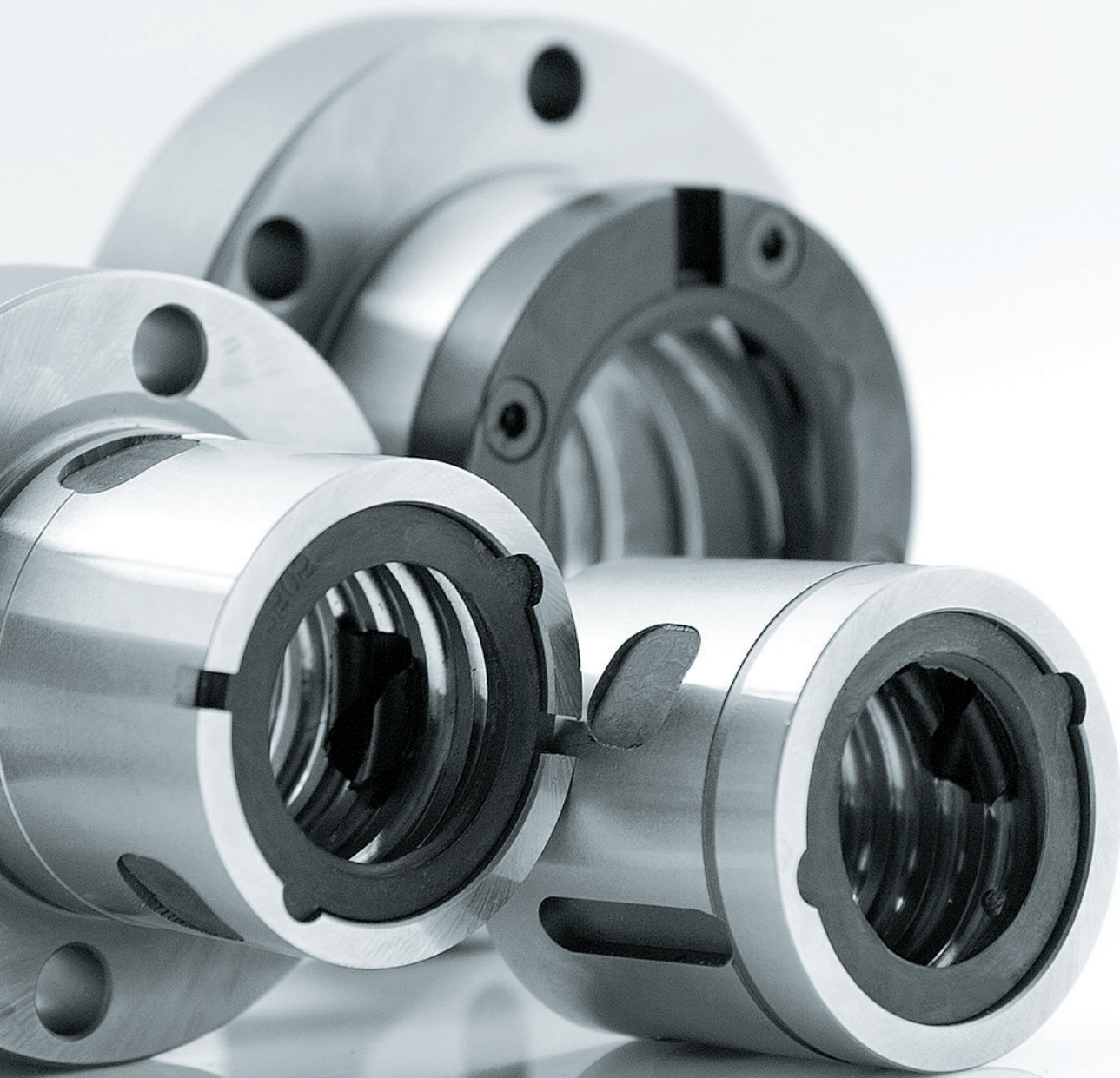
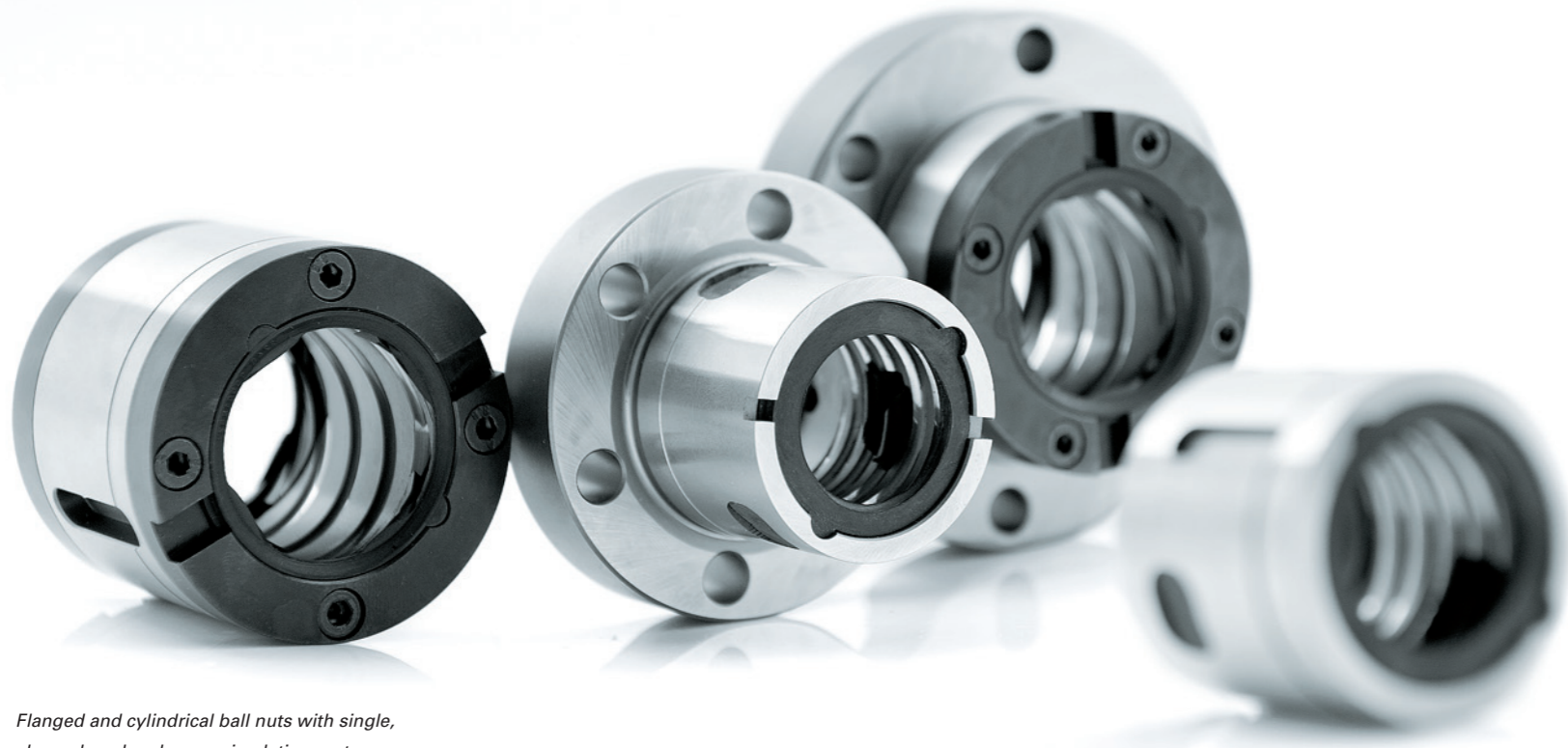


