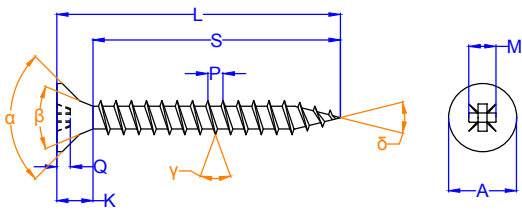


## CHIPBOARD SCREW COUNTERSUNK POZI RECESS



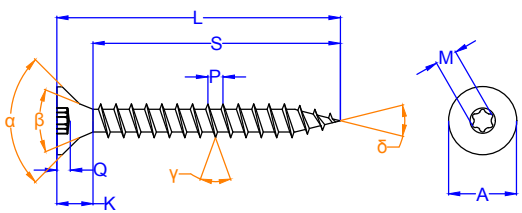
SIZE		A	K	D	P	Q	M	D1	D2
M3.0	min	5.50	2.88	2.15	1.22	1.60	PZ1	2.70	1.70
	max	6.00	3.52	2.18	1.49	2.05	3.05	3.05	2.00
M3.5	min	6.40	3.24	2.45	1.44	1.60	PZ2	3.20	2.00
	max	7.00	3.96	2.48	1.76	2.10	3.96	3.55	2.25
M4.0	min	7.40	3.83	2.80	1.62	2.05	PZ2	3.70	2.25
	max	8.00	4.68	2.83	1.98	2.50	4.42	4.10	2.60
M4.5	min	8.20	4.14	3.15	1.80	2.60	PZ2	4.20	2.45
	max	9.00	5.06	3.18	2.20	3.10	4.98	4.60	2.70
M5.0	min	9.20	4.68	3.50	1.98	3.00	PZ2	4.70	2.80
	max	10.00	5.72	3.53	2.42	3.45	5.25	5.10	3.20
M6.0	min	10.90	5.40	4.20	2.34	3.00	PZ3	5.70	3.50
	max	12.00	6.60	4.23	2.86	3.45	6.60	6.20	3.80

Length Tolerance (L) :  
 10 ~ 24 : ± 0.95      51 ~ 80 : ± 1.50  
 25 ~ 30 : ± 1.05      81 ~ 100 : ± 1.75  
 31 ~ 50 : ± 1.25

Thread Length (S) :  
 Full = (L - K)  
 Partial = (0.6 x L)

$\alpha = 88^\circ \sim 92^\circ$   
 $\beta = 40^\circ \sim 50^\circ$   
 $\gamma = 37^\circ \sim 43^\circ$   
 $\delta = 27^\circ \sim 29^\circ$

## CHIPBOARD SCREW COUNTERSUNK TORX RECESS



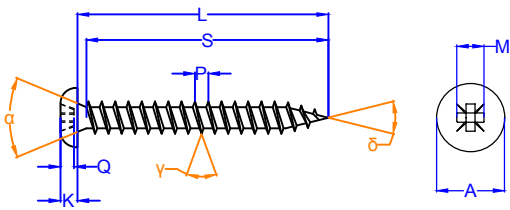
SIZE		A	K	D	P	Q	M	D1	D2
M3.0	min	5.60	2.88	2.15	1.22	1.10	TX10	2.80	1.75
	max	6.00	3.52	2.18	1.49	1.50		3.00	2.00
M3.5	min	6.60	3.24	2.45	1.44	1.10	TX10	3.30	2.00
	max	7.00	3.96	2.48	1.76	1.50		3.50	2.25
M4.0	min	7.50	3.83	2.80	1.62	1.40	TX20	3.75	2.25
	max	8.00	4.68	2.83	1.98	1.80		4.00	2.50
M4.5	min	8.50	4.14	3.15	1.80	1.60	TX20	4.25	2.45
	max	9.00	5.06	3.18	2.20	2.00		4.50	2.70
M5.0	min	9.20	4.68	3.50	1.98	2.00	TX25	4.75	2.90
	max	10.00	5.72	3.53	2.42	2.40		5.10	3.20
M6.0	min	10.90	5.40	4.20	2.34	2.00	TX30	5.80	3.60
	max	12.00	6.60	4.23	2.86	2.40		6.15	3.95

Length Tolerance (L) :  
 10 ~ 24 : ± 0.95      51 ~ 80 : ± 1.50  
 25 ~ 30 : ± 1.05      81 ~ 100 : ± 1.75  
 31 ~ 50 : ± 1.25

Thread Length (S) :  
 Full = (L - K)  
 Partial = (0.6 x L)

$\alpha = 88^\circ \sim 92^\circ$   
 $\beta = 40^\circ \sim 50^\circ$   
 $\gamma = 37^\circ \sim 43^\circ$   
 $\delta = 27^\circ \sim 29^\circ$

## CHIPBOARD SCREW PAN HEAD POZI RECESS



SIZE		A	K	D	P	Q	M	D1	D2
M3.0	min	5.60	1.60	2.15	1.22	1.60	PZ1	2.80	1.75
	max	6.00	1.90	2.18	1.49	2.05	3.17	3.00	2.00
M3.5	min	6.60	1.80	2.45	1.44	1.60	PZ2	3.30	2.00
	max	7.00	2.10	2.48	1.76	2.10	4.40	3.50	2.25
M4.0	min	7.50	2.10	2.80	1.62	2.05	PZ2	3.75	2.25
	max	8.00	2.50	2.83	1.98	2.50	4.50	4.00	2.50
M4.5	min	8.50	2.30	3.15	1.80	2.60	PZ2	4.25	2.45
	max	9.00	2.70	3.18	2.20	3.10	5.11	4.50	2.70
M5.0	min	9.50	2.60	3.50	1.98	3.00	PZ2	4.75	2.90
	max	10.00	3.00	3.53	2.42	3.45	5.18	5.10	3.20
M6.0	min	10.90	3.10	4.20	2.34	3.00	PZ3	5.80	3.60
	max	12.00	3.60	4.23	2.86	3.45	7.00	6.15	3.95

Length Tolerance (L) :

10 ~ 24 : ± 0.95

51 ~ 80 : ± 1.50

25 ~ 30 : ± 1.05

81 ~ 100 : ± 1.75

31 ~ 50 : ± 1.25

Thread Length (S) :

Full = L - (1.50 ± 0.15)

