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January 1981

Grub screws with thrust point

6332

Gewindestifte mit Druckzapfen

As it is current practice in standards published by the International Organization for Standardization (ISO), the comma has been used throughout as a decimal marker.

Dimensions in mm

Field of application and purpose

Grub screws with thrust point combined with operating elements, wing nuts or knurled nuts are clamping screws which are suitable both for clamping by means of the thrust point and also for clamping by means of a thrust pad according to DIN 6311 attached to the thrust point.

2 Other relevant standards

DIN 78

Thread ends, lengths of projection of thread ends, for ISO metric threads according to DIN 13 Bolts, screws, nuts and similar threaded and formed parts; technical delivery conditions, types

DIN 267 Part 2

and dimensional accuracy

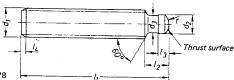
DIN 427

Slotted headless screws with chamfered end DIN ISO 898 Part 1 Mechanical properties of fasteners; bolts; screws and studs

3 Dimensions, designation

Details left unspecified are to be selected as appropriate.

Type S suitable for accommodating thrust pads with snap ring



 $l_4 \triangleq z_1$ according to DIN 78

Designation of grub screw Type S of d_1 = M 12 and l_1 = 60 mm:

Table 1.

Grub screw DIN 6332 - S M 12 x 60

<i>d</i> ₁	M 6	M 8	M 10	M 12	M 16	M 20			
d ₂ h11	4,5	6	8	8	12	15,5			
$d_{3} = 0.1$	4	5,4	7,2	7,2	11	14,4			
r	3	5	6	6	9	- 13			
I ₂	6	7,5	9	10	12	14			
l_3	2,5	3	4,5	4,5	5	5,5			
Length I ₁	Weight (7,85 kg/dm³) kg/100 pieces								
30	0,49 —				_	_			
40	_	1,18	-	_	-	T			
50	0,84	-			_				
60	_	1,81	2,75	4,02	_	-			
80		-	3,75	5,48	9,96				
100		_		6,93	12,6	19,8			
125	_	-	-	_	16,0	24,9			
150	-	_	_	-		30,1			

Continued on pages 2 and 3

Aug 16 2001 12:09

P.02/03

Page 2 DIN 6332

4 Material

Strength category 5.8 according to DIN ISO 898 Part 1

5 Type

m according to DIN 267 Part 2

Thrust surface (dimension r) hardened, 550 to 650 HV 10

The grub screws can also be provided with a slot in accordance with DIN 427.

The designation is then e.g. for a grub screw Type S with $d_1 = M12$, $l_1 = 60$ mm and slot (Sz):

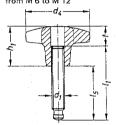
Grub screw DIN 6332 - S M 12 x 60 Sz

Examples of application

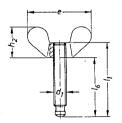
The choice of grip elements and their attachment to the grub screw is left to the user's discretion.

Clamping screw

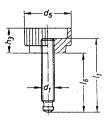
with star handle according to DIN 6335 or with machine knob according to DIN 6336 from M 6 to M 12



with wing nut according to DIN 315 from M 6 to M 10



with knurled nut according to DIN 6303 from M 6 to M 10



Further standards

DIN 99 Clamping levers

DIN 315 Wing nuts

DIN 6303 Knurled nuts

DIN 6311 Thrust pads

DIN 6335 Star handles

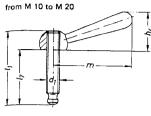
DIN 6335 Star handles
DIN 6336 Machine knobs

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Aug 16 2001 12:09 P.03/03

DIN 6332 Page 3

with clamping lever according to DIN 99 Table 2.



	i d₁	M 6	M 8	M 10	M 12	M 16	M 20		
•	Star handle according to DIN 6335	D 32	D 40	D 50	D 63	-			
	Machine knob according to DIN 6336	D 32	D 40	D 50	D 63	_	_		
	Wing nut according to DIN 315	M 6	м 8	M 10	-	_			
	Knurled nut according to DIN 6303	АМ6	АМ8	AM 10	_	_	_		
	Clamping lever according to DIN 99	-	-	E 13 x M 10	E 16 x M 12	E 20 x M 16	E 25 x M 20		
	Thrust pad according to DIN 6311	S 12	S 16	S 20	S 25	S 32	S 40		
L	d ₄	32	40	50	63	_	_		
	d ₅	24	30	36	_				
	e	32	40	50	-	. –	_		
1	h ₁	20	25	32	40	-			
1	h ₂	16	20	25	_	_	_		
	h ₃	14	17	20	-				
-	h ₄ ≈	$h_4 \approx 38$		38	47	59	76		
-	<i>l</i> ₅ ≈	2,2	3	3,6	4,5	5,3	5,6		
L	<i>m</i> ≈			76	95	118	152		
L	t	10	12	16	20				

Clamping screws with thrust pad

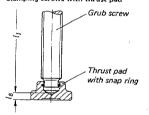


Table 3.	Ta	ble	: 3.
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<i>I</i> ₁	l₅ at d₁			l_6 at d_1			l_7 at d_1				
	M 6	M 8	M 10	M 12	M6	M 8	M 10	M 10	M 12	M 16	M 20
30	20	_	-	_	22	_	_	_	_	 _ _ _ _ _ _ _ _ 	
40	_	27	_	_		30					-
50	40	_	-	_	42	_					-
60		47	44	40	_	50	48	45	41		<u> </u>
80	_	_	64	60	_		68	65	61	55	- -
100	_	-	_	80	_		_		81	75	69
125	-	-	_	_		_				100	94
150	-	-	_							200	119