DYNAMIC

Ball screw assemblies manufactured with know-how. The right drive.

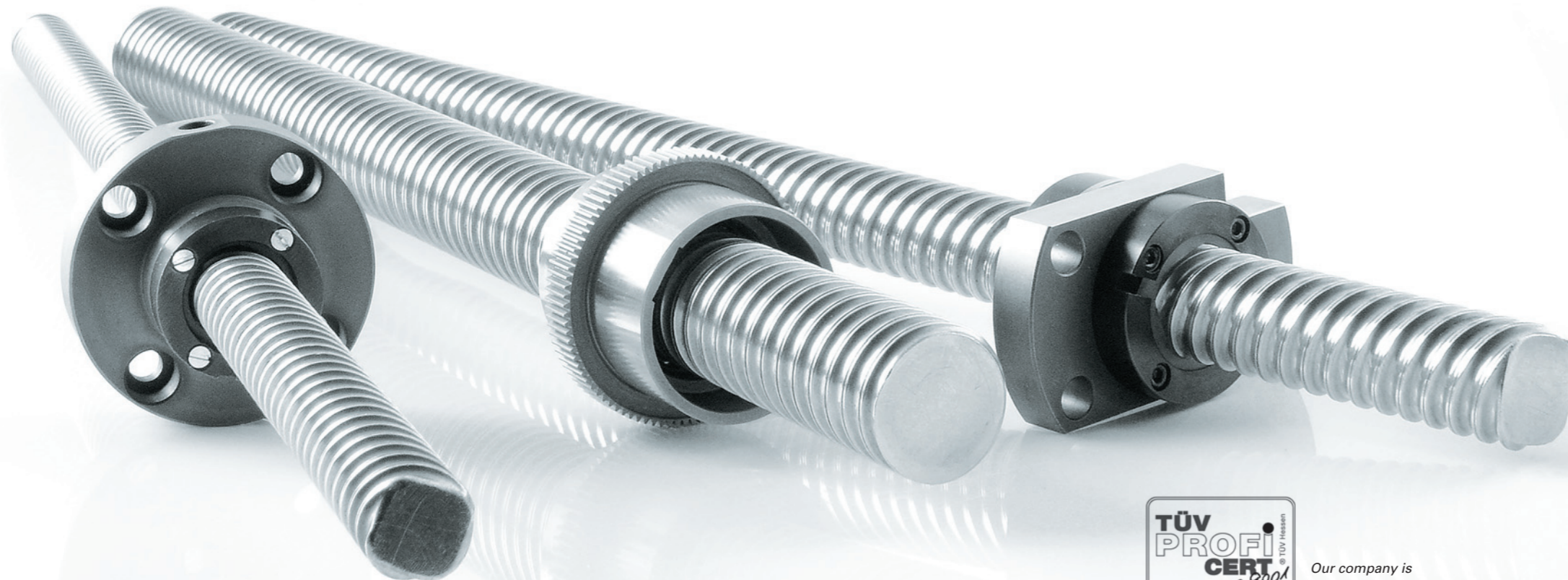




Flanged and cylindrical ball nuts with single, channel, and end-cap recirculation systems

SPECIALIST

in manufacturing standard and special forms. The full range.



Custom-made ball screws

Why decide in favor of Wandel CNC as your partner for ball screw assemblies? Quite simply because we not only offer a range of products in compliance with the German standard DIN 69051, but also ball screw assemblies made according to your particular specifications. Manufactured with know-how.

We develop all products ourselves and manufacture them on modern CNC machinery. We supply small to medium-sized lots to reputable companies from differing industrial sectors. They benefit from our extensive experience gained over the last 35 years in the milling, turning,

and grinding of top-quality components and assemblies. That is what makes the difference – and guarantees the certainty of you receiving a quality product from an original manufacturer in the shortest possible time.

Ball nuts with various leads: from stock or made to individual specifications

Our product portfolio comprises single-start and multiple-start flanged and cylindrical ball nuts with single, channel, and end-cap return in accordance with DIN 69051, as well as many special sizes and forms in common use. We design, make prototypes, and manufacture ball nuts of special dimensions, and supply them in the shortest possible time. All nuts are preassembled on spindles from reputable manufacturers, or ones provided by you, and we appropriately adjust the standard play. The ball nuts are supplied with profiled wiper rings on mounting sleeves or fully assembled on spindles – with or without end machining as a ball screw.

