6. Bestelsleutels & Nomenclatuur

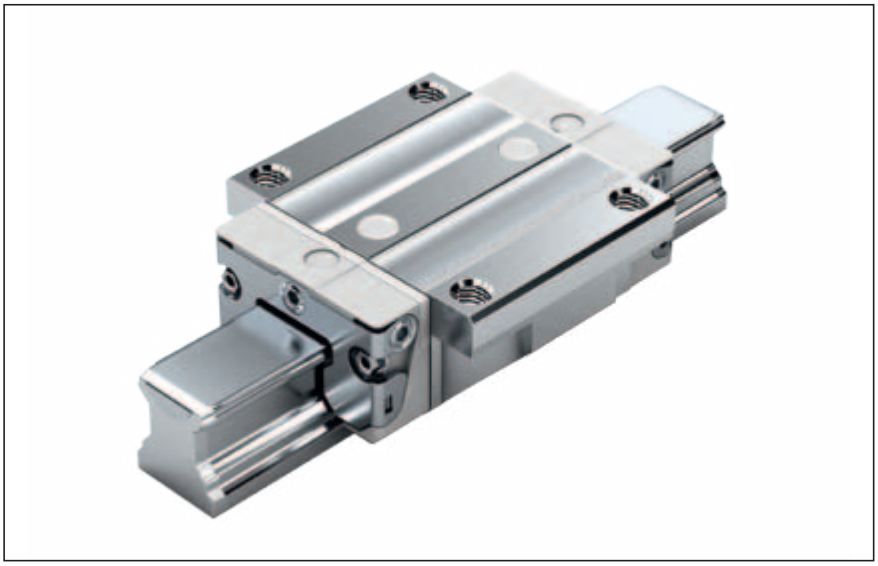
FNS – Flanged, normal, standard height

R2001 ... 14

Dynamic characteristics
Travel speed: $v_{max} = 5$ m/s
Acceleration: $a_{max} = 500$ m/s^2
(If $F_{comb} > 2.8 \cdot F_{pr}$: $a_{max} = 50$ m/s^2)

Note on lubrication
- Not pre-lubricated
- No preservative oil

Note
Can be used on all Ball Guide Rails SNS.



Options and part numbers

Size	Ball runner block with size	Preload class C0	C1	C2	Accuracy class H	Seal for ball runner block without ball chain SS
15	R2001 1	9	1	2	3	14
20	R2001 8	9	1	2	3	14
25	R2001 2	9	1	2	3	14
30	R2001 7	9	1	2	3	14
35	R2001 3	9	1	2	3	14
e.g.	R2001 7		1		3	14

Ordering example
Options:
- Ball Runner Block NRFG, FNS
- Size 30
- Preload class C1
- Accuracy class H
- With standard seal, without ball chain

Part number: R2001 713 14

Preload classes
C0 = without preload
C1 = preload 2% C
C2 = preload 8% C

Seals
SS = standard seal

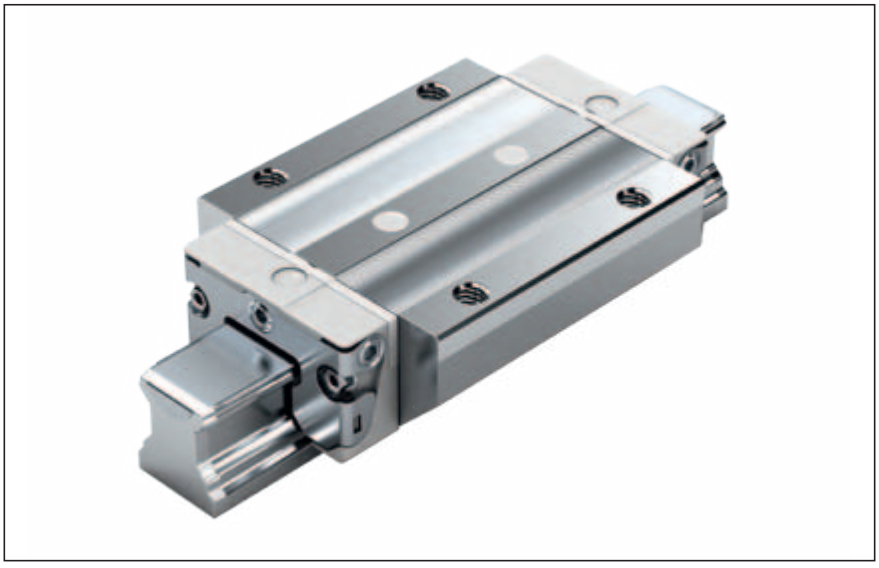
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Standard Ball Runner Blocks NRFG

