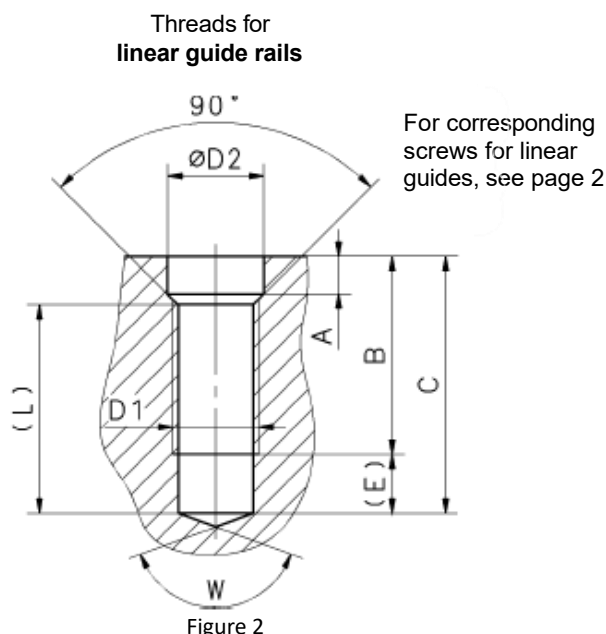
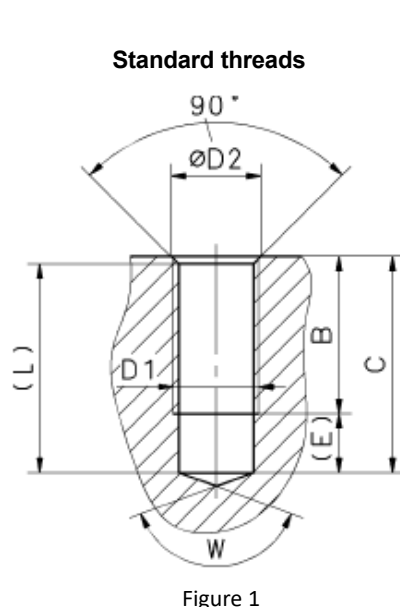


Threaded holes ranging from M3 to M24 are produced using special step drills. With these tools, the "L" dimension is fixed and therefore cannot be freely selected. In the future (where structurally feasible), all threaded holes must be designed as shown below:

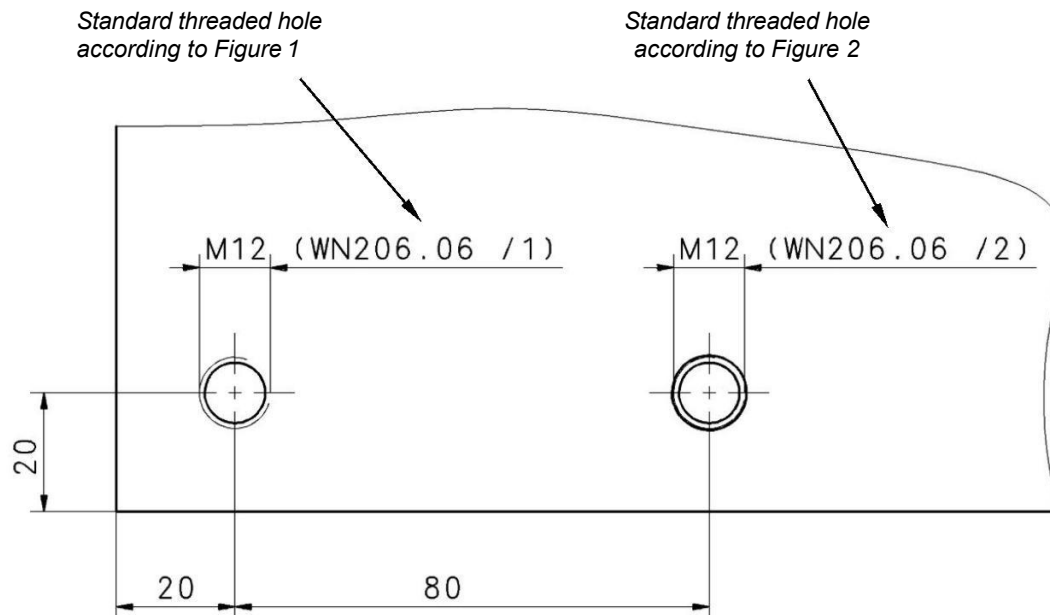
For standard threaded holes (according to Figures 1 and 2), only the position and nominal thread diameter (with a reference to the design according to Figure 1 or Figure 2) need to be dimensioned in the technical drawing. An example of how to enter this information in the drawing is provided on page 2. If dimension "A" is insufficient for other applications (except for linear guides), it may be increased in whole millimeters. Dimensions "B" and "C" will then increase accordingly. Such non-standard threaded holes and **threads > M24** must be fully dimensioned. The countersink is generally not shown in the drawing.



