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## FSCR/FSCL

Ball nut with Flange (DIN 69051).

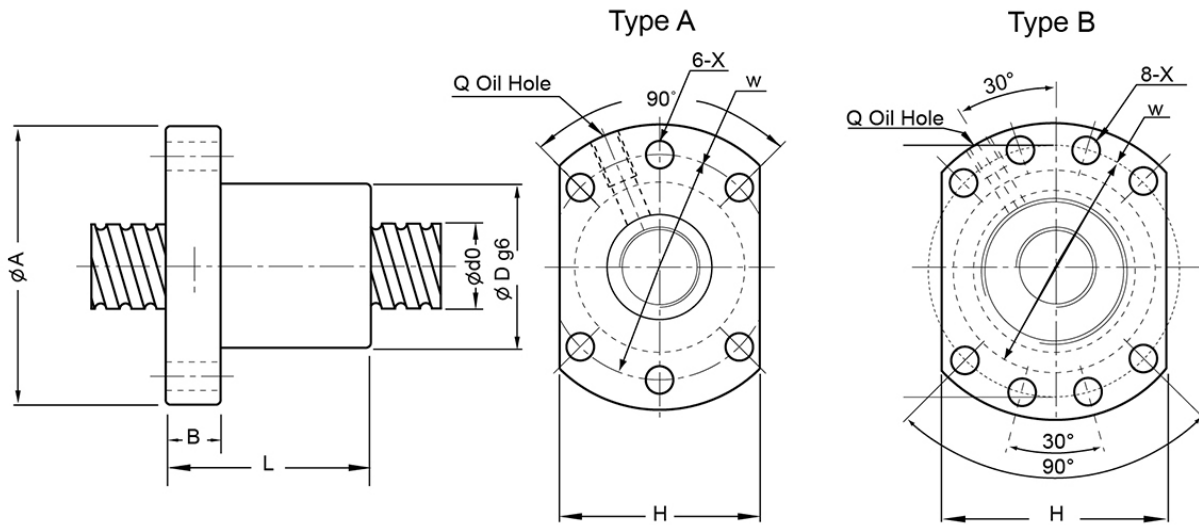
Available in right (FSCR) and left (FSCL) lead.

Standard nuts are with oil-seals.

All dimensions in mm.



## General Data



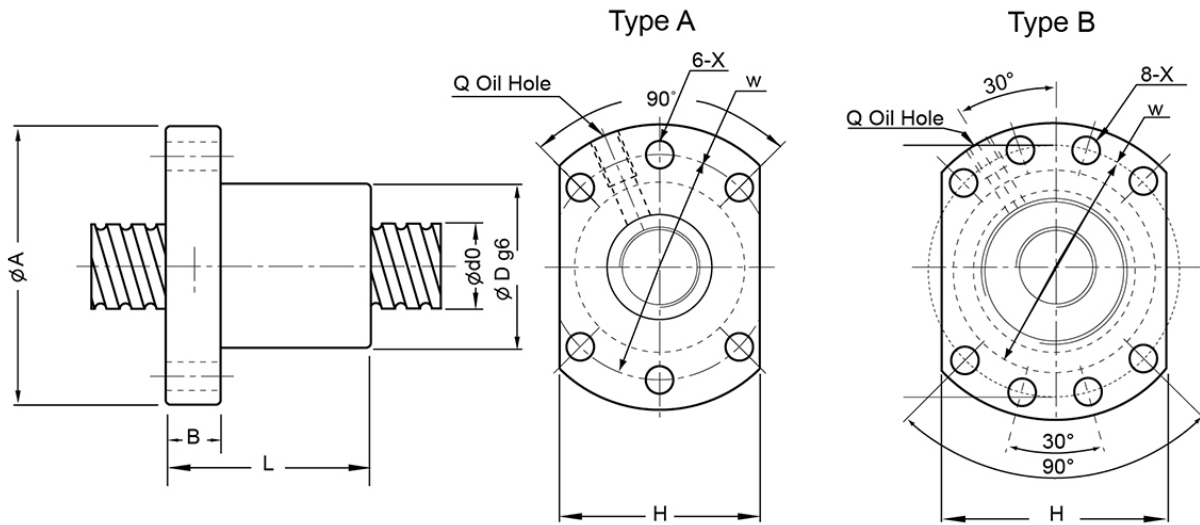
Designation	Compatible with	Type	Dynamic Load Ratings Ca (N)	Static Load Ratings C0a (N)	Ball diameter
<b>FSCR1605</b>	BKN12 / FKN12 / BFN12 / FFN12	A	13185	14960	3.175
<b>FSCRN1610</b>	BKN12 / FKN12 / BFN12 / FFN12	A	11576	14676	3.175
<b>FSCR2005</b>	BKN15 / FKN15 / BFN15 / FFN15	A	14833	19571	3.175
<b>FSCL2005</b>	BKN15 / FKN15 / BFN15 / FFN15	A	14833	19571	3.175
<b>FSCR2505</b>	BKN20 / FKN20 / BFN20 / FFN20	A	16716	25320	3.175
<b>FSCR2510</b>	BKN17 / FKN17 / BFN17 / FFN17	A	28263	36248	4.762
<b>FSCR3205</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	A	18874	33383	3.175
<b>FSCL3205</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	A	18874	33383	3.175
<b>FSCR3210</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	A	47422	76861	6.35
<b>FSCR3220</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	A	21003	35081	3.969
<b>FSCR4005</b>	BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30	B	21013	42595	3.175
<b>FSCR4010</b>	BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30	B	52964	98826	6.35
<b>FSCR4020</b>	BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30	B	37101	63451	5.556
<b>FSCR5010</b>	BKN40 / WBK40DF / WBK40DFF / BFN40	B	58203	120791	6.35
<b>FSCR6310</b>	—	B	65727	159216	6.35

## General Data

Designation	Compatible with	Type	Dynamic Load Ratings Ca (N)	Static Load Ratings C0a (N)	Ball diameter
FSCR6320	—	B	87868	176040	9.525

Designation	Turns x circuits
FSCR1605	1 x 4
FSCRN1610	3 x 1
FSCR2005	1 x 4
FSCCL2005	4 x 1
FSCR2505	1 x 4
FSCR2510	1 x 4
FSCR3205	1 x 4
FSCCL3205	1 x 4
FSCR3210	1 x 4
FSCR3220	3 x 1
FSCR4005	1 x 4
FSCR4010	1 x 4
FSCR4020	3 x 1
FSCR5010	1 x 4
FSCR6310	1 x 4
FSCR6320	1 x 3

## Dimensions



Designation	A	B	D	H	L	Q	W	X	d0 x Lead
<b>FSCR1605</b>	48	10	28	40	50	M6	38	5.5	16 x 5
<b>FSCRN1610</b>	48	12	28	40	43	M6	38	5.5	16 x 10
<b>FSCR2005</b>	58	10	36	44	53	M6	47	6.6	20 x 5
<b>FSCCL2005</b>	58	10	36	44	34	M6	47	6.6	20 x 5
<b>FSCR2505</b>	62	10	40	48	53	M6	51	6.6	25 x 5
<b>FSCR2510</b>	62	12	40	48	85	M6	51	6.6	25 x 10
<b>FSCR3205</b>	80	12	50	62	53	M6	65	9	32 x 5
<b>FSCCL3205</b>	80	12	50	62	53	M6	65	9	32 x 5
<b>FSCR3210</b>	80	16	50	62	90	M6	65	9	32 x 10
<b>FSCR3220</b>	80	13	50	62	78	M6	65	9	32 x 20
<b>FSCR4005</b>	93	16	63	70	56	M8	78	9	40 x 5
<b>FSCR4010</b>	93	18	63	70	93	M8	78	9	40 x 10
<b>FSCR4020</b>	93	15	63	70	83	M8	78	9	40 x 20
<b>FSCR5010</b>	110	18	75	85	93	M8	93	11	50 x 10
<b>FSCR6310</b>	125	18	90	95	98	M8	108	11	63 x 10
<b>FSCR6320</b>	135	20	95	100	138	M8	115	13.5	63 x 20

## FDCR

Double Nut with Flange (DIN 69051).

Standard nuts are with oil-seals.

Best combination for smooth and backlash-free operation with high rigidity.

