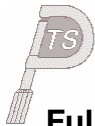




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Contents

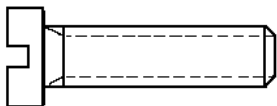
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Slotted Cheese Head Machine Screws - Din 84



Dimensional Data

Diameter	M1.0	M1.2	M1.4	M1.6	M2.0	M2.5	M3.0	M3.5
Pitch	0.25	0.25	0.30	0.35	0.40	0.45	0.50	0.60
Head Height	0.7	0.8	0.9	1.0	1.3	1.6	2.0	2.4
Head Diameter	2.0	2.3	2.6	3.0	3.8	4.5	5.5	6.0
Slot Depth	0.25	0.30	0.40	0.45	0.60	0.70	0.85	1.0
Slot Width	0.25	0.30	0.30	0.40	0.50	0.60	0.80	1.0

Stock Range

	M1	M1.2	M1.4	M1.6	M2	M2.5	M3	M3.5
2								
3								
4								
5								
6								
8								
10								
12								
14								
16								
18								
20								
22								
25								
30								
40								
50								

Stock

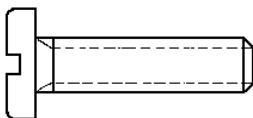


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Slotted Pan Head Machine Screws - Din 85



Dimensional Data

Diameter	M2.0	M2.5	M3	M3.5
Pitch	0.40	0.45	0.50	0.60
Head Height	1.3	1.5	1.8	3.0
Head Diameter	4	5	6	7.0
Slot Depth	0.4	0.5	0.7	1.0
Slot Width	0.6	0.6	0.8	1.0

Stock Range

	M2	M2.5	M3	M3.5
3	Stock	Stock	Stock	Stock
4	Stock	Stock	Stock	Stock
5	Stock	Stock	Stock	Stock
6	Stock	Stock	Stock	Stock
8	Stock	Stock	Stock	Stock
10	Stock	Stock	Stock	Stock
12	Stock	Stock	Stock	Stock
14	Stock	Available to Order	Stock	Available to Order
16	Stock	Available to Order	Stock	Available to Order
18	Stock	Available to Order	Available to Order	Available to Order
20	Stock	Available to Order	Available to Order	Available to Order
22	Available to Order	Available to Order	Available to Order	Available to Order
25	Stock	Stock	Stock	Stock
30	Stock	Stock	Stock	Stock
35	Stock	Stock	Stock	Available to Order
40	Stock	Stock	Stock	Stock
45	Stock	Stock	Stock	Stock
50	Stock	Stock	Stock	Stock

Stock

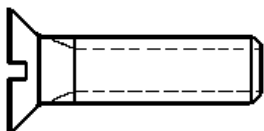


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Slotted Countersunk Machine Screws - Din 963



Dimensional Data

Diameter	M1.0	M1.2	M1.4	M1.6	M2.0	M2.5	M3.0	M3.5
Pitch	0.25	0.25	0.30	0.35	0.40	0.45	0.50	0.60
Head Height	0.7	0.8	0.9	1.0	1.3	1.5	1.9	1.9
Head Diameter	2.0	2.3	2.6	3.0	3.8	4.7	5.5	6.5
Slot Depth	0.25	0.30	0.40	0.45	0.60	0.70	0.85	1.2
Slot Width	0.25	0.30	0.30	0.40	0.50	0.60	0.80	1.0

Stock Range

	M1	M1.2	M1.4	M1.6	M2	M2.5	M3	M3.5
2								
3								
4								
5								
6								
8								
10								
12								
14								
16								
18								
20								
22								
25								
30								
35								
40								

Stock

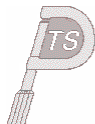
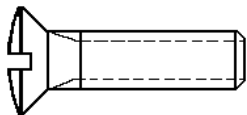
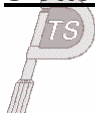


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Slotted Raised Csk Machine Screws - Din 964