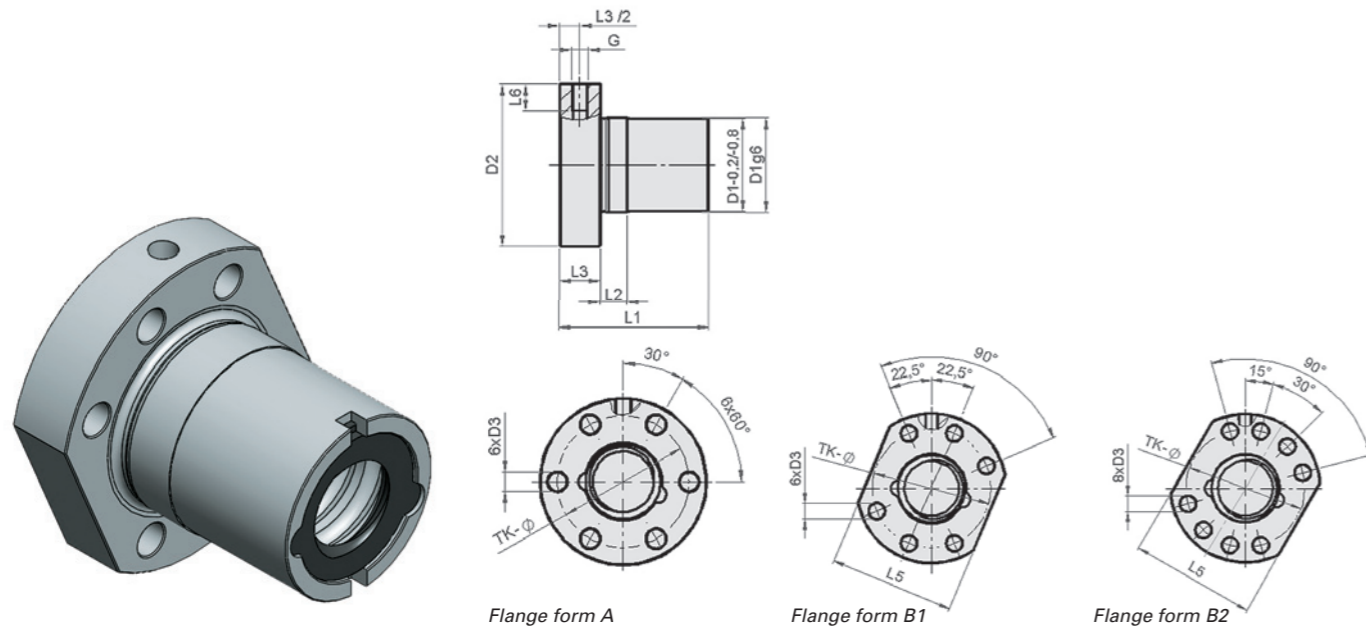
- **Standard** (max. 50 µm)
- **Low backlash** (max. 20 µm)
- **4-point preloading** (max. 2% of C_{am})
- **Double nut unit**
cylindrical/cylindrical, flanged/
cylindrical, flanged/flanged



Our company is certified in accordance with DIN EN ISO 9001.

PERFECT

precision for single-start and multiple-start ball screws.



Flanged ball nuts KGMF with single and channel return

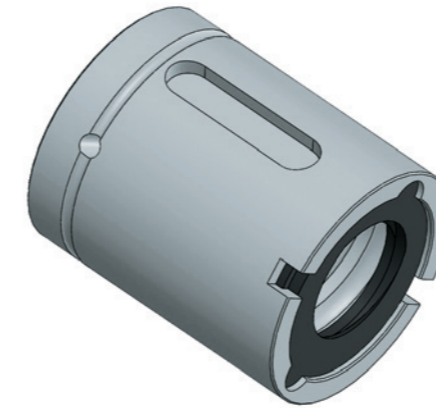
Identification Ø (mm) Lead (mm)	Article no.	Flange form	Dimensions (mm)										Max. axial play (mm)	No. of circuits	Load rating (kN) ¹	
			D1	D2	D3	TK-φ	L1	L2	L3	L5	G	L6			C _{am}	C _{0.5am}
KGMF-W-1605-RH	96160502	A	28.0	48.0	5.5	38.0	44.0	8.0	12.0	-	M6	8.0	0.08	3	9.3	12.9
KGMF-D-1605-RH	96160503	B1	28.0	48.0	5.5	38.0	42.0	10.0	10.0	40.0	M6	8.0	0.08	3	9.3	12.9
KGMF-D-1610-RH	96161003	B1	28.0	48.0	5.5	38.0	55.0	10.0	10.0	40.0	M6	8.0	0.08	6	17.7	25.8
KGMF-D-1616-RH	96161603	B1	28.0	48.0	5.5	38.0	45.0	10.0	10.0	40.0	M6	8.0	0.08	4	9.9	15.6
KGMF-W-2005-RH	96200502	A	32.0	55.0	7.0	45.0	44.0	8.0	12.0	-	M6	8.0	0.08	3	11.2	18.0
KGMF-D-2005-RH	96200503	B1	36.0	58.0	6.6	47.0	42.0	10.0	10.0	44.0	M6	8.0	0.08	3	11.2	18.0
KGMF-W-2505-RH	96250506	A	38.0	62.0	7.0	50.0	46.0	8.0	14.0	-	M6	8.0	0.08	3	12.7	23.1
KGMF-D-2505-RH	96250507	B1	40.0	62.0	6.6	51.0	42.0	10.0	10.0	48.0	M6	8.0	0.08	3	12.7	23.1
KGMF-D-2510-RH-45	96251008	B1	40.0	62.0	6.6	51.0	45.0	16.0	10.0	48.0	M6	8.0	0.08	6	23.6	48.4
KGMF-D-2510-RH-55	96251010	B1	40.0	62.0	6.6	51.0	55.0	16.0	10.0	48.0	M6	8.0	0.08	4	17.2	33.9
KGMF-W-3205-RH	96320502	A	45.0	70.0	7.0	58.0	59.0	10.0	16.0	-	M6	8.0	0.08	5	23.0	53.4
KGMF-D-3205-RH	96320503	B1	50.0	80.0	9.0	65.0	55.0	10.0	12.0	62.0	M6	8.0	0.08	5	23.0	53.4
KGMF-W-3210-RH	96321002	A	53.0	80.0	7.0	68.0	73.0	10.0	16.0	-	M8x1	8.0	0.08	3	35.9	59.1
KGMF-D-3210-RH	96321003	B1	53.0 ²	80.0	9.0	65.0	69.0	16.0	12.0	62.0	M8x1	8.0	0.08	3	35.9	59.1
KGMF-D-3220-RH-70	96322005	B1	53.0 ²	80.0	9.0	65.0	70.0	16.0	12.0	62.0	M6	8.0	0.08	4	29.7	58.3
KGMF-D-3220-RH-80	96322006	B1	53.0 ²	80.0	9.0	65.0	80.0	16.0	12.0	62.0	M6	8.0	0.08	4	29.7	58.3
KGMF-W-4005-RH	96400502	A	53.0	80.0	7.0	68.0	59.0	10.0	16.0	-	M6	8.0	0.08	5	25.5	68.4
KGMF-D-4005-RH	96400503	B2	63.0	93.0	9.0	78.0	57.0	10.0	14.0	70.0	M6	8.0	0.08	5	25.5	68.4
KGMF-W-4010-RH	96401002	A	63.0	95.0	9.0	78.0	73.0	10.0	16.0	-	M8x1	8.0	0.08	3	40.7	75.0
KGMF-D-4010-RH	96401003	B2	63.0	93.0	9.0	78.0	71.0	16.0	14.0	70.0	M8x1	8.0	0.08	3	40.7	75.0
KGMF-D-4020-RH-70	96402004	B2	63.0	93.0	9.0	78.0	70.0	16.0	14.0	70.0	M8x1	8.0	0.08	4	33.7	75.9
KGMF-D-4020-RH-80	96402005	B2	63.0	93.0	9.0	78.0	80.0	16.0	14.0	70.0	M8x1	8.0	0.08	4	33.7	75.9
KGMF-W-5010-RH	96501002	A	72.0	110.0	11.0	90.0	97.0	10.0	18.0	-	M8x1	8.0	0.08	5	71.3	160.7
KGMF-D-5010-RH	96501003	B2	75.0	110.0	11.0	93.0	95.0	16.0	16.0	85.0	M8x1	8.0	0.08	5	71.3	160.7
KGMF-W-6310-RH	96631002	A	85.0	125.0	11.0	105.0	99.0	10.0	20.0	-	M8x1	8.0	0.08	5	81.6	213.9