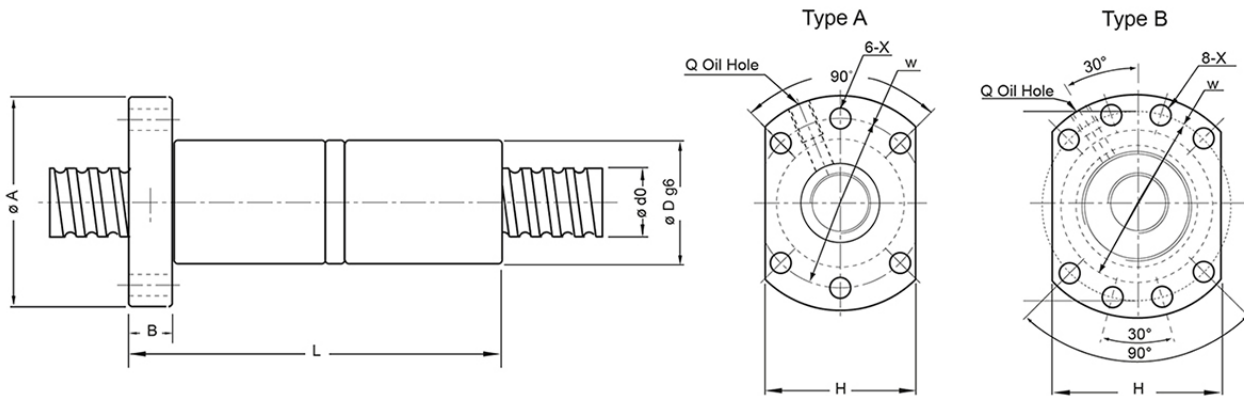
A double nut must always be used pre-loaded and have to be assembled on the ball screw spindle by Rollco.  
Standard preload is P2, see "Preload and clearance" in Technical information.

Lead accuracy G5 or better is required for proper function.  
For best performance, a ground spindle is recommended.

All dimensions in mm.



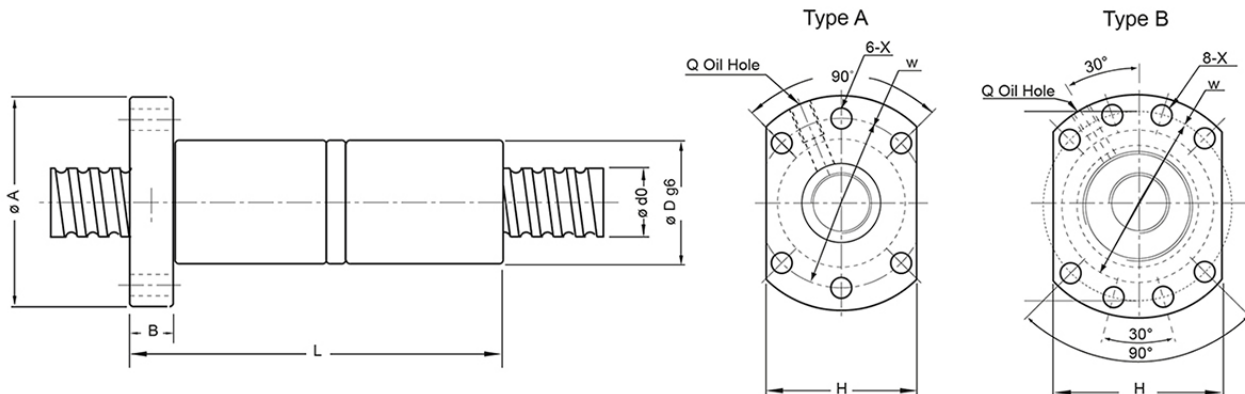
**General Data**



Designation	Compatible with	Type	Dynamic Load Ratings Ca (N)	Static Load Ratings C0a (N)	Ball diameter
<b>FDCR1605</b>	BKN12 / FKN12 / BFN12 / FFN12	A	10291	11223	3.175
<b>FDCR2005</b>	BKN15 / FKN15 / BFN15 / FFN15	A	14833	19571	3.175
<b>FDCR2505</b>	BKN20 / FKN20 / BFN20 / FFN20	A	16716	25320	3.175
<b>FDCR2510</b>	BKN17 / FKN17 / BFN17 / FFN17	A	28263	36248	4.762
<b>FDCR3205</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	A	18874	33383	3.175
<b>FDCR3210</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	A	47422	76861	6.35
<b>FDCR4005</b>	BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30	B	21013	42595	3.175
<b>FDCR4010</b>	BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30	B	52964	98826	6.35
<b>FDCR5010</b>	BKN40 / WBK40DF / WBK40DFF / BFN40	B	58203	120791	6.35

Designation	Turns x circuits
<b>FDCR1605</b>	1 x 3
<b>FDCR2005</b>	1 x 4
<b>FDCR2505</b>	1 x 4
<b>FDCR2510</b>	1 x 4
<b>FDCR3205</b>	1 x 4
<b>FDCR3210</b>	1 x 4
<b>FDCR4005</b>	1 x 4
<b>FDCR4010</b>	1 x 4
<b>FDCR5010</b>	1 x 4

## Dimensions



Designation	A	B	D	H	L	Q	W	X	d0 x Lead
<b>FDCR1605</b>	48	10	28	40	80	M6	38	5.5	16 x 5
<b>FDCR2005</b>	58	12	36	44	92	M6	47	6.6	20 x 5
<b>FDCR2505</b>	62	12	40	48	92	M6	51	6.6	25 x 5
<b>FDCR2510</b>	62	12	40	48	153	M6	51	6.6	25 x 10
<b>FDCR3205</b>	80	12	50	62	92	M6	65	9	32 x 5
<b>FDCR3210</b>	80	16	50	62	160	M6	65	9	32 x 10
<b>FDCR4005</b>	93	15	63	70	96	M8	78	9	40 x 5
<b>FDCR4010</b>	93	18	63	70	162	M8	78	9	40 x 10
<b>FDCR5010</b>	110	16	75	85	162	M8	93	11	50 x 10



## FSER

Single Nut with Flange, Long Lead.

Standard nuts are with oil-seals. Other types on request.

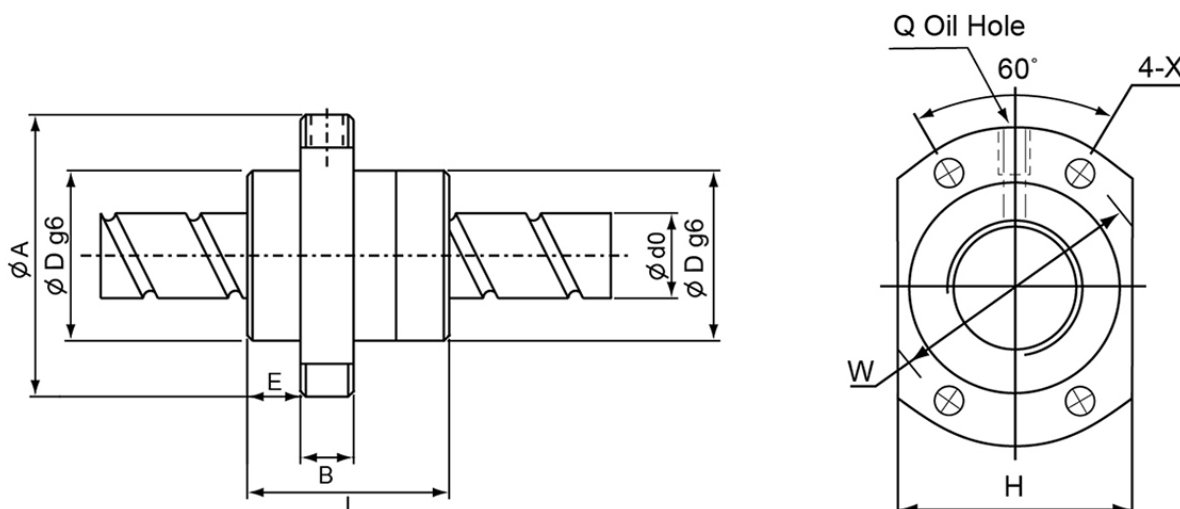
All dimensions in mm.



## General Data

Designation	Compatible with	Dynamic Load Ratings Ca (N)	Static Load Ratings C0a (N)	Ball diameter	Turns x circuits
<b>FSER1616</b>	BKN12 / FKN12 / BFN12 / FFN12	14833	19571	3.175	1.8 x 2
<b>FSER2020</b>	BKN15 / FKN15 / BFN15 / FFN15	16275	24172	3.175	1.8 x 2
<b>FSER2525</b>	BKN20 / FKN20 / BFN20 / FFN20	24339	37778	3.969	1.8 x 2
<b>FSER3232</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	35169	59557	4.762	1.8 x 2
<b>FSER4040</b>	BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30	56682	115297	6.35	1.8 x 2
<b>FSER5050</b>	BKN40 / WBK40DF / WBK40DFF / BFN40	86514	188754	7.938	1.8 x 2

## Dimensions



Designation	A	B	D	E	H	L	Q	W	X
<b>FSER1616</b>	53	10	32	10.5	38	48	M6	42	4.5
<b>FSER2020</b>	62	10	39	10.8	46	55	M6	50	5.5
<b>FSER2525</b>	74	12	47	11.2	56	67	M6	60	6.6
<b>FSER3232</b>	92	15	58	14	68	82	M6	74	9
<b>FSER4040</b>	114	17	73	17	84	100	M6	93	11
<b>FSER5050</b>	135	20	90	21.5	92	125	M6	112	14

Designation	d0 x Lead
<b>FSER1616</b>	16 x 16
<b>FSER2020</b>	20 x 20
<b>FSER2525</b>	25 x 25
<b>FSER3232</b>	32 x 32
<b>FSER4040</b>	40 x 40
<b>FSER5050</b>	50 x 50

## RSCR

Single Nut, Cylindrical with Thread, Internal Recirculation.

