

### Stainless Steel Flat Head Machine Screw

**Standard:** ISO7046 , DIN965, GB/T819.1-2000, GB/T819.2-1997(Phillips Driver), DIN963 , ISO2009, GB/T68-2000 (Slotted Driver)

**Material:** SUS301,304,18/8,0Cr18Ni9,X5CrNi1810,X10Cr13,410S21, if you need to use other stainless steel, please let us know.

**Heat Treatment:** None for normal, If you have special hardness requirement, please let us know.

**Surface Hardness:** 220HV is Normal, 750HV max after Quench with SUS410

**Finish:** None.

**Head:** Flat

**Thread Direction:** Normal is right hand/dextrorotation, if you want left hand, please let us know.

**Tensile strength:** 700N/mm<sup>2</sup>

**Stainless Steel Flat Head Machine Screw** is a machine screw, also sometimes referred to as a machine bolt, is a screw that is typically designed to be fastened to an existing, tapped hole on a metal surface, usually in conjunction with a corresponding nut. These types of screws are not as large as the average screw, usually ranging in sizes up to three quarters of an inch (19.05 mm) but they can still be larger. Variations between machine screws mainly exist in overall size, shape of the head, slot type, length, material, and characteristics of the thread..

"Stainless Steel" - With the addition of 12% chromium to iron, stainless steel is formed. The chromium protects the iron against most corrosion or red colored rust; thus the term "stainless steel". The ability of stainless to form a thin layer of protection on its outside surface, called a "passive film", is its most important characteristic in preventing corrosion.

"18-8" - 300 series stainless steel having approximately (not exactly) 18% chromium and 8% nickel. The term "18-8" is used interchangeably to characterize fasteners made of 302,302HQ,303,304,384, XM7, and other variables of these grades with close chemical compositions. There is little overall difference in corrosion resistance among the 18-8 types, but slight differences in chemical composition do make certain grades more resistant than others against particular chemicals or atmospheres.

Austenitic - Refers to 300 series stainless, the most popular of the stainless alloys accounting for 85%-90% of stainless fasteners sold Named for sir Robert Williams Austen, an English metallurgist, austenitic stainless is a crystal structure formed by heating steel, chromium, and nickel to a high temperature where it forms the characteristics of 300 series stainless steel.

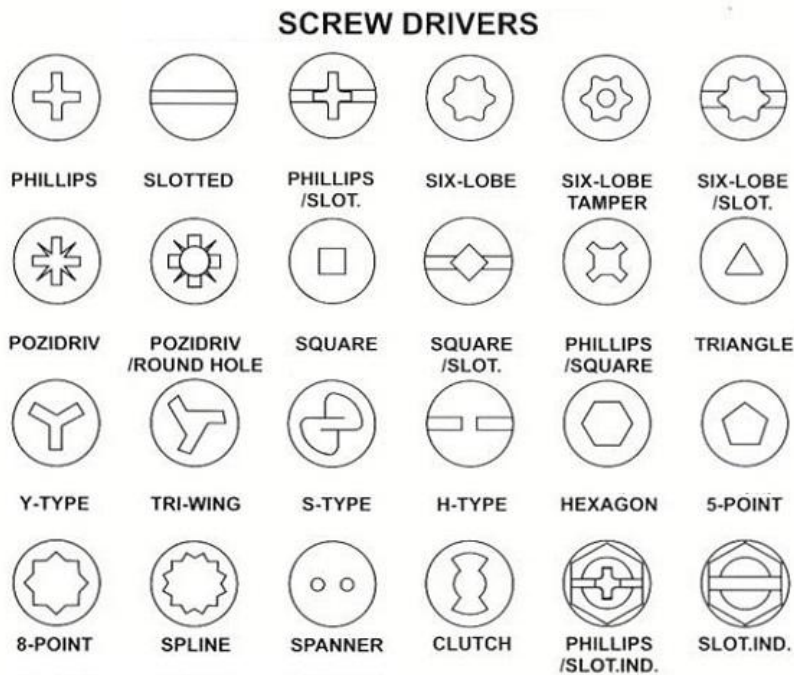
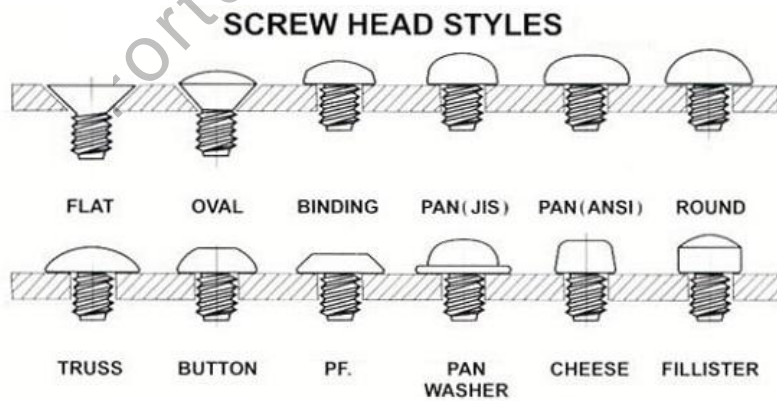
Flat head fasteners are designed to fit flush to the surface when used with countersunk holes. Length is measured from the top of the head. The Phillips drive style was originally designed so that the driver would slip out under extreme torque, preventing over-tightening and damage to the fastener or the material. Self-Drilling Points are excellent for use with sheet metal.