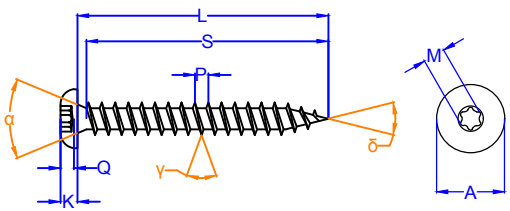
Partial = (0.6 x L)

$\alpha = 42^\circ \sim 48^\circ$

$\gamma = 37^\circ \sim 43^\circ$

$\delta = 25^\circ \sim 31^\circ$

## CHIPBOARD SCREW PAN HEAD TORX RECESS



SIZE		A	K	D	P	Q	M	D1	D2
M3.0	min	5.60	1.60	2.15	1.22	1.10	TX10	2.80	1.75
	max	6.00	1.90	2.18	1.49	1.50		3.00	2.00
M3.5	min	6.60	1.80	2.45	1.44	1.10	TX10	3.30	2.00
	max	7.00	2.10	2.48	1.76	1.50		3.50	2.25
M4.0	min	7.50	2.10	2.80	1.62	1.40	TX20	3.75	2.25
	max	8.00	2.50	2.83	1.98	1.80		4.00	2.50
M4.5	min	8.50	2.30	3.15	1.80	1.60	TX20	4.25	2.45
	max	9.00	2.70	3.18	2.20	2.00		4.50	2.70
M5.0	min	9.50	2.60	3.50	1.98	2.00	TX25	4.75	2.90
	max	10.00	3.00	3.53	2.42	2.40		5.10	3.20
M6.0	min	10.90	3.10	4.20	2.34	2.00	TX30	5.80	3.60
	max	12.00	3.60	4.23	2.86	2.40		6.15	3.95

Length Tolerance (L) :

10 ~ 24 : ± 0.95

51 ~ 80 : ± 1.50

25 ~ 30 : ± 1.05

81 ~ 100 : ± 1.75

31 ~ 50 : ± 1.25

Thread Length (S) :

Full = L - (1.50 ± 0.15)

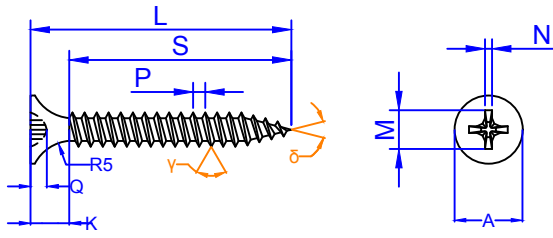
Partial = (0.6 x L)

$\alpha = 42^\circ \sim 48^\circ$

$\gamma = 37^\circ \sim 43^\circ$

$\delta = 25^\circ \sim 31^\circ$

## DRYWALL SCREW FINE THREAD PHILLIPS RECESS



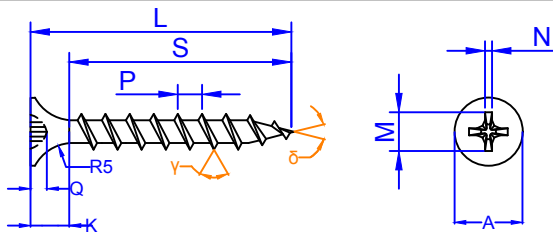
SIZE		A	K	D	P	Q	M	D1	D2
M3.5	min	7.90	4.50	2.65	1.40	2.35	4.50	3.30	2.00
	max	8.50	7.00	2.68	1.70	2.93	5.10	3.60	2.30
M3.9	min	7.90	4.50	2.80	1.40	2.35	4.50	3.70	2.25
	max	8.50	7.00	2.83	1.70	2.93	5.10	4.00	2.55
M4.2	min	7.90	4.50	3.15	1.40	2.35	4.50	4.00	2.50
	max	8.50	7.00	3.18	1.70	2.93	5.10	4.30	2.80
M4.8	min	8.80	4.50	3.80	2.10	2.60	4.50	4.70	3.05
	max	9.40	7.00	3.83	2.30	3.18	5.10	5.00	3.35

Length Tolerance (L) :  $L \pm 1.50$

Thread Length (S) :  
 Full = L - K  
 Partial :  $L < 56, S = \text{Full}$   
 $56 \geq L < 76, S = 50\text{mm}$   
 $L \geq 76, S = 60\text{mm}$

$\gamma = 57^\circ \sim 63^\circ$   
 $\delta = 20^\circ \sim 28^\circ$

## DRYWALL SCREW COARSE THREAD PHILLIPS RECESS



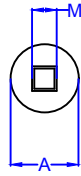
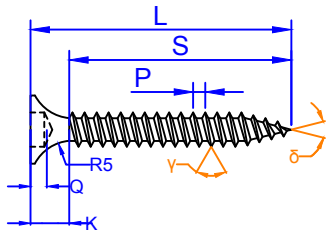
SIZE		A	K	D	P	Q	M	D1	D2
M3.5	min	7.90	4.50	2.65	2.52	2.35	4.50	3.50	2.05
	max	8.50	7.00	2.68	3.08	2.93	5.10	3.90	2.40
M3.9	min	7.90	4.50	2.80	2.52	2.35	4.50	3.80	2.20
	max	8.50	7.00	2.83	3.08	2.93	5.10	4.20	2.50
M4.2	min	7.90	4.50	3.15	2.52	2.35	4.50	4.20	2.55
	max	8.50	7.00	3.18	3.08	2.93	5.10	4.80	2.85
M4.8	min	8.80	4.50	3.80	2.79	2.60	4.50	4.90	3.05
	max	9.40	7.00	3.83	3.41	3.18	5.10	5.35	3.35

Length Tolerance (L) :  $L \pm 1.50$

Thread Length (S) :  
 Full = L - K  
 Partial :  $L < 56, S = \text{Full}$   
 $56 \geq L < 76, S = 50\text{mm}$   
 $L \geq 76, S = 60\text{mm}$