Standard nuts are with oil-seals.

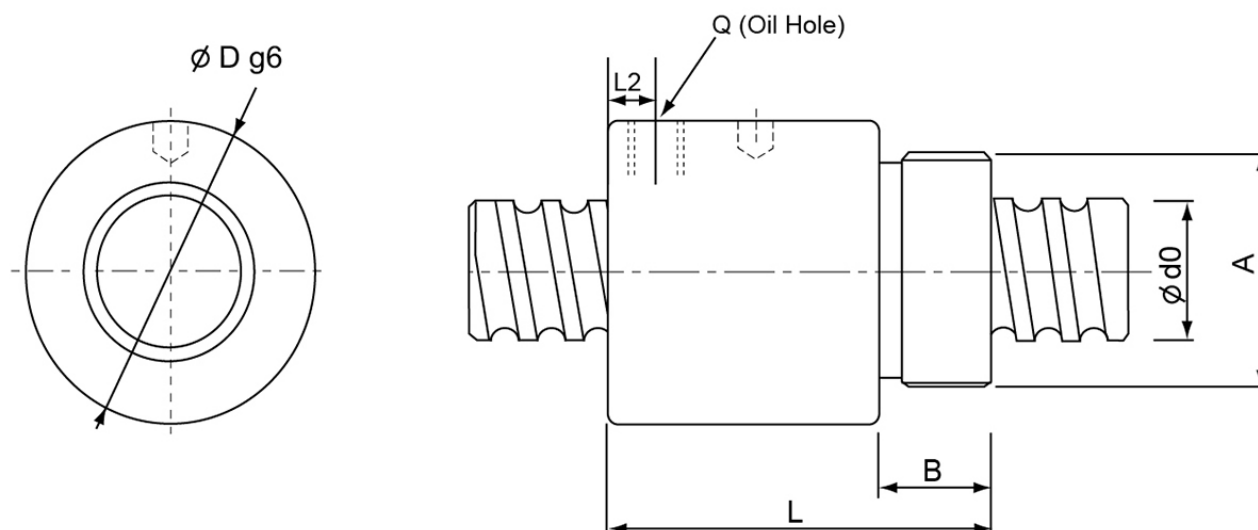
All dimensions in mm.



## General Data

Designation	Compatible with	Dynamic Load Ratings Ca (N)	Static Load Ratings C0a (N)	Ball diameter	Turns x circuits
<b>RSCR1605</b>	BKN12 / FKN12 / BFN12 / FFN12	13185	14960	3.175	1 x 4
<b>RSCR2005</b>	BKN15 / FKN15 / BFN15 / FFN15	14833	19571	3.175	1 x 4
<b>RSCR2505</b>	BKN20 / FKN20 / BFN20 / FFN20	16716	25320	3.175	1 x 4
<b>RSCR2510</b>	BKN17 / FKN17 / BFN17 / FFN17	28263	36248	4.762	1 x 4
<b>RSCR3205</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	18874	33383	3.175	1 x 4
<b>RSCR3210</b>	BKN25 / FKN25 / WBK25DF / BFN25 / FFN25	47422	76861	6.35	1 x 4
<b>RSCR4005</b>	BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30	21003	35081	3.175	1 x 4
<b>RSCR4010</b>	BKN30 / FKN30 / WBK30DF / WBK30DFF / BFN30 / FFN30	52964	98826	6.35	1 x 4
<b>RSCR5010</b>	BKN40 / WBK40DF / WBK40DFF / BFN40	58203	120791	6.35	1 x 4

## Dimensions



Designation	A	B	D	L	Q	L2	d0 x Lead
<b>RSCR1605</b>	M30 x 1.5	16	32	56	M6	6.5	16 x 5
<b>RSCR2005</b>	M35 x 1.5	16.5	38	59.5	M6	7	20 x 5
<b>RSCR2505</b>	M40 x 1.5	17	42	60	M6	7	25 x 5
<b>RSCR2510</b>	M40 x 1.5	17	42	90	M6	10	25 x 10
<b>RSCR3205</b>	M48 x 1.5	19	52	60	M6	7	32 x 5
<b>RSCR3210</b>	M48 x 1.5	19	52	93	M6	12	32 x 10
<b>RSCR4005</b>	M56 x 1.5	19	58	59	M8	6	40 x 5
<b>RSCR4010</b>	M60 x 2	27	65	102	M8	12	40 x 10
<b>RSCR5010</b>	M72 x 2	29	78	104	M8	12	50 x 10

## RSKR

Single Nut, Cylindrical with Thread.

Tolerance D: h10.

Standard nuts are without any seals or scrapers. Other types on request.

All dimensions in mm.

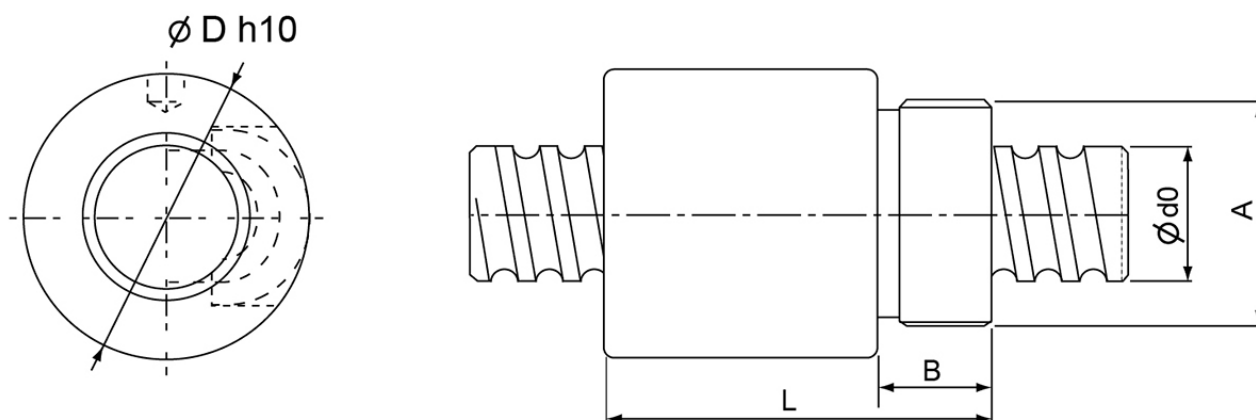


## General Data

Designation	Compatible with	Dynamic Load Ratings Ca (N)	Static Load Ratings C0a (N)	Ball diameter	Turns x circuits
<b>RSKR082.5</b>	FKN06	2109	2345	1.2	1 x 2.5
<b>RSKR1204</b>	BKN08 / FKN08 / BFN08	6327	6798	2.381	1 x 3.5
<b>RSKR1605</b>	BKN12 / FKN12 / BFN12 / FFN12	10291	11223	3.175	1 x 3.5



## Dimensions



Designation	A	B	D	L	d0 x Lead
<b>RSKR082.5</b>	M15 x 1	7.5	17.5	26	8 x 2.5
<b>RSKR1204</b>	M20 x 1	10	25.5	34	12 x 4
<b>RSKR1605</b>	M26 x 1.5	12	32.5	42	16 x 5

## SFYAR

Single Nut with Flange, Over Lead.

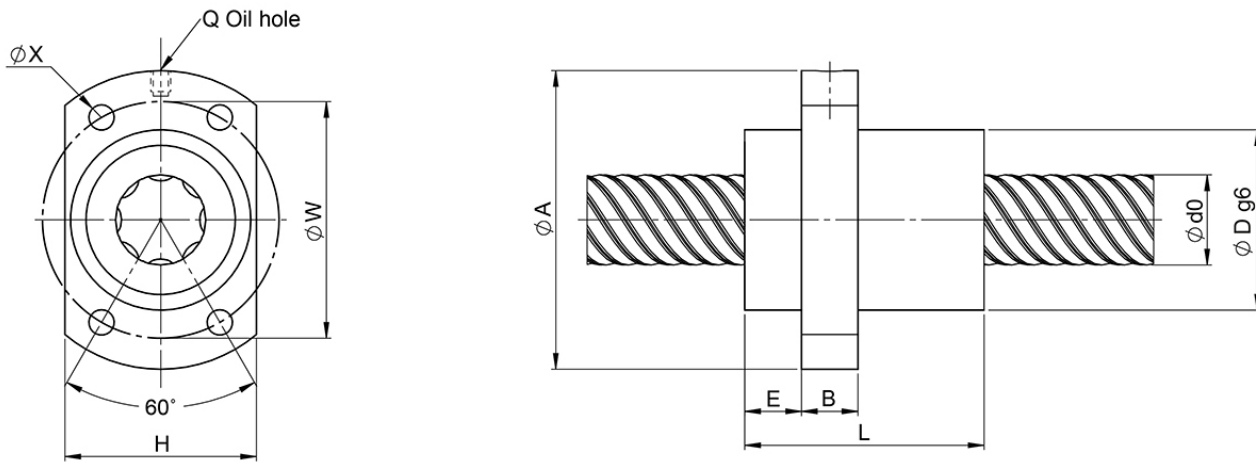
All dimensions in mm.