Dimensional Data

Diameter	M2.0	M2.5	M3
Pitch	0.40	0.45	0.50
Head Height	1.3	1.5	1.8
Head Diameter	4	5	6
Slot Depth	0.4	0.5	0.7
Slot Width	0.6	0.6	0.8

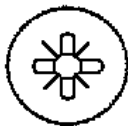
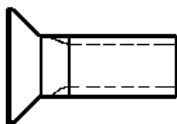
Stock Range

	M2	M2.5	M3
5			
6			
8			
10			
12			
16			
20			
25			
30			
35			
40			
45			
50			

Stock 

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Pozi Recess Countersunk Machine Screws - Din 965



Dimensional Data

Diameter	M1.6	M2	M2.5	M3	M3.5
Pitch	0.35	0.40	0.45	0.50	0.60
Head Height	0.96	1.2	1.5	1.65	1.93
Head Diameter	3	3.8	4.7	5.6	6.5
Driver Size	0	0	1	1	2

Stock Range

	M1.6	M2	M2.5	M3	M3.5
3					
4					
5					
6					
8					
10					
12					
14	Stock				Stock
16					
18	Stock				Stock
20					
22		Stock	Stock	Stock	Stock
25		Stock	Stock	Stock	Stock
30		Stock			Stock
35				Stock	
40					
50				Stock	

Stock



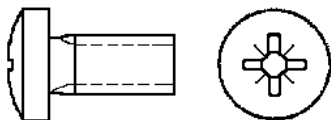
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Pozi Recess Pan Head Machine Screws - Din 7985



Dimensional Data

Diameter	M1.6	M2	M2.5	M3	M3.5
Pitch	0.35	0.40	0.45	0.50	0.60
Head Height	1.3	1.6	2	2.4	2.6
Head Diameter	3.2	4	5	6	7
Driver Size	0	0	1	1	2

Stock Range

	M1.6	M2	M2.5	M3	M3.5
3					
4					
5					
6					
8					
10					
12					
14	Available to Order				Available to Order
16					
18	Available to Order				Available to Order
20					
22		Available to Order	Available to Order		
25					
30					
35					
40					
50					

Stock

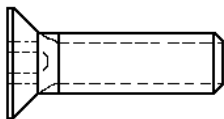


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Socket Countersunk Screws - Din 7991



Dimensional Data

Diameter	M2	M2.5	M3	M3.5
Pitch	0.40	0.45	0.50	0.6
Head Diameter	4.00	5.00	6.00	6.5
Head Height	1.24	1.55	1.70	2.10
Key Size	1.27	1.50	2.00	2.00
Key Engagement	0.65	0.80	1.20	1.30

Stock Range

	M2	M2.5	M3	M3.5
3				
4				
5				
6				
8				
10				
12				
14	Available to Order	Available to Order		Available to Order
16				
20				
22				Available to Order
25				
30				
35				
40				

Stock

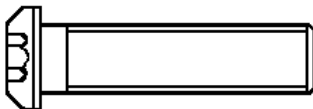


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Socket Button Head Screws - ISO 7380



Dimensional Data

Diameter	M2.0	M2.5	M3	M3.5
Pitch	0.40	0.45	0.50	0.60
Head Diameter	3.50	4.50	5.50	6.60
Head Height	1.30	1.50	1.60	1.90
Key Size	1.27	1.50	2.00	2.00
Key Engagement	0.80	1.00	1.04	1.20

Stock Range

	M2	M2.5	M3	M3.5
3				
4				
5				
6				
8				
10				
12				
14	Available to Order	Available to Order		Available to Order
16				
20				
22				Available to Order
25				
30				
35				
40				

Stock



Available to Order



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Socket Setscrews - Flat, Cone, Dog and Cup Point

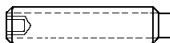
Din 913, 914, 915 and 916



Din 913



Din 914



Din 915



Din 916

Dimensional Data

Diameter	M1.6	M2	M2.5	M3	M3.5
Socket Size	0.7	0.9	1.3	1.5	1.5
Key Engagement	0.7	0.8	1.2	1.2	1.2
Flat Point Diameter	0.8	1.0	1.5	2.0	*
Dog Point Diameter	*	1.0	1.5	2.0	*
Cup Point Diameter	0.8	1.0	1.2	1.4	1.75

