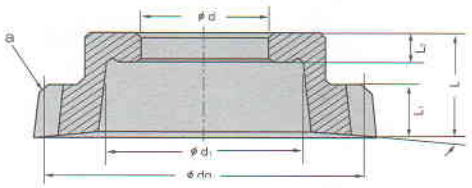
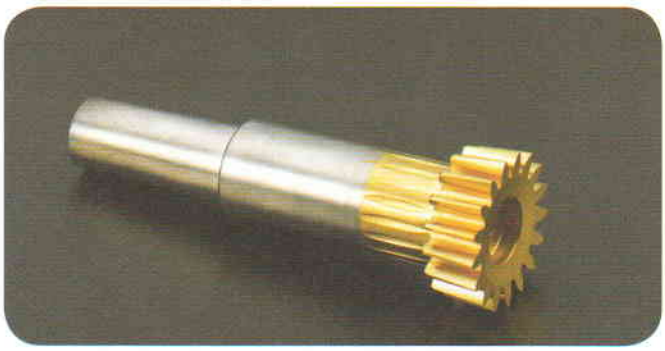
Bell Type

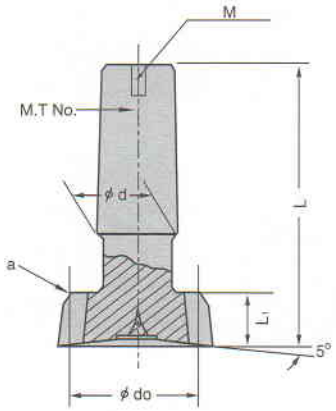


Unit: mm

Type	Module (M)			No. of Teeth(Z)	P.C.D do (M×z)	Hole Dia (d)	L	L_1	L_2	d_1	a
50		0.75		67	50.25	19.050	22	12	6.5	28	3
	0.8			63	50.4						
	0.9			56	50.4						
	1			50	50		28	15	8		
	1.25			40	50						
	1.5			34	51						
		1.75		29	50.75						
	2			25	50						
		2.25		23	51.75						
	2.5			24	60						
	2.75			22	60.5						
	3			20	60						
			3.25	19	61.75						
		3.5		18	63						
		3.75		16	60						
	4			15	60						
75		0.75		100	75	31.742	32	12	8	50	3
	0.8			94	75.2						
		0.9		84	75.8						
	1			75	75		38	15	10		
	1.25			60	75						
	1.5			50	75						
		1.75		43	75.25						
	2			38	76						
		2.25		34	76.5		38	18			
	2.5			30	75						
		2.75		28	77						
	3			28	78						
		3.25		24	78						
		3.5		23	80.5						
		3.75		21	78.75						
	4			20	80						
		4.5		18	81						
	5			16	80						
100	1			100	100	31.742 (44.450)	38	18	10	85	4.5
	1.25			80	100						
	1.5			67	100.5						
		1.75		58	101.5						
	2			50	100						
		2.25		45	101.25						
	2.5			40	100		40	22			
		2.75		37	101.75						
	3			34	102						
			3.25	31	100.75						
		3.5		29	101.5						
			3.75	27	101.25						
	4			25	100						
		4.5		23	103.5						
	5			21	105						
		5.5		19	104.5						
	6			18	108						
			6.5	17	110.5						
		7		18	112						

Shank Type



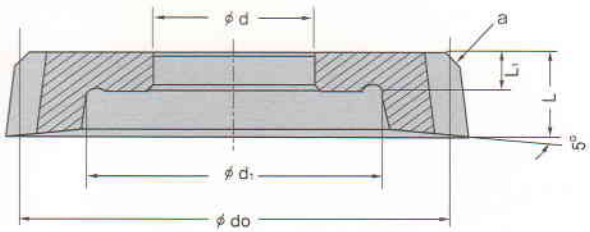


Please indicate a screw specification of "M" when you order.

Unit: mm

Type	Module (M)			No. of Teeth(Z)	P.C.D do (M×z)	L	L_1	M.T Shank No.	a
25		0.75		34	25.5	63	10	MT.2 X M10	2
	0.8			32	25.8				
		0.9		28	25.2				
	1			25	25	80	12		
	1.25			20	25				
	1.5			17	25.5				
		1.75		15	26.25		15		
	2			13	26				
		2.25		12	27				
	2.5			10	25				
38		0.75		51	38.75	100	12	MT.3 X M12	5
	0.8			48	38.4				
		0.9		43	38.7				
	1			38	38		15		
	1.25			31	38.75				
	1.5			28	38				
		1.75		22	38.5		18		
	2			19	38				
		2.25		17	38.25				
	2.5			16	40				
		2.75		14	38.5				
	3			13	38				
			3.25	13	42.25	125		MT.4 X M16 Fellow Type M12	
		3.5		13	48.5				
			3.75	13	48.75				
	4			13	52				

Disk Type



*This cutter is for cutting a spur gear and the standard distance is indicated below.