## General Data

Designation	Compatible with	Dynamic Load Ratings Ca (N)	Static Load Ratings C0a (N)	Ball diameter	Turns x circuits
<b>SFYAR1632</b>	BKN12 / FKN12 / BFN12 / FFN12	4930	11160	2.778	0.8 x 2
<b>SFYAR2040</b>	BKN15 / FKN15 / BFN15 / FFN15	6530	15970	3.175	0.8 x 2
<b>SFYAR2550</b>	BKN20 / FKN20 / BFN20 / FFN20	9760	24950	3.969	0.8 x 2

## Dimensions



Designation	A	B	D	E	H	L	Q	W	X
SFYAR1632	53	10	32	10.1	34	42.5	M6	42	4.5
SFYAR2040	62	10	39	13	41	48	M6	50	5.5
SFYAR2550	74	12	47	15	49	58	M6	60	6.6

Designation	d0 x Lead
SFYAR1632	16 x 32
SFYAR2040	20 x 40
SFYAR2550	25 x 50

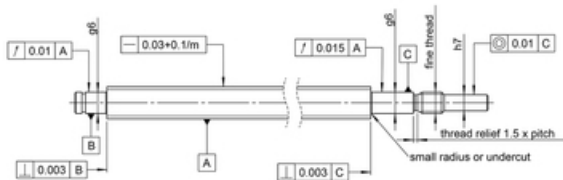
## SFKR

SFKR are miniature ball screws, best suitable for small manipulators, instruments etc. They enable very high positioning precision and stiffness because of the small lead. For optimal operation they do, however, require very high cleanliness and accuracy when built into an application.

A limited service- and prototyping-stock of basic grade with rolled spindles (C7) and axial play in the nut (P0) is kept available. For more demanding applications or larger quantities, contact us.

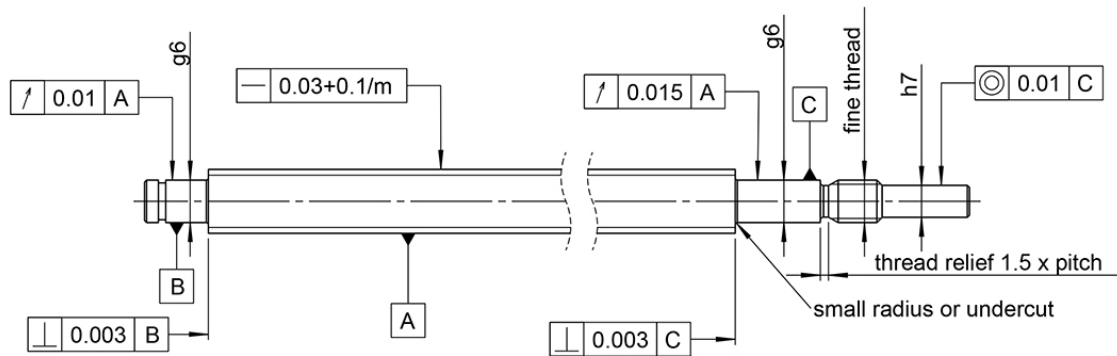
Standard nuts are with scrapers. Other types on request.

All dimensions in mm.



Recommended dimensional and geometrical tolerances for typical machining of miniature ball screws. Undercuts, radii and thread reliefs to be checked for suitability for chosen bearing- and lock-nut solution.

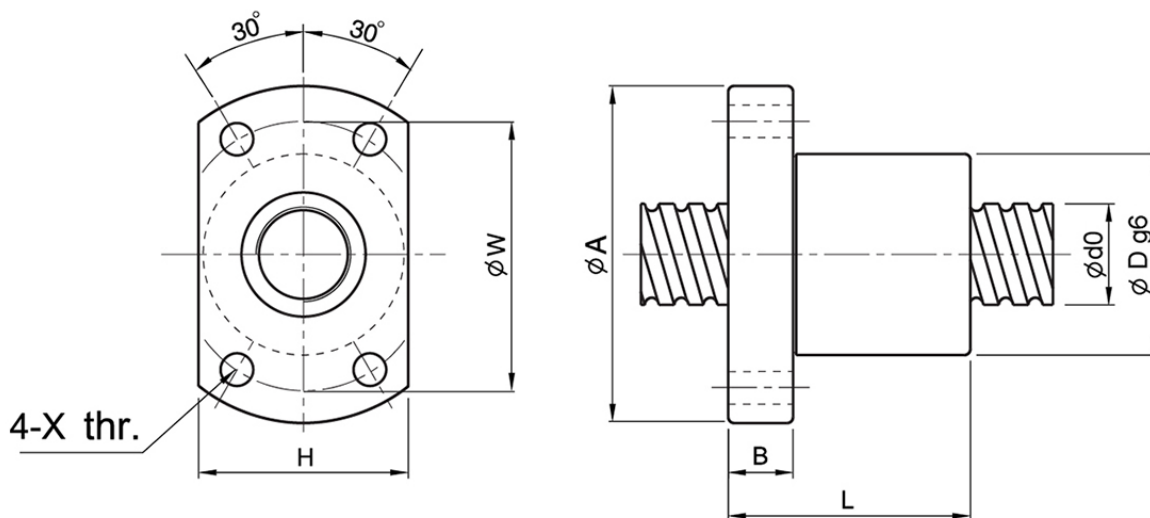
## General Data



Recommended dimensional and geometrical tolerances for typical machining of miniature ball screws.  
Undercuts, radii and thread reliefs to be checked for suitability for chosen bearing- and lock-nut solution.

Designation	Compatible with	Dynamic Load Ratings Ca (N)	Static Load Ratings C0a (N)	Ball diameter	Turns x circuits
SFKR0601	—	1110	2240	0.8	1 x 3
SFKR0801	FKN06	1610	4030	0.8	1 x 4
SFKR1002	FKN06	2430	5690	1.2	1 x 3
SFKR1202	BKN08 / FKN08 / BFN08	3340	9060	1.2	1 x 4
SFKR1402	BKN10 / FKN10 / BFN10 / FFN10	3540	10530	1.2	1 x 4

## Dimensions



Designation	A	B	D	H	L	W	X	d0 x Lead
SFKR0601	24	3.5	12	16	15	18	3.4	6 x 1
SFKR0801	27	4	14	18	16	21	3.4	8 x 1
SFKR1002	35	5	18	22	28	27	4.5	10 x 2
SFKR1202	37	5	20	24	28	29	4.5	12 x 2
SFKR1402	40	6	21	26	23	31	5.5	14 x 2

## SNFSCR

All dimensions in mm.

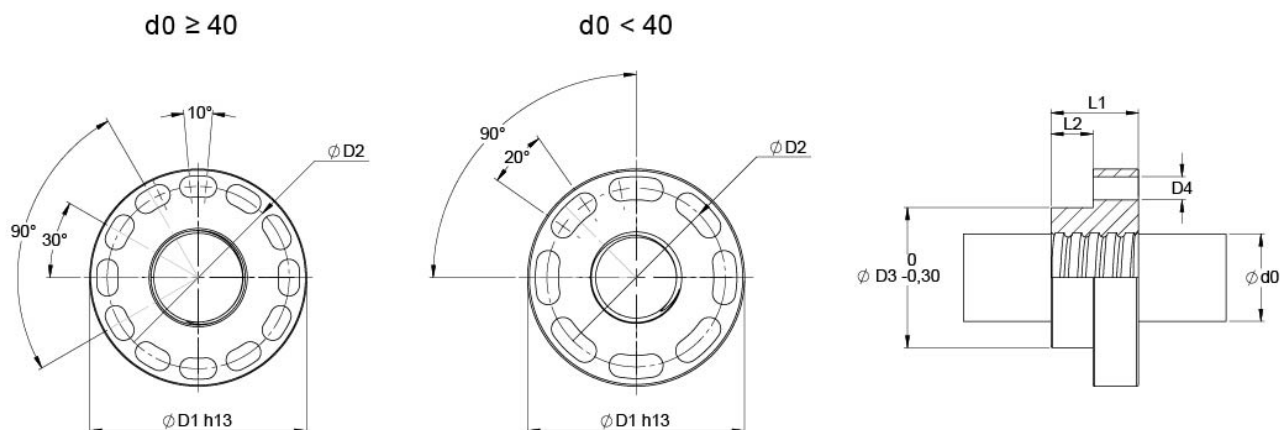




## General Data

Designation	Ca0 (N)
SNFSCR1605	50000
SNFSCR2005	61000
SNFSCR2505	75000
SNFSCR2510	56000
SNFSCR3205	112000
SNFSCR3210	113000
SNFSCR4005	163000
SNFSCR4010	190000
SNFSCR5010	226000

## Dimensions



Designation	d1	d2	D3	D4	L1	L2	d0 x Lead
<b>SNFSCR1605</b>	48	38	28	8x5.5	25	12	16
<b>SNFSCR2005</b>	58	47	36	8x6.6	25	12	20
<b>SNFSCR2505</b>	62	51	40	8x6.6	25	12	25
<b>SNFSCR2510</b>	62	51	40	8x6.6	30	15	25
<b>SNFSCR3205</b>	80	65	50	8x9	30	15	32
<b>SNFSCR3210</b>	80	65	50	8x9	30	15	32
<b>SNFSCR4005</b>	93	78	63	12x9	35	15	40
<b>SNFSCR4010</b>	93	78	63	12x9	40	15	40
<b>SNFSCR5010</b>	110	93	75	12x11	40	15	50

## RN/RN..W

Spanner tools for radial holes "R" available from Rollco.