FLS – Flanged, long, standard height

R2002 ... 14



Dynamic characteristics
Travel speed: $v_{max} = 5$ m/s
Acceleration: $a_{max} = 500$ m/s^2
(If $F_{comb} > 2.8 \cdot F_{pr}$: $a_{max} = 50$ m/s^2)

Note on lubrication
- Not pre-lubricated
- No preservative oil

Note
Can be used on all Ball Guide Rails SNS.

Options and part numbers

Size	Ball runner block with size	Preload class C0	C1	C2	Accuracy class H	Seal for ball runner block without ball chain SS
15	R2002 1	9	1	2	3	14
20	R2002 8	9	1	2	3	14
25	R2002 2	9	1	2	3	14
30	R2002 7	9	1	2	3	14
35	R2002 3	9	1	2	3	14
e.g.	R2002 7		1		3	14

Ordering example
Options:
- Ball Runner Block NRFG, FLS
- Size 30
- Preload class C1
- Accuracy class H
- With standard seal, without ball chain

Part number: R2002 713 14

Preload classes
C0 = without preload
C1 = preload 2% C
C2 = preload 8% C

Seals
SS = standard seal

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Standard Ball Runner Blocks NRFG

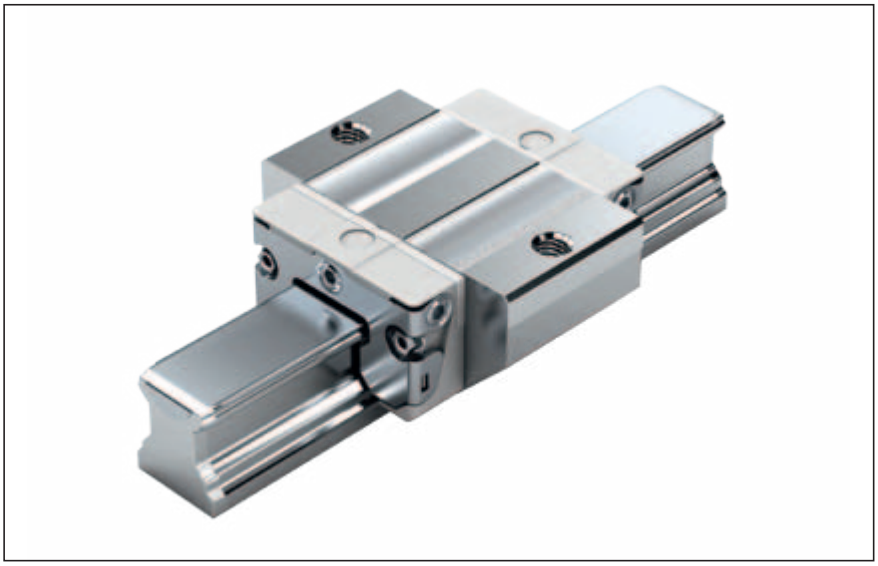
FKS – Flanged, short, standard height

R2000 ... 14

Dynamic characteristics
Travel speed: $v_{max} = 5$ m/s
Acceleration: $a_{max} = 500$ m/s^2
(If $F_{comb} > 2.8 \cdot F_{pr}$: $a_{max} = 50$ m/s^2)

Note on lubrication
- Not pre-lubricated
- No preservative oil

Note
Can be used on all Ball Guide Rails SNS.



