN EN 10088
- ▶ Resist CR: Ball runner block body or ball guide rail made of steel with corrosion-resistant hard chrome-plated matte silver coating

Design style examples

Standard ball rail system



FNS

Flange, normal, standard height



SNS

Slimline, normal, standard height

Wide ball rail system



BNS

Wide normal standard height



CNS

Compact normal standard height



Ball chain (optional)

- ▶ Optimizes noise levels