¹Static and dynamic axial load rating in accordance with DIN ISO 3408-5

²D1 does not comply with DIN 69051

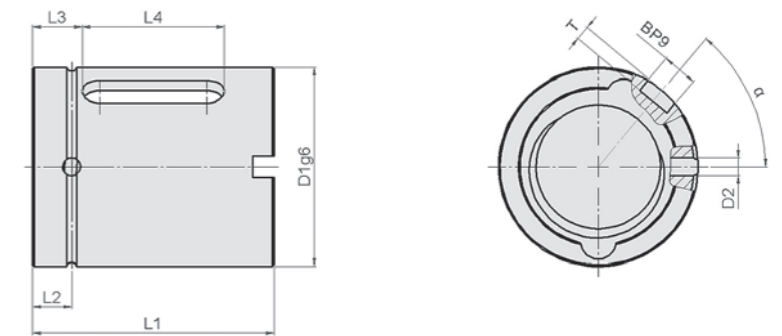
Single return for single-start ball screws

After each turn, the balls are lifted from the shaft raceway and set back by a single turn. We manufacture this internal return in one piece and in a variety of materials depending on the application.



Channel return for single-start and multiple-start ball screws

In this case, the balls are completely lifted from the screw shaft after several turns. They are returned via a recirculation channel integrated into the nut.