$\gamma = 57^\circ \sim 63^\circ$   
 $\delta = 20^\circ \sim 28^\circ$

## DRYWALL SCREW FINE THREAD SQUARE RECESS



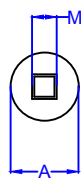
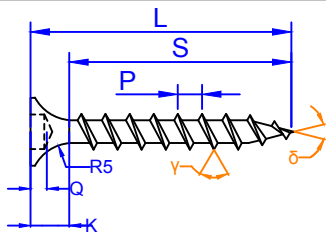
SIZE		A	K	D	P	Q	M	D1	D2
M3.5	min	7.90	4.50	2.65	1.40	1.53	2.85	3.30	2.00
	max	8.50	7.00	2.68	1.70	1.90	2.88	3.60	2.30
M3.9	min	7.90	4.50	2.80	1.40	1.53	2.85	3.70	2.25
	max	8.50	7.00	2.83	1.70	1.90	2.88	4.00	2.55
M4.2	min	7.90	4.50	3.15	1.40	1.53	2.85	4.00	2.50
	max	8.50	7.00	3.18	1.70	1.90	2.88	4.30	2.80
M4.8	min	8.80	4.50	3.80	2.10	1.53	2.85	4.70	3.05
	max	9.40	7.00	3.83	2.30	1.90	2.88	5.00	3.35

Length Tolerance (L) :  $L \pm 1.50$

Thread Length (S) :  
 Full = L - K  
 Partial :  $L < 56, S = \text{Full}$   
 $56 \geq L < 76, S = 50\text{mm}$   
 $L \geq 76, S = 60\text{mm}$

$\gamma = 57^\circ \sim 63^\circ$   
 $\delta = 20^\circ \sim 28^\circ$

## DRYWALL SCREW COARSE THREAD SQUARE RECESS



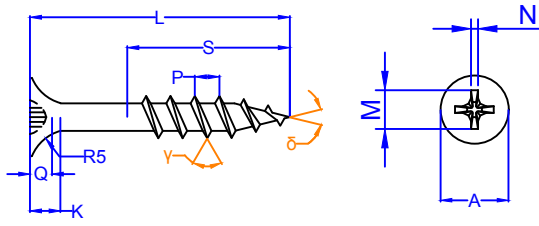
SIZE		A	K	D	P	Q	M	D1	D2
M3.5	min	7.90	4.50	2.65	2.52	1.53	2.85	3.50	2.05
	max	8.50	7.00	2.68	3.08	1.90	2.88	3.90	2.40
M3.9	min	7.90	4.50	2.80	2.52	1.53	2.85	3.80	2.20
	max	8.50	7.00	2.83	3.08	1.90	2.88	4.20	2.50
M4.2	min	7.90	4.50	3.15	2.52	1.53	2.85	4.20	2.55
	max	8.50	7.00	3.18	3.08	1.90	2.88	4.80	2.85
M4.8	min	8.80	4.50	3.80	2.79	1.53	2.85	4.90	3.05
	max	9.40	7.00	3.83	3.41	1.90	2.88	5.35	3.35

Length Tolerance (L) :  $L \pm 1.50$

Thread Length (S) :  
 Full = L - K  
 Partial :  $L < 56, S = \text{Full}$   
 $56 \geq L < 76, S = 50\text{mm}$   
 $L \geq 76, S = 60\text{mm}$

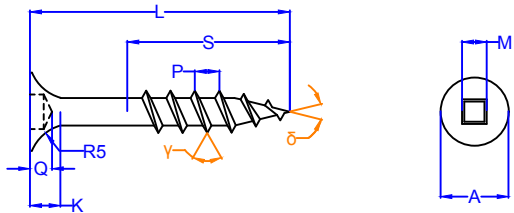
$\gamma = 57^\circ \sim 63^\circ$   
 $\delta = 20^\circ \sim 28^\circ$

## MULTI PURPOSE SCREW SQUARE RECESS



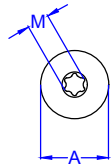
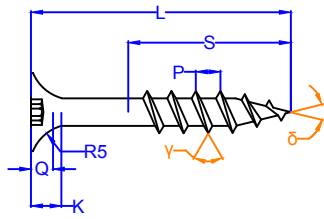
SIZE	A	K	D	P	Q	M	D1	D2	
#8	min	0.292	0.177	0.124	0.099	0.093	0.177	0.171	0.106
	max	0.332	0.276	0.125	0.121	0.115	0.201	0.187	0.120
#9	min	0.335	0.177	0.138	0.099	0.093	0.177	0.175	0.114
	max	0.350	0.276	0.139	0.121	0.115	0.201	0.189	0.122
#10	min	0.340	0.177	0.150	0.110	0.093	0.177	0.193	0.124
	max	0.385	0.276	0.151	0.134	0.115	0.201	0.211	0.138
Length Tolerance (L) :			Thread Length (S) :			$\gamma = 57^\circ \sim 63^\circ$ $\delta = 20^\circ \sim 28^\circ$			
1 < L ≤ 1 1/2 = (+0, -0.05)			Full = L - K						
1 1/2 < L ≤ 3 = (+0, -0.06)			Partial : 1 < L ≤ 2, S = 2/3 L						
3 < L ≤ 4 = (+0, -0.09)			L > 2, S = 1/2 L						

## MULTI PURPOSE SCREW SQUARE RECESS



SIZE	A	K	D	P	Q	M	D1	D2	
#8	min	0.292	0.177	0.124	0.099	0.060	0.112	0.171	0.106
	max	0.332	0.276	0.125	0.121	0.075	0.113	0.187	0.120
#9	min	0.335	0.177	0.138	0.099	0.060	0.112	0.175	0.114
	max	0.350	0.276	0.139	0.121	0.075	0.113	0.189	0.122
#10	min	0.340	0.177	0.150	0.110	0.060	0.112	0.193	0.124
	max	0.385	0.276	0.151	0.134	0.075	0.113	0.211	0.138
Length Tolerance (L) :			Thread Length (S) :			$\gamma = 57^\circ \sim 63^\circ$ $\delta = 20^\circ \sim 28^\circ$			
1 < L ≤ 1 1/2 = (+0, -0.05)			Full = L - K						
1 1/2 < L ≤ 3 = (+0, -0.06)			Partial : 1 < L ≤ 2, S = 2/3 L						
3 < L ≤ 4 = (+0, -0.09)			L > 2, S = 1/2 L						

