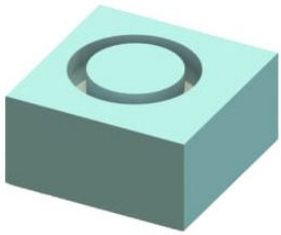
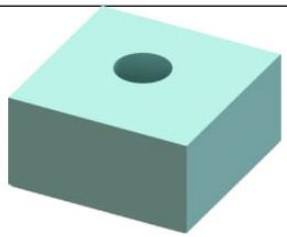
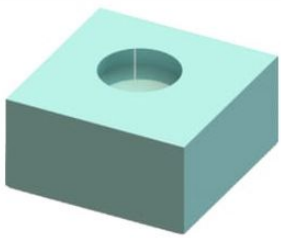
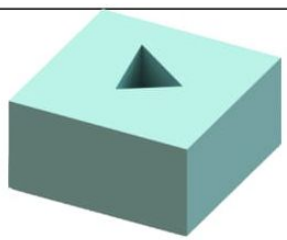
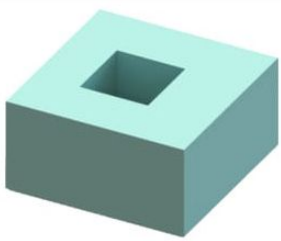
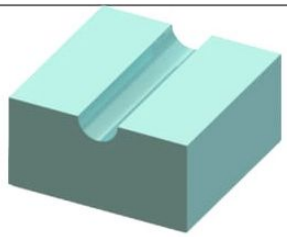
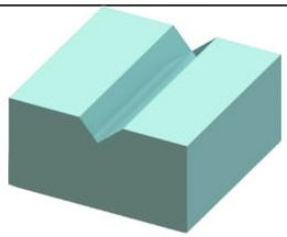
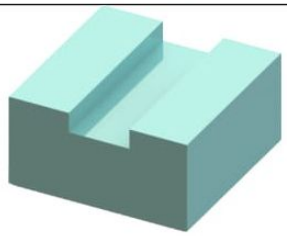
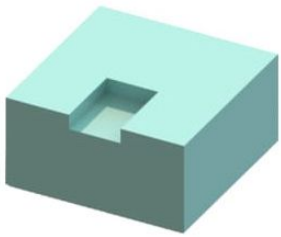
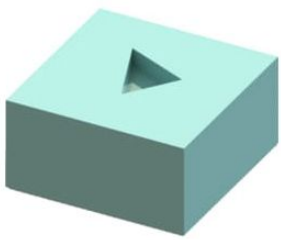
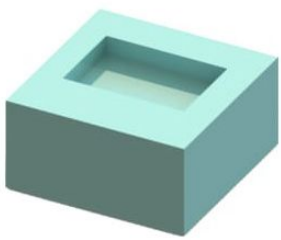
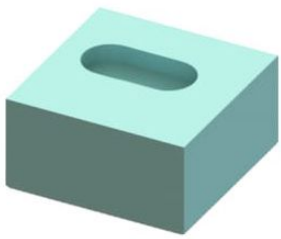
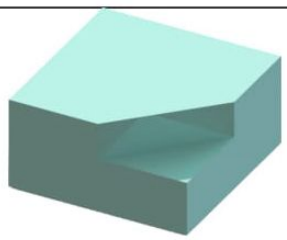
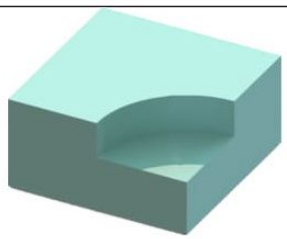
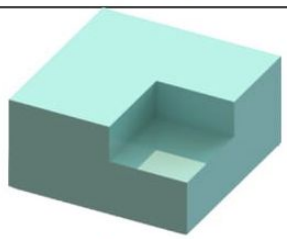
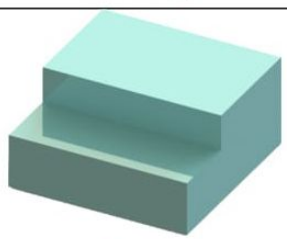
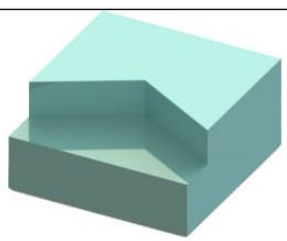
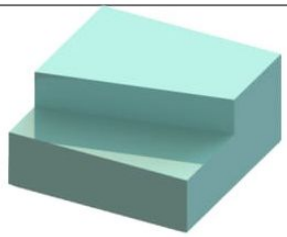
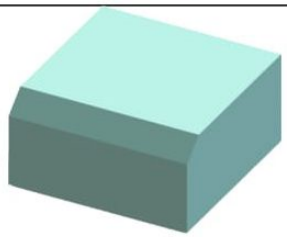
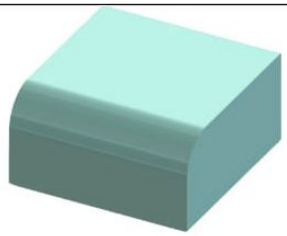
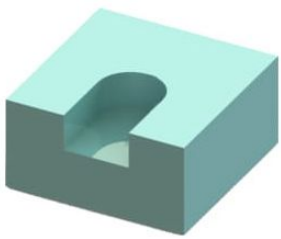
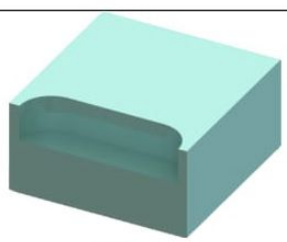
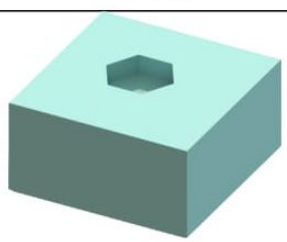
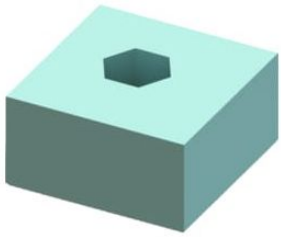
Machining feature set and their parameters

Class	Figure	Name	Parameters	Range (cm)
1		O-ring	R r C_x C_y D	$[1, 4.5]$ $[R/3, R-0.2]$ $[R+0.5, 9.5-R]$ $[R+0.5, 9.5-R]$ $[1, 9]$
2		Through hole	R C_x C_y	$[1, 4.5]$ $[R+0.5, 9.5-R]$ $[R+0.5, 9.5-R]$
3		Blind hole	R C_x C_y D	$[1, 4.5]$ $[R+0.5, 9.5-R]$ $[R+0.5, 9.5-R]$ $[1, 9]$
4		Triangular passage	L X Y	$[1, 9]$ $[0.5, 9.5-L]$ $[0.5, 9.5-L]$
5		Rectangular passage	L W X Y	$[1, 9]$ $[1, 9]$ $[0.5, 9.5-L]$ $[0.5, 9.5-W]$

6		Circular through slot	R X	$[1, 4.5]$ $