Options and part numbers

Size	Ball runner block with size	Preload class C0	Preload class C1	Accuracy class H	Seal for ball runner block without ball chain SS
15	R2000 1	9	1	3	14
20	R2000 8	9	1	3	14
25	R2000 2	9	1	3	14
30	R2000 7	9	1	3	14
35	R2000 3	9	1	3	14
e.g.	R2000 7		1	3	14

Ordering example
Options:
- Ball Runner Block NRFG, FKS
- Size 30
- Preload class C1
- Accuracy class H
- With standard seal, without ball chain

Part number: R2000 713 14

Preload classes
C0 = without preload
C1 = preload 2% C

Seals
SS = standard seal

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Standard Ball Runner Blocks NRFG

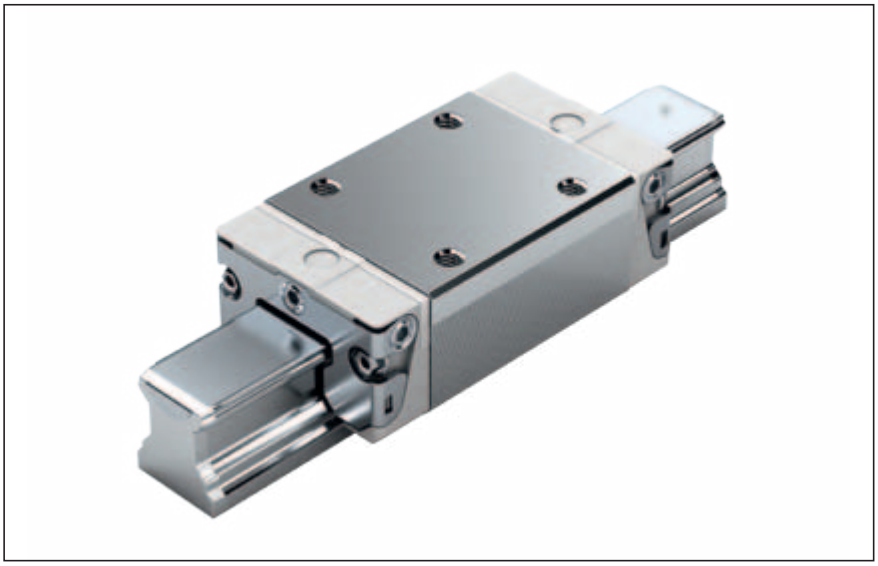
SNS – Slimline, normal, standard height

R2011 … 14

Dynamic characteristics
Travel speed: $v_{max} = 5$ m/s
Acceleration: $a_{max} = 500$ m/s^2
(If $F_{comb} > 2.8 \cdot F_{pr}$: $a_{max} = 50$ m/s^2)

Note on lubrication
– Not pre-lubricated
– No preservative oil

Note
Can be used on all Ball Guide Rails SNS.



Options and part numbers

Size	Ball runner block with size	Preload class			Accuracy class	Seal for ball runner block without ball chain
		C0	C1	C2	H	SS
15	R2011 1	9	1	2	3	14
20	R2011 8	9	1	2	3	14
25	R2011 2	9	1	2	3	14
30	R2011 7	9	1	2	3	14
35	R2011 3	9	1	2	3	14
e.g.	R2011 7		1		3	14

Ordering example
Options:
– Ball Runner Block NRFG, SNS
– Size 30
– Preload class C1
– Accuracy class H
– With standard seal, without ball chain
Part number: R2011 713 14

Preload classes
C0 = without preload
C1 = preload 2% C
C2 = preload 8% C

Seals
SS = standard seal

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Standard Ball Runner Blocks NRFG