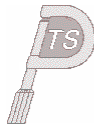
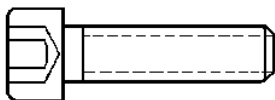
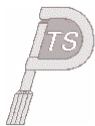
Stock Range

	M1.6	M2	M2.5	M3	M3.5
2	♣♦♥	♣♦♥			
2.5	♦	♣♦♥	♣♦♥		
3	♣♦♥	♣♦♥♠	♣♦♥♠	♣♦♥	♣
4	♣♦	♣♦♥♠	♣♦♥♠	♣♦♥♠	♣
5	♣♦	♣♦♥♠	♣♦♥♠	♣♦♥♠	♣
6	♣♦	♣♦♥♠	♣♦♥♠	♣♦♥♠	♣
8	♣	♣♦♥	♣♦♥♠	♣♦♥♠	♣
10	♣	♣♦♥	♣♦♥♠	♣♦♥♠	♣
12	♣	♣♦	♣♦	♣♦♥♠	♣
16		♣♦	♣♦	♣♦♥♠	
20				♣♦♥	
25				♣♦♥	
30				♣♦	

♣ = Din 916, ♦ = Din 913, ♥ = Din 914, ♠ = Din 915

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Socket Capscrews - Din 912



Dimensional Data

Diameter	M1.4	M1.6	M2	M2.5	M3	M3.5
Pitch	0.30	0.35	0.40	0.45	0.50	0.60
Head Diameter	2.60	3.00	3.80	4.50	5.50	6.00
Head Height (max)	1.40	1.60	2.00	2.50	3.00	3.50
Key Size	1.30	1.50	1.50	2.00	2.50	2.50
Key Engagement (min)	0.60	0.70	1.00	1.10	1.30	1.60

Stock Range

	M1.4	M1.6	M2	M2.5	M3	M3.5
2						
3						
4						
5						
6						
8						
10						
12						
14	Stock	Stock				Stock
16	Stock					
18				Available to Order		Available to Order
20						
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25			Stock			Stock
30			Stock			Stock
35						
40						
45						
50						

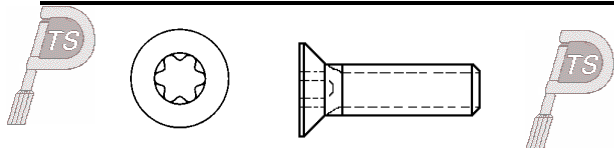
 Stock

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TX Drive Six Lobe Recess Countersunk



Dimensional Data

Diameter	M1.6	M2	M2.5	M3
Pitch	0.35	0.40	0.45	0.50
Head Diameter	3	3.8	4.7	5.6
Head Height	0.96	1.2	1.5	1.65
TX-No	T5	T6	T8	T10

Stock Range

	M1.6	M2	M2.5	M3
3	Stock	Stock	Stock	Stock
4	Stock	Stock	Stock	Stock
5	Stock	Stock	Stock	Stock
6	Stock	Stock	Stock	Stock
8	Stock	Stock	Stock	Stock
10	Stock	Stock	Stock	Stock
12	Stock	Stock	Stock	Stock
16	Stock	Stock	Stock	Stock
20	Stock	Stock	Stock	Stock
25	Stock	Stock	Stock	Stock
30	Stock	Stock	Stock	Available to Order
40	Stock	Stock	Stock	Available to Order



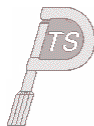
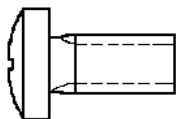
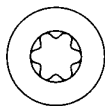
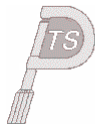
Stock



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TX Drive Six Lobe Recess Pan Head Screws



Dimensional Data

Diameter	M1.6	M2	M2.5	M3
Pitch	0.35	0.40	0.45	0.50
Head Diameter	3.2	4	5	6
Head Height	1.3	1.6	2	2.4
TX-No	T5	T6	T8	T10