## MULTI PURPOSE SCREW TORX RECESS



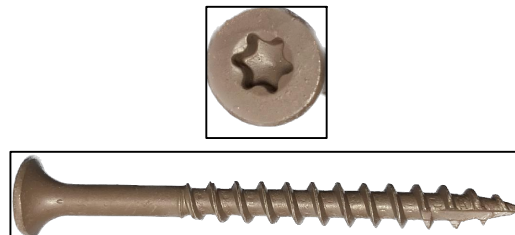
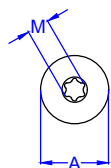
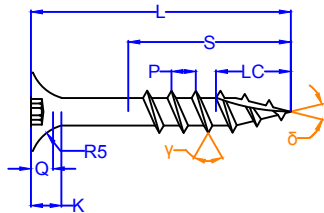
SIZE		A	K	D	P	Q	M	D1	D2
#8	min	0.292	0.177	0.124	0.099	0.063	TX20	0.171	0.106
	max	0.332	0.276	0.125	0.121	0.079		0.187	0.120
#9	min	0.335	0.177	0.138	0.099	0.069	TX25	0.175	0.114
	max	0.350	0.276	0.139	0.121	0.098		0.189	0.122
#10	min	0.340	0.177	0.150	0.110	0.069	TX25	0.193	0.124
	max	0.385	0.276	0.151	0.134	0.098		0.211	0.138

Length Tolerance (L) :  
 $1 < L \leq 1 \frac{1}{2} = (+0, -0.05)$   
 $1 \frac{1}{2} < L \leq 3 = (+0, -0.06)$   
 $3 < L \leq 4 = (+0, -0.09)$

Thread Length (S) :  
 Full = L - K  
 Partial :  $1 < L \leq 2, S = 2/3 L$   
 Partial :  $L > 2, S = 1/2 L$

$\gamma = 57^\circ \sim 63^\circ$   
 $\delta = 20^\circ \sim 28^\circ$

## MULTI PURPOSE SCREW WITH TYPE-17 TORX RECESS



SIZE		A	K	D	P	Q	M	D1	D2
#8	min	0.292	0.177	0.124	0.099	0.063	TX20	0.171	0.106
	max	0.332	0.276	0.125	0.121	0.079		0.187	0.120
#9	min	0.335	0.177	0.138	0.099	0.069	TX25	0.175	0.114
	max	0.350	0.276	0.139	0.121	0.098		0.189	0.122
#10	min	0.340	0.177	0.150	0.110	0.069	TX25	0.193	0.124
	max	0.385	0.276	0.151	0.134	0.098		0.211	0.138

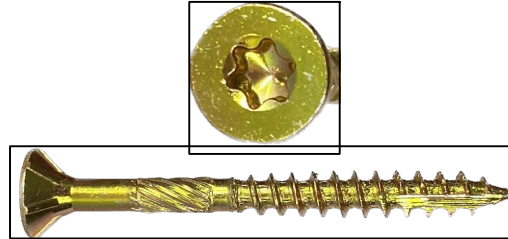
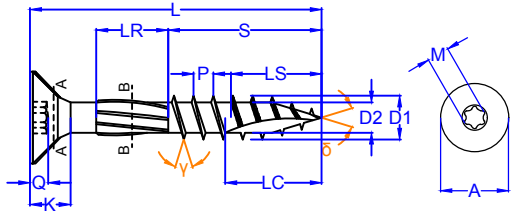
Length Tolerance (L) :  
 $1 < L \leq 1 \frac{1}{2} = (+0, -0.05)$   
 $1 \frac{1}{2} < L \leq 3 = (+0, -0.06)$   
 $3 < L \leq 4 = (+0, -0.09)$

Thread Length (S) :  
 Full = L - K  
 Partial :  $1 < L \leq 2, S = 2/3 L$   
 Partial :  $L > 2, S = 1/2 L$

$\gamma = 57^\circ \sim 63^\circ$   
 $\delta = 20^\circ \sim 28^\circ$

Cutting (Type-17) Length (LC) :  
 $LC = 0.315 \sim 0.472$

# CHIPBOARD COUNTERSUNK SCREW WITH NIBS TORX RECESS + SAW & U-THREAD + TYPE-17

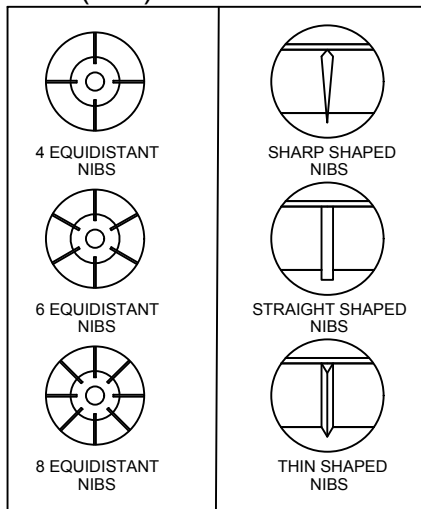


SIZE		A	K	D	P	Q	M	D1	D2
M3.0	min	5.70	2.40	2.15	1.22	1.60	TX10	2.90	1.80
	max	6.00	2.80	2.18	1.49	1.80		3.20	2.05
M3.5	min	6.64	2.70	2.45	1.44	1.75	TX15	3.40	2.10
	max	7.00	3.20	2.48	1.76	1.95		3.70	2.30
M4.0	min	7.64	3.10	2.80	1.62	1.90	TX20	3.90	2.40
	max	8.00	3.60	2.83	1.98	2.15		4.20	2.60
M4.5	min	8.64	3.70	3.15	1.80	2.00	TX25	4.40	2.50
	max	9.00	4.20	3.18	2.20	2.30		4.70	2.80
M5.0	min	9.64	4.30	3.50	1.98	2.35	TX25	4.90	2.90
	max	10.00	4.90	3.53	2.42	2.65		5.20	3.20
M6.0	min	11.50	5.60	4.20	2.34	2.80	TX30	5.90	3.60
	max	12.00	6.30	4.23	2.86	3.10		6.30	3.90

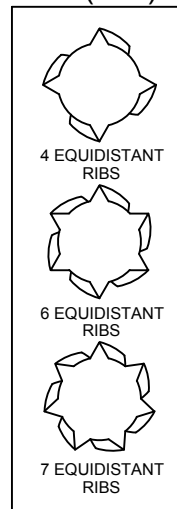
Overall Length	Tolerance	Thread Length	Tolerance
16 ~ 24	± 1.0	Full	
25 ~ 34		18	± 1.0
35 ~ 44	± 1.2	24	± 1.2
45 ~ 54		30	
55 ~ 64	± 1.5	36	± 1.5
65 ~ 74		42	
75 ~ 84		50	
85 ~ 104	± 1.7	60	± 1.7
105 ~ 125		68	
126 ~ 180	± 2.0	70	± 3.0
181 ~ 300	± 4.0	80	

