

POCKET GUIDE

LINEAR MOTION



Content

Linear Guides	6
Linear Ball Guides	8
NH-Series	12
NS-Series	14
LW-Series	16
NH/NS Rails with bottom-tapped mounting holes	18
Slider optional components	19
Miniature PU&PE-Series	
Linear Roller Guides	24
RA-Series	24
Linear Guides Accessories	26
NSK K1/K1-L Lubrication System	26
Mounting tolerances	30
Linear guides reference system	31



Monocarrier	34
Standard MCM Type	
High rigidity MCH Type	
Ball Screws	40
R-BS - Rolled Ball Screw Series	42
Interchangeable Ball Screw	44
PR/LPR - Precision Rolled Ball Screw Series	
PSS - Ground Ball Screw Compact FA Series	48
FSS - Ground Ball Screw Compact FA Series	50
DIN Ball Screw Series	52
Ball Screw Reference System	54
WBK - Support Units	
BSBD - Support Bearings	
Solidcomponents – NSK CAD-Data at Internet	36 36 40 42 42 44 v Series 46 A Series 50 52 52 54 59 63 Internet 66
NSK literature - PDF catalogues at Internet	67

Our most important product: Our customers' statisfaction

We are among the leading manufacturers for rolling bearings, linear technology components and steering systems worldwide. We can be found on almost every continent – with production facilities, sales offices and technology centres – because our customers appreciate short decision-making channels, prompt deliveries and local service.





The NSK Company

NSK commenced operations as the first Japanese manufacturer of rolling bearings back in 1916. Ever since, we have been continuously expanding and improving not only our product portfolio but also our range of services for various industrial sectors. In this context our worlwide research and production facilities are linked together in a global network. Here we concentrate not only on the development of new technologies, but also on the continuous optimisation of quality – at every process stage. Among other things, our research activities include product design, simulation applications using a variety of analytical systems and the development of different steels and lubricants for rolling bearings.

More about NSK under: www.nskeurope.com

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Linear Guides

Linear Ball Guides

- NH series
- NS series
- LW series
- NH/NS Rails with bottom-tapped mounting holes
- Slider optional components
- Miniature PU&PE-Series

Linear Roller Guides

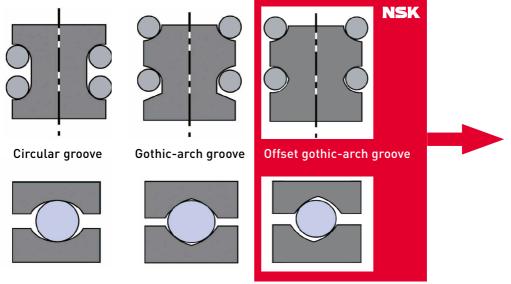
- RA series



Linear Ball Guides

Technical features

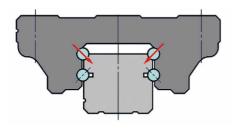
Groove types



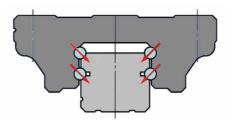
Linear Ball Guides Technical features



Normal load



Impact load

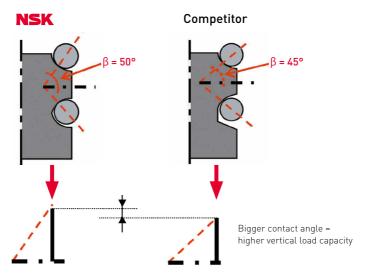


Thanks to the ball groove configuration and to the offset gothic-arch groove, the bottom rows will help carry loads when a large impact load is applied vertically, increasing the number of contact points and static load capacity.

Linear Ball Guides

Technical features

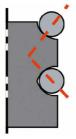
Contact angle configuration



Linear Ball Guides Technical features



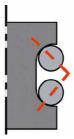
NSK



DF configuration (X)

- Contact angle "crosses" inside the rail.
- High self-aligning capability
- High rigidity by parallel installed rails

Competitor



DB configuration (0)

- Contact angle "crosses" outside the rail.
- High stiffness in monorail applications
- High accuracy machinetable is necesarry

NH | Standard-Series

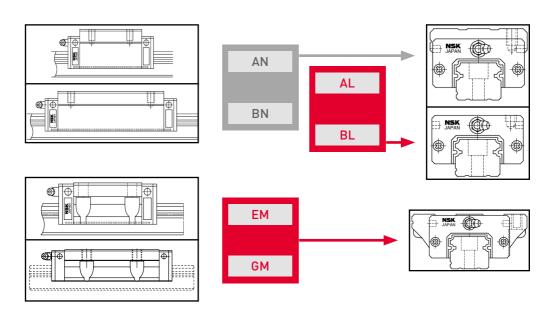
- Sizes: 15, 20, 25, 30, 35, 45, 55, 65 (on order: LH 8, 10, 12)
- Slider types: AN, AL, BN, BL, EM, GM
- Preload: Z, H
- Options: slider with or without NSK K1/K1-L mounted, steel protector and double seal