Stock Range

	M1.6	M2	M2.5	M3
3				
4				
5				
6				
8				
10				
12				
16				
20				
25				
30				
35				
40				

Stock



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Slotted Set Screws - Flat & Cone Point



Din 551

Din 553

Dimensional Data

Diameter	M1.4	M1.6	M2	M2.5	M3
Pitch	0.30	0.35	0.40	0.45	0.50
Slot Width	0.20	0.25	0.25	0.40	0.40
Slot Depth (Min)	0.48	0.56	0.64	0.72	0.80
Slot Depth (Max)	0.63	0.74	0.84	0.95	1.05

Stock Range

	M1.4	M1.6	M2	M2.5	M3
2					
3					
4					
5					
6					
8					
10					
12					
16					
20					

Stock



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Hexagon Full, Hexagon Lock, Nylon Insert & Square Nuts. Din 934, Din 439, Din 985 & Din 562



Din 934



Din 985



Din 562



Dimensional Data

Diameter	M1.0	M1.2	M1.4	M1.6	M1.8	M2	M2.5	M3	M3.5
Pitch	0.25	0.25	0.30	0.35	0.35	0.40	0.45	0.50	0.60
Across Flats	2.5	3	3	3.2	3.5	4	5	5.5	6
<u>Nut Thickness (Max)</u>									
Full Nuts	0.8	1	1.2	1.3	1.4	1.6	2	2.4	2.8
Lock Nuts			1	1		1.2	1.6	1.8	2
Square Nuts				1		1.2	1.6	1.8	
<u>Nylon Insert Nuts</u>									
Hex Depth						2	2.2	2.4	2.6
Overall Height						3	3.5	4	4.5

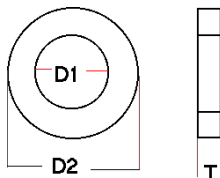
Stock Range

	M1.0	M1.2	M1.4	M1.6	M1.8	M2	M2.5	M3	M3.5
Full Nuts									
Lock Nuts									
Nylon Insert									
Square									

Stock 

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Flat Washers Din 125, Din 433, Din 9021



Dimensional Data

Screw Size	M1	M1.2	M1.4	M1.6	M2	M2.5	M3	M3.5
D1	1.1	1.3	1.5	1.7	2.2	2.7	3.2	3.7
Din 9021 D2						8.0	9.0	11.0
Din 9021 T						0.8	0.8	0.8
Din 433 D2	2.5	3.0	3.0	3.5	4.5	5.0	6.0	7.0
Din 433 T	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
Din 125A D2	3.0	3.5	4.0	4.0	5.0	6.5	7.0	8.0
Din 125A T	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5

Stock Range

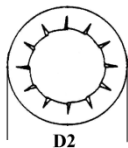
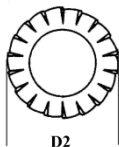
	M1.0	M1.2	M1.4	M1.6	M2	M2.5	M3	M3.5
Din 125A								
Din 433								
Din 9021								

Stock



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Lock Washers - Spring, Shakeproof Din 127, 7980, 6797 & 6798



Din 127 & 7980

Din 6798 & Din 6797 Internal & External

Dimensional Data

Screw Size MM	M2	M2.5	M3	M3.5
Din 7980 D2	4.4	4.7	5.6	6.1
Din 7980 T	0.6	0.8	1.0	1.0
Din 127 D2	4.4	5.1	6.2	6.7
Din 127 T	0.5	0.6	0.8	0.8
Din 6797 & 6798 D2	4.5	5.5	6.0	7.0
Din 6797 & 6798 T	0.3	0.4	0.4	0.8

Stock Range

Screw Size	M2	M2.5	M3	M3.5
Din 127				
Din 7980				
Din 6797				
Din 6798				

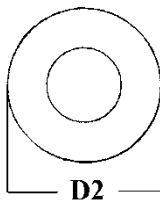
Stock

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Lock Washers - Curved & Crinkle