Cylindrical ball nuts KGMZ with single and channel return

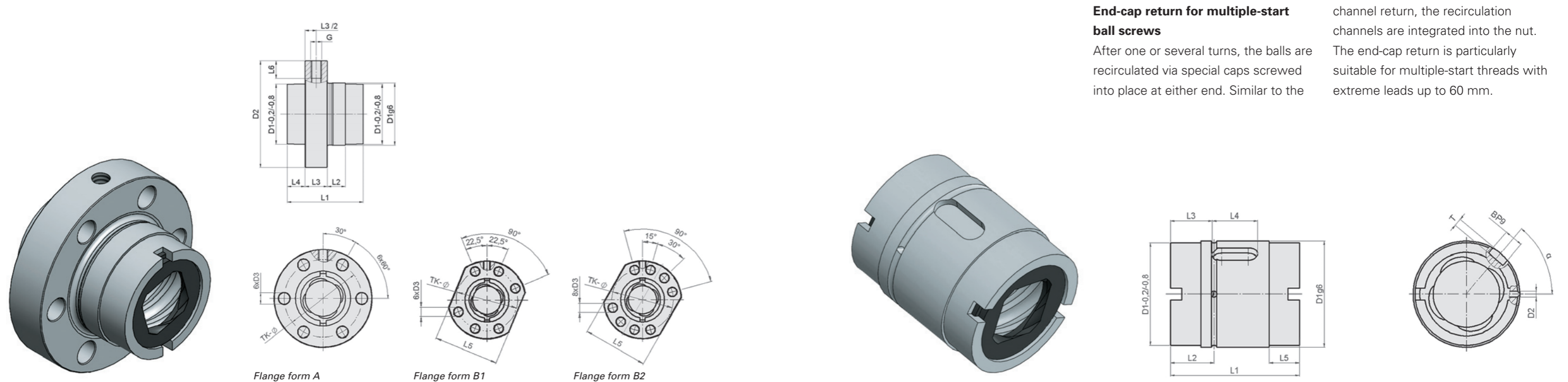
Identification Ø (mm) Lead (mm)	Article no.	Dimensions (mm)										Max. axial play (mm)	No. of circuits	Load rating (kN) ¹	
		D1	D2	L1	L2	L3	L4	α	B	T	C _{am}			C _{0.5am}	
KGMZ-W-1605-RH	96160501	28.0	2.5	34.0	7.0	7.0	20.0	120°	5.0	2.0	0.08	3	9.3	12.9	
KGMZ-D-1610-RH	96161002	28.0	2.5	50.0	7.0	15.0	20.0	0°	5.0	2.0	0.08	6	17.7	25.8	
KGMZ-D-1616-RH	96161602	28.0	2.5	45.0	7.0	12.5	20.0	0°	5.0	2.0	0.08	4	9.9	15.6	
KGMZ-W-2005-RH	96200501	32.0	2.5	34.0	7.0	7.0	20.0	120°	5.0	2.0	0.08	3	11.2	18.0	
KGMZ-D-2005-RH	96200504	36.0	2.5	34.0	7.0	7.0	20.0	120°	5.0	2.0	0.08	3	11.2	18.0	
KGMZ-W-2505-RH	96250505	38.0	2.5	34.0	7.0	7.0	20.0	120°	5.0	2.0	0.08	3	12.7	23.1	
KGMZ-D-2505-RH	96250508	40.0	2.5	34.0	7.0	7.0	20.0	120°	5.0	2.0	0.08	3	12.7	23.1	
KGMZ-D-2510-RH	96251007	40.0	2.5	45.0	6.0	12.5	20.0	0°	5.0	2.0	0.08	6	23.6	48.4	
KGMZ-W-3205-RH	96320501	45.0	2.5	45.0	7.5	8.0	30.0	120°	6.0	2.5	0.08	5	23.0	53.4	
KGMZ-D-3205-RH	96320504	50.0	2.5	45.0	7.5	8.0	30.0	120°	6.0	2.5	0.08	5	23.0	53.4	
KGMZ-W-3210-RH	96321001	53.0	4.0	60.0	10.0	15.0	30.0	0°	6.0	2.5	0.08	3	35.9	59.1	
KGMZ-D-3220-RH	96322004	53.0 ²	3.0	70.0	7.5	20.0	30.0	0°	6.0	2.5	0.08	4	29.7	58.3	
KGMZ-W-4005-RH	96400501	53.0	2.5	45.0	7.5	8.0	30.0	120°	6.0	2.5	0.08	5	25.5	68.4	
KGMZ-D-4005-RH	96400504	63.0	2.5	45.0	7.5	8.0	30.0	120°	6.0	2.5	0.08	5	25.5	68.4	
KGMZ-D-4010-RH	96401001	63.0	4.0	60.0	10.0	15.0	30.0	0°	6.0	2.5	0.08	3	40.7	75.0	
KGMZ-D-4020-RH	96402003	63.0	2.5	70.0	7.5	20.0	30.0	0°	6.0	2.5	0.08	4	33.7	75.9	
KGMZ-W-5010-RH	96501001	72.0	4.0	82.0	11.0	23.0	36.0	0°	6.0	2.5	0.08	5	71.3	160.7	
KGMZ-W-6310-RH	96631001	85.0	4.0	82.0	11.0	23.0	36.0	0°	6.0	2.5	0.08	5	81.6	213.9	

¹Static and dynamic axial load rating in accordance with DIN ISO 3408-5

²D1 does not comply with DIN 69051

WELL ENGINEERED

ball nuts with end-cap return.



End-cap return for multiple-start ball screws

After one or several turns, the balls are recirculated via special caps screwed into place at either end. Similar to the

channel return, the recirculation channels are integrated into the nut. The end-cap return is particularly suitable for multiple-start threads with extreme leads up to 60 mm.

Flanged ball nuts KGMP with end-cap return

Identification Ø (mm) Lead (mm)	Article no.	Flange form	Dimensions (mm)											Max. axial play (mm)	No. of circuits	Load rating (kN) ¹	
			D1	D2	D3	TK-φ	L1	L2	L3	L4	L5	G	L6			C _{st}	C _{dyn}
KGMP-W-1620-RH	96162002	A	28.0	48.0	5.5	38.0	30.0	4.0	10.0	8.0	-	M6	8.0	0.08	4	10.3	14.7
KGMP-W-2020-RH	96202002	A	35.0	62.0	7.0	50.0	30.0	4.0	10.0	8.0	-	M6	8.0	0.08	4	12.4	19.9
KGMP-W-2050-RH	96205002	A	35.0	62.0	7.0	50.0	56.0	30.0	10.0	8.0	-	M6	8.0	0.08	5	13.9	26.6
KGMP-D-2510-RH	96251002	B1	40.0	62.0	6.6	51.0	45.0	15.0	10.0	10.0	48.0	M6	8.0	0.08	6	22.0	43.6
KGMP-D-2520-RH	96252002	B1	40.0	62.0	6.6	51.0	35.0	4.0	10.0	10.5	48.0	M6	8.0	0.08	4	14.5	26.8
KGMP-D-2525-RH	96252502	B1	40.0	62.0	6.6	51.0	35.0	9.0	10.0	8.0	48.0	M6	8.0	0.08	5	17.2	33.0
KGMP-D-2550-RH	96255002	B1	40.0	62.0	6.6	51.0	58.0	10.0	10.0	10.0	48.0	M6	8.0	0.08	5	15.9	32.6
KGMP-W-3220-RH	96322002	A	53.0	80.0	7.0	68.0	55.0	19.0	16.0	10.0	-	M6	8.0	0.08	8	30.2	71.0
KGMP-W-3240-RH	96324002	A	53.0	80.0	7.0	68.0	45.0	14.0	16.0	7.5	-	M6	8.0	0.08	4	15.5	33.6
KGMP-W-3260-RH	96326002	A	53.0	80.0	7.0	68.0	68.0	16.0	16.0	10.0	-	M6	8.0	0.08	6	19.8	46.6
KGMP-D-4020-RH	96402002	B2	63.0	93.0	9.0	78.0	70.0	40.25	14.0	10.0	70.0	M8x1	8.0	0.08	6	42.1	94.1
KGMP-D-4040-RH	96404002	B2	63.0	93.0	9.0	78.0	85.0	16.0	14.0	7.5	²	M8x1	8.0	0.08	8	36.1	104.2
KGMP-D-5020-RH	96502002	B2	85.0	125.0	11.0	103.0	80.0	38.75	18.0	18.25	95.0	M8x1	8.0	0.08	6	79.9	181.6