The typical **Stainless Steel Flat Head Machine Screw** as below

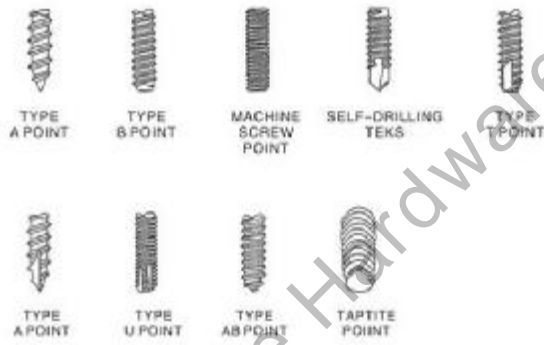




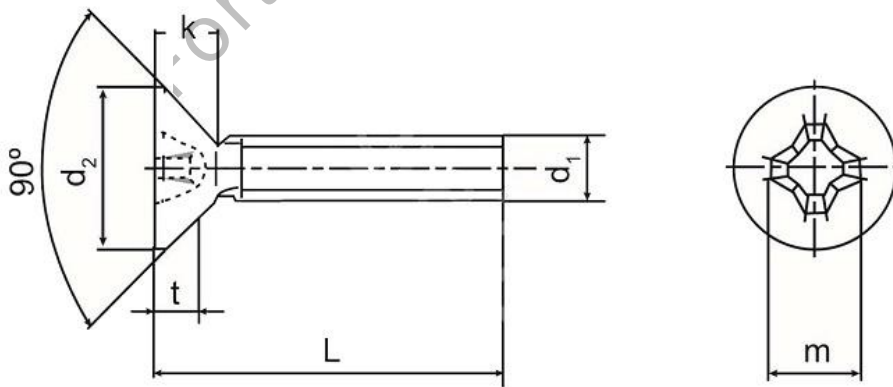
You can refer to below chart/list of Screw head/Thread ending



Thread Ending



And below is the common drawing for this kind:



Below chart show some typical dimensions of them, you can refer it, or you can change it for your own design, if you want know more standard dimensions of this screw , you can contact us.

Item	d1(mm)	L(mm)	d2 max.(mm)	k max.(mm)	n (mm)	t min(mm)
M3X5	M3	5	5.6	1.65	1.5	1.8
M3X6	M3	6	5.6	1.65	1.5	1.8
M3X8	M3	8	5.6	1.65	1.5	1.8
M3X10	M3	10	5.6	1.65	1.5	1.8
M3X12	M3	12	5.6	1.65	1.5	1.8
M3X16	M3	16	5.6	1.65	1.5	1.8
M3X20	M3	20	5.6	1.65	1.5	1.8
M3X25	M3	25	5.6	1.65	1.5	1.8
M4X8	M4	8	7.5	2.2	1.9	2.4
M4X10	M4	10	7.5	2.2	1.9	2.4
M4X12	M4	12	7.5	2.2	1.9	2.4
M4X16	M4	16	7.5	2.2	1.9	2.4
M4X20	M4	20	7.5	2.2	1.9	2.4
M4X25	M4	25	7.5	2.2	1.9	2.4
M4X30	M4	30	7.5	2.2	1.9	2.4
M4X35	M4	35	7.5	2.2	1.9	2.4
M5X8	M5	8	9.2	2.5	2.1	2.6
M5X10	M5	10	9.2	2.5	2.1	2.6
M5X12	M5	12	9.2	2.5	2.1	2.6



M5X16	M5	16	9.2	2.5	2.1	2.6
M5X20	M5	20	9.2	2.5	2.1	2.6
M5X25	M5	25	9.2	2.5	2.1	2.6
M5X30	M5	30	9.2	2.5	2.1	2.6
M5X35	M5	35	9.2	2.5	2.1	2.6
M5X40	M5	40	9.2	2.5	2.1	2.6
M6X8	M6	8	11	3	2.8	3.3
M6X10	M6	10	11	3	2.8	3.3
M6X12	M6	12	11	3	2.8	3.3
M6X16	M6	16	11	3	2.8	3.3
M6X20	M6	20	11	3	2.8	3.3
M6X25	M6	25	11	3	2.8	3.3
M6X30	M6	30	11	3	2.8	3.3
M6X35	M6	35	11	3	2.8	3.3
M6X40	M6	40	11	3	2.8	3.3
M6X45	M6	45	11	3	2.8	3.3
M6X50	M6	50	11	3	2.8	3.3