Din 137A & BS 4463



D2

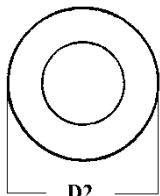
Din 137A



T



T



D2

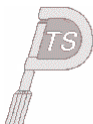
BS 4463

Dimensional Data

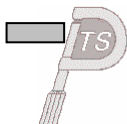
Screw Size MM	M1.2	M1.4	M1.6	M2	M2.5	M3	M3.5
Din 137A D2	3.0	3.0	4.0	4.5	5.5	6.0	7.0
Din 137A T	0.2	0.3	0.3	0.3	0.3	0.4	0.4
BS 4463 D2			3.7	4.6	5.8	6.4	8.1
BS 4463 T			0.2	0.2	0.2	0.2	0.2
BS 4463 H			0.5	0.5	0.5	0.6	0.79

Stock Range

	M1.2	M1.4	M1.6	M2	M2.5	M3	M3.5
Din 137A							
BS 4463							



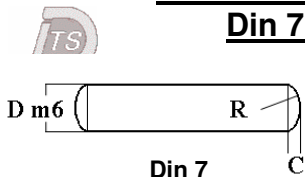
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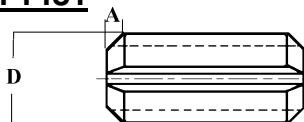
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Dowel Pins & Spring Pins

Din 7 & Din 1481



Din 7



Din 1481

Dimensional Data

Diameter (D)	1	1.5	2	2.5	3
Din 7 R	1	1.6	2	2.6	3
Din 7 C	0.15	0.23	0.3	0.4	0.45
Din 1481 D (min)	1.2	1.7	2.3	2.8	3.3
Din 1481 A	0.15	0.25	0.35	0.4	0.5
Din 1481 Material	0.2	0.3	0.4	0.5	0.6

Stock Range

	1	1.5	2	2.5	3
3	♣	♣	♣	♣	♣
4	♣♥	♣♥	♣♥	♣♥	♣♥
5	♣♥	♣♥	♣♥	♣♥	♣♥
6	♣♥	♣♥	♣♥	♣♥	♣♥
8	♣♥	♣♥	♣♥	♣♥	♣♥
10	♣♥	♣♥	♣♥	♣♥	♣♥
12	♣♥	♣♥	♣♥	♣♥	♣♥
14	♣♥	♣♥	♣♥	♣♥	♣♥
16	♣♥	♣♥	♣♥	♣♥	♣♥
20	♣♥	♣♥	♣♥	♣♥	♣♥
22			♣♥	♣♥	♣♥
24			♣♥	♣♥	♣♥
26			♣♥	♣♥	♣♥
28			♣♥	♣♥	♣♥
30			♥	♣♥	♣♥
32			♣	♣	♣♥
36					♣♥
40					♣♥

♣ = Din 7

♥ = Din 1481

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Self Tapping Screws Pozi Pan & Pozi Countersunk Type AB & B Din 7981 & 7982



Din 7981 AB



Din 7982 AB



Din 7981 B

Dimensional Data

Metric Diameter	2.2	2.9	3.5
Gauge No	2	4	6
Din 7981 Head Diameter	4.2	5.6	6.9
Din 7981 Head Height	1.8	2.2	2.6
Din 7982 Head Diameter	4.3	5.5	6.8
Din 7982 Head Height	1.3	1.7	2.1
Driver No	0	1	2

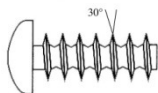
Stock Range

Size	No2 (2.2)	No4 (2.9)	No6 (3.5)
Length (mm)			
3/16 (4.5)	♣♥	♣	
1/4 (6.5)	♣♦♥	♣♦♥	♣♦♥
5/16 (8.0)	♣♦♥	♣♦♥	♣♦♥
3/8 (9.5)	♣♦♥	♣♦♥	♣♦♥
1/2 (13)	♣♦♥	♣♦♥	♣♦♥
5/8 (16)	♣	♣♦	♣♦
3/4 (19)	♣	♣♦	♣♦
1 (25)	♣	♣♦	♣♦
1.1/4 (32)			♣♦
1.1/2 (38)			♣♦