¹Static and dynamic axial load rating in accordance with DIN ISO 3408-5

² Flange round

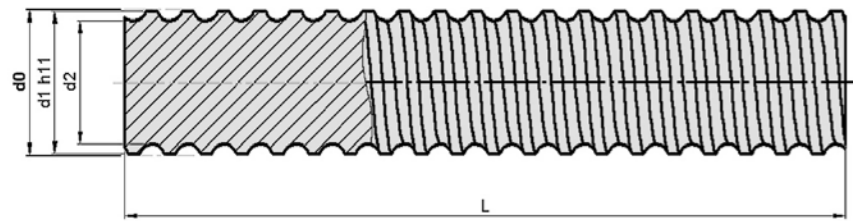
Cylindrical ball nuts KGMZ with end-cap return

Identification Ø (mm) Lead (mm)	Article no.	Dimensions (mm)											Max. axial play (mm)	No. of circuits	Load rating (kN) ¹	
		D1	D2	L1	L2	L3	L4	L5	α	B	T	C _{st}			C _{dyn}	
KGMZ-W-1620-RH	96162001	28.0	1.5	30.0	10.0	9.0	12.0	8.0	157.5°	5.0	2.0	0.08	4	10,3	14,7	
KGMZ-W-2020-RH	96202001	35.0	1.5	30.0	11.5	9.0	12.0	8.0	112.5°	5.0	3.0	0.08	4	12,4	19,9	
KGMZ-W-2050-RH	96205001	35.0	1.5	56.0	14.0	18.0	20.0	8.0	162°	5.0	2.0	0.08	5	13,9	26,6	
KGMZ-D-2510-RH	96251001	40.0	1.5	45.0	13.5	12.5	20.0	10.0	90°	5.0	2.0	0.08	6	22,0	43,6	
KGMZ-D-2520-RH	96252001	40.0	1.5	35.0	14.0	11.5	12.0	10.5	202.5°	5.0	3.0	0.08	4	14,5	26,8	
KGMZ-D-2525-RH	96252501	40.0	1.5	35.0	11.5	11.0	13.0	8.0	162°	5.0	3.0	0.08	5	17,2	33,0	
KGMZ-D-2550-RH	96255001	40.0	1.5	58.0	17.0	19.0	20.0	10.0	162°	5.0	3.0	0.08	5	15,9	32,6	
KGMZ-W-3220-RH	96322001	53.0	1.5	55.0	16.0	17.5	20.0	10.0	202.5°	6.0	4.0	0.08	8	30,2	71,0	
KGMZ-W-3240-RH	96324001	53.0	1.5	45.0	16.0	12.5	25.0	7.5	202.5°	6.0	4.0	0.08	4	15,5	33,6	
KGMZ-W-3260-RH	96326001	53.0	1.5	68.0	15.5	21.5	25.0	10.0	255°	6.0	2.5	0.08	6	19,8	46,6	
KGMZ-D-4020-RH	96402001	63.0	1.5	70.0	15.0	20.0	30.0	10.0	270°	6.0	2.5	0.08	6	42,1	94,1	
KGMZ-D-4040-RH	96404001	63.0	1.5	85.0	15.0	27.5	30.0	7.5	202.5°	6.0	3.5	0.08	8	36,1	104,2	
KGMZ-D-5020-RH	96502001	85.0	1.5	73.5	16.75	21.75	30.0	11.75	270°	6.0	2.5	0.08	6	79,9	181,6	

¹Static and dynamic axial load rating in accordance with DIN ISO 3408-5

PRECISION

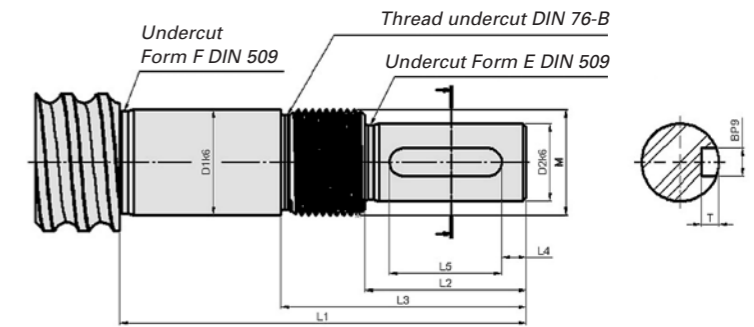
machining of ball screw.



