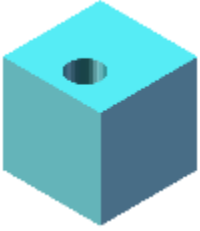
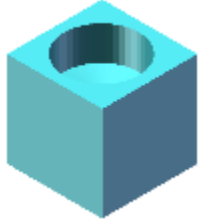

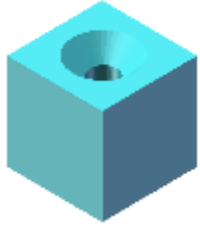

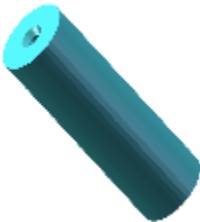


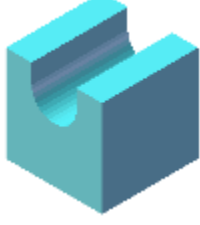

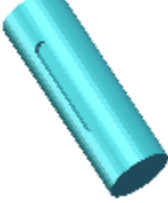
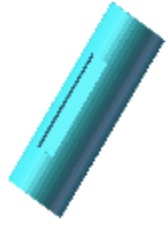
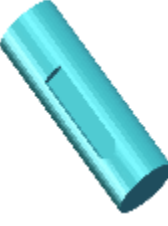
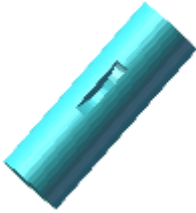





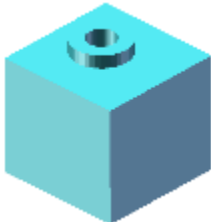
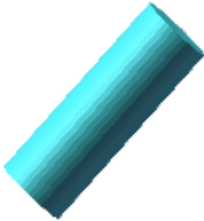



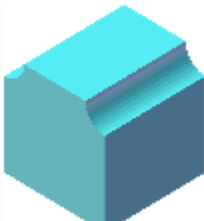
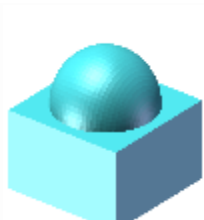
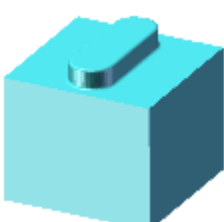
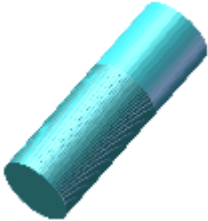
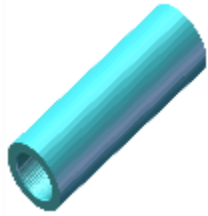


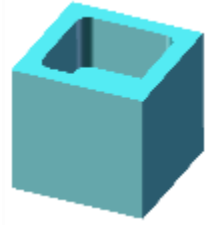
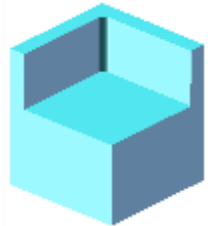


No.	Feature Name	Machining CAD (stl)	Model Parameters	Parameters Range (mm)
1	Round through hole		R C_x C_y	[5, 40] [10+R, 90-R] [10+R, 90-R]
2	Round blind hole		R C_x C_y H_1 H_2 θ	[5, 40] [10+R, 90-R] [10+R, 90-R] [14.5, 70] [5.5, 10] 360°
3	Cylindrical countersunk hole		R_1 R_2 C_x C_y H_1	[20, 40] [5, 18] [10+ R_1 , 90- R_1] [10+ R_1 , 90- R_1] [10, 50]
4	Tapered countersunk hole		R_1 R_2 C_x C_y θ_1 θ_2	[20, 35] [5, 15] [15+ R_1 , 85- R_1] [15+ R_1 , 85- R_1] 45° 360°
5	Round stepped hole		R_1 R_2 C_x C_y θ H	[20, 35] [10, 15] [15+ R_1 , 85- R_1] [15+ R_1 , 85- R_1] 135° [20, 50]
6	A-center hole		R_1 R_2 D θ_1 θ_2	[8, 12] [4, 6] [20, 30] 60° 120°

7	T-through slot		C_x R_1 R_2 H_1 H_2 D	$[40, 60]$ $[10, 20]$ $[25, 35]$ $[15, 25]$ $[30, 40]$ 100
8	V-through slot		C_x R_1 R_2 θ H D	$[40, 60]$ $[20, 35]$ $[3, 5]$ 45° $[3, 5]$ 100
9	Rounded groove		C_x R H D	$[30, 70]$ $[15, 25]$ $[15, 25]$ 100
10	Swallowtail groove		C_x R_1 R_2 θ D	$[45, 55]$ $[15, 20]$ $[30, 35]$ $[130^\circ, 135^\circ]$ 100
11	A-keyway		C_x R D H	$[60, 90]$ $[5, 10]$ $[30, 40]$ $[5, 10]$
12	B-keyway		C_x W D H	$[60, 90]$ $[5, 10]$ $[30, 40]$ $[5, 10]$
13	C-keyway		C_x W D H	$[60, 90]$ $[5, 10]$ $[30, 40]$ $[5, 10]$

14	Half-moon keyway		C_x R D H	[50, 100] [20, 25] 10 [10, 15]
15	Straight groove		W_1 W_2 H D	[15, 25] [30, 50] [10, 20] 100
16	Ring-shaped groove		R_1 R_2 C_R C_x C_y H	[16, 20] [10, 14] [30, 35] [25, 30] [30, 70] [5, 15]
17	Rectangular through step		H W	[15, 80] [15, 80]
18	General step		L_1 W_1 D	[30, 50] [50, 70] [30, 50]
19	Shaft step		R_{x1} R_x H_1 R_{y1} R_y H_2	[15, 20] 25 [50, 60] [12.5, 22.5] 25 [40, 50]
20	Boss		R_1 R_2 C_x C_y h H	[20, 25] [10, 15] [35, 65] [35, 65] [85, 90] 100 - h

21	External cylindrical surface		D H	[45, 55] [120, 180]
22	Plane		L W H	[95, 105] [95, 105] [95, 105]
23	Round		C_{x1} C_{y1} C_{x2} C_{y2} D	[15, 25] [15, 25] [15, 25] [15, 25] 100
24	Chamfer		C_{x1} C_{y1} C_{x2} C_{y2} D	[15, 25] [15, 25] [15, 25] [15, 25] 100
25	Rounding		R D	[15, 20] 100
26	Spherical crown		h R θ	[55, 70] $100 - h$ 180°
27	Convex hull		h L W H R	[85, 90] [50, 60] [25, 30] $100 - h$ 2

28	External screw thread		Number of threads	[40, 60]
29	Internal screw thread		Number of threads D_2	[40, 60] [25, 35]
30	General removal of volume		L_{x1} L_{x2} L_{y2} L_{x3} D	[30, 60] [20, 50] [30, 60] [50, 70] [40, 60]
31	Triangular rib reinforcement		W_1 D L H D_1	[40, 60] [40, 60] [30, 35] [30, 35] [15, 20]
32	Closed Pocket		L W D R	[25, 30] [35, 40] [40, 60] [35, 40]
33	Opened Pocket		L L_1 D	[10, 15] [75, 80] [40, 60]