All dimensions in mm.

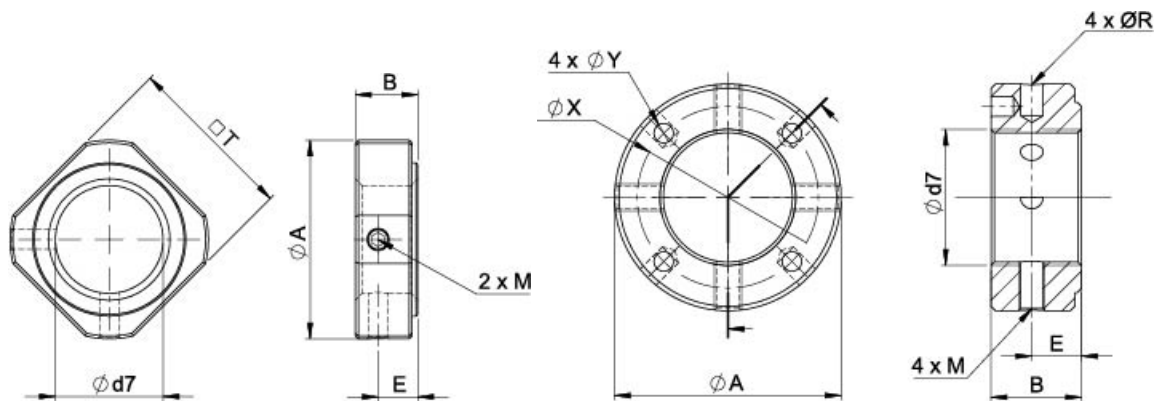
\* The Maximal tightening torque of the nut should not be exceeded. It is not required, neither recommended to tighten the nut to its limits. What is mandatory is to always tighten the set screws to prescribed values, after the nut have been tighten to a distinct stop.



## General Data

Designation	Max. Tightening Torque Nut (Nm)*	Tightening Torque Set Screws (Nm)
RN06	2	0.6
RN08	3	0.6
RN10	3	0.6
RN12	7	1.5
RN15	8	1.5
RN17	10	1.5
RN20	17	1.5
RN25	21	5.0
RN30	32	5.0
RN40	72	5.0
RN25W	87	5.0
RN30W	105	5.0
RN40W	160	5.0

## Dimensions

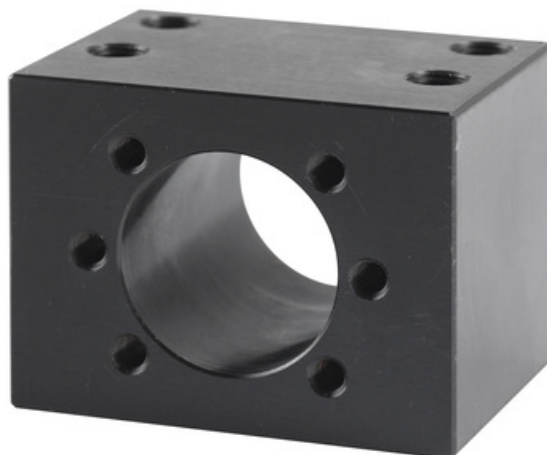


Designation	A	B	E	M	R	T	Y	d7	X
<b>RN06</b>	13.5	5	2.7	M3	-	12	-	M6x0.75	-
<b>RN08</b>	16.4	6.5	4	M3	-	14	-	M8x1	-
<b>RN10</b>	19	8	5.5	M3	-	16	-	M10x1	-
<b>RN12</b>	22.8	8	5.5	M4	-	19	-	M12x1	-
<b>RN15</b>	25.8	8	4.75	M4	-	22	-	M15x1	-
<b>RN17</b>	29	13	9	M4	-	24	-	M17x1	-
<b>RN20</b>	35	11	7	M4	-	30	-	M20x1	-
<b>RN25</b>	43	15	10	M6	-	35	-	M25x1.5	-
<b>RN30</b>	48	20	14	M6	-	40	-	M30x1.5	-
<b>RN40</b>	62	25	18	M6	-	50	-	M40x1.5	-
<b>RN25W</b>	45	20	11	M6	5	-	4.3	M25x1.5	35
<b>RN30W</b>	50	20	11	M6	5	-	4.3	M30x1.5	40
<b>RN40W</b>	60	22	12	M6	5	-	4.3	M40x1.5	50

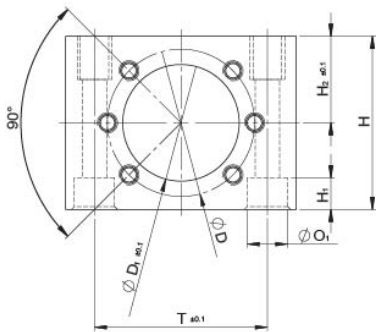
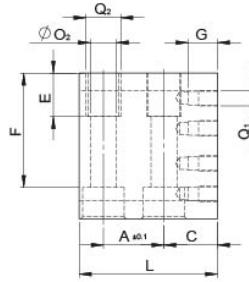
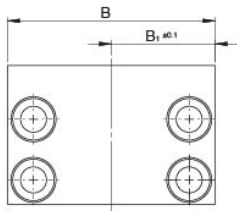
## RNB

Other types on request. Please contact Rollco for more information.

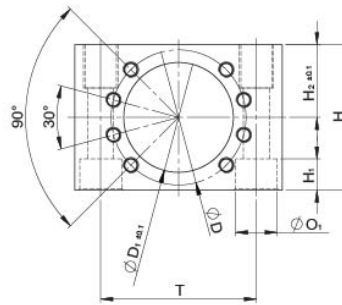
All dimensions in mm.



## Dimensions



**Fig. 1**



**Fig. 2**

Designation	Fig.	H1	G	A	B	H	D	F	L
RNB16	1	11	10	20	70	48	38	37	50
RNB20	1	9	11	23	75	54	47	45	55
RNB25	1	9	11	23	80	58	51	49	55
RNB32	1	16	14	30	100	68	65	52	70
RNB40	2	18	17	35	120	84	78	66	80

Designation	C	T	E	d1	H2	B1	O1	O2	Q1	Q2
RNB16	20	50	15	28.4	24	35	14	8.4	M5	M10
RNB20	22	55	15	36.4	28	37.5	14	8.4	M6	M10
RNB25	22	60	15	40.4	30	40	14	8.4	M6	M10
RNB32	27	75	20	50.4	35	50	18	13	M8	M16
RNB40	31	90	25	63.4	42	60	24	15	M8	M18

## BKN

All dimensions in mm.

Using standard shaft nut type RN.

\* The Maximal tightening torque of the nut should not be exceeded. It is not required, neither recommended to tighten the nut to its limits. What is mandatory is to always tighten the set screws to prescribed values, after the nut have been tighten to a distinct stop.