	M3.0	M3.5	M4.0	M4.5	M5.0	M6.0
U-Thread Length(LR) :	4.0~6.0	4.0~6.0	4.0~6.0	5.0~7.0	7.0~9.0	11.0~13.0
Saw Length(LS) :	10.5~13.5	11.5~14.5	11.5~14.5	11.5~14.5	11.5~14.5	16.5~19.5
Type-17 Length(LC) :	6.0~9.0	7.0~10.0	8.0~11.0	9.0~12.0	10.0~13.0	11.0~14.0

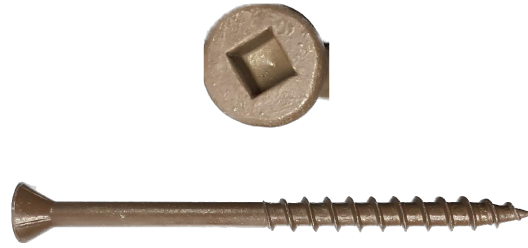
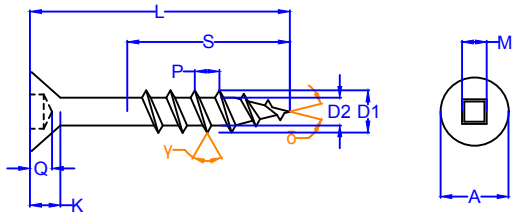
Nibs (A-A) Variance :



Ribs (B-B) Variance :



## DECK SCREW WITH 4 NIBS SQUARE RECESS



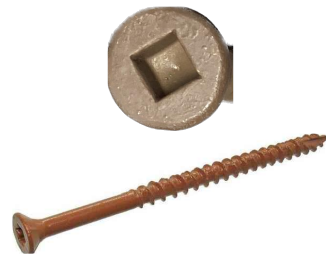
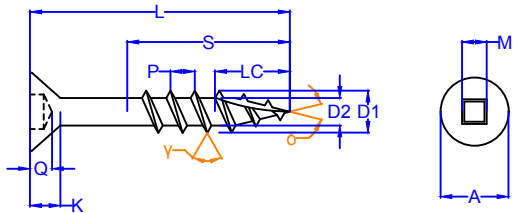
SIZE		A	K	D	P	Q	M	D1	D2
#8	min	0.292	0.177	0.124	0.099	0.060	0.112	0.171	0.106
	max	0.332	0.276	0.125	0.121	0.075	0.113	0.187	0.120
#9	min	0.335	0.177	0.138	0.099	0.060	0.112	0.175	0.114
	max	0.350	0.276	0.139	0.121	0.075	0.113	0.189	0.122
#10	min	0.340	0.177	0.150	0.110	0.060	0.112	0.193	0.124
	max	0.385	0.276	0.151	0.134	0.075	0.113	0.211	0.138

Length Tolerance (L) :  
 $1 < L \leq 1 \frac{1}{2} = (+0, -0.05)$   
 $1 \frac{1}{2} < L \leq 3 = (+0, -0.06)$   
 $3 < L \leq 4 = (+0, -0.09)$

Thread Length (S) :  
 Full = L - K  
 Partial :  $1 < L \leq 2, S = \frac{2}{3} L$   
 $L > 2, S = \frac{1}{2} L$

$\gamma = 57^\circ \sim 63^\circ$   
 $\delta = 20^\circ \sim 28^\circ$

## DECK SCREW WITH 4 NIBS TORX RECESS + TYPE-17



SIZE		A	K	D	P	Q	M	D1	D2
#8	min	0.292	0.177	0.124	0.099	0.060	0.112	0.171	0.106
	max	0.332	0.276	0.125	0.121	0.075	0.113	0.187	0.120
#9	min	0.335	0.177	0.138	0.099	0.060	0.112	0.175	0.114
	max	0.350	0.276	0.139	0.121	0.075	0.113	0.189	0.122
#10	min	0.340	0.177	0.150	0.110	0.060	0.112	0.193	0.124
	max	0.385	0.276	0.151	0.134	0.075	0.113	0.211	0.138

Length Tolerance (L) :  
 $1 < L \leq 1 \frac{1}{2} = (+0, -0.05)$   
 $1 \frac{1}{2} < L \leq 3 = (+0, -0.06)$   
 $3 < L \leq 4 = (+0, -0.09)$

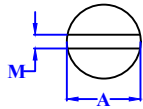
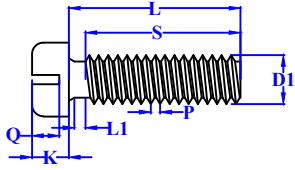
Thread Length (S) :  
 Full = L - K  
 Partial :  $1 < L \leq 2, S = \frac{2}{3} L$   
 $L > 2, S = \frac{1}{2} L$

$\gamma = 57^\circ \sim 63^\circ$   
 $\delta = 20^\circ \sim 28^\circ$

Cutting (Type-17) Length (LC) :  
 $LC = 0.315 \sim 0.472$



# DIN 84 - CHEESE HEAD MACHINE SCREW SLOTTED RECESS



SIZE		A	K	L1	P	Q	M	S1
M1.6	min	2.86	0.96		0.35	0.45	0.46	25.00
	max	3.00	1.10	0.70				
M2.0	min	3.62	1.26		0.40	0.60	0.56	25.00
	max	3.80	1.40	0.80				
M2.5	min	4.32	1.66		0.45	0.70	0.66	25.00
	max	4.50	1.80	0.90				
M3.0	min	5.32	1.86		0.50	0.85	0.86	25.00
	max	5.50	2.00	1.00				
M3.5	min	5.82	2.26		0.60	1.00	1.06	38.00
	max	6.00	2.40	1.20				
M4.0	min	6.78	2.46		0.70	1.10	1.26	38.00
	max	7.00	2.60	1.40				
M5.0	min	8.28	3.12		0.80	1.30	1.26	38.00
	max	8.50	3.30	1.60				
M6.0	min	9.78	3.60		1.00	1.60	1.66	38.00
	max	10.00	3.90	2.00				
M8.0	min	12.73	4.70		1.25	2.00	2.06	38.00
	max	13.00	5.00	2.50				
M10.0	min	15.73	5.70		1.50	2.40	2.56	38.00
	max	16.00	6.00	3.00				

