

6.1.2.5 Self-locking precision nut type

Self-locking precision nuts are required for the assembly and adjustment of the preload of fixed bearings of ball screw drives for low and medium loads. We recommend the use of SNR precision nuts type PRN (Figure 6.20).

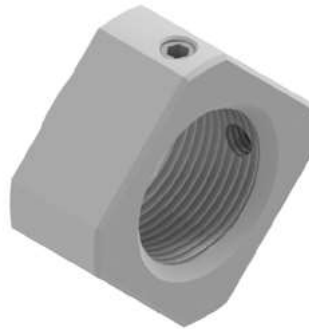


Figure 6.20__ Self-locking precision nut PRN

The precision nuts are fixed using 2 radially arranged set screws. These cause the blocking elements made of a soft material to lock into the thread of the end machining. The dimensions and tightening torque for the self-locking precision nuts type PRN are summarized in Figure 6.21, Table 6.20

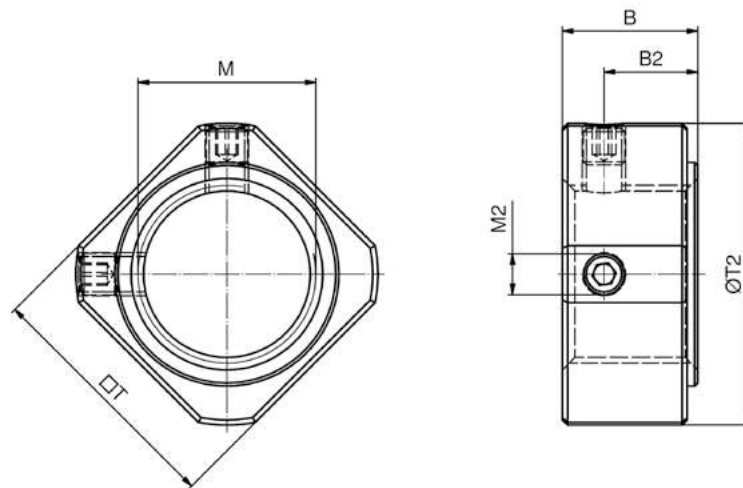


Figure 6.21 __ Dimension self-locking precision nut PRN

Table 6.20 __ Dimension and tightening torque for self-locking precision nut PRN

Type	ID Number	T	T ₂	L	L ₂	M	M _a	M ₂	M _{bl}	Mass
		[mm]	[mm]	[mm]	[mm]		[Nm]		[Nm]	
PRN06	485664	12	13,5	5,0	2,70	M6x0,75	2,5	M3x0,5	0,6	0,006
PRN08	485665	14	16,0	6,5	4,00	M8x1,0	5,0	M3x0,5	0,6	0,010
PRN10	485666	16	19,0	8,0	5,50	M10x1,0	9,5	M3x0,5	0,6	0,017
PRN12	485667	19	22,0	8,0	5,50	M12x1,0	14,0	M4x0,7	1,5	0,024
PRN15	485668	22	25,0	8,0	4,75	M15x1,0	24,0	M4x0,7	1,5	0,032
PRN17	485669	24	29,0	13,0	9,00	M17x1,0	31,5	M4	1,5	0,066
PRN20	485670	30	35,0	11,0	7,00	M20x1,0	48,0	M4	1,5	0,085
PRN25	485671	35	43,0	15,0	10,00	M25x1,5	86,0	M6	5,0	0,168
PRN30	485672	40	48,0	20,0	14,00	M30x1,5	128,0	M6	5,0	0,287
PRN35	485673	50	60,0	21,0	14,00	M35x1,5	200,0	M6	5,0	0,476
PRN40	485674	50	62,0	25,0	18,00	M40x1,5	300,0	M6	5,0	0,584

M_a Tightening torque for M
M_{bl} Tightening torque for M₂