- Contact angle: 50° DF configuration (X)
- Available in Martensitic stainless steel (sizes 15-30), anti-corrosion Fluoride Raydent Plated treatment (sizes 15-65) or Duralloy TDC/TDC-LC treatment (sizes 15-65)
- Options:
 - Mounting caps covering the drill holes
 - Bottom tapped rails
 - Bellows

Size	Maximum single rail length [mm]	Mounting bolt metric	Distance between mounting holes [mm]
15	2.980	M4	60
20	3.960	M5	60
25	3.960	M6	60
30	4.000	M8	80
35	4.000	M8	80
45	3.990	M12	105
55	3.960	M14	120
65	3.900	M16	150

NH | Standard-Series | Slider types





NS | Standard-Series

- Sizes: 15, 20, 25, 30, 35
- Slider types: CL, AL, JM, EM
- Preload: Z, H
- Options: slider with or without NSK K1/K1-L mounted, steel protector and double seal

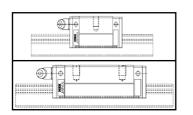
Contact angle: 50° DF configuration (X)

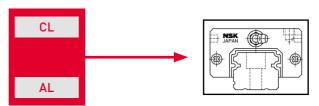
- Available in Martensitic stainless steel, anti-corrosion Fluoride Raydent Plated treatment or Duralloy TDC/TDC-LC treatment
- Options:
 - Mounting caps covering the drill holes
 - Bottom tapped rails
 - Bellows

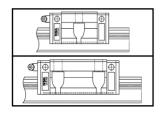
Size	Maximum single rail length [mm]	Mounting bolt metric	Distance between mounting holes [mm]
15	2.920	M4	60
20	3.960	M5	60
25	3.960	M6	60
30	4.000	M6	80
35	4.000	M8	80

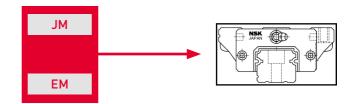
NS | Standard-Series | Slider types











LW | Standard-Series

- Sizes 17, 21, 27, 35, 50

- 1 slider type: EL

- 1 preload type: Z

 Options: slider with or without NSK K1 mounted, steel protector and double seal

 Available in anti-corrosion Fluoride Raydent Plated treatment or Duralloy TDC/TDC-LC treatment

- Option: Mounting caps covering the drill holes

Contact angle: 50° DF configuration (X)

Size	Maximum single rail length [mm]	Mounting bolt metric	Distance between mounting holes [mm]
17	1.000	M4	60
21	1.600	M4	60
27	2.000	M4	60
35	2.000	M6	80
50	2.000	M8	80

LW | Standard-Series | Slider types





Rails with bottom-tapped mounting holes





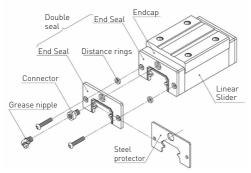
NH/NS-Rails

Reference number	Maximum single rail length [mm]	Mounting holes metric
N1H15	3.980	M5 x 0.80
N1H20	3.960	M6 x 1.00
N1H25	3.700	™6 X 1.00
N1H30	4.000	M8 x 1.25
N1H35	4.000	Mo X 1.25
N1H45	3.990	M12 x 1.75
N1H55	3.960	M14 x 2.00
N1H65 (on order)	3.900	M16 x 2.00
N1S15	3.980	M5 x 0.80
N1S20	3.960	M6 x 1.00
N1S25	3.760	M6 X 1.00
N1S30	4.000	M8 x 1.25
N1S35	4.000	M6 X 1.25



- Double seal: Extra-sealing capability
- Steel protector: Protect slider against solid dust particles