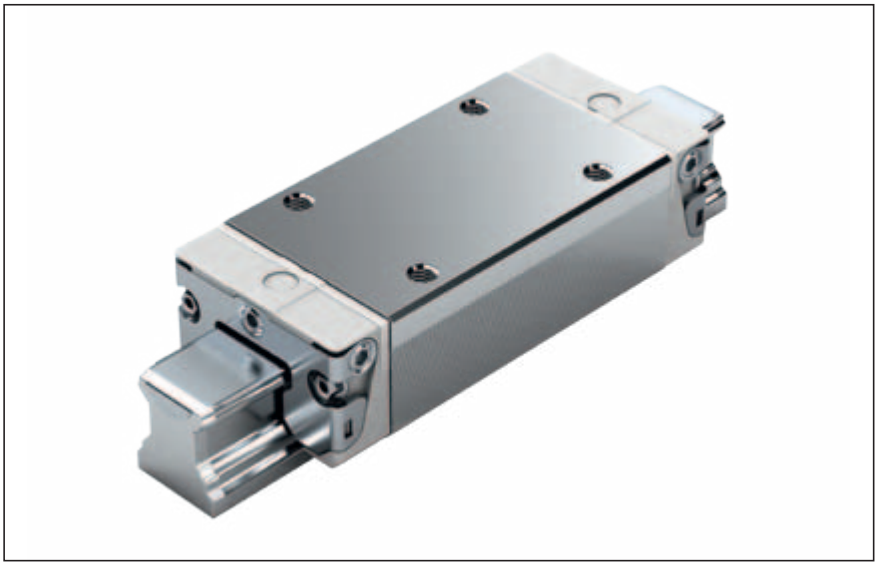
SLS – Slimline, long, standard height

R2012 ... 14

Dynamic characteristics
Travel speed: $v_{max} = 5$ m/s
Acceleration: $a_{max} = 500$ m/s^2
(If $F_{comb} > 2.8 \cdot F_{pr}$: $a_{max} = 50$ m/s^2)

Note on lubrication
- Not pre-lubricated
- No preservative oil

Note
Can be used on all Ball Guide Rails SNS.



Options and part numbers

Size	Ball runner block with size	Preload class C0	C1	C2	Accuracy class H	Seal for ball runner block without ball chain SS
15	R2012 1	9	1	2	3	14
20	R2012 8	9	1	2	3	14
25	R2012 2	9	1	2	3	14
30	R2012 7	9	1	2	3	14
35	R2012 3	9	1	2	3	14
e.g.	R2012 7		1		3	14

Ordering example
Options:
- Ball Runner Block NR, SNS
- Size 30
- Preload class C1
- Accuracy class H
- With standard seal, without ball chain

Part number: R2012 713 14

Preload classes
C0 = without preload
C1 = preload 2% C
C2 = preload 8% C

Seals
SS = standard seal

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Standard Ball Runner Blocks NRFG

