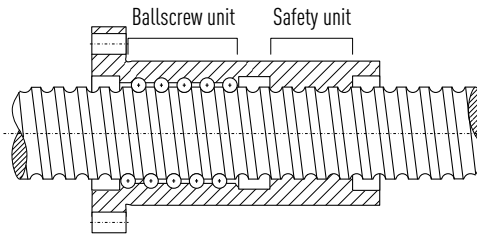
Ball screws
Ball screws for special requirements

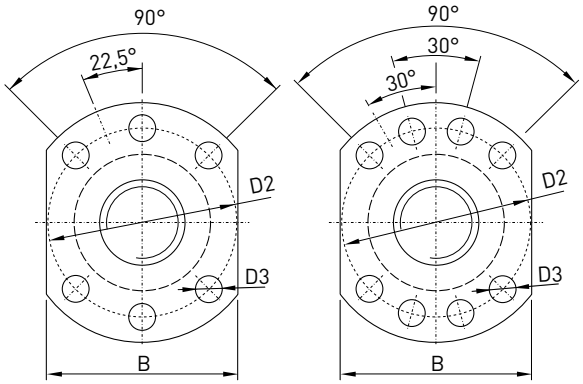
4.2 Safety nut SEM

The safety nut comprises a ball thread unit and safety unit. The safety nut basically works like a normal ballscrew nut. If the axial play is increased due to wear, ball failure or ball loss, the thread of the safety unit comes into contact with the ball thread. The nut cannot therefore break out. The normal function of the unit is guaranteed up to an axial play of 0.4 mm.



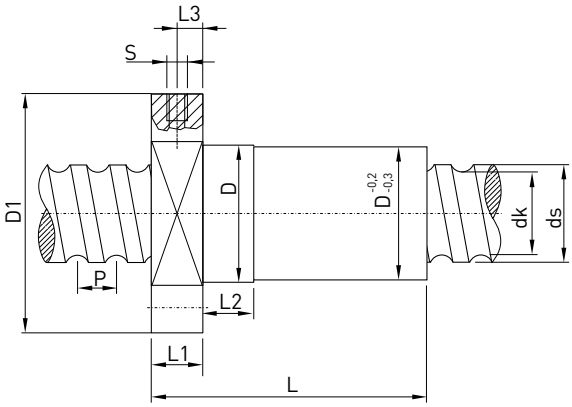
Areas of application:
- Lifting equipment
- Clamping fixtures
- Lifting platforms
- Elevators





Hole pattern 1
ds ≤ 32

Hole pattern 2
ds > 32



Nut type	ds	P	D g7	D1	D2	D3	Hole pattern	L	L1	L2	L3	S	L4	dk	C_{dyn} [N]	C_0 [N]
SEM3210-R-4EF	32	10	56	86	70	9	1	130	15	16	7.5	M6	66	27.8	40900	63200
SEM4010-R-4EF	40	10	63	93	78	9	2	130	15	16	7.5	M8x1	70	35.8	46800	82500
SEM4020-R-2EB	40	20	63	93	78	9	2	140	15	16	7.5	M8x1	70	35.8	23800	36400
SEM5010-R-5EF	50	10	75	110	93	11	2	145	16	16	8.0	M8x1	85	45.8	63900	133300
SEM6320-R-4EF	63	20	95	135	115	13.5	2	205	20	25	10.0	M8x1	100	55.4	105000	250000
SEM8020-R-5EF	80	20	125	168	145	13.5	2	230	25	25	12.5	M8x1	130	72.4	161500	398000

Dimensions in [mm]

○ Accuracy class P5 and P7