Easy Assembling



Slider optional components

Model nr.	Double	seal set	Steel protector set					
Model III.	No connector*	With connector*	No connector*	With connector*				
NH 15	LH15WS-01	-	LH15PT-01	-				
NH 20	LH20WS-01	LH20WSC-01	LH20PT-01	LH20PTC-01				
NH 25	LH25WS-01	LH25WSC-01	LH25PT-01	LH25PTC-01				
NH 30	LH30WS-01	LH30WSC-01	LH30PT-01	LH30PTC-01				
NH 35	LH35WS-01	LH35WSC-01	LH35PT-01	LH35PTC-01				
NH 45	LH45WS-01	LH45WSC-01	LH45PT-01	LH45PTC-01				
NH 55	LH55WS-01	LH55WSC-01	LH55PT-01	LH55PTC-01				
NH 65	LH65WS-01	LH65WSC-01	LH65PT-01	LH65PTC-01				
NS 15	LS15WS-01	-	LS15PT-01	-				
NS 20	LS20WS-01	LS20WSC-01	LS20PT-01	LS20PTC-01				
NS 25	LS25WS-01	LS25WSC-01	LS25PT-01	LS25PTC-01				
NS 30	LS30WS-01	LS30WSC-01	LS30PT-01	LS30PTC-01				
NS 35	LS35WS-01	LS35WSC-01	LS35PT-01	LS35PTC-01				
LW 17	LW17WS-01	-	LW17PT-01	-				
LW 21	LW21WS-01	LW21WSC-01	LW21PT-01	LW21PTC-01				
LW 27	LW27WS-01	LW27WSC-01	LW27PT-01	LW27PTC-01				
LW 35	LW35WS-01	LW35WSC-01	LW35PT-01	LW35PTC-01				
LW 50	LW50WS-01	LW50WSC-01	LW50PT-01	LW50PTC-01				

^{*} Grease extension connector

PU | Standard-Series

- Miniature Linear Guides
- Sizes 05, 07, 09, 12, 15
- Fine clearance: T (on order: preload Z1 for assembly)
- Stainless steel
- Resin recirculation path
- Light weight and smooth movement
- Options: Slider with or without NSK K1 mounted

Contact angle: 45° DB configuration (0)

Size	Maximum single rail length [mm]	Mounting bolt metric	Distance between mounting holes [mm]
05	210	M2	15
07	375	M2	15
09	600	M3	20
12	800	M3	25
15	1.000	M3	40

PU | Standard-Series | Slider types





PE | Standard-Series

- Miniature Wide Body Linear Guides
- Sizes 05, 07, 09, 12, 15
- Fine clearance: T (on order: preload Z1 for assembly)
- Stainless steel
- Resin recirculation path
- Light weight and smooth movement
- Options: Slider with or without NSK K1 mounted

Contact angle: 45° DB configuration (0)

Size	Maximum single rail length [mm]	Mounting bolt metric	Distance between mounting holes [mm]
05	150	M2.5	20
07	600	M3	30
09	800	M3	30
12	1.000	M4	40
15	1.200	M4	40

PE | Standard-Series | Slider types





RA | Linear Roller Guides | RA-Series

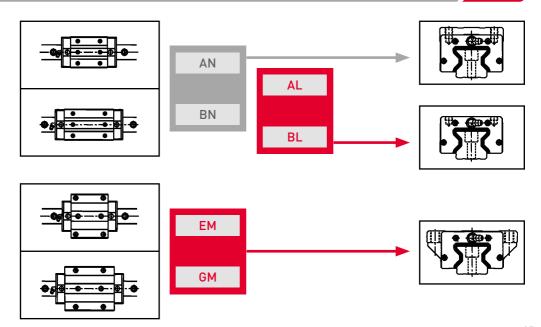
- Sizes 15, 20, 25, 30, 35, 45, 55, 65
- Slider types AN, AL, BN, BL, EM, GM
- Only high preload H type
- Options: slider with or without NSK K1/K1-L mounted, double seal, V1 seal and steel protector
- Available in anti-corrosion Fluoride Raydent Plated treatment or Duralloy TDC/TDC-LC treatment (only rails)
- Options:
 - Mounting caps covering the drill holes
 - Rail cover
 - Bottom tapped rails

Contact angle: 45° DB configuration (0)

Size	Maximum single rail length [mm]	Mounting bolt metric	Distance between mounting holes [mm]
15	2.000	M4	30
20	3.000	M5	30
25	3.900	M6	30
30	3.900	M8	40
35	3.900	M8	40
45	3.650	M12	52.5
55	3.600	M14	60
65	3.600	M16	75

RA | Roller Guides | RA-Series | Slider types





NSK K1 lubrication unit made up of 70% mineral oil and 30% porous resin.

- Maintenance free system
- Minimum waste of oil No excess
- Contact seal capability with low friction
- Also available for special environments (like food, medical, etc.) FDA approved
- Possible to assemble NSK K1 lubrication unit for high demanding applications

The porous resin contains a large amount of lubrication oil. NSK K1 lubrication units constantly supplies fresh oil which is released from the resin, lubricating the rail surface and all balls at point of contacts.



Test without Grease:

- Slider: NAH30AN
- Speed: 200m/min
- Stroke: 1800mm





NSK K1 system is available for all series and sizes of linear guides. Slider total length increases between 5 and 10mm per mounted piece.