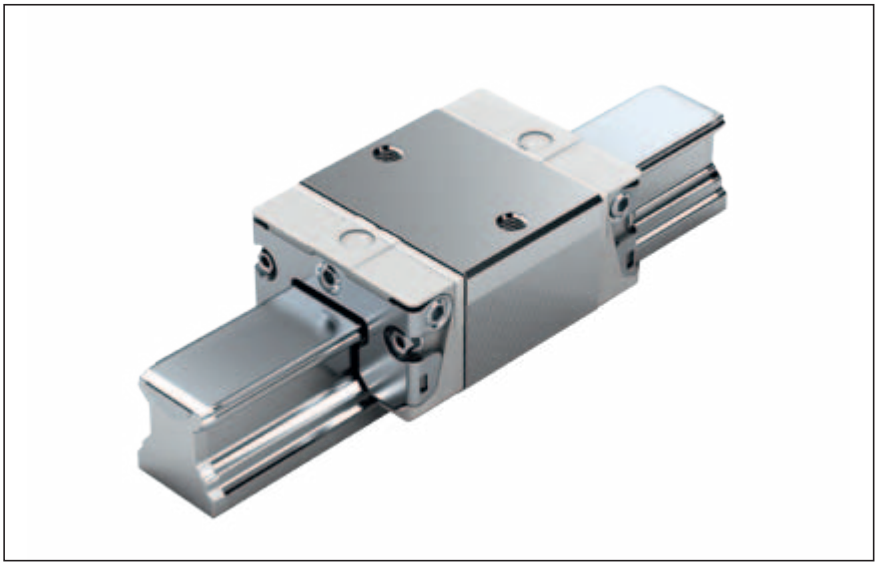
SKS – Slimline, short, standard height

R2010 ... 14

Dynamic characteristics
Travel speed: $v_{max} = 5$ m/s
Acceleration: $a_{max} = 500$ m/s^2
(If $F_{comb} > 2.8 \cdot F_{pr}$: $a_{max} = 50$ m/s^2)

Note on lubrication
- Not pre-lubricated
- No preservative oil

Note
Can be used on all Ball Guide Rails SNS.



Options and part numbers

Size	Ball runner block with size	Preload class C0	Preload class C1	Accuracy class H	Seal for ball runner block without ball chain SS
15	R2010 1	9	1	3	14
20	R2010 8	9	1	3	14
25	R2010 2	9	1	3	14
30	R2010 7	9	1	3	14
35	R2010 3	9	1	3	14
e.g.	R2010 7		1	3	14

Ordering example
Options:
- Ball Runner Block SKS
- Size 30
- Preload class C1
- Accuracy class H
- With standard seal, without ball chain

Part number: R2010 713 14

Preload classes
C0 = without preload
C1 = preload 2% C

Seals
SS = standard seal

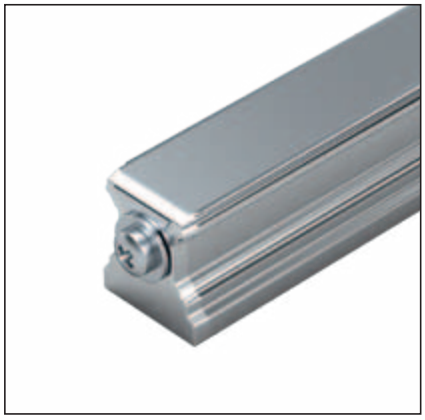
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Ball Guide Rails, Resist NR II

SNS with Cover Strip, Screws and Washers

R2045 .4. ..



For mounting from above, with cover strip made of corrosion-resistant spring steel per EN 10088.
Cover strip secured with screws and washers.

Notes for mounting:
- Secure the cover strip!
- – Screws and washers are included in the supply scope.
- – Follow the mounting instructions! Send for the publications “Mounting Instructions for Ball Rail Systems” and “Mounting Instructions for the Cover Strip.”
- – Composite guide rails also available.

Options and part numbers

Size	Ball guide rail with size	Accuracy class			Number of sections ., Rail length L (mm), ...		Hole spacing T (mm)	Recommended rail length according to formula $L = n_B \cdot T - 4$ mm Maximum number of holes n_B
		N	H	P	One-piece	Composite		
15	R2045 14	4	3	2	31, ...	3., ...	60	30
20	R2045 84	4	3	2	31, ...	3., ...	60	64
25	R2045 24	4	3	2	31, ...	3., ...	60	64
30	R2045 74	4	3	2	31, ...	3., ...	80	48
35	R2045 34	4	3	2	61, ...	6., ...	80	48
e.g.	R2045 74		3		31, 1676			

Ordering example 1:
(up to L_{max})
Options:
- – Ball Guide Rail NR II, SNS
- – Size 30
- – Accuracy class H
- – One-piece
- – Rail length L = 1676 mm

Part number:
R2045 743 31, 1676 mm

Ordering example 2:
(over L_{max})
Options:
- – Ball Guide Rail NR II, SNS
- – Size 30
- – Accuracy class H
- – **2 sections**
- – Rail length L = 5116 mm

Part number:
R2045 743 32, 5116 mm

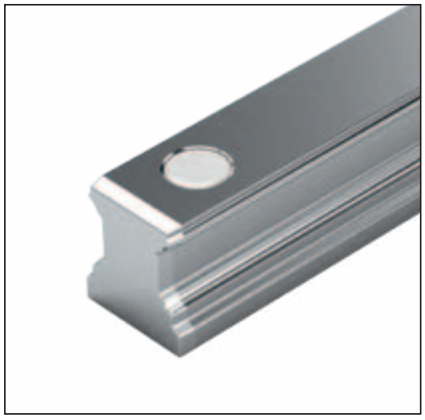
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Ball Guide Rails, Resist NR II

SNS with Plastic Mounting Hole Plugs

R2045 .0. ..

