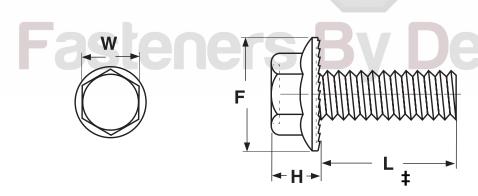
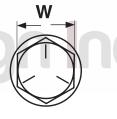
## FLANGE SCREWS, SERRATED HEX WASHER







<u>†</u>Length of a serrated flange screw is measured from the bottom of the serration to the extreme end of the screw.

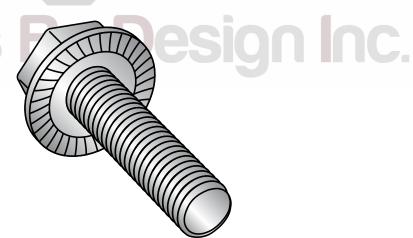
SERRATED HEX WASHER HEAD FLANGE SCREWS						
Size (Diameter & Thread Pitch)	W Width Across Flats		H Thickness		F Flange Diameter	
	4-40	.188	.181	.079	.060	.243
6-32	.187	.181	.157	.132	.266	.254
8-32	.250	.244	.186	.161	.355	.341
10-24 & 10-32	.312	.305	.210	.185	.441	.425
12-24	.312	.305	.240	.161	.520	.398
1/4-20 & 1/4-28	.375	.367	.240	.216	.531	.513
5/16-18 & 5/16-24	.500	.491	.298	.274	.706	.686
3/8-16 & 3/8-24	.562	.552	.331	.307	.793	.771
7/16-14	.625	.612	.460	.365	.930	.856
1/2-13 & 1/2-20	.750	.736	.510	.470	1.070	1.020
5/8-11	.9375	.922	.620	.580	1.330	1.260
3/4-10	1.1250	1.100	.730	.680	1.590	1.490
	Nominal Screw	Nominal Screw Length				
	Nominal Screw Size	lle to 4/0 in incl	Over 1/2 in. to	Over 1 in. to	Over 2 in. to	Over 4 in. to

	Nominal Screw Size	Nominal Screw Length				
Tolerance on Length (ASME B18.2.1 & ASME B18.6.3)		Up to 1/2 in., incl.	Over 1/2 in. to 1 in., incl.	Over 1 in. to 2 in., incl.	Over 2 in. to 4 in., incl.	Over 4 in. to 6 in., incl.
	No. 4 thru 12	-0.02	-0.03	-0.06	-0.09	-0.09
	1/4 thru 3/8	-0.03	-0.03	-0.06	-0.09	-0.10
	7/16 thru 1/2	-0.03	-0.03	-0.06	-0.09	-0.10
	9/16 thru 3/4		-0.03	-0.08	-0.10	-0.10

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## FLANGE SCREWS, SERRATED HEX WASHER

## Fasteners



Description	An unslotted hex head screw with unified thread pitch and a flange that has serrations on the bearing surface side.							
Applications/ Advantages	Designed for use in applications where loosening forces are present, such as vibration. The serrations grip to the bearing surface so that significantly more torque is needed to loosen than to tighten the screw. Flange provides more strength than a standard machine screw. Eliminates need for a lockwasher or locknut in certain applications.							
Material	Low Carbon Steel	Grade 5	Grade 8	Stainless Steel				
	AISI C1022 steel.	Medium carbon steel	Medium carbon alloy steel	18-8 Stainless				
Heat Treatment	Serrated flange screws shall be quenched and tempered at a minimum temperature of 650°F.	Screws shall be heat treated, oil or water quenched, at the option of the manufacturer, and tempered at a minimum tempering temperature of 800°F.	Grade-8 serrated flange screws shall be heat-treated, oil- quenched and tempered at a minimum temperature of 800°F.	-				
Case Hardness	Rockwell C 40 minimum	Rockwell 30N54 maximum	Rockwell 30N58.6 maximum	Base metal hardness:				
Core Hardness	Rockwell C26 - C34	Rockwell C25 - C34	Rockwell C33 - C39	Rockwell B85 - B95 (approximate)				
Proof Load	-	1/4 through 3/4 in. diameter, all lengths: 85,000 psi.	120,000 psi.	-				
Tensile Strength	-	1/4 through 3/4 in. diameter, all lengths: 120,000 psi. minimum	150,000 psi. minimum	80,000 psi. minimum				
Plating	See Appendix-A for plating information.	See Appendix-A for plating information.	See Appendix-A for plating information.	Stainless serrated flange screws are usually supplied without an additional finish.				



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