Selection table for the number of K1 lubrication units per Slider

Туре	Preload	External Load / Dynamic load rating									
NIL NC LW	ZZ, ZT	up to 8 % C _a	up to 11 % C _a	up to 16 % C _a	over 16 % C _a						
NH, NS, LW	ZH	up to 5 % C _a	up to 10 % C _a	up to 15 % C _a	over 15 % C _a						
PU, PE	ZT	up to 5 % C _a	up to 8 % C _a	up to 12 % C _a	over 12 % C _a						
RA	ZH	-	up to 5 % C _a	up to 10 % C _a	over 10 % C _a						
	up to 3.000 km			4 pieces							
	up to 5.000 km			, .							
Required	up to 10.000 km	2 pieces	, .	6 pieces							
maintenance free life.	up to 20.000 km		4 pieces								
	up to 50.000 km			Please request NSK							
	over 50.000 km										



- Advanced developed material:
 - Enables an increased oil content of 85% in total weight
 - Life is 1.8 times than that of current K1 material by the increased supply of lubrication oil
- Casing:
 - The fixing and pressing rings are built into the casing structure
 - Prevents oil leakage while protecting oiled components from damage
- 20% reduction of friction force by improving contact design on rail
- A single K1-L unit on side (total 2 units) is the same size as the current K1 model



- NSK K1-L has much longer running distance than that with NSK K1
- In testing linear guide runs for more than 100,000 km with NSK K1-L and initial grease filling



Extended maintenance-free periods

Test without grease:

Linear Guide: NH25

Preload: very light preload

Speed: 192 m/min

Test with grease (initial grease filling):

Linear Guide: NH25

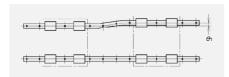
Preload: very light preload

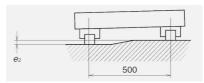
Speed: 192 m/min





Linear Guides | Mounting tolerances



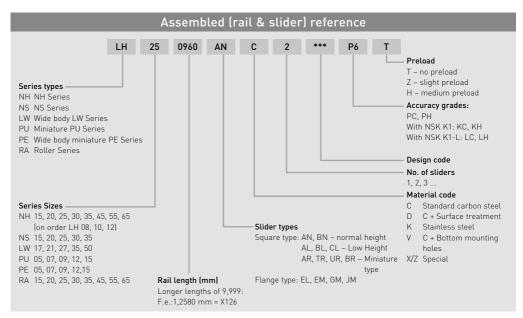


		NH							NS					RA (H only)									
Tolerance	Preload	Size (µm)								Size (µm)						Size (µm)							
		15	20	25	30	35	45	55	65	15	20	25	30	35	15	20	25	30	35	45	55	65	
	ZT	22	30	40	45	55	65	80	110	20	22	30	35	40	-	-	-	-	-	-	-	-	
e ₁	ZZ	18	20	25	30	35	45	55	70	15	17	20	25	30	-	-	-	-	-	-	-	-	
	ZH	13	15	20	25	30	40	45	60	12	15	15	20	25	5	7	9	11	13	17	19	30	
_	ZT	375 µm / 500 mm							375 µm / 500 mm					_									
e ₂	ZZ, ZH			330	μm /	500	mm			330 µm / 500 mm				150 µm / 500 mm									

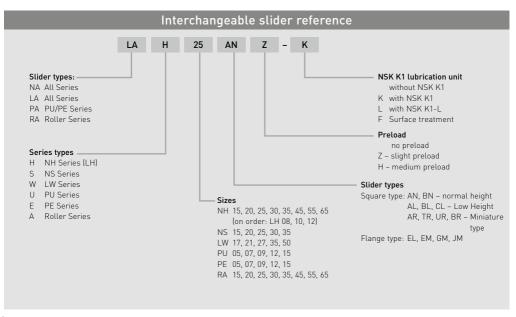
	Preload	PU				PE				LW						
Tolerance		Size (µm)					Size (µm)				Size (µm)					
		5	7	9	12	15	5	7	9	12	15	17	21	27	35	50
e ₁	ZT	10	12	15	20	25	10	12	15	18	22	20	20	25	38	50
	Z1, ZZ	7	10	13	15	21	5	7	10	13	17	9	9	13	23	34
_	ZT	150 µm / 200 mm					50 µm / 200 mm				100 µm / 500 mm					
e ₂	Z1, ZZ	90 µm / 200 mm					35 µm / 500 mm				45 µm / 500 mm					

Linear Guides | NSK reference system



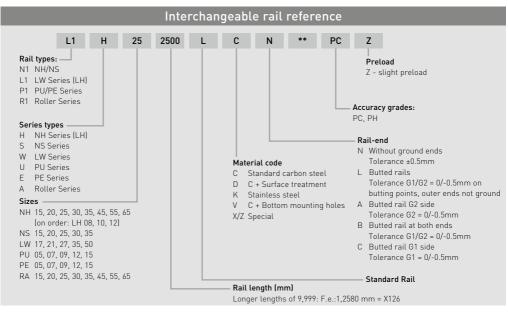


Linear Guides | NSK reference system



Linear Guides | NSK reference system





Monocarrier

- Standard MCM Type
- High rigidity MCH Type



MCM/MCH | Monocarrier | Compact single axis linear actuator

- Sizes 02, 03, 05, 06, 08, 09, 10
- Single or double slider
- Standard type (MCM) or high rigidity type (MCH)
- Options: Covers, sensors and motor brackets

