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Westfield Fasteners Product Specification:

ASME B18.6.3 - UNF Slotted Round Head Machine Screws

This product guide contains the specification for UNF Slotted Round Head Machine Screws, a series of standard parts available from Westfield Fasteners. The basis of this specification is the ASME standard ASME B18.6.3.

Product Description

These screws feature a rounded, domed head and a traditional slot drive for use with a flat head screwdriver. The height of the rounded head and the depth of the slot offers a more secure engagement for the flat screwdriver.

Scope of the ASME Standard

Unlike ISO standards, each ASME standard generally covers a range or family of product types. ASME B18.6.3 covers many machine screw types, including these UNF thread slotted round head machine screws, and describes the form, dimensions and tolerances, starting from the thread diameter of gauge size 0000, up to and including 3/4 inch.

The slot drive can have parallel or slightly tapered sides.

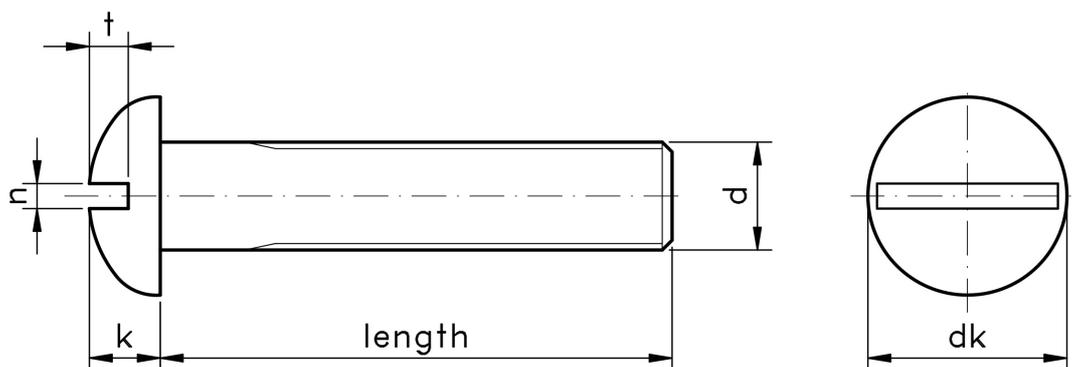


Figure 1: UNF Slotted Round Head Machine Screw

Table 1: Dimensions & Tolerances of UNF Slotted Round Head Machine Screws according to ASME B18.6.3 (inches)

Nominal Size or Basic Screw Diameter		TPI	Head Diameter, dk		Head Height, k		Slot Width, n		Slot Depth, t	
			max	min	max	min	max	min	max	min
0000	0.0210	160	0.041	0.035	0.022	0.016	0.008	0.004	0.017	0.013
000	0.0340	120	0.062	0.056	0.031	0.025	0.012	0.008	0.018	0.012
00	0.0470	90	0.089	0.080	0.045	0.036	0.017	0.010	0.026	0.018
0	0.0600	80	0.113	0.099	0.053	0.043	0.023	0.016	0.039	0.029
1	0.0730	72	0.138	0.122	0.061	0.051	0.026	0.019	0.044	0.033
2	0.0860	64	0.162	0.146	0.069	0.059	0.031	0.023	0.048	0.037
3	0.0990	56	0.187	0.169	0.078	0.067	0.035	0.027	0.053	0.040
4	0.1120	48	0.211	0.193	0.086	0.075	0.039	0.031	0.058	0.044
5	0.1250	44	0.236	0.217	0.095	0.083	0.043	0.035	0.063	0.047
6	0.1380	40	0.260	0.240	0.103	0.091	0.048	0.039	0.068	0.051
8	0.1640	36	0.309	0.287	0.120	0.107	0.054	0.045	0.077	0.058
10	0.1900	32	0.359	0.334	0.137	0.123	0.060	0.050	0.087	0.065
12	0.2160	28	0.408	0.382	0.153	0.139	0.067	0.056	0.096	0.073
1/4	0.2500	28	0.472	0.443	0.175	0.160	0.075	0.064	0.109	0.082
5/16	0.3125	24	0.590	0.557	0.216	0.198	0.084	0.072	0.132	0.099
3/8	0.3750	24	0.708	0.670	0.256	0.237	0.094	0.081	0.155	0.117
7/16	0.4375	20	0.750	0.707	0.328	0.307	0.094	0.081	0.196	0.148
1/2	0.5000	20	0.813	0.766	0.355	0.332	0.106	0.091	0.211	0.159
9/16	0.5625	18	0.938	0.887	0.410	0.385	0.118	0.102	0.242	0.183
5/8	0.6250	18	1.000	0.944	0.438	0.411	0.133	0.116	0.258	0.195
3/4	0.7500	16	1.250	1.185	0.547	0.516	0.149	0.131	0.320	0.242

For further details, please refer to the ASME standard document for this item.