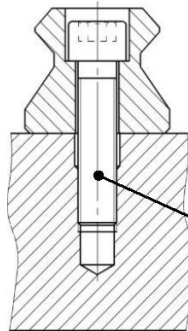
	D1	D2	A	B	C	E	L	W
		[mm]						
Figure 1	M3	3.3	-	6.2	9.2	3	8.8	118°
	M4	4.5		8	12	4	11.4	
	M5	5.4		9.7	14.2	4.5	13.6	
	M6	6.4		11.7	17.2	5.5	16.5	
	M8	8.4		14.8	21.8	7	21	
	M10	10.5		19	26.5	7.5	25.5	
	M12	12.6		22.7	31.2	8.5	30	
	M14	14.8		26.4	36.4	10	35	
	M16	16.8		30.4	40.4		39	
	M20	21.1		37.3	49.3	12	47.5	
	M24	25.2		44.1	58.1	14	56	
Figure 2	M6	6.6	3	14.5	20.3	5.8	16.5	140°
	M8	9	4	19	26.1	7.1	21	
	M10	11		22.8	30.8	8	25.5	
	M12	14	5	28.4	36.9	8.5	30	
	M14	16	6	33	43	10	35	
	M16	18	7	38	48		39	

Note the ISO 16016 safety note!

Drawing entry: (Example)



Screws for fastening linear guide rails:



Size	Manufacturer	Rail + hole = max. screw length	Screw DIN 912
25	INA	$11.8 + 14.5 = 26.3$	M6 x 25 2.00912.06.025.0
	Star	$14.3 + 14.5 = 28.8$	
	THK		
35	INA	$17.5 + 19.0 = 36.5$	M8 x 35 2.00912.08.035.0
	Star	$19.4 + 19.0 = 38.4$	
	THK		
45	INA	$19.5 + 28.4 = 47.9$	M12 x 45 2.00912.12.045.0
	Star	$22.4 + 28.4 = 50.8$	
	THK	$20.0 + 28.4 = 48.4$	
55	INA	$22.5 + 33.0 = 55.5$	M14 x 55 2.00912.14.055.0
	Star	$28.7 + 33.0 = 61.7$	
	THK	$23.0 + 33.0 = 56.0$	
65	INA	$28.8 + 38.0 = 66.8$	M16 x 65 2.00912.16.065.0
	Star	$36.5 + 38.0 = 74.5$	
	THK	$32.0 + 38.0 = 70.0$	
55/85	INA	$31.2 + 28.4 = 59.6$	M12 x 55 2.00912.12.055.0
	Star	$28.7 + 28.4 = 57.1$	
65/100	INA	$39.0 + 33.0 = 72.0$	M14 x 70 2.00912.14.070.0
	Star	$39.0 + 33.0 = 72.0$	
	THK	$38.0 + 33.0 = 71.0$	