	Size	Ball Screw Lead [mm]	Single Slider max. Stroke [mm]	Double Slider max. Stroke [mm]
MCM Type (Standard)	02	1/2	150	-
	03	1/2/5/10/12/15	250	-
	05	5 / 10 / 20 /30	600	510
	06	5 / 10 / 20	800	710
	08	5 / 10 / 20 /30	800	680
	10	10 / 20 / 30	1000	870
	06	5 / 10 / 20	500	400
MCH Type	MCL06	5 / 10 / 20	500	-
(High rigidity)	09	5 / 10 / 20	800	650
	10	10 / 20	1.200	1.050

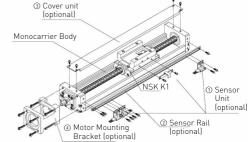
L Type: MCH Series low profile rail (only for size 06)

MCM/MCH | Monocarrier | Compact single axis linear actuator



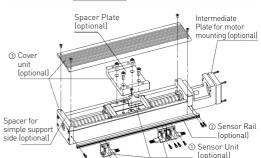
MCM Type



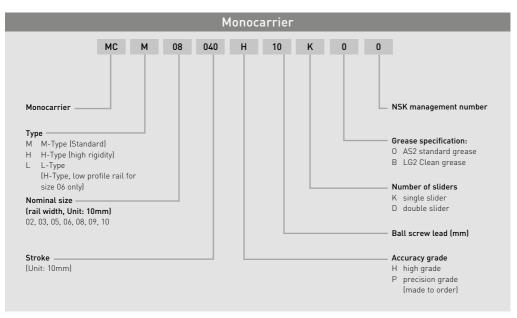


MCH Type





Monocarrier | NSK reference system





Ball Screws

- R-BS Rolled Ball Screw Series
- Interchangeable Ball Screw
- PR/LPR Precision Rolled Ball Screw Series
- PSS Ground Ball Screw Compact FA Series
- FSS Ground Ball Screw Compact FA Series
- DIN Ball Screw Series
- Ball Screw Reference System
- WBK Support Units
- BSBD Support Bearings



R-BS | Rolled Ball Screw Series

- Low cost solution for non-high quality applications
- Interchangeability between nuts and shafts of same diameter and leads
- Multiple options for diameters and leads

Nut	RNFTL	RNFBL	RNCT	RNSTL	RNFCL
Design	the state	earle			
		End cap type			
Recirculation	ł.	C			
Assembly	Flange	Flange	V-thread	Direct mounting	Flange
Lead	Fine, medium, high	Fine and medium	Fine	Fine and medium	High and extra high

R-BS | Rolled Ball Screw Series



D	Lead (mm)										L _{max}					
U	3	4	5	6	8	10	12	16	20	25	32	40	50	64	80	(mm)
10	A C			ΑВ												800
12					AΒ		ΑE									800
14		ABCD	ABCD													1,000
15									Е							1,500
16						А		ΑE			Е					1,500
18					ABCD											1,500
20			ABCD			ABD			ΑE			E				2,000
25			ABCD			ABCD				ΑE			Е			2,500
28				ABCD												2,500
32						ABCD					ΑE			E (4000)		3,000
36						ABCD										3,000
40						ABC						ΑE			E (5000)	4,000
45							ACD									4,000
50						A C		A C					Е			4,000

A = RNFTL | B = RNFBL | C = RNCT | D = RNSTL | E = RNFCL

Interchangeable Ball Screw

- 100% compliant to DIN 69051
- Nut and shaft are seperately available and universally exchangeable
- Ct7 accuracy
- High-speed low-noise
 (d·n = 160.000, max. 5.000 rpm)
- Available with slight clearance
- Remarkable improvement in sealing performance due to introduction of grease retaining seal
- NSK K1 lubrication unit available