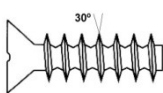
♣ = Din 7981 AB ♦ = Din 7982 AB ♥ = Din 7981 B

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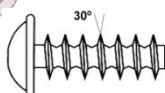
Thread Forming Screws for Plastics Polytech 30



Pozi / Tx Pan



Pozi / Tx Csk



Pozi Flange

Dimensional Data

Diameter	3	3.5	4
Pan Head			
Head Diameter - max	5.3	6.1	7.0
Head Height - max	2.0	2.5	2.7
Countersunk			
Head Diameter - max	5.5	7.3	8.4
Head Height - max	2.05	2.8	3.25
Flange			
Head Diameter - max	6.0	7.0	8.0
Head Height - max	2.1	2.4	2.5
Pozi / TX No	1 / 10	2 / 10	2 / 20

Stock Range

	3	3.5	4
6	♦ ♠		
8	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠	♣ ♦
10	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠
12	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠
14	♣ ♦	♣ ♦ ♥	♣ ♦ ♥
16	♣ ♦ ♠	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠
18	♣ ♦	♣ ♦	♣ ♦
20	♣ ♦	♣ ♦	♣ ♦
25		♣ ♦	♣ ♦

Pozi Pan = ♣

Tx Pan = ♦

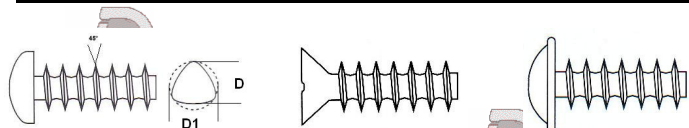
Pozi Csk = ♥

Tx Csk = ♠

Pozi Flange = •

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Thread Rolling Screws for Plastics Polyfix 45



Pozi / Tx Pan

Pozi / Tx Csk

Pozi Flange

Dimensional Data

D (max)	2.5	3	3.5	4
D1 (max)	2.55	3.05	3.55	4.06
Pan Head				
Head Diameter - max	4.00	5.00	6.00	7.00
Head Height - max	1.60	1.95	2.30	2.45
Csk Head				
Head Diameter - max		5.50	6.30	7.35
Head Height - max		1.60	1.65	1.90
Flange Head				
Head Diameter - max			6.60	8.00
Head Height - max			1.60	2.00
Pozi / TX No	1	1 / 8	1 / 10	2 / 15

Stock Range

	2.5	3	3.5	4
6	♣	♣♦♠		
8	♣	♣♦♥♠	♣♦♥♠	♣♦
10	♣	♣♦♥♠	♣♦♥♠	♣♦♥♠
12		♣♦♥♠	♣♦♥♠	♣♦♥♠
16		♣♦♠	♣♦♥♠	♣♦♥♠
20		♣♦	♣♦	♣♦
25			♣♦	♣♦

Pozi Pan = ♣

Tx Pan = ♦

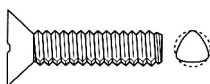
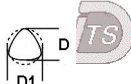
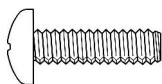
Pozi Csk = ♥

Tx Csk = ♠

Pozi Flange = ●

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Thread Rolling Screws – Din 7500



Pozi / Tx Pan

Pozi / Tx Csk

Dimensional Data

D	M2.5	M3
D1	2.57	3.07
Pan Head		
Head Diameter - max	5.00	5.60
Head Height - max	2.12	2.52
Countersunk Head		
Head Diameter - max	4.70	5.60
Head Height - max	1.50	1.65
Pozi / TX No	1 / 8	1 / 10

Stock Range

	M2.5	M3
5	♣ ♦ ♥ ♠	♣ ♦
6	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠
8	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠
10	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠
12	♣ ♦ ♥ ♠	♣ ♦ ♥ ♠
16		♣ ♦ ♥ ♠
20		♣ ♦ ♥ ♠