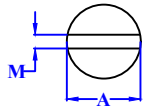
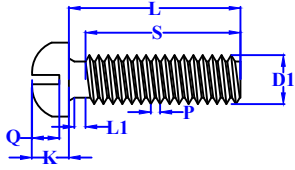
Length Tolerance (L) :

2 ~ 3 : ± 0.20	12 ~ 16 : ± 0.35	55 ~ 80 : ± 0.95
4 ~ 6 : ± 0.24	20 ~ 30 : ± 0.42	
8 ~ 10 : ± 0.29	35 ~ 50 : ± 0.50	

Thread Length (S) :

Full = L - L1  
Partial = S1

# DIN 85 - PAN HEAD MACHINE SCREW SLOTTED RECESS



SIZE		A	K	L1	P	Q	M	S1
M1.6	min	2.90	0.86		0.35	0.35	0.46	25.00
	max	3.20	1.10	0.70			0.60	
M2.0	min	3.70	1.16		0.40	0.50	0.56	25.00
	max	4.00	1.30	0.80			0.70	
M2.5	min	4.70	1.36		0.45	0.60	0.66	25.00
	max	5.00	1.50	0.90			0.80	
M3.0	min	5.30	1.66		0.50	0.70	0.86	25.00
	max	5.60	1.80	1.00			1.00	
M3.5	min	6.64	1.96		0.60	0.80	1.06	38.00
	max	7.00	2.10	1.20			1.20	
M4.0	min	7.64	2.26		0.70	1.00	1.26	38.00
	max	8.00	2.40	1.40			1.51	
M5.0	min	9.14	2.86		0.80	1.20	1.26	38.00
	max	9.50	3.00	1.60			1.51	
M6.0	min	11.57	3.30		1.00	1.40	1.66	38.00
	max	12.00	3.60	2.00			1.91	
M8.0	min	15.57	4.50		1.25	1.90	2.06	38.00
	max	16.00	4.80	2.50			2.31	
M10.0	min	19.48	5.70		1.50	2.40	2.56	38.00
	max	20.00	6.00	3.00			2.81	

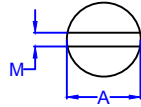
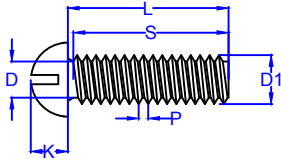
Length Tolerance (L) :

2 ~ 3 : ± 0.20	12 ~ 16 : ± 0.35	55 ~ 80 : ± 0.95
4 ~ 6 : ± 0.24	20 ~ 30 : ± 0.42	
8 ~ 10 : ± 0.29	35 ~ 50 : ± 0.50	

Thread Length (S) :

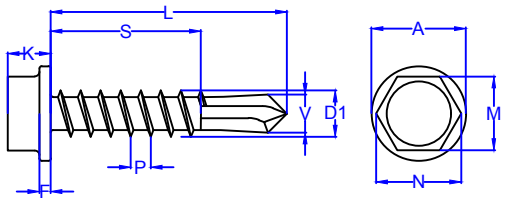
Full = L - L1  
Partial = S1

# DIN 86 - ROUND HEAD MACHINE SCREW SLOTTED RECESS



SIZE		A	K	D	P	Q	M	D1
M2.5	min	4.70	1.88	2.14	0.50	0.50	0.60	2.38
	max	5.00	2.12	2.17			0.80	2.48
M3.0	min	5.70	2.28	2.60	0.60	0.70	0.80	2.83
	max	6.00	2.52	2.63			1.00	2.93
M3.5	min	6.64	2.58	3.04	0.70	0.80	1.00	3.36
	max	7.00	2.82	3.07			1.20	3.46
M4.0	min	7.64	2.95	3.47	0.80	0.90	1.20	3.83
	max	8.00	3.25	3.50			1.50	3.93
M4.5	min	8.64	3.11	3.77	1.00	1.10	1.20	4.36
	max	9.00	3.79	3.81			1.50	4.46
M5.0	min	9.64	3.65	4.41	1.10	1.20	1.20	4.83
	max	10.00	3.95	4.44			1.50	4.93
M6.0	min	11.57	4.45	5.27	1.20	1.40	1.60	5.83
	max	12.00	4.75	5.32			1.90	5.93
Length Tolerance (L) : 5 ~ 6 : ± 0.25      19 ~ 30 : ± 0.40      81 ~ 150 : ± 0.70 7 ~ 10 : ± 0.29      31 ~ 50 : ± 0.50 11 ~ 18 : ± 0.35      51 ~ 80 : ± 0.60							Thread Length (S) : Full = L - 0.5	

## DIN 7504K - HEXAGON HEAD SELF DRILLING SCREW

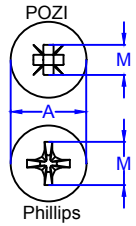
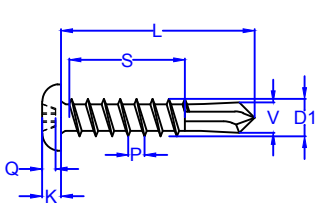


SIZE	A	K	F	P	N	M	V	D1	
M3.5	min	7.60	3.20	0.60	1.30	5.96	5.32	2.80	3.35
	max	8.30	3.45				5.50		3.53
M3.9	min	7.60	3.20	0.60	1.30	5.96	5.32	3.10	3.73
	max	8.30	3.45				5.50		3.91
M4.2	min	8.20	4.00	0.90	1.40	7.59	6.78	3.60	4.04
	max	8.80	4.25				7.00		4.22
M4.8	min	9.80	4.15	0.90	1.60	8.71	7.78	4.10	4.62
	max	10.50	4.45				8.00		4.80
M5.5	min	10.00	5.15	1.00	1.80	8.71	7.78	4.80	5.28
	max	11.00	5.45				8.00		5.46
M6.3	min	12.20	6.15	1.00	1.80	10.95	9.78	5.80	6.03
	max	13.20	6.45				10.00		6.25