Unit: mm

Type	Module (M)			No. of Teeth (Z)	P.C.D do (M×z)	Hole Dia (d)	L	L1	d1	a
75		0.75		100	75	31.742	12		50	3
	0.8			94	75.2					
		0.9		84	75.8					
	1			75	75		15	6.5		
		1.25		60	75					
	1.5			50	75					
		1.75		43	75.25					
	2			38	76		18	8		
		2.25		34	76.5					
	2.5			30	75					
		2.75		28	77					
	3			25	75					
			3.25	24	78					
		3.5		22	77					
			3.75	20	75					
	4			19	78					
		4.5		17	76.5					
	5			15	75					
100	1			100	100	31.742 (44.450)	18	10	6.5	4.5
	1.25			80	100					
	1.5			67	100.5					
		1.75		58	101.5					
	2			50	100					
		2.25		45	101.25		22			
	2.5			40	100					
		2.75		37	101.75					
	3			34	102					
			3.25	31	100.75					
		3.5		29	101.5					
			3.75	27	101.25					
	4			25	100					
		4.5		23	103.5					
	5			20	100					
		5.5		19	104.5					
	6			17	102					
				16	104					
		7		15	105					

Unit: mm

Type	Module (M)			No. of Teeth (Z)	P.C.D do (M×z)	Hole Dia (d)	L	L1	d1	a
125	2			83	126	44.450	22	10	85	4.5
		2.25		58	124					
	2.5			50	125					
		2.75		42	126.5		24			
	3			46	126					
			3.25	38	126.75					
		3.5		33	126					
			3.75	34	127.5					
	4			32	128					
		4.5		28	126					
	5			25	125					
		5.5		23	126.5					
	6			21	126					
			6.5	20	130					
		7		19	133					
	8			17	136					
150	2			75	150	44.450	24	12	85	4.5
		2.25		67	150.75					
				60	150					
		2.75		55	151.25					
	3			50	150					
			3.25	47	152.75		26			
		3.5		43	150.5					
			3.75	40	150					
	4			38	152					
		4.5		34	153					
	5			30	150					
		5.5		28	154					
	6			25	150					
			6.5	24	158		30			
		7		22	154					
	8			19	152					
		9		17	153					
	10			15	150					

■ Below Module 1

Terms	PCD								
	10~50 Class			50~125 Class			125~280 Class		
	AA	A	B	AA	A	B	AA	A	B
Tooth Profile Error	2	2.5	3.5	2	2.5	3.5	2	2.5	3.5
Pressure Angle Error	2	2.5	3.5	2	2.5	3.5	2	2.5	3.5
Pressure Angle Form Error	2.5	3.5	5	2.5	3.5	5	2.5	3.5	5
Sigle Division Error	2.5	3.5	5	2.5	3.5	5	3	4	5.5
Adjacency Division Error	3	4.5	6	3.5	4.5	6.5	3.5	5	7
Accumulated Pitch Error	6.5	9	13	9	12	16	10	14	19
Run Out	6	9	11	7	10	12	8	10	14
Max Error	2.5	4	5	3.5	4.5	6	4.5	6	9

■ Module 1~2

Terms	PCD								
	10~50 Class			50~125 Class			125~280 Class		
	AA	A	B	AA	A	B	AA	A	B
Tooth Profile Error	2	3	4.5	2	3	4.5	2	3	4.5
Pressure Angle Error	2	3	4	2	3	4	2	3	4
Pressure Angle Form Error	3	4	6	3	4	6	3	4	6
Sigle Division Error	2.5	3.5	5	2.5	4	5	3	4	5.5
Adjacency Division Error	3	4.5	6	3	5	6	3.5	5	7
Accumulated Pitch Error	7	10	14	9	14	18	11	16	20
Run Out	7	10	12	8	10	14	9	11	16
Max Error	3	4.5	6	3.5	5	7	4.5	6	8

■ Module 2~3.55

Terms	PCD								
	10~50 Class			50~125 Class			125~280 Class		
	AA	A	B	AA	A	B	AA	A	B
Tooth Profile Error	3	4	6	3	4	6	3	4	6
Pressure Angle Error	2	3	4.5	2	3	4.5	2	3	4.5
Pressure Angle Form Error	4	5	7	4	5	7	4	5	7
Sigle Division Error	2.5	3.5	5	2.5	3.5	5	3	4	6
Adjacency Division Error	3	4.5	6	3	4.5	6	3.5	5	8
Accumulated Pitch Error	8	11	16	10	14	20	12	16	22
Run Out	8	10	14	9	11	16	10	12	17
Max Error	3.5	5	7	4.5	6	8	5	7	10

■ Module 3.55~6

Terms	PCD								
	10~50 Class			50~125 Class			125~280 Class		
	AA	A	B	AA	A	B	AA	A	B
Tooth Profile Error	4	5	7	4	5	7	4	5	7
Pressure Angle Error	3	4	5.5	3	4	5.5	3	4	5.5
Pressure Angle Form Error	5	7	9	5	7	9	5	7	9
Sigle Division Error	3	4	6	3	4	6	3.5	4.5	7
Adjacency Division Error	4	5	8	4	5	8	4	5.5	9
Accumulated Pitch Error	8	12	16	10	16	20	12	18	25
Run Out	9	11	16	10	12	17	10	14	19
Max Error	4	6	8	5	7	10	5.5	8	11

■ Module 6~10

Terms	PCD								
	10~50 Class			50~125 Class			125~280 Class		
	AA	A	B	AA	A	B	AA	A	B
Tooth Profile Error	5	7	10	5	7	10	5	7	10
Pressure Angle Error	3.5	5	7	3.5	5	7	3.5	5	7
Pressure Angle Form Error	6	8	12	6	8	12	6	8	12
Sigle Division Error	3.5	5	7	4	5.5	8	4	6	8
Adjacency Division Error	4.5	6	9	5	6.5	10	5	8	10
Accumulated Pitch Error	11	15	22	14	20	25	16	22	28
Run Out	11	15	19	13	17	22	14	19	25
Max Error	5.5	8	11	6	9	12	7	10	14

■ Memo