## General Data

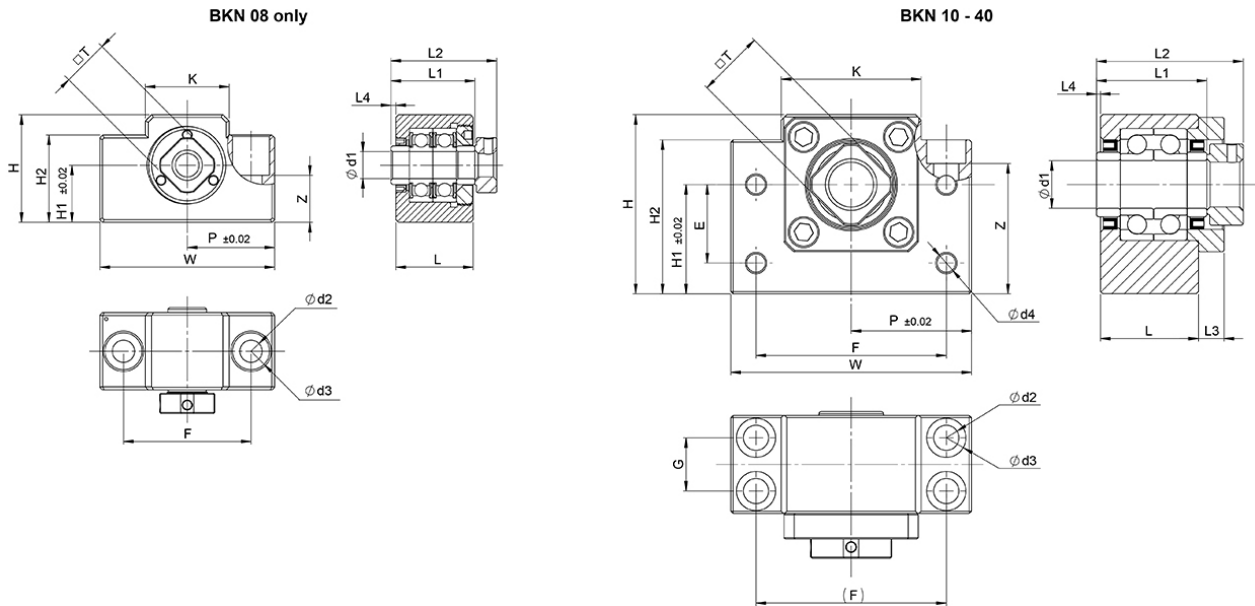
\* Dynamic limits are the loads where a reliable life time calculation isn't possible to do. Noise level and heat generation will also increase rapidly above this limit. Static limit is calculated with a static safety factor  $s_0 = 2,5$  to C0a. See more in section "Life Calculation" or contact Rollco for advise.

\*Axial dynamic rating Ca is used to calculate the nominal life of the bearings. Axial static rating C0a is a theoretical value where the bearings get permanent damaged. See more in section "Life Calculation" or contact Rollco for advise.

Designation	Compatible with	Bearing	Dynamic Permissible Axial Load (N)	Static Permissible Axial Load (N)	Max. Tightening Torque Nut (Nm)*
<b>BKN08</b>	Screw dim. 1202 / 1204	708 A	1020	1760	3
<b>BKN10</b>	Screw dim. 1402	7000 A	2000	3150	3
<b>BKN12</b>	Screw dim. 1605 / 1610 / 1616 / 1632	7001 A	2400	3600	7
<b>BKN15</b>	Screw dim. 2005 / 2020 / 2040	7002 A	2900	4200	8
<b>BKN17</b>	Screw dim. 2510	7203 A	4100	7300	10
<b>BKN20</b>	Screw dim. 2505 / 2525 / 2550	7004 A	5800	8000	17
<b>BKN25</b>	Screw dim. 3205 / 3210 / 3220 / 3232	7205 B	9700	14500	21
<b>BKN30</b>	Screw dim. 4005 / 4010 / 4020 / 4040	7206 B	14200	20800	32
<b>BKN40</b>	Screw dim. 5010 / 5050	7208 B	18000	35400	72

Designation	Tightening Torque Set Screws (Nm)	Axial Dynamic Load Capacity Ca (N)	Axial Static Load Capacity C0a (N)
<b>BKN08</b>	0.6	4410	4390
<b>BKN10</b>	0.6	7040	7880
<b>BKN12</b>	1.5	7600	9000
<b>BKN15</b>	1.5	8000	10500
<b>BKN17</b>	1.5	14200	18200
<b>BKN20</b>	1.5	14200	20000
<b>BKN25</b>	5.0	26000	36200
<b>BKN30</b>	5.0	36000	51900
<b>BKN40</b>	5.0	56100	88500

## Dimensions



Designation	E	F	G	H	K	L	P	T	Z
BKN08	-	38	-	32	25	23	26	14	14
BKN10	15	46	13	39	34	25	30	16	27.5
BKN12	18	46	13	43	34	25	30	19	31
BKN15	18	54	15	48	40	27	35	22	31.5
BKN17	28	68	19	64	50	35	43	24	46.5
BKN20	22	70	19	60	52	35	44	30	41.5
BKN25	33	85	22	80	64	42	53	35	59
BKN30	33	102	23	89	76	45	64	40	65
BKN40	37	130	33	110	100	61	80	50	72.5

Designation	d1	d2	D3	D4	H1	H2	L1	L2	L3	L4
BKN08	8	6.6	11	-	17	26	25	31.5	-	1.5
BKN10	10	6.6	10.8	5.5	22	32.5	27	35	5	0.5
BKN12	12	6.6	10.8	5.5	25	32.5	27	35	5	0.5
BKN15	15	6.6	11	5.5	28	38	30	38	6	0
BKN17	17	9	14	6.6	39	55	38	51	9	0
BKN20	20	9	14	6.6	34	50	40	51	8	0
BKN25	25	11	17	9	48	70	48	63	12	0
BKN30	30	14	20	11	51	78	50	70	14	0
BKN40	40	18	26	14	60	90	66	91	18	0

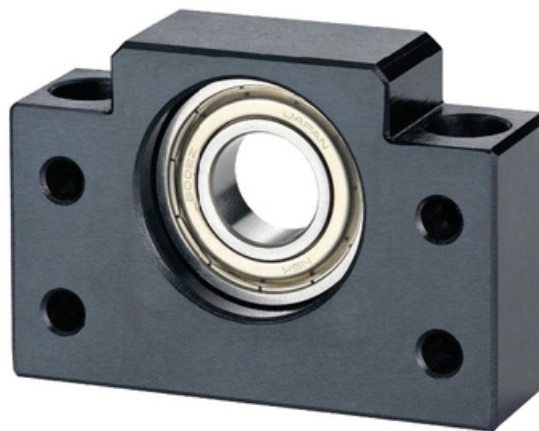
Designation	W
BKN08	52
BKN10	60
BKN12	60
BKN15	70
BKN17	86

## Dimensions

Designation	W
<b>BKN20</b>	88
<b>BKN25</b>	106
<b>BKN30</b>	128
<b>BKN40</b>	160

## BFN

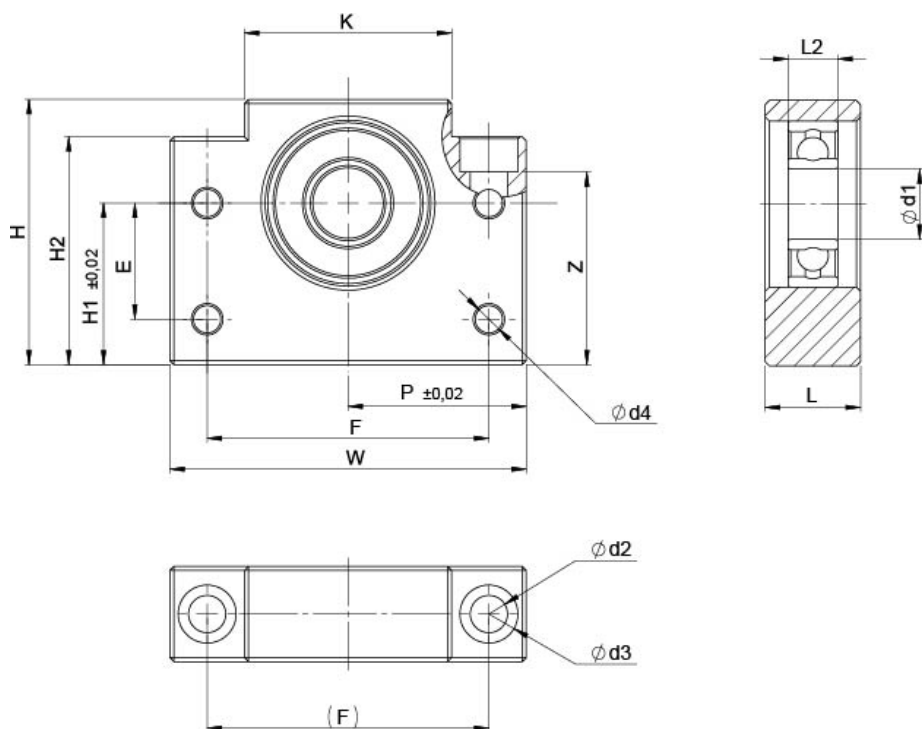
All dimensions in mm.



