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Heavy Duty Ball Screws Diameter 50 - 160 mm



Oficjalny przedstawiciel Steinmeyer w Polsce
www.rollico.com

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 desired. 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 50-100 mm HEAVY DUTY

Single nut

Execution grade P0 - P5



■ **Series 3414:**
Nut with flange, single start, external return



■ **Series 1414:**
Nut with flange, single start, internal return



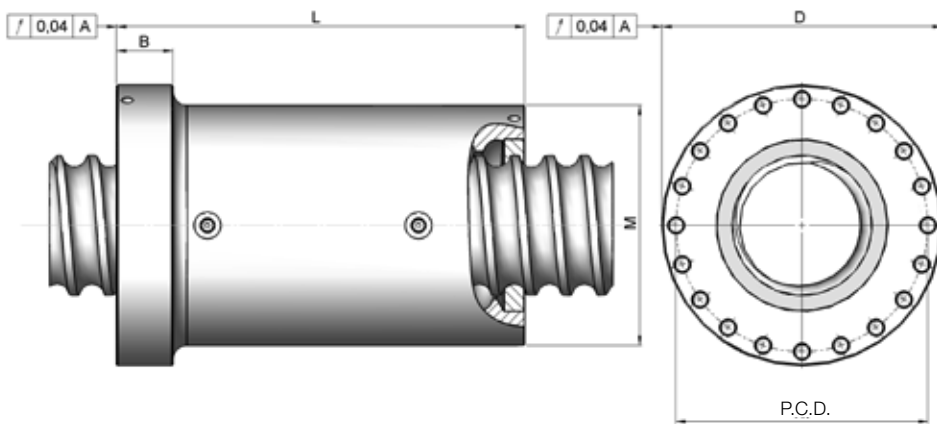
■ **Series 3424:**
Nut with flange, dual start, external return



■ **Series 1213:**
Cylindrical nut, single start, internal return

Technical data

	Nut type	Lead P [mm]	Nominal diameter d_N [mm]	No. of circuits i	Ball diameter d_w [mm]	No. of starts	dyn. load rating C_a [kN]	stat. load rating C_{0a} [kN]
3414	20.50.15.5	20	50	5	15	1	262	445.8
1414	20.63.15.6	20	63	6	15	1	337.7	612.6
	20.63.15.8	20	63	8	15	1	432.4	816.7
	25.63.19.6	25	63	6	19	1	533.5	934.5
	30.63.19.4	30	63	4	19	1	374.7	620.9
1414	20.80.15.6	20	80	6	15	1	414.6	877.5
	20.80.15.8	20	80	8	15	1	530.9	1170
	25.80.19.6	25	80	6	19	1	681.2	1377
3424	40.80.15.6	40	80	3 + 3	15	2	415.4	910.7
1414	20.100.15.8	20	100	8	15	1	606.5	1528.9
	25.100.19.6	25	100	6	19	1	837.7	1969.9
	25.100.19.8	25	100	8	19	1	1072.8	2626.5
3424	40.100.15.6	40	100	3 + 3	15	2	483.2	1218.9
1414	20.125.15.8	20	125	8	15	1	682.5	1978
1213	25.125.19.8	25	125	8	19	1	1226.5	3432.8
1213	25.160.19.8	25	160	8	19	1	1373.6	4447.2
	30.160.19.8	30	160	8	19	1	1372.7	4444.8



Dimensions

	Maximum axial load F_{max} [kN]	Nut diameter M [mm]	Nut length L [mm]	D [mm]	B [mm]	Maximum through bore diameter in nut mount [mm]	Mounting holes - tapped	Lube hole
3414	120	105	182	130	32	75	16x M8x32 on P.C.D.117	3x G1/8"
1414	210	117	222	157	32	90	12x M12x32 on P.C.D.137	3x G1/8"
	210	117	270	157	32	90	12x M12x32 on P.C.D.137	3x G1/8"
	200	117	269	157	32	90	12x M12x40 on P.C.D.137	3X G1/8"
	280	117	222	157	32	90	16x M12x32 on P.C.D.137	3X G1/8"
1414	280	130	222	170	32	105	16x M12x32 on P.C.D.150	3X G1/8"
	280	130	270	170	32	105	16x M12x32 on P.C.D.150	3X G1/8"
	250	145	277	185	40	105	20x M12x40 on P.C.D.165	3X G1/8"
3424	280	145	173	185	40	105	16x M12x32 on P.C.D.150	3X G1/8"
1414	300	145	265	185	32	125	20x M12x32 on P.C.D.165	3X G1/8"
	300	159	272	199	40	125	20x M12x25 on P.C.D.179	3X G1/8"
	300	159	331	199	40	125	20x M12x25 on P.C.D.179	3X G1/8"
3424	300	159	173	199	40	123	20x M12x32 on P.C.D.179	3X G1/8"
1414	350	173	273	213	40	150	20x M12x32 on P.C.D.193	3X G1/8"
1213	350	200	294	-(200)	-	160	10x M8x20 on P.C.D.175	2X M10X1
1213	400	250	333	-(250)	-	190	10x M10x25 on P.C.D.221	2X M10X1
	400	250	338	-(250)	-	190	20x M12x25 on P.C.D.256	2X M10X1