For mounting from above,
with plastic mounting hole plugs



Notes for mounting:
- Plastic mounting hole plugs included in scope of supply.
- Follow the mounting instructions! Send for the publication “Mounting Instructions for Ball Rail Systems.”
- Composite guide rails also available.

Options and part numbers

Size	Ball guide rail with size	Accuracy class			Number of sections ., Rail length L (mm), ...		Hole spacing T (mm)	Recommended rail length according to formula $L = n_B \cdot T - 4$ mm
		N	H	P	One-piece	Composite		Maximum number of holes n_B
15	R2045 10	4	3	2	31, ...	3., ...	60	30
20	R2045 80	4	3	2	31, ...	3., ...	60	64
25	R2045 20	4	3	2	31, ...	3., ...	60	64
30	R2045 70	4	3	2	31, ...	3., ...	80	48
35	R2045 30	4	3	2	31, ...	3., ...	80	48
e.g.	R2045 70		3		31, 1676			

Ordering example 1:
(up to L_{max})
Options:
- Ball Guide Rail NR II, SNS
- Size 30
- Accuracy class H
- One-piece
- Rail length L = 1676 mm

Part number:
R2045 703 31, 1676 mm

Ordering example 2:
(over L_{max})
Options:
- Ball Guide Rail NR II, SNS
- Size 30
- Accuracy class H
- **2 sections**
- Rail length L = 5116 mm

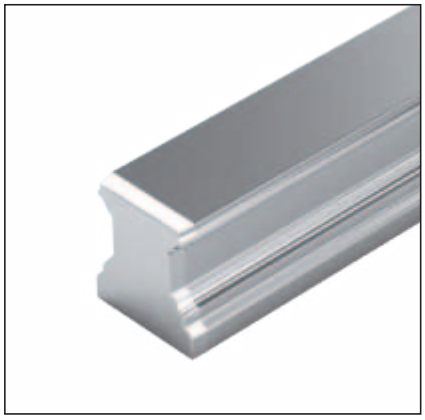
Part number:
R2045 703 3**2**, 5116 mm

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Ball Guide Rails, Resist NR II

SNS for mounting from below

R2047 .0. ..



Notes for mounting:
- Follow the mounting instructions!
- Send for the publication “Mounting Instructions for Ball Rail Systems.”
- Composite guide rails also available.

Options and part numbers

Size	Ball guide rail with size	Accuracy class			Number of sections ., Rail length L (mm), ...		Hole spacing T (mm)	Recommended rail length according to formula $L = n_B \cdot T - 4$ mm
		N	H	P	One-piece	Composite		Maximum number of holes n_B
15	R2047 10	4	3	2	31, ...	3., ...	60	30
20	R2047 80	4	3	2	31, ...	3., ...	60	64
25	R2047 20	4	3	2	31, ...	3., ...	60	64
30	R2047 70	4	3	2	31, ...	3., ...	80	48
35	R2047 30	4	3	2	31, ...	3., ...	80	48
e.g.	R2047 70		3		31, 1676			

Ordering example 1:
(up to L_{max})
Options:
- Ball Guide Rail NR II, SNS
- Size 30
- Accuracy class H
- One-piece
- Rail length L = 1676 mm

Part number:
R2047 703 31, 1676 mm

Ordering example 2:
(over L_{max})
Options:
- Ball Guide Rail NR II, SNS
- Size 30
- Accuracy class H
- **2 sections**
- Rail length L = 5116 mm

Part number:
R2047 703 3**2**, 5116 mm

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