Interchangeable Ball Screw

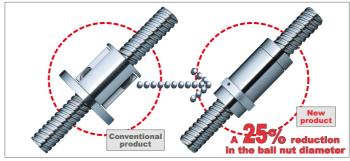


	Shaft		screw shaft length [mm]									
Model No.	Diameter	Lead [mm]	Short version (or	n stock available)	Long version (on demand)							
	[mm]		Thread length	Total length	Thread length	Total length						
FCN1205	10	5	617	800	-	-						
FCN1210	12	10	617	800	-	-						
FCN1505		5	1303	1486	1760	1900						
FCN1510	15	10	1303	1486	1760	1900						
FCN1520		20	1293	1476	1760	1900						
FCN2005		5	1303	1486	1760	1900						
FCN2010	20	10	1303	1486	1760	1900						
FCN2020		20	1293	1476	1760	1900						
FCN2505		5	1303	1486	1760	1900						
FCN2510	25	10	1303	1486	1760	1900						
FCN2520	25	20	1293	1476	1760	1900						
FCN2525		25	1288	1471	1760	1900						
FCN3205		5	1303	1486	1760	1900						
FCN3210	32	10	1303	1486	1760	1900						
FCN3220		20	1293	1476	1760	1900						
FCN4010	40	10	1303	1486	1760	1900						

PR/LPR | Precision Rolled Ball Screw Series

- 25% reduction in the ball nut diameter compared to the current series
- No backlash
- High speed and long stroke operation
- End deflector recirculation
- Ct7 Accuracy
- Suitable for rotating ball nut applications





PR/LPR | Precision Rolled Ball Screw Series

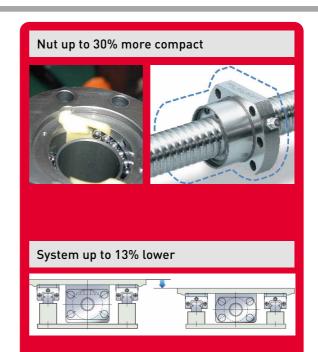


Model No.	Shaft Diameter [mm]	1 4 [1	Maximum screw	shaft length [mm]
Model No.	No. Shaft Diameter [mm] Lead [mm]		Standard	On request
PR1205	12	5	200 - 900	- 1500
PR1505	15	5	200 - 1200	- 1500
PR1510	15	10	200 - 1200	- 1500
PR2005	20	5	300 - 1600	- 2000
PR2010	20	10	300 - 1600	- 2000
PR2505	25	5	300 - 3200	-
PR2510	20	10	300 - 3200	-
PR3210	32	10	300 - 3200	- 4000
PR3220	32	20	300 - 3200	- 4000
PR4010	40	10	300 - 3200	-
LPR2020	20	20	300 - 1600	- 2000
LPR2525	25	25	300 - 3200	-
LPR3232	32	32	300 - 3200	- 4000
LPR4040	40	40	500 - 4500	- 6500
LPR5050	50	50	500 - 4500	- 6500

PSS | Ground Ball Screw Compact FA Series

- Ground Ball Screw Shaft
- End Deflector Recirculation
- Rotation speed up to 5,000 rpm
- Low noise and smooth movement
- No axial play
- C5 Accuracy
- Contact seal
- Compactness
- Fixed Machined shaft ends





PSS | Ground Ball Screw Compact FA Series

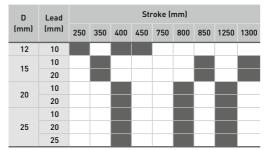


2()	, ,		Stroke (mm)												
D (mm)	Lead (mm)	50	100	150	200	300	400	500	600	700	800	1,000	1,200	1,600	2,000
6	8 12			*											
				*											
8	10			*											
	15			*											
10	5														
10	10														
	5														
12	10														
	20														
	30														
	5		-												
15	10 20									-		-			
	30											 			
	5														
	10								-						
	20											-			
20	30											 			
	40											 			
	60											 			
	5											1			
	10														
0.5	20														
25	25														
	30											i i			
	50														

^{*}For shaft diameter 6 and 8 length shown is overall length

FSS | Ground Ball Screw Compact FA Series

- Ground Ball Screws
- Ct7 grade accuracy
- 24% more compact ball nut design
- Higher speed till 125 m/min
- 5 dB lower noise compared to existing series
- The nut has up to 10 μ m axial play.
- Standard Stock Item
- Fixed support at machined shaft end
- Unfinished shaft end cut to a desired length



For all sizes is the ESS Series in 8 variants available



FSS | Ground Ball Screw Compact FA Series



The simple support side unit, supports the ball screws outside diameter.

Cut the ball screw shaft end to the desired length and simply install a simple support unit on the shaft outside diameter, thus completing the ball screw assembly.