Ball screws KGS

Identification Ø (mm) Lead (mm), Pitch	Ball size (mm)	Dimensions (mm)				Distributed load (kg/m)	Geometrical moment of inertia (10 ⁴ mm ⁴)	Section modulus ¹ (10 ³ mm ³)	Mass moment of inertia (kg m ² /m)
		d ₀	d ₁	d ₂	L _{max}				
KGS-1605	3.5	16	15.5	12.9	5600	1.26	0.136	0.211	3.21*10 ⁻⁵
KGS-1610-P5	3.0	16	15.4	13.0	5600	1.26	0.140	0.216	3.21*10 ⁻⁵
KGS-1616-P8	3.0	16	15.4	13.0	5600	1.26	0.140	0.216	3.21*10 ⁻⁵
KGS-1620-P5	3.5	16	15.6	13.0	5600	1.26	0.140	0.216	3.21*10 ⁻⁵
KGS-2005	3.5	20	19.5	16.9	5600	2.04	0.400	0.474	8.46*10 ⁻⁵
KGS-2020-P5	3.5	20	19.5	16.9	5600	2.04	0.400	0.474	8.46*10 ⁻⁵
KGS-2050-P10	3.5	20	19.1	16.5	5600	2.04	0.364	0.441	8.46*10 ⁻⁵
KGS-2505	3.5	25	24.5	21.9	5600	3.33	1.129	1.031	2.25*10 ⁻⁴
KGS-2510-P5	3.5	25	24.5	21.9	5600	3.33	1.129	1.031	2.25*10 ⁻⁴
KGS-2520-P5	3.5	25	24.6	22.0	5600	3.33	1.150	1.045	2.25*10 ⁻⁴
KGS-2525-P5	3.5	25	24.5	21.9	5600	3.33	1.129	1.031	2.25*10 ⁻⁴
KGS-2550-P10	3.5	25	24.1	21.5	5600	3.33	1.049	0.976	2.25*10 ⁻⁴
KGS-3205	3.5	32	31.5	28.9	5600	5.62	3.424	2.370	6.43*10 ⁻⁴
KGS-3210	7.144	32	32.7	27.3	5600	5.62	2.727	1.998	6.43*10 ⁻⁴
KGS-3220-P10	3.5	32	31.2	28.6	5600	5.62	3.284	2.297	6.43*10 ⁻⁴
KGS-3220-P10	5.0	32	31.7	27.9	5600	5.62	2.974	2.132	6.43*10 ⁻⁴
KGS-3240-P10	3.5	32	30.9	28.3	5600	5.62	3.149	2.225	6.43*10 ⁻⁴
KGS-3260-P10	3.5	32	31.0	28.4	5600	5.62	3.193	2.249	6.43*10 ⁻⁴
KGS-4005	3.5	40	39.5	36.9	5600	9.01	9.101	4.933	1.65*10 ⁻³
KGS-4010	7.144	40	39.5	34.1	5600	8.42	6.637	3.893	1.41*10 ⁻³
KGS-4020-P10	5.0	40	39.7	35.9	5600	8.98	8.154	4.542	1.65*10 ⁻³
KGS-4040-P10	3.5	40	38.9	36.3	5600	8.98	8.523	4.696	1.65*10 ⁻³
KGS-5010	7.144	50	49.5	44.1	5600	13.50	18.566	8.420	3.70*10 ⁻³
KGS-5020-P10	7.144	50	49.5	44.1	5600	13.50	18.566	8.420	3.70*10 ⁻³
KGS-6310	7.144	63	62.5	57.1	5600	22.03	52.181	18.277	9.84*10 ⁻³

¹The polar section modulus is twice the section modulus



Ball screw end machining for fixed bearing

Form D	Dimensions (mm)								Bearing	
KGS	D ₁	D ₂	L ₁	L ₂	L ₃	L ₄	L ₅	M	BxT	ZKLF...2RS
Thread core diameter	12	9	55	20	32	2.5	16	M12 x1	3 x 1.8	1255
d ₂ > D ₁	15	11	58	23	35	3.5	16	M15 x 1	4 x 2.5	1560
	20	14	70	30	44	4	22	M20 x 1	5 x 3	2068
	25	19	82	40	57	6	28	M25 x 1.5	6 x 3.5	2575
	30	24	92	50	67	7	36	M30 x 1.5	8 x 4	3080

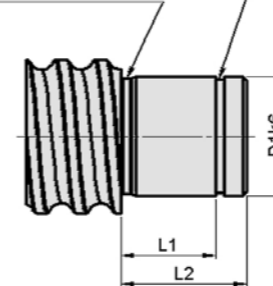
Form F	Dimensions (mm)								Bearing	
KGS	D ₁	D ₂	L ₁	L ₂	L ₃	L ₄	L ₅	M	BxT	ZKLF...2RS
Thread core diameter	15	11	73	23	35	3.5	16	M15 x 1	4 x 2.5	1545
d ₂ > D ₁	20	14	88	30	45	4	22	M20 x 1	5 x 3	2052
	20	14	107	30	50	4	22	M20 x 1	5 x 3	2062
	25	19	105	40	58	6	28	M25 x 1.5	6 x 3.5	2557
	25	19	120	40	63	6	28	M25 x 1.5	6 x 3.5	2572
	35	28	145	60	82	10	40	M35 x 1.5	8 x 4	3585
	40	36	175	80	103	8.5	63	M40 x 1.5	10 x 5	4090

Form H	Dimensions (mm)								Bearing	
KGS	D ₁	D ₂	L ₁	L ₂	L ₃	L ₄	L ₅	M	BxT	ZKLF...2RS
Thread core diameter	15	11	85	23	35	3.5	16	M15 x 1	4 x 2.5	1560
d ₂ > D ₁	20	14	102	30	44	4	22	M20 x 1	5 x 3	2068
	20	14	122	30	49	4	22	M20 x 1	5 x 3	2080
	25	19	120	40	57	6	28	M25 x 1.5	6 x 3.5	2575
	25	19	135	40	63	6	28	M25 x 1.5	6 x 3.5	2590
	35	28	160	60	81	10	40	M35 x 1.5	8 x 4	35110
	40	36	195	80	105	8.5	63	M40 x 1.5	10 x 5	40115

Form J	Dimensions (mm)								Bearing	
KGS	D ₁	D ₂	L ₁	L ₂	L ₃	L ₄	L ₅	M	BxT	ZKLF...2RS
Thread core diameter	12	9	88	20	32	2.5	16	M12 x 1	3 x 1.8	12
d ₂ > D ₁	15	11	92	23	35	3.5	16	M15 x 1	4 x 2.5	15
	20	14	107	30	44	4	22	M20 x 1	5 x 3	20
	25	19	122	40	57	6	28	M25 x 1.5	6 x 3.5	25
	30	24	136	50	72	7	36	M30 x 1.5	8 x 4	30
	40	36	182	80	102	8.5	63	M40 x 1.5	10 x 5	40

Form L	Dimensions (mm)								Bearing	
KGS	D ₁	D ₂	L ₁	L ₂	L ₃	L ₄	L ₅	M	BxT	ZKLF...2RS
Thread core diameter	12	9	58	20	30	2.5	16	M12 x 1	3 x 1.8	7201 BE RS
d ₂ > D ₁	15	11	73	23	33	3.5	16	M15 x 1	4 x 2.5	7202 BE RS
	20	14	88	30	43	4	22	M20 x 1	5 x 3	7204 BE RS
	25	19	120	40	55	6	28	M25 x 1.5	6 x 3.5	7205 BE RS
	35	28	145	60	77	10	40	M35 x 1.5	8 x 4	7207 BE RS
	40	36	175	80	103	8.5	63	M40 x 1.5	10 x 5	7208 BE RS

