Stainless Steel Pan Head Machine Screw

Standard： ISO7045 , DIN7985, GB/T819.1-2000, GB/T818-2000(Philips Driver), DIN85 , ISO1580, GB/T67-2000 (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：Pan Head

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

Tensile strength：700N/mm2

Stainless Steel Pan 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.

Austentic - 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, austentic 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.

Pan head screws are a type of fastener that binds materials together or tightens the connection of two or more materials. The top of a pan head screw is wider than any other screw head. This characteristic makes the screw resemble a frying pan. Pan head screws feature a helical ridge known as a thread that is wrapped around a cylinder. This allows the screw to easily descend into the material it is fastening. Other types of screw heads include button, round, truss, flat and oval. These types are all more abbreviated and require more precise screwdriver work. To fasten a pan head screw, rest a screwdriver's end in the groove on top of the head and turn it clockwise. This will fasten the materials that are being joined or tightened

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

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

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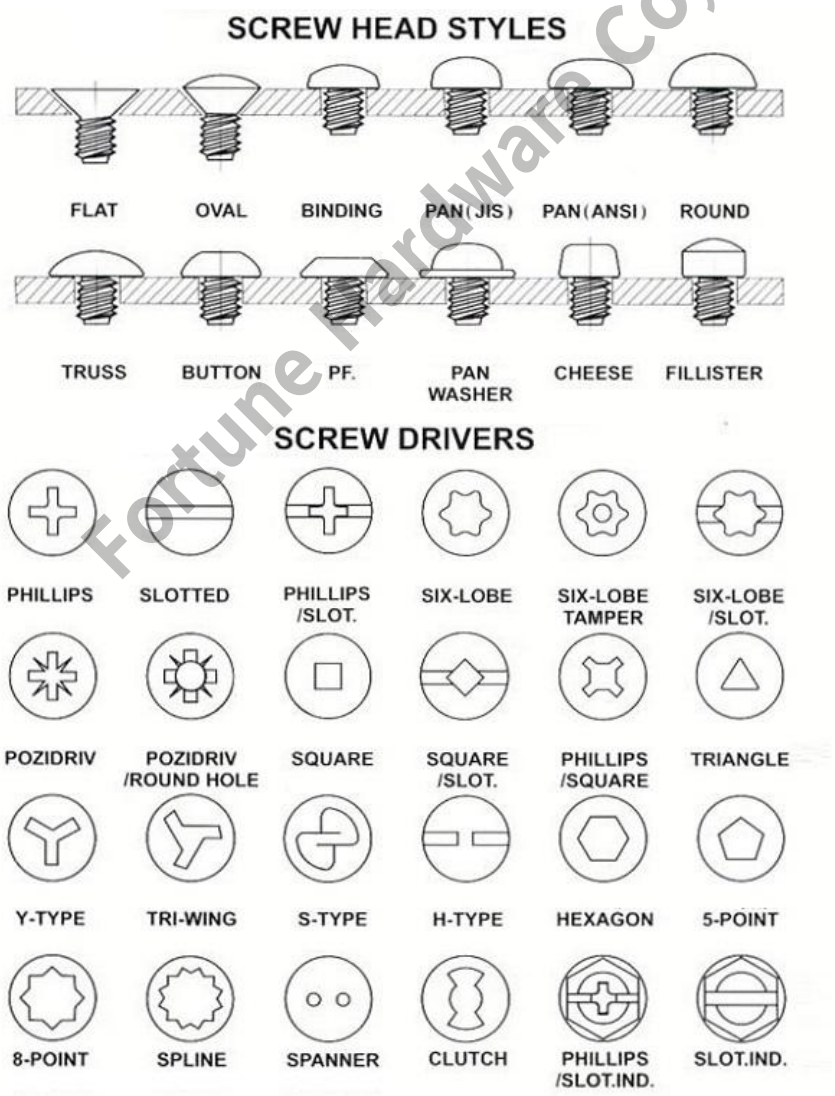
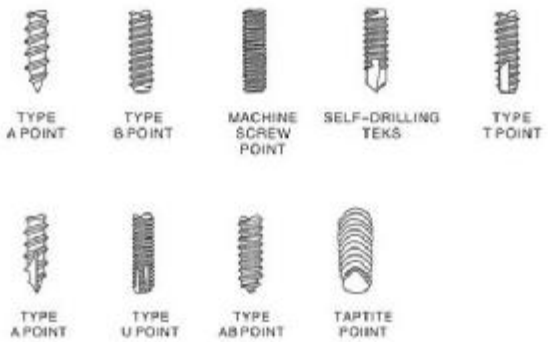


Thread Ending



And below is the common drawing for this kind:

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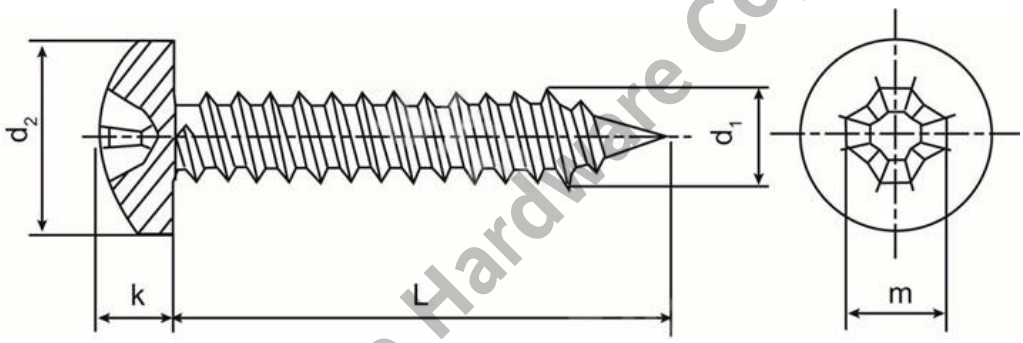

Below chart show some typical dimensions of them, you can refer it, or you can change it for your own design, if you want know more standard dimensions of screw , you can contact us.

Item	d1(mm)	L(mm)	d2 max.(mm)	k max.(mm)	m~(mm)	t min(mm)	t max(mm)
M2.5X10	M2.5	10	5	2.1	2.7	1.15	1.55
M2.5X12	M2.5	12	5	2.1	2.7	1.15	1.55
M2.5X14	M2.5	14	5	2.1	2.7	1.15	1.55
M2.5X16	M2.5	16	5	2.1	2.7	1.15	1.55
M2.5X18	M2.5	18	5	2.1	2.7	1.15	1.55
M2.5X20	M2.5	20	5	2.1	2.7	1.15	1.55
M2.5X22	M2.5	22	5	2.1	2.7	1.15	1.55
M2.5X25	M2.5	25	5	2.1	2.7	1.15	1.55
M2.5X4	M2.5	4	5	2.1	2.7	1.15	1.55
M2.5X5	M2.5	5	5	2.1	2.7	1.15	1.55
M2.5X6	M2.5	6	5	2.1	2.7	1.15	1.55
M2.5X8	M2.5	8	5	2.1	2.7	1.15	1.55
M2X10	M2	10	4	1.6	1.9	0.9	1.2
M2X12	M2	12	4	1.6	1.9	0.9	1.2
M2X14	M2	14	4	1.6	1.9	0.9	1.2
M2X16	M2	16	4	1.6	1.9	0.9	1.2
M2X18	M2	18	4	1.6	1.9	0.9	1.2
M2X4	M2	4	4	1.6	1.9	0.9	1.2
M2X5	M2	5	4	1.6	1.9	0.9	1.2
M2X6	M2	6	4	1.6	1.9	0.9	1.2
M2X8	M2	8	4	1.6	1.9	0.9	1.2
M3X10	M3	10	5.6	2.4	3	1.4	1.8
M3X12	M3	12	5.6	2.4	3	1.4	1.8
M3X14	M3	14	5.6	2.4	3	1.4	1.8
M3X16	M3	16	5.6	2.4	3	1.4	1.8
M3X18	M3	18	5.6	2.4	3	1.4	1.8
M3X20	M3	20	5.6	2.4	3	1.4	1.8
M3X22	M3	22	5.6	2.4	3	1.4	1.8
M3X25	M3	25	5.6	2.4	3	1.4	1.8
M3X28	M3	28	5.6	2.4	3	1.4	1.8

