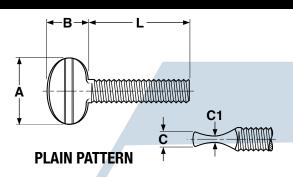
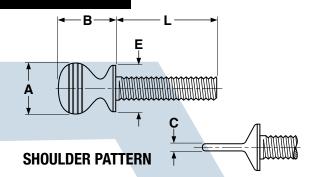
## Plain & Shoulder **Pattern**

## **Thumb Screws**

## **Thumb & Wing Screws**





THUMB SCREWS, PLAIN PATTERN (NO SHOULDER)								
			Α	В	С	C1	L	-
Nominal Size or Basic Screw Diameter		Threads per Inch	Head Width	Head Height	Head Thickness	Head Thickness (mid-setion)	Practical Sci	rew Lengths
			Ref	Ref	Ref	Ref	Max	Min
6	0.138	32	0.41	0.29	0.08	0.03	1.00	0.25
8	0.164	32	0.44	0.30	0.10	0.05	1.00	0.38
10	0.190	24	0.55	0.43	0.12	0.06	2.00	0.38
12	0.216	24	0.47	0.53	0.13	0.06	2.00	0.38
1/4	0.250	20	0.81	0.55	0.16	0.07	2.50	0.50
5/16	0.312	18	0.87	0.67	0.19	0.09	3.00	0.50
3/8	0.375	16	1.02	0.75	0.24	0.11	3.00	0.75
1/2	0.500	13	1.75	1.22	0.39	0.13	3.00	1.00
Nominal Size or Basic Screw Diameter		Threads per	A Head Width	REWS WITH	С	Е	L Practical Screw Lengths	
Busio con	W Blainetei	ı ıncn	ricaa wiatii	Head Height	Head Thickness	Shoulder Diameter	Practical Sci	rew Lengths
		inch	Ref	Head Height Ref	Thickness Ref	Shoulder Diameter Ref	Practical Sci	rew Lengths
6	0.138	32			Thickness	Diameter		
6 8	0.138 0.164		Ref	Ref	Thickness Ref	Diameter Ref	Max	Min
		32	<b>Ref</b> 0.28	<b>Ref</b> 0.30	Thickness Ref 0.05	Diameter Ref 0.24	<b>Max</b> 0.75	<b>Min</b> 0.25
8	0.164	32 32	Ref 0.28 0.33	Ref 0.30 0.39	Thickness Ref 0.05 0.05	Diameter  Ref  0.24  0.27	Max 0.75 0.75	Min 0.25 0.38
8	0.164 0.190	32 32 24 & 32	Ref 0.28 0.33 0.39	Ref 0.30 0.39 0.49	Thickness  Ref  0.05  0.05  0.07	Diameter  Ref 0.24 0.27 0.33	Max 0.75 0.75 1.00	Min 0.25 0.38 0.38
8 10 12	0.164 0.190 0.216	32 32 24 & 32 24	Ref 0.28 0.33 0.39 0.47	Ref 0.30 0.39 0.49 0.53	Thickness  Ref 0.05 0.05 0.07 0.13	Diameter  Ref 0.24 0.27 0.33 0.39	Max 0.75 0.75 1.00 2.00	Min 0.25 0.38 0.38 0.38
8 10 12 1/4	0.164 0.190 0.216 0.250	32 32 24 & 32 24 20	Ref 0.28 0.33 0.39 0.47 0.48	Ref 0.30 0.39 0.49 0.53 0.57	Thickness  Ref 0.05 0.05 0.07 0.13 0.10	Diameter  Ref 0.24 0.27 0.33 0.39 0.43	Max 0.75 0.75 1.00 2.00 1.50	Min 0.25 0.38 0.38 0.38 0.50
8 10 12 1/4 5/16	0.164 0.190 0.216 0.250 0.312	32 32 24 & 32 24 20 18	Ref 0.28 0.33 0.39 0.47 0.48 0.57	Ref 0.30 0.39 0.49 0.53 0.57 0.73	Thickness  Ref 0.05 0.05 0.07 0.13 0.10 0.13	Diameter  Ref 0.24 0.27 0.33 0.39 0.43 0.57	Max 0.75 0.75 1.00 2.00 1.50	Min 0.25 0.38 0.38 0.38 0.50
8 10 12 1/4 5/16 3/8 1/2	0.164 0.190 0.216 0.250 0.312 0.375 0.500	32 32 24 & 32 24 20 18 16	Ref 0.28 0.33 0.39 0.47 0.48 0.57 0.71	Ref 0.30 0.39 0.49 0.53 0.57 0.73 0.88 1.18	Thickness  Ref 0.05 0.05 0.07 0.13 0.10 0.13 0.21 0.13	Diameter  Ref 0.24 0.27 0.33 0.39 0.43 0.57 0.71 0.84	Max 0.75 0.75 1.00 2.00 1.50 1.50 2.00 3.00	Min 0.25 0.38 0.38 0.38 0.50 0.50 0.75 1.00
8 10 12 1/4 5/16 3/8 1/2	0.164 0.190 0.216 0.250 0.312 0.375 0.500	32 32 24 & 32 24 20 18 16 13	Ref 0.28 0.33 0.39 0.47 0.48 0.57 0.71	Ref 0.30 0.39 0.49 0.53 0.57 0.73 0.88 1.18	Thickness  Ref 0.05 0.05 0.07 0.13 0.10 0.13 0.21 0.13 screws may not alw	Diameter  Ref 0.24 0.27 0.33 0.39 0.43 0.57 0.71 0.84	Max 0.75 0.75 1.00 2.00 1.50 1.50 2.00 3.00	Min 0.25 0.38 0.38 0.38 0.50 0.50 0.75 1.00

Description	A cold headed, one-piece screw with rolled threads and a flattened head designed for manual turning without a driver or wrench. They are available in two varietieswith and without a shoulder under the head. The shoulder flares to a circular shape of a diameter slightly less than the head diameter of the screw.				
Applications/ Advantages	For use in applications where the fastener is frequently adjusted and where tightening torque greater than that achieved with finger pressure is not required. A shoulder-pattern allows the head of the screw to seat flush against the mating surface and helps avoid over-tightening of the fastener which could result in stripped mating threads.				
88-42-1	Steel	Stainless			
Material	Commercial quality carbon steel.	18-8 Stainless			
Tensile Strength	48,000 psi. minimum	-			
Plating	See Appendix-A for plating information.	Stainless thumb screws are typically supplied without secondary finishes.			

±0.06

±0.03

±0.09