Overall Length (L)		Min Thread Length (S)					
L	Tolerance	M3.5	M3.9	M4.2	M4.8	M5.5	M6.3
9.50	±0.75	2.85					
13.00	±0.90	6.20	5.80	4.30	4.70		
16.00		9.20	8.80	7.30	5.80	5.00	
19.00	±1.00	12.10	11.70	10.30	8.70	8.00	7.00
22.00		15.10	14.70	13.30	11.70	11.00	10.00
25.00		18.10	17.70	16.30	14.70	14.00	13.00
32.00	± 1.25		24.50	23.00	21.50	21.00	20.00
38.00			30.50	29.00	27.50	27.00	26.00
45.00					34.50	34.00	33.00
50.00					39.50	39.00	38.00
60.00	± 1.50				49.50	49.00	48.00
75.00					64.50	64.00	63.00
80.00 ~ 100.00					71.00	69.50	68.50
110.00 ~ 200.00	± 1.75						68.50



# DIN 7504N - CROSSED RECESS PAN HEAD SELF DRILLING SCREW



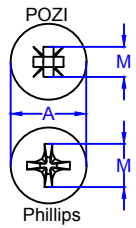
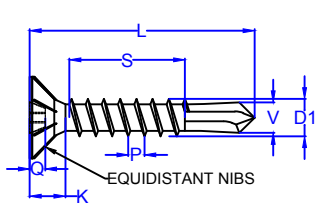
SIZE		A	K	P	V	D1
M2.9	min	5.30	1.95	1.10	2.50	2.79
	max	5.60	2.20			2.90
M3.5	min	6.54	2.35	1.30	2.80	3.43
	max	6.90	2.60			3.53
M3.9	min	7.14	2.55	1.30	3.10	3.78
	max	7.50	2.80			3.91
M4.2	min	7.84	2.75	1.40	3.60	4.08
	max	8.20	3.05			4.22
M4.8	min	9.14	3.25	1.60	4.10	4.65
	max	9.50	3.55			4.80
M5.5	min	10.37	3.65	1.80	4.80	5.31
	max	10.80	3.95			5.46
M6.3	min	12.07	4.25	1.80	5.80	6.10
	max	12.50	4.55			6.25

Recess Specification		M2.9	M3.5	M3.9	M4.2	M4.8	M5.5	M6.3	
POZI	Drive Size	PZ1	PZ2				PZ3		
	Width (M)	2.90	3.90	4.10	4.30	4.70	6.20	6.70	
	Depth (Q)	min	1.35	1.47	1.70	1.88	2.28	2.51	3.02
max		1.83	1.93	2.10	2.34	2.74	2.97	3.48	
Phillips	Drive Size	PH1	PH2				PH3		
	Width (M)	3.00	4.20	4.40	4.60	5.00	6.50	7.10	
	Depth (Q)	min	1.35	1.40	1.63	1.80	2.26	2.49	3.00
max		1.80	2.03	2.26	2.46	2.87	2.87	3.66	

Overall Length (L)		Min Thread Length (S)						
L	Tolerance	M2.9	M3.5	M3.9	M4.2	M4.8	M5.5	M6.3
9.50	±0.75	3.25	2.85					
13.00	±0.90	6.60	6.20	5.80	4.30	4.70		
16.00		9.60	9.20	8.80	7.30	5.80	5.00	
19.00	±1.00	12.50	12.10	11.70	10.30	8.70	8.00	7.00
22.00		15.10	14.70	13.30	11.70	11.00	10.00	
25.00		18.10	17.70	16.30	14.70	14.00	13.00	
32.00	± 1.25			24.50	23.00	21.50	21.00	20.00
38.00				30.50	29.00	27.50	27.00	26.00
45.00						34.50	34.00	33.00
50.00						39.50	39.00	38.00



# DIN 7504P - COUNTERSUNK HEAD WITH NIBS SELF DRILLING SCREW

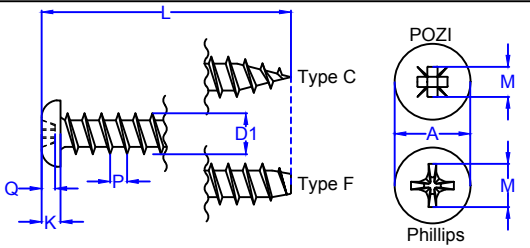


SIZE		A	K	P	V	D1
M2.9	min	5.20	1.65	1.10	2.30	2.79
	max	5.50	1.75		2.90	2.90
M3.5	min	6.44	2.05	1.30	2.80	3.43
	max	6.80	2.15		3.50	3.53
M3.9	min	7.14	2.25	1.30	3.10	3.78
	max	7.50	2.40		3.90	3.91
M4.2	min	7.74	2.45	1.40	3.60	4.08
	max	8.10	2.60		4.20	4.22
M4.8	min	9.14	2.95	1.60	4.10	4.65
	max	9.50	3.15		4.80	4.80
M5.5	min	10.37	3.35	1.80	4.80	5.31
	max	10.80	3.55		5.50	5.46
M6.3	min	11.97	3.70	1.80	5.80	6.10
	max	12.40	4.00		6.30	6.25

Recess Specification		M2.9	M3.5	M3.9	M4.2	M4.8	M5.5	M6.3	
POZI	Drive Size	PZ1	PZ2				PZ3		
	Width (M)	2.90	3.90	4.10	4.30	4.70	6.20	6.70	
	Depth (Q)	min	1.58	1.47	1.70	1.88	2.28	2.51	3.02
max		1.83	1.93	2.16	2.34	2.74	2.97	3.48	
Phillips	Drive Size	PH1	PH2				PH3		
	Width (M)	3.00	4.20	4.40	4.60	5.00	6.50	7.10	
	Depth (Q)	min	1.35	1.40	1.63	1.80	2.26	2.49	3.00
max		1.80	2.03	2.26	2.46	2.87	3.15	3.66	

Overall Length (L)		Min Thread Length (S)						
L	Tolerance	M2.9	M3.5	M3.9	M4.2	M4.8	M5.5	M6.3
9.50	±0.75	3.25	2.85					
13.00	±0.90	6.60	6.20	5.80	4.30	4.70		
16.00		9.60	9.20	8.80	7.30	5.80	5.00	
19.00	±1.00	12.50	12.10	11.70	10.30	8.70	8.00	7.00
22.00			15.10	14.70	13.30	11.70	11.00	10.00
25.00			18.10	17.70	16.30	14.70	14.00	13.00
32.00	± 1.25			24.50	23.00	21.50	21.00	20.00
38.00				30.50	29.00	27.50	27.00	26.00
45.00						34.50	34.00	33.00
50.00						39.50	39.00	38.00

