

Machined Circular Plates

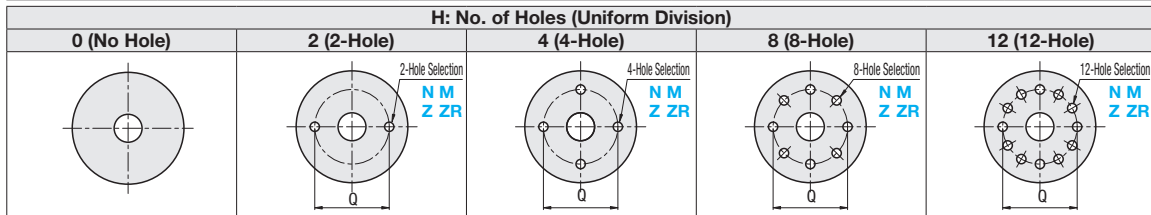
Type	Material
SS	1018 Carbon Steel
SC	1049 Carbon Steel
AL	5052-H112 Aluminum Alloy
SU	303 Stainless Steel

Shape: F (Flat) Shape: X (Concave) Shape: Z (Convex)

Hole Machining: Select from the diagram below.

*For shape X and Z, there is a ØW for each.

Part Number		1mm Increment				Selection			1mm Increment	
Type	Shape	T	D	V	W	S	H: Number of Holes	Hole Selection	Nominal Dia.	Q
SS (1018 Carbon Steel)	F (Flat)	8	60~300	10~100	20~260 W-V≥10 D-W≥20	5~25 T-S≥5	0 2 4 8 12	N (Through Hole) M (Tapped Hole) Z (Counterbored Hole) ZR (Back Surface Counterbore)	5 6 8 10	35~280 Q>W+d1 (d2)+2b1 (Refer to Machining Limits at the bottom of this page.)
SC (1049 Carbon Steel)	X (Concave)	10								
AL (5052 Aluminum Alloy)	Z (Convex)	15								
		20								
SU (303 Stainless Steel)		25								
		30								



Hole Type Code	Through Hole	Tapped Hole	Counterbored Hole	Back Surface Counterbore
N				
M				
Z				
ZR				

Machining Specifications	Nominal Dia.				Bolt Nominal Dia.			
	5	6	8	10	5	6	8	10
d1	5.5	6.5	9	11	5.5	6.5	9	11
d2					9.5	11	14	18

The pilot hole for tapping goes through when Mx2<T.
The pilot hole for tapping goes through when Mx2>T.

For bolt nominal diameter 6, T≥10 (when Shape Z, T-S≥10)
For 8 and 10, T≥15 (T-S≥15, when shape Z)

Ordering Example: **Part Number** Type Shape T D V W S H Hole Selection Code / Nominal Dia. Q

SS F 10 60 100 200 5 0 - D100 - V20 - W60 - S5 - H4 - N5 - Q60

SS X 10 60 100 200 5 0 - D100 - V50 - W60 - S5 - H4 - M5 - Q80

Days to Ship [Configure Online](#) Alterations **Part Number** Type Shape T D V W S H Hole Selection Code / Nominal Dia. Q (WA, WB, WC, PC)

SS Z 20 - D200 - V30 - W100 - S10 - H4 - Z5 - Q150-WB-PC10-PX75

Machining Limits of Q and PX

Through Hole (N)	Tapped Hole (M)	Dowel Hole (PC)	Nominal Dia.			
d1	d1	d1	5	6	8	10
5.5	5.5	5.5	6.5	9	11	
4.5	4.5	4.5	7.5	9		

Counterbored Hole (Z)	Back Surface Counterbore (ZR)	Nominal Dia.			
d2	d2	5	6	8	10
9.5	9.5	11	14	18	
2.5	2.5	3	4.5	5	

H: hole diameter in the diagram indicates d1, M and dz.

Alterations	Code	Spec.	Price Adder
W Tolerance 	WA WB WC	Shape Tolerance Code X (Concave) H7 WA Z (Convex) g6 WB h6 WC	
Dowel Hole 	PC	Ordering Code: PC (Selectable), PX (Configurable) Ordering Example: PC10-PX50 PC Selection = 5, 6, 8, 10 Depth PC = Through (Effective Depth PCx3) PX: 2PX-W+d1 (d2)+2b1 Refer to Machining Limits. When there are motor mounting holes, the dowel holes will be located on a center line between the screw holes. (refer to Fig. 1)	

Price [Configure Online](#)

Hole Machining Charge

H	Price
No Hole	
2-Hole	
4-Hole	
8-Hole	
12-Hole	

Shape Price

Type	T	D	V	Unit Price		
				Shape F	Shape X	Shape Z
SS (1018 Carbon Steel)	8	60-100	10-50			
			51-80			
			10-50			
	10	101-200	10-50			
			51-100			
			10-50			
	15	201-300	10-50			
			51-100			
			10-50			
	20	60-100	10-50			
			51-80			
			10-50			
	25	101-200	10-50			
			51-100			
			10-50			
30	201-300	10-50				
		51-100				
		10-50				

Type	T	D	V	Unit Price		
				Shape F	Shape X	Shape Z
SC (1049 Carbon Steel)	8	60-100	10-50			
			51-80			
			10-50			
	10	101-200	10-50			
			51-100			
			10-50			
	15	201-300	10-50			
			51-100			
			10-50			
	20	60-100	10-50			
			51-80			
			10-50			
	25	101-200	10-50			
			51-100			
			10-50			
30	201-300	10-50				
		51-100				
		10-50				

Type	T	D	V	Unit Price		
				Shape F	Shape X	Shape Z
AL (5052 Aluminum Alloy)	8	60-100	10-50			
			51-80			
			10-50			
	10	101-200	10-50			
			51-100			
			10-50			
	15	201-300	10-50			
			51-100			
			10-50			
	20	60-100	10-50			
			51-80			
			10-50			
	25	101-200	10-50			
			51-100			
			10-50			
30	201-300	10-50				
		51-100				
		10-50				

Type	T	D	V	Unit Price		
				Shape F	Shape X	Shape Z
SU (303 Stainless Steel)	8	60-100	10-50			
			51-80			
			10-50			
	10	101-200	10-50			
			51-100			
			10-50			
	15	201-300	10-50			
			51-100			
			10-50			
	20	60-100	10-50			
			51-80			
			10-50			
	25	101-200	10-50			
			51-100			
			10-50			
30	201-300	10-50				
		51-100				
		10-50				

Example