## General Data

Designation	Compatible with	Bearing
<b>BFN08</b>	Screw dim. 1202 / 1204	606-2Z
<b>BFN10</b>	Screw dim. 1402	608-2Z
<b>BFN12</b>	Screw dim. 1605 / 1610 / 1616 / 1632	6000-2Z
<b>BFN15</b>	Screw dim. 2005 / 2020 / 2040	6002-2Z
<b>BFN17</b>	Screw dim. 2510	6203-2Z
<b>BFN20</b>	Screw dim. 2505 / 2525 / 2550	6004-2Z
<b>BFN25</b>	Screw dim. 3205 / 3210 / 3220 / 3232	6205-2Z
<b>BFN30</b>	Screw dim. 4005 / 4010 / 4020 / 4040	6206-2Z
<b>BFN40</b>	Screw dim. 5010 / 5050	6208-2Z

## Dimensions



Designation	E	F	H	K	L	P	Z	d1	d2
<b>BFN08</b>	-	38	32	25	14	26	14	6	6.6
<b>BFN10</b>	15	46	39	34	20	30	27.5	8	6.6
<b>BFN12</b>	18	46	43	34	20	30	31	10	6.6
<b>BFN15</b>	18	54	48	40	20	35	31.5	15	6.6
<b>BFN17</b>	28	68	64	50	23	43	46.5	17	9
<b>BFN20</b>	22	70	60	52	26	44	41.5	20	9
<b>BFN25</b>	33	85	80	64	30	53	59	25	11
<b>BFN30</b>	33	102	89	76	32	64	65	30	14
<b>BFN40</b>	37	130	110	100	37	80	72.5	40	18

Designation	D3	D4	H1	H2	L2	W
<b>BFN08</b>	11	-	17	26	6	52
<b>BFN10</b>	10.8	5.5	22	32.5	7	60
<b>BFN12</b>	10.8	5.5	25	32.5	8	60
<b>BFN15</b>	11	5.5	28	38	9	70
<b>BFN17</b>	14	6.6	39	55	12	86
<b>BFN20</b>	14	6.6	34	50	12	88
<b>BFN25</b>	17	9	48	70	15	106
<b>BFN30</b>	20	11	51	78	16	128
<b>BFN40</b>	26	14	60	90	18	160

## FKN

All dimensions in mm.

Using standard shaft nut type RN.

\* The Maximal tightening torque of the nut should not be exceeded. It is not required, neither recommended to tighten the nut to its limits. What is mandatory is to always tighten the set screws to prescribed values, after the nut have been tighten to a distinct stop.



## General Data

\* Dynamic limits are the loads where a reliable life time calculation isn't possible to do. Noise level and heat generation will also increase rapidly above this limit. Static limit is calculated with a static safety factor  $s_0 = 2,5$  to C0a. See more in section "Life Calculation" or contact Rollco for advise.

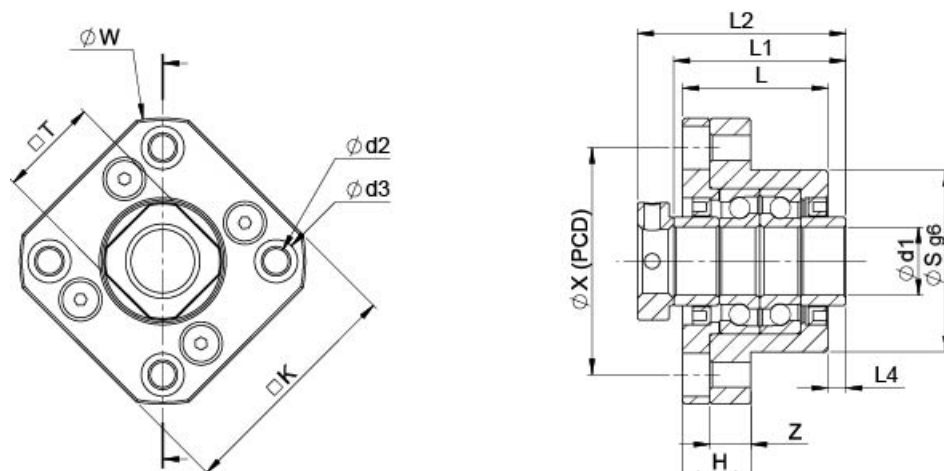
\*Axial dynamic rating Ca is used to calculate the nominal life of the bearings. Axial static rating C0a is a theoretical value where the bearings get permanent damaged. See more in section "Life Calculation" or contact Rollco for advise.

Designation	Compatible with	Bearing	Dynamic Permissible Axial Load (N)	Static Permissible Axial Load (N)	Max. Tightening Torque Nut (Nm)*
<b>FKN06</b>	Screw dim. 0801 / 082,5 / 1002	706 A	720	960	2
<b>FKN08</b>	Screw dim. 1202 / 1204	708 A	1020	1760	3
<b>FKN10</b>	Screw dim. 1402	7000 A	2000	3150	3
<b>FKN12</b>	Screw dim. 1605 / 1610 / 1616 / 1632	7001 A	2400	3600	7
<b>FKN15</b>	Screw dim. 2005 / 2020 / 2040	7002 A	2900	4200	8
<b>FKN17</b>	Screw dim. 2510	7203 A	4100	7300	10
<b>FKN20</b>	Screw dim. 2505 / 2525 / 2550	7204 B	8300	11800	17
<b>FKN25</b>	Screw dim. 3205 / 3210 / 3220 / 3232	7205 B	9700	14500	21
<b>FKN30</b>	Screw dim. 4005 / 4010 / 4020 / 4040	7208 B	14200	20800	32

Designation	Tightening Torque Set Screws (Nm)	Axial Dynamic Load Capacity Ca (N)	Axial Static Load Capacity C0a (N)
<b>FKN06</b>	0.6	2670	2410
<b>FKN08</b>	0.6	4410	4390
<b>FKN10</b>	0.6	7040	7880
<b>FKN12</b>	1.5	7600	9000
<b>FKN15</b>	1.5	8000	10500
<b>FKN17</b>	1.5	14200	18200
<b>FKN20</b>	1.5	23300	29400
<b>FKN25</b>	5.0	26000	36200
<b>FKN30</b>	5.0	36000	51900



## Dimensions

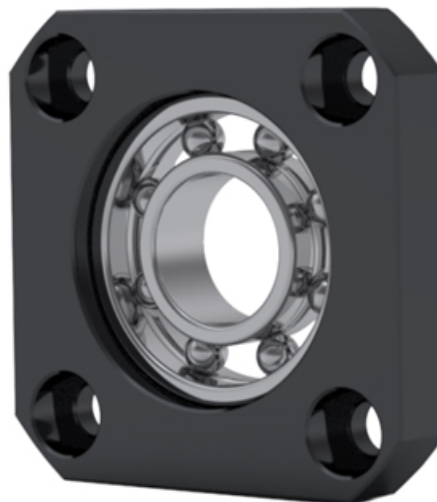


Designation	H	K	L	S	T	Z	d1	d2	D3
<b>FKN06</b>	7	34	20	22	12	3	6	3.4	6.5
<b>FKN08</b>	9	35	23	28	14	5	8	3.4	6.5
<b>FKN10</b>	10	42	27	34	16	6	10	4.5	8
<b>FKN12</b>	10	44	27	36	19	6	12	4.5	8
<b>FKN15</b>	15	52	32	40	22	9	15	5.5	9.5
<b>FKN17</b>	22	61	45	50	24	12	17	6.6	11
<b>FKN20</b>	22	68	52	57	30	12	20	6.6	11
<b>FKN25</b>	27	79	57	63	35	14	25	9	14
<b>FKN30</b>	30	93	62	75	40	15	30	11	17.5

Designation	L1	L2	L4	X	W
<b>FKN06</b>	22	27	1.5	28	36
<b>FKN08</b>	25	31.5	1.5	35	43
<b>FKN10</b>	27	35	0.5	42	52
<b>FKN12</b>	27	35	0.5	44	54
<b>FKN15</b>	38	46	4	50	63
<b>FKN17</b>	44	56	1	62	77
<b>FKN20</b>	50	61	1	70	85
<b>FKN25</b>	58	73	4	80	98
<b>FKN30</b>	50	70	-3	95	117

## FFN

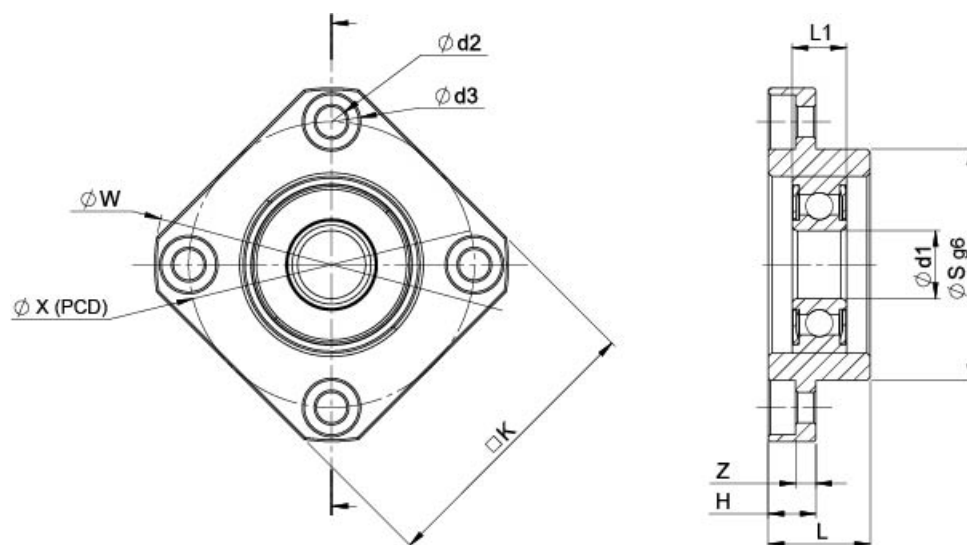
All dimensions in mm.