Groove for retaining ring DIN 471
Undercut Form E DIN 509



Ball screw end machining for movable bearing

Form S	Dimensions (mm)				
KGS	D ₁	L ₁	L ₂	Spacer sleeve	Bearing
Thread core diameter	12	40	45	18 x 12,1 x 24	6001 RS
d ₂ > D ₁	15	46	51	21 x 15,1 x 28	6002 RS
	20	53	58	27 x 20,1 x 29	6004 RS
	25	53	58	32 x 25,1 x 23	6205 RS
	30	60	68	40 x 30,1 x 28	6206 RS
	40	80	88	50 x 40,1 x 44	6208 RS
	55	102	110	65 x 55,1 x 60	6211 RS

Form T	Dimensions (mm)				
KGS	D ₁	L ₁	L ₂	Inner ring	Needle bearing
Thread core diameter	12	40	45	2 IR 12x16x20	HK 1614 RS
d ₂ > D ₁	15	46	51	2 IR 15x20x23	HK 2018 RS
	20	53	58	2 LR 20x25x26,5	HK 2518 RS
	25	53	58	2 LR 25x30x26,5	HK 3018 RS
	30	60	68	2 LR 30x35x30	HK 3518 RS
	40	80	88	4 LR 40x45x20	HK 4518 RS

Form W	Abmessung (mm)			
KGS	D ₁	L ₁	L ₂	Bearing
Thread core diameter	12	8	12	6001 RS
d ₂ > D ₁	15	9	13	6002 RS
	20	12	16	6004 RS
	25	15	20	6205 RS
	30	16	21	6206 RS
	40	18	25	6208 RS
	55	21	29	6211 RS

Form G: Screw end annealed to customer's specification

Form K: Custom-made according to customer's drawing

Form A: Chamfer 2 x 45°; KGS ø12–25 mm

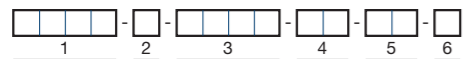
Chamfer 3 x 45°; KGS ø32–40 mm

Chamfer 4 x 45°; KGS ø50–63 mm

SIMPLE

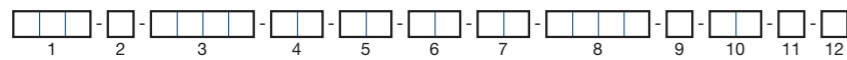
ordering by fax or online!

Ordering code for ball nuts



No.	Identification	Code	Description
1	Product abbreviation	KGMF	Flanged ball nut
		KGMZ	Cylindrical ball nut
2	Nut type	D	Nut according to standard DIN 69051
		W	Nut according to Wandel standard
		S	Nut with special dimensions
3	Thread designation		Nominal diameter/pitch, e.g. 3205
4	Pitch direction	RH	Right-hand thread (standard)
		LH	Left-hand thread (upon request)
5	Seal	0	Without wiper ring
		EE	With double-sided wiper ring
6	Special requirements	0	None
		1	According to specifications, description or drawing

Ordering code for ball screws



No.	Identification	Code	Description
1	Product abbreviation	KGT	Ball screw
2	Spindle type	R	Rolled
		W	Spun
		S	Ground
3	Thread designation		Nominal diameter/pitch, e.g. 3205
4	Lead accuracy of the spindle	T5	23µm / 300mm
		T7	50µm / 300mm
		T9	130µm / 300mm
		T10	200µm / 300mm
5	Pitch direction	RH	Right-hand thread (standard)
		LH	Left-hand thread (upon request)
6 7	Spindle end A Spindle end B	0	Ends just sawn and brushed
		A	End with chamfer
		GA	1st end annealed (state length in additional information)
		GB	2nd end annealed (state length in additional information)
		K	End according to customer or project drawing
		D	Standard end fixed bearing for bearing ZKLF
		F	Standard end fixed bearing for bearing ZARN
		H	Standard end fixed bearing for bearing ZARF/LTN
		J	Standard end fixed bearing for bearing FDX
		L	Standard end fixed bearing for angular contact ball bearing
		S	Standard end movable bearing for deep-groove ball bearing
		T	Standard end movable bearing for needle bearing
		W	Standard end movable bearing for deep-groove ball bearing
		8	Overall length
9	Special requirements spindle	0	None
		1	According to specifications, description or drawing
10	Ball nut or nut unit with installation instructions	Z	Single nut, cylindrical
		F0	Flanged single nut (flange to fixed bearing or longer end)
		0F	Flanged single nut (flange to movable bearing or shorter end)
		ZZ	Double nut unit, cylindrical/cylindrical
		FZ	Double nut unit flanged/cylindrical (flange to fixed bearing or longer end)
		ZF	Double nut unit flanged/cylindrical (flange to movable bearing or shorter end)
11	Nut type	D	Nut according to standard DIN 69051
		W	Nut according to Wandel standard
		S	Nut with special dimensions (according to drawing)
12	Special requirements for nut	0	None
		1	According to specifications, description or drawing

You can order ball nuts and ball screws quickly and easily. Using the list on the left, simply combine the appropriate ordering code by selecting each block in turn: six blocks for each ball nut; twelve blocks for each ball screw.

Enter these codes in the enclosed order form and fax it to us:

+49 7127 93293-50

Or order online:

www.wandel-cnc.com



Left: Peter Schmähl
Right: Sebastian Schropp

Peter Schmähl and Sebastian Schropp are the men to approach for the right screw ball assembly to meet your specifications.

A CAD drawing, a sketch, or an initial idea is all Peter Schmähl and Sebastian Schropp need to assist you. On the basis of over 20 years of engineering experience, they develop precisely what you need in terms of ball screw assemblies. They guarantee prompt and accurate implementation in close contact with you and our manufacturing team; you receive a sample product or the desired quantity as required.

Peter Schmähl

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*More information on
the engineering and
manufacturing of our
ball nut assemblies*



*More information
on our turned and
milled parts*



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