# DIN 7981 - CROSSED RECESS PAN HEAD TAPPING SCREW

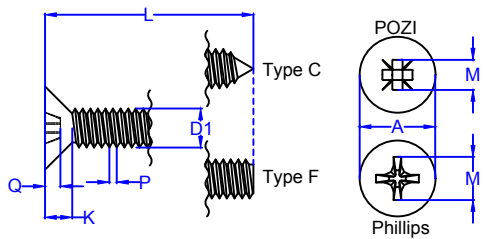


SIZE		A	K	P	D1
M2.9	min	5.30	1.95	1.10	2.79
	max	5.60	2.20		2.90
M3.5	min	6.54	2.35	1.30	3.43
	max	6.90	2.60		3.53
M3.9	min	7.14	2.55	1.30	3.78
	max	7.50	2.80		3.91
M4.2	min	7.84	2.75	1.40	4.08
	max	8.20	3.05		4.22
M4.8	min	9.14	3.25	1.60	4.65
	max	9.50	3.55		4.80
M5.5	min	10.37	3.65	1.80	5.31
	max	10.80	3.95		5.46
M6.3	min	12.07	4.25	1.80	6.10
	max	12.50	4.55		6.25

Recess Specification		M2.9	M3.5	M3.9	M4.2	M4.8	M5.5	M6.3
POZI	Drive Size	PZ1	PZ2				PZ3	
	Width (M)	2.90	3.90	4.10	4.30	4.70	6.20	6.70
	Depth (Q)	min	1.35	1.47	1.70	1.88	2.28	2.51
max		1.83	1.93	2.10	2.34	2.74	2.97	3.48
Phillips	Drive Size	PH1	PH2				PH3	
	Width (M)	3.00	4.20	4.40	4.60	5.00	6.50	7.10
	Depth (Q)	min	1.35	1.40	1.63	1.80	2.26	2.49
max		1.80	2.03	2.26	2.46	2.87	2.87	3.66

Overall Length (L)	Tolerance	
	Type C	Type F
6.5 ~ 19	± 0.80	+0 / -0.80
20 ~ 25		+0 / -1.30
26 ~ 38	± 1.30	+0 / -1.50
39 ~ 50		
51 ~ 120		

# DIN 7982 - CROSSED RECESS COUNTERSUNK HEAD TAPPING SCREW



SIZE		A	K	P	D1
M2.9	min	5.20	1.65	1.10	2.79
	max	5.50	1.75		2.90
M3.5	min	6.44	2.05	1.30	3.43
	max	6.80	2.15		3.53
M3.9	min	7.14	2.25	1.30	3.78
	max	7.50	2.40		3.91
M4.2	min	7.74	2.45	1.40	4.08
	max	8.10	2.60		4.22
M4.8	min	9.14	2.95	1.60	4.65
	max	9.50	3.15		4.80
M5.5	min	10.37	3.35	1.80	5.31
	max	10.80	3.55		5.46
M6.3	min	11.97	3.70	1.80	6.10
	max	12.40	4.00		6.25

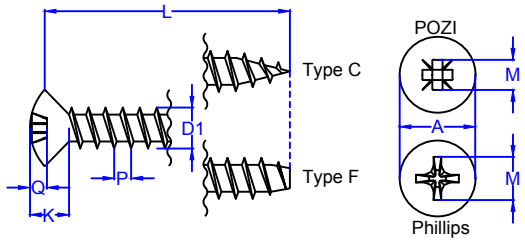
Recess Specification		M2.9	M3.5	M3.9	M4.2	M4.8	M5.5	M6.3
POZI	Drive Size	PZ1	PZ2				PZ3	
	Width (M)	2.80	4.00	4.20	4.40	5.00	6.30	7.00
	Depth (Q)	min	1.48	1.60	1.85	2.05	2.64	2.72
max		1.73	2.06	2.31	2.51	3.10	3.18	3.84
Phillips	Drive Size	PH1	PH2				PH3	
	Width (M)	3.00	4.20	4.60	4.70	5.10	6.80	7.10
	Depth (Q)	min	1.40	1.62	2.03	2.11	2.59	2.95
max		1.70	2.12	2.53	2.62	3.10	3.53	3.91

Overall Length (L)	Tolerance	
	Type C	Type F
6.5 ~ 19	± 0.80	+0 / -0.80
20 ~ 25		+0 / -1.30
26 ~ 38	± 1.30	+0 / -1.50
39 ~ 50		
51 ~ 120		





# DIN 86 - ROUND HEAD MACHINE SCREW SLOTTED RECESS



SIZE		A	K	P	D1
M2.9	min	5.20	1.65	1.10	2.79
	max	5.50	1.75		2.90
M3.5	min	6.64	2.05	1.30	3.43
	max	6.80	2.15		3.53
M3.9	min	7.14	2.25	1.30	3.78
	max	7.50	2.40		3.91
M4.2	min	7.74	2.45	1.40	4.08
	max	8.10	2.60		4.22
M4.8	min	9.14	2.95	1.60	4.65
	max	9.50	3.15		4.80
M5.5	min	10.37	3.35	1.80	5.31
	max	10.80	3.55		5.46
M6.3	min	11.97	3.70	1.80	6.10
	max	12.40	4.00		6.25

Recess Specification		M2.9	M3.5	M3.9	M4.2	M4.8	M5.5	M6.3
POZI	Drive Size	PZ1	PZ2				PZ3	
	Width (M)	3.10	4.30	4.40	4.60	5.10	6.60	7.10
	Depth (Q)	min	1.83	1.88	2.00	2.26	2.69	2.92
max		2.08	2.34	2.46	2.72	3.15	3.38	3.86
Phillips	Drive Size	PH1	PH2				PH3	
	Width (M)	3.40	4.60	4.70	4.90	5.40	7.00	7.00
	Depth (Q)	min	1.81	1.89	2.04	2.24	2.70	3.02
max		2.21	2.39	2.54	2.74	3.20	3.53	3.96

Overall Length (L)	Tolerance	
	Type C	Type F
6.5 ~ 19	± 0.80	+0 / -0.80
20 ~ 25		+0 / -1.30
26 ~ 38	± 1.30	+0 / -1.50
39 ~ 50		
51 ~ 120		