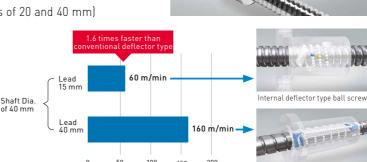
This makes ball screws available with the flexible stroke setting in combination with a fixed -simple support configuration to increase the critical speed



Screw shaft diameter	Fixed support side unit	Simple support side unit
12	WBK08-01B	WBK12SF-01B
15	WBK12-01B	WBK15SF-01B
20	WBK15-01B	WBK20SF-01B
25	WBK20-01	WBK25SF-01

DIN Ball Screw Series

- Dimensions according to DIN-Norm (DIN Standard/extended nut)
- High load capacity
- Low torque variation
- High-speed capability (d·n value of 150.000 160.000)
- Recirculation systems:
 - Internal deflector (for leads of 10 30 mm)
 - End deflector (for leads of 20 and 40 mm)
- Available from stock for prototypes (< 1500mm)
- Low noise
- Offset preload system
- TF steel technology



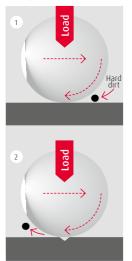
End deflector type ball screw

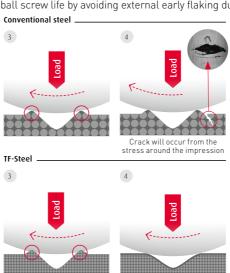
Max. feed rate, m/min.

DIN Ball Screw Series



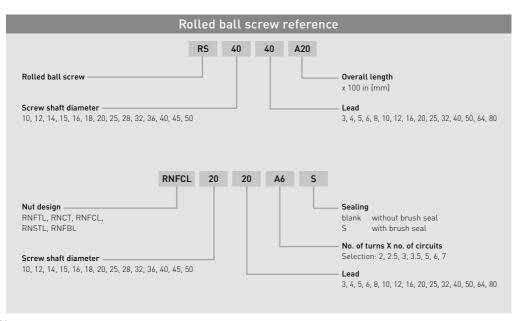
TF steel technology increases the robustness and lifespan of the new DIN ball screw series. Using this material extends the ball screw life by avoiding external early flaking due to stress at impressions.