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M3X30	M3	30	5.6	2.4	3	1.4	1.8
M3X35	M3	35	5.6	2.4	3	1.4	1.8
M3X4	M3	4	5.6	2.4	3	1.4	1.8
M3X40	M3	40	5.6	2.4	3	1.4	1.8
M3X45	M3	45	5.6	2.4	3	1.4	1.8
M3X5	M3	5	5.6	2.4	3	1.4	1.8
M3X6	M3	6	5.6	2.4	3	1.4	1.8
M3X8	M3	8	5.6	2.4	3	1.4	1.8
M4X10	M4	10	8	3.1	4.4	1.9	2.4
M4X12	M4	12	8	3.1	4.4	1.9	2.4
M4X14	M4	14	8	3.1	4.4	1.9	2.4
M4X16	M4	16	8	3.1	4.4	1.9	2.4
M4X18	M4	18	8	3.1	4.4	1.9	2.4
M4X20	M4	20	8	3.1	4.4	1.9	2.4
M4X22	M4	22	8	3.1	4.4	1.9	2.4
M4X25	M4	25	8	3.1	4.4	1.9	2.4
M4X28	M4	28	8	3.1	4.4	1.9	2.4
M4X30	M4	30	8	3.1	4.4	1.9	2.4
M4X35	M4	35	8	3.1	4.4	1.9	2.4
M4X40	M4	40	8	3.1	4.4	1.9	2.4
M4X45	M4	45	8	3.1	4.4	1.9	2.4
M4X5	M4	5	8	3.1	4.4	1.9	2.4
M4X50	M4	50	8	3.1	4.4	1.9	2.4
M4X6	M4	6	8	3.1	4.4	1.9	2.4
M4X60	M4	60	8	3.1	4.4	1.9	2.4
M4X8	M4	8	8	3.1	4.4	1.9	2.4
M5X10	M5	10	9.5	3.7	4.9	2.4	2.9
M5X12	M5	12	9.5	3.7	4.9	2.4	2.9
M5X14	M5	14	9.5	3.7	4.9	2.4	2.9
M5X16	M5	16	9.5	3.7	4.9	2.4	2.9
M5X18	M5	18	9.5	3.7	4.9	2.4	2.9
M5X20	M5	20	9.5	3.7	4.9	2.4	2.9
M5X22	M5	22	9.5	3.7	4.9	2.4	2.9
M5X25	M5	25	9.5	3.7	4.9	2.4	2.9
M5X28	M5	28	9.5	3.7	4.9	2.4	2.9
M5X30	M5	30	9.5	3.7	4.9	2.4	2.9
M5X35	M5	35	9.5	3.7	4.9	2.4	2.9
M5X40	M5	40	9.5	3.7	4.9	2.4	2.9
M5X45	M5	45	9.5	3.7	4.9	2.4	2.9
M5X50	M5	50	9.5	3.7	4.9	2.4	2.9
M5X55	M5	55	9.5	3.7	4.9	2.4	2.9
M5X60	M5	60	9.5	3.7	4.9	2.4	2.9
M5X8	M5	8	9.5	3.7	4.9	2.4	2.9

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M6X10	M6	10	12	4.6	6.9	3.1	3.6
M6X12	M6	12	12	4.6	6.9	3.1	3.6
M6X14	M6	14	12	4.6	6.9	3.1	3.6
M6X16	M6	16	12	4.6	6.9	3.1	3.6
M6X18	M6	18	12	4.6	6.9	3.1	3.6
M6X20	M6	20	12	4.6	6.9	3.1	3.6
M6X22	M6	22	12	4.6	6.9	3.1	3.6
M6X25	M6	25	12	4.6	6.9	3.1	3.6
M6X30	M6	30	12	4.6	6.9	3.1	3.6
M6X35	M6	35	12	4.6	6.9	3.1	3.6
M6X40	M6	40	12	4.6	6.9	3.1	3.6
M6X45	M6	45	12	4.6	6.9	3.1	3.6
M6X50	M6	50	12	4.6	6.9	3.1	3.6
M6X60	M6	60	12	4.6	6.9	3.1	3.6
M6X65	M6	65	12	4.6	6.9	3.1	3.6
M6X8	M6	8	12	4.6	6.9	3.1	3.6
M8X10	M8	10	16	6	9	4	4.6
M8X12	M8	12	16	6	9	4	4.6
M8X14	M8	14	16	6	9	4	4.6
M8X16	M8	16	16	6	9	4	4.6
M8X18	M8	18	16	6	9	4	4.6
M8X20	M8	20	16	6	9	4	4.6
M8X22	M8	22	16	6	9	4	4.6
M8X25	M8	25	16	6	9	4	4.6
M8X30	M8	30	16	6	9	4	4.6
M8X35	M8	35	16	6	9	4	4.6
M8X40	M8	40	16	6	9	4	4.6
M8X45	M8	45	16	6	9	4	4.6
M8X50	M8	50	16	6	9	4	4.6
M8X55	M8	55	16	6	9	4	4.6
M8X60	M8	60	16	6	9	4	4.6
M8X65	M8	65	16	6	9	4	4.6
M8X70	M8	70	16	6	9	4	4.6
M10X12	M10	12	20	7.5	10.1	5.2	5.8
M10X20	M10	20	20	7.5	10.1	5.2	5.8
M10X25	M10	25	20	7.5	10.1	5.2	5.8
M10X30	M10	30	20	7.5	10.1	5.2	5.8
M10X35	M10	35	20	7.5	10.1	5.2	5.8
M10X40	M10	40	20	7.5	10.1	5.2	5.8
M10X45	M10	45	20	7.5	10.1	5.2	5.8
M10X50	M10	50	20	7.5	10.1	5.2	5.8
M10X55	M10	55	20	7.5	10.1	5.2	5.8
M10X60	M10	60	20	7.5	10.1	5.2	5.8

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