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Heavy Duty Ball Screws  
Diameter 32 - 125 mm

## HEAVY DUTY BALL SCREWS (ULTRA THRUST)

UltraThrust ball screws from Steinmeyer are not merely larger sizes of conventional ball screws. They have been specifically designed for the purpose of transmitting very high loads. The ball returns for example have been optimized for large ball sizes and for the specific use of such large screws. Also the robust nut body and the flange differ from conventional designs. Material selection and heat treatment take into account the special application requirements.

Please keep in mind that the extremely high static capacities of such screws are a result of the high dynamic load capacities. They are not to be mistaken as operating loads. Maximum permissible loads are defined on the following pages.

These ball screws are usually assembled either without any or with low preload.

## NOMINAL DIAMETER 32-125 MM HEAVY DUTY

Single nut



### FLANGE NUT

■ **Series 9414:**

Nut with flange, single start, with Z deflectors

Assembled with minimal clearance (Max. 0.02 mm) or very light preload (Max. 2% of dyn. Load Capacity)

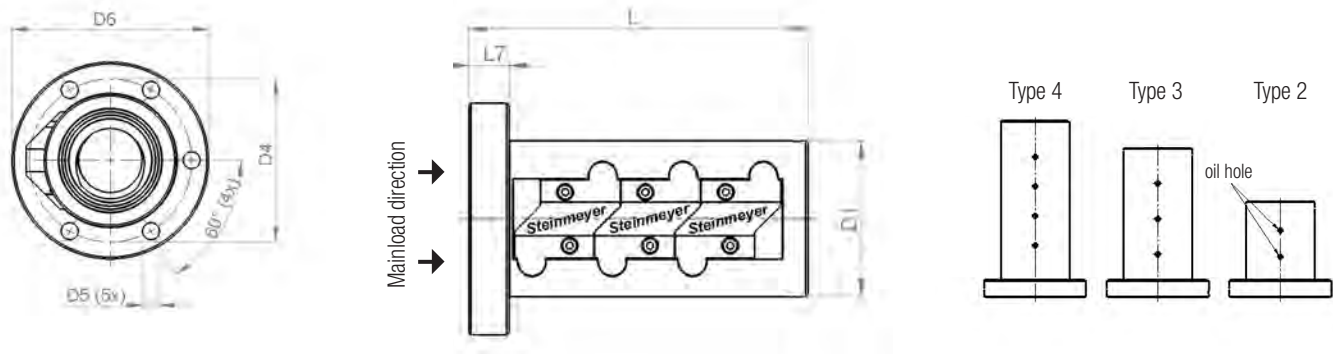
#### Allgemeine technische Daten

	Nut type	Lead P [mm]	Nominal-Ø d <sub>N</sub> [mm]	Number of deflectors	Ball-Ø d <sub>W</sub> [mm]	dyn. load rating C <sub>a</sub> [kN]	stat. load rating C <sub>0a</sub> [kN]	Shaft outer-Ø [mm]	Minor-Ø [mm]
<b>9414</b>	10.32A.7,5.6	10	32	2	7.5	107.10	182.80	32.0	26.3
	10.36A.7,5.6	10	36	2	7.5	117.00	213.50	36.0	30.3
	10.40A.7,5.9	10	40	3	7.5	182.80	377.40	40.0	34.3
	10.50A.7,5.9	10	50	3	7.5	203.40	473.80	50.0	44.3
	12.32A.9.6	12	32	2	9	132.90	217.80	32.0	25.4
	12.40A.9.9	12	40	3	9	226.80	440.00	40.0	33.4
	12.50A.9.9	12	50	3	9	252.50	545.20	50.0	43.4
	16.50A.11.9	16	50	3	11	427.90	922.00	50.0	41.9
	16.63A.11.9	16	63	3	11	493.80	1210.00	63.0	53.9
	20.63A.15.9	20	63	3	15	542.70	1128.10	63.0	50.8
	20.80A.15.9	20	80	4	15	825.60	2042.30	80.0	67.8
	20.80A.15.12	20	80	3	15	636.60	1509.50	80.0	67.8
	20.100A.15.9	20	100	3	15	708.10	1895.10	100.0	87.8
	25.125.19.9	25	125	3	19	1386.20	4052.60	124.0	107.9

1 deflector = 3 circuits (2,7 circuits)

More Ultra Thrust designs and further technical details are available on request.

**For engineering consultation or to place an order, please contact us by phone +49 (0) 7431 1288-0**



Minimum nut dimensions

Abmessungen							
	Nut length	Nut-Ø	PCD-Ø	Flange hole-Ø	Flange-Ø	Flange thickness	Lube hole
	L	D <sub>1</sub>	D <sub>4</sub>	D <sub>5</sub>	D <sub>6</sub>	L <sub>7</sub>	
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	
9414	98	58	71	6.6	85	15	Type 2: 2 x M6
	98	62	75	6.6	89	15	Type 2: 2 x M6
	135	66	82	9	100	15	Type 3: 3 x M6
	135	78	94	9	112	15	Type 3: 3 x M6
	116	66	82	9	100	18	Type 2: 2 x M6
	152	70	86	9	104	18	Type 3: 3 x M6
	152	80	96	9	114	18	Type 3: 3 x M6
	211	95	113	9	135	28	Type 3: 3 x Rc1/8
	211	105	122	9	139	28	Type 3: 3 x Rc1/8
	252	117	137	11	157	32	Type 3: 3 x Rc1/8
	310	134	154	11	174	32	Type 3: 3 x Rc1/8
	252	134	154	11	174	32	Type 4: 4 x Rc1/8
	252	154	174	11	195	32	Type 3: 3 x Rc1/8
	310	173	193	11	213	40	Type 3: 3 x Rc1/8