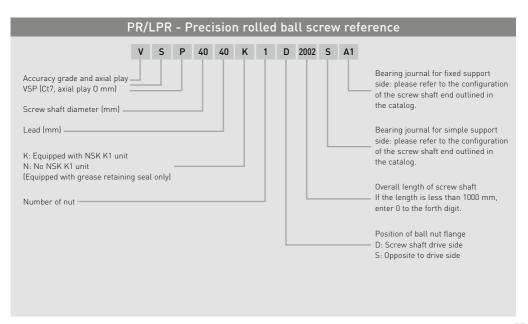


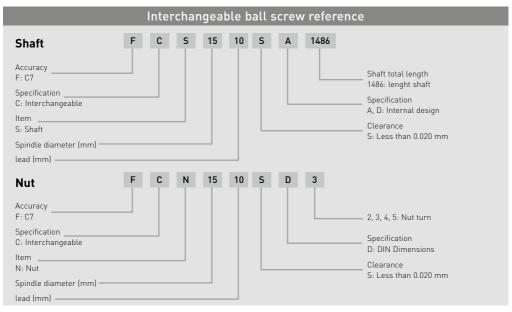
No extra stress present

Theory of decreasing the stress concentration around the impression

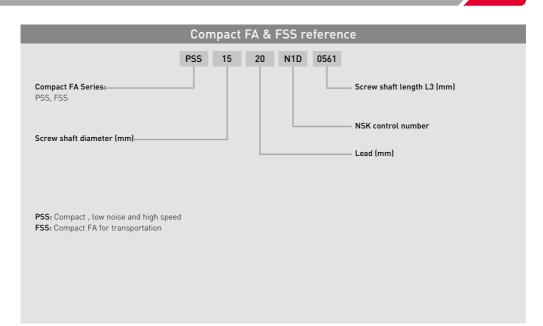


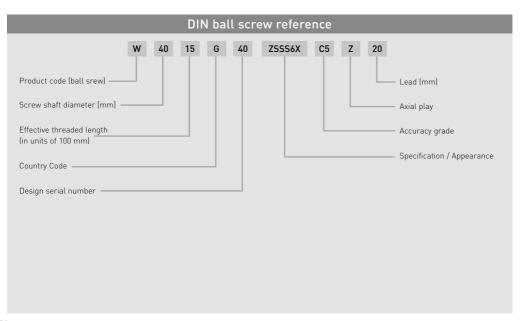








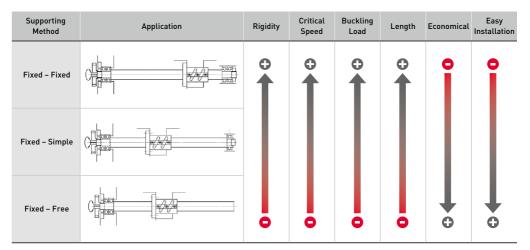




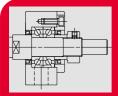
WBK | Support Units



- High dust prevention
- Low friction torque

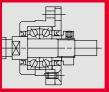


WBK | Support Units



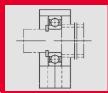
WBK**-01*

- Fixed support side
 (Driving motor side)
- Square
- **-** Ø4 Ø25



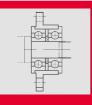
WBK**-11*

- Fixed support side
 (Driving motor side)
- Flange
- **-** Ø4 Ø25



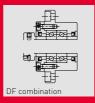
WBK**S-01*

- Simple support side (Opposite to drive motor)
- Square
- **-** Ø6 Ø25



WBK**R-11*

- Fixed support side
 (Driving motor side)
- Flange
- **-** Ø4 Ø6



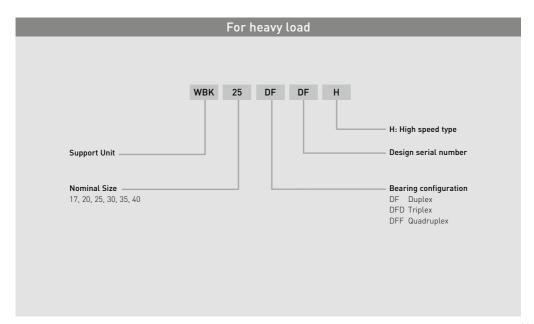
WBK**DF*-31H

- Fixed support side
 (Driving motor side)
- **-** Ø 17 Ø 40

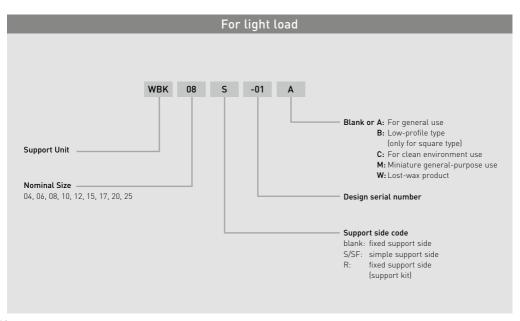


Support Units | NSK reference system





Support Units | NSK reference system



BSBD | Support Bearings



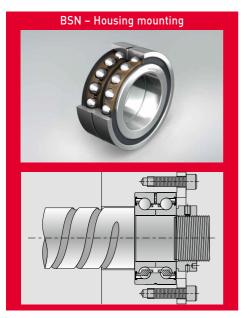
- Angular contact thrust ball bearings with 60° contact angle
- Double row configuration (DB)
- Supports large axial forces in both directions
- Two types:
 - BSN Housing mounting
 - BSF Face mounting
- Low friction contact lip seals
- Heavy series available on some sizes
- For higher loads matched bearingpairs (DT) are available

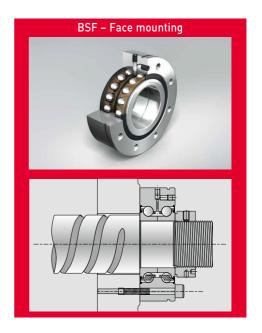






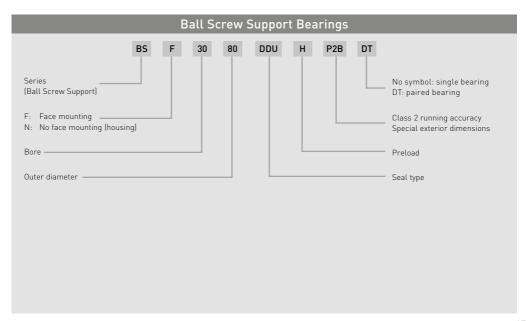
BSBD | Ball Screw Support Bearings



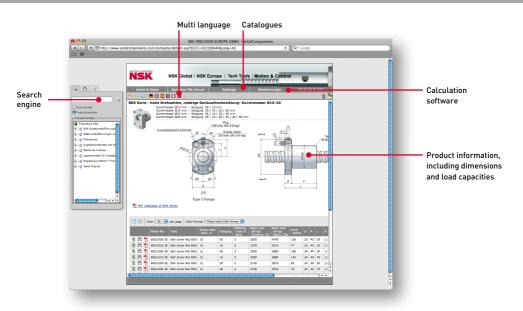


Bearing Units | NSK reference system





Solid Components | CAD-Data at Internet

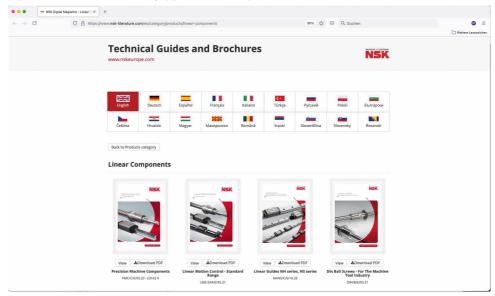


www.solidcomponents.com

NSK Literature | PDF-Catalogues at Internet



https://www.nsk-literature.com/en/category/products/linear-components





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