Pozi Pan = ♣

Tx Pan = ♦

Pozi Csk = ♥

Tx Csk = ♠

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Tapping & Threadforming Hole Size Guide

Self Tapping Screws				
Gauge No	MM	Material Thickness	Hole Size	
			Steel	Aluminium
2	2.2	0.30-0.50	1.6	1.65
		0.51-1.00	1.85	1.8
		1.01-1.50	1.95	1.9
4	2.9	0.50-1.70	2.3	2.3
		1.75-2.50	2.4	2.4
		2.51-4.00	2.5	2.4
6	3.5	0.50-1.40	2.7	2.8
		1.40-2.50	2.8	2.9
		2.51-6.00	2.9	3

Type Size	PolyTech 30		PolyFix 45	
	Soft	Hard	Soft	Hard
3.0	2.10-2.25	2.40-2.55	2.26	2.5
3.5	2.46-2.60	2.80-2.97	2.73	2.95
4.0	2.80-3.00	3.20-3.40	3.18	3.41

Thread Rolling Screws Din 7500				
Material Thickness		0.5-1.5	1.5-3.0	3.0-6.5
M2.5	Steel	2.25	2.3	2.35
	Aluminium	2.2	2.25	2.3
M3	Steel	2.7	2.75	2.8
	Aluminium	2.6	2.7	2.75

The information shown in this handbook is for guidance only. No liability can result from its use.

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Stainless Steel Material Properties

Stainless Steel

Stainless Steel falls into three basic material groups.

Austenitic (A)

Martensitic (M)

Ferritic (F)

Martensitic and Ferritic groups are rarely used for the production of commercial fasteners and are not included for that reason.

Austenitic or Chromium-nickel Steel is the most commonly used for fasteners and is subdivided into 3 steel grades each with its own specific properties.

A1 = Free cutting quality, superior machinability due to higher Phosphorus and Sulphur content, the general corrosion resistance is lower. Seldom used in mass produced fasteners.

Most commonly used grade of Stainless Steel also called 18/8.

A2 = Outstanding corrosion resistance under normal atmospheric conditions, wet surroundings, oxidizing and organic acids and many alkalic and salt solutions.

TS
A4 = Highest level of corrosion resistance also called "Acid Proof". Increased nickel content and the addition of molybdenum. More resistant to aggressive climates such as seawater (chlorides) and industrial (sulphur dioxide) climate and oxidizing acids.

Chemical Composition

The wide limits for the percentages of the alloying elements in ISO3506 allow for a great choice of austenitic steel types. The following table lists some of the most popular types.

Grade	Chemical Composition % ¹⁾								Type			
	C	Si	Mn	P	S	Cr	Mo ⁸⁾	Ni	W.Nr	AISI	ISO	Notes
A1	0.12	1.0	2.0	0.20	0.15-0.35	17.0-19.0	0.60	8.0-10.0	1.4305	303	17	2,3
									1.4301	304	11	3,4,6,7
A2	0.08	1.0	2.0	0.05	0.03	17.0-20.0		8.0-13.0	1.4541	321	15	5
									1.4401	316	20	3,4,6
A4	0.08	1.0	2.0	0.05	0.03	16.0-18.5	3.0	10.0-14.0	1.4571	316Ti	21	5

Notes: - 1) Maximum values unless stated otherwise. 2) Sulphur may be substituted by Selenium

3) May contain Titanium <5 x C up to 0.8%. 4) May contain Niobium and/or Tantalum > 10 x C up to 1.0%.

5) Containing Titanium >5 x C up to 0.8%. 6) May contain Copper up to 4.0%

7) Molybdenum may also be present at manufacturers option. 8) Maximum Molybdenum content may be specified by customer in certain applications.

Precision Technology Supplies Ltd
The Birches Industrial Estate
Imberhorne Lane
East Grinstead
West Sussex
RH19 1XZ
U.K.

Tel +44 (0)1342-410758
Fax: +44 (0)1342-311464

Email: info@pts-uk.com

www.pts-uk.com



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