## General Data

Designation	Compatible with	Bearing
<b>FFN10</b>	Screw dim. 1402	608-2Z
<b>FFN12</b>	Screw dim. 1605 / 1610 / 1616 / 1632	6000-2Z
<b>FFN15</b>	Screw dim. 2005 / 2020 / 2040	6002-2Z
<b>FFN17</b>	Screw dim. 2510	6203-2Z
<b>FFN20</b>	Screw dim. 3205 / 3210 / 3220 / 3232	6204-2Z
<b>FFN25</b>	Screw dim. 3205 / 3210 / 3220 / 3232	6205-2Z
<b>FFN30</b>	Screw dim. 4005 / 4010 / 4020 / 4040	6206-2Z

## Dimensions



Designation	H	K	L	S	Z	d1	d2	D3	L1
FFN10	7	35	12	28	3	8	3.4	6.5	7
FFN12	7	42	15	34	3	10	4.5	8	8
FFN15	9	52	17	40	3.5	15	5.5	9.5	9
FFN17	11	61	20	50	4.5	17	6.6	11	12
FFN20	11	68	20	57	4.5	20	6.6	11	14
FFN25	14	79	24	63	5.5	25	9	14	15
FFN30	18	93	27	75	7	30	11	17	16

Designation	X	W
FFN10	35	43
FFN12	42	52
FFN15	50	63
FFN17	62	77
FFN20	70	85
FFN25	80	98
FFN30	95	117

## WBK..DF/WBK..DFF

All dimensions in mm.

Using standard shaft nut type RN...W.

\* The Maximal tightening torque of the nut should not be exceeded. It is not required, neither recommended to tighten the nut to its limits. What is mandatory is to always tighten the set screws to prescribed values, after the nut have been tighten to a distinct stop.



## General Data

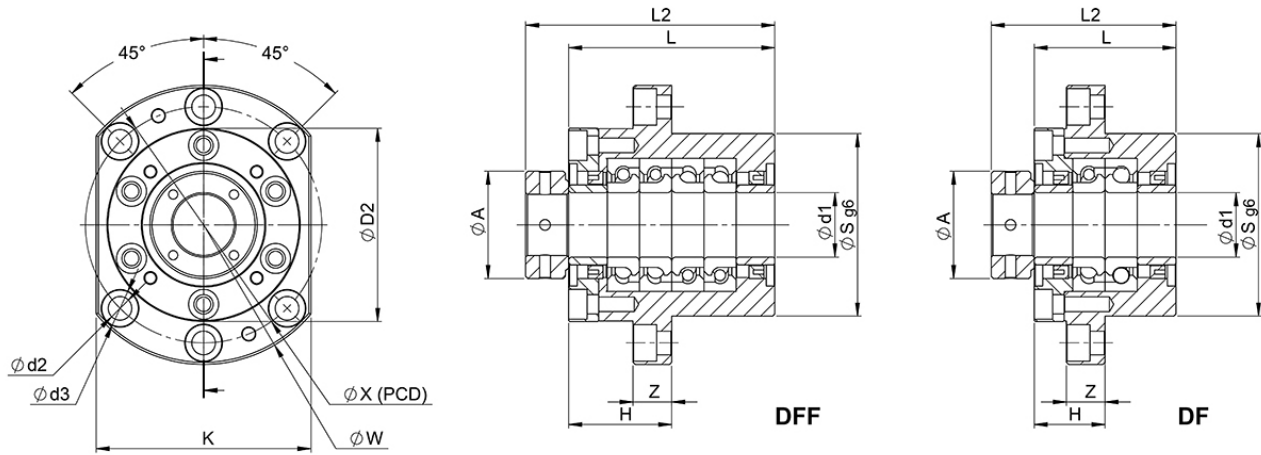
Heavy load units can operate at very high loads compared to its size. Dynamic loads up to 100% of Ca is feasible but at the expense of the life.

Designation	Compatible with	Fig.	Bearing	Dynamic Permissible Axial Load (N)	Static Permissible Axial Load (N)
<b>WBK25DF</b>	Screw dim. 3205 / 3210 / 3220 / 3232	1	25TAC 62B	20000	28500
<b>WBK30DF</b>	Screw dim. 4005 / 4010 / 4020 / 4040	1	30TAC 62B	20500	30200
<b>WBK30DFF</b>	Screw dim. 4005 / 4010 / 4020 / 4040	1	30TAC 62B	33300	60400
<b>WBK40DF</b>	Screw dim. 5010 / 5050	2	40TAC 72B	22300	36400
<b>WBK40DFF</b>	Screw dim. 5010 / 5050	2	40TAC 72B	36100	72800

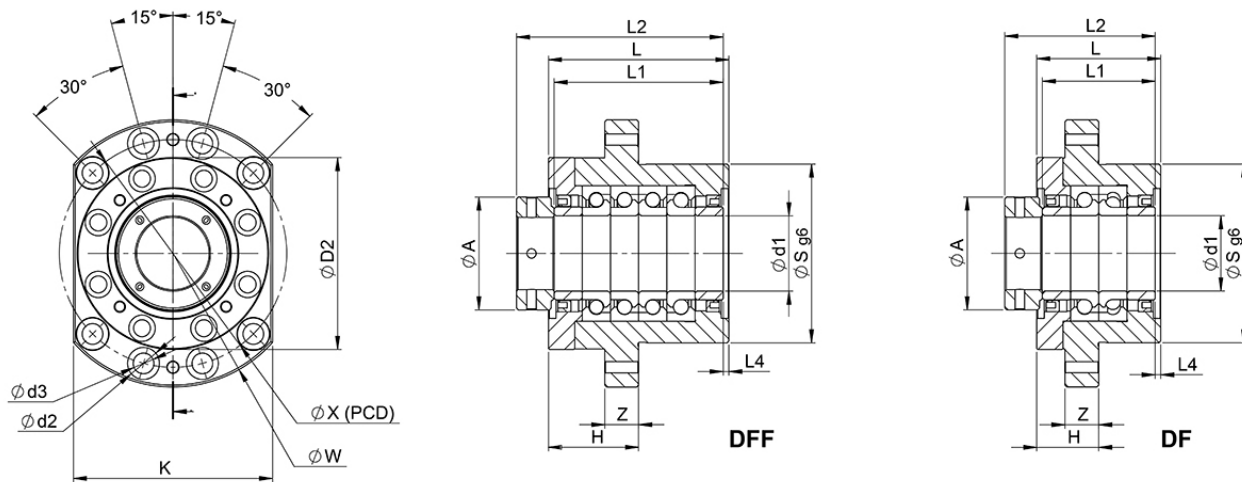
Designation	Max. Tightening Torque Nut (Nm)*	Tightening Torque Set Screws (Nm)	Axial Dynamic Load Capacity Ca (N)	Axial Static Load Capacity C0a (N)
<b>WBK25DF</b>	87	5.0	28500	40700
<b>WBK30DF</b>	105	5.0	29200	43200
<b>WBK30DFF</b>	105	5.0	47600	86300
<b>WBK40DF</b>	160	5.0	31900	52000
<b>WBK40DFF</b>	160	5.0	51500	104000

## Dimensions

### WBK25DF / WBK30DF / WBK30DFF



### WBK40DF / WBK40DFF



Designation	A	H	K	L	S	Z	d1	d2	D3
WBK25DF	45	33	100	66	85	18	25	11	17
WBK30DF	50	33	100	66	85	18	30	11	17
WBK30DFF	50	48	100	96	85	18	30	11	17
WBK40DF	60	33	106	66	95	18	40	11	17
WBK40DFF	60	48	106	96	95	18	40	11	17

Designation	L1	L2	L4	X	W
WBK25DF	66	86	-	110	130
WBK30DF	66	86	-	110	130
WBK30DFF	96	116	-	110	130
WBK40DF	60	83	3	121	142
WBK40DFF	90	118	3	121	142

## RA Grease

NLGI grade 1.5

Clear grease based on synthetic oils and PTFE. Will fulfil all severe specifications from bearing manufacturers, industrial applications and vehicle producers. Very suitable for use where long service life is required and desired. The specific rheological properties of the lubricant will give very low good flow properties of the grease at extremely low temperatures, at the same time the high film strength and thickness will guarantee lubrication also at elevated temperatures. The type of PTFE used will adhere strongly to all surfaces lubricated and give a very low friction coefficient. The grease is water resistant, withstands oxidation, has very good mechanical stability, is completely non-toxic and provides a very wide application temperature range.

**Temperature:** -40 to +260 °C (application range)





## General Data

Designation	Remark	Colour	Weight (g)
RA Grease NLGI 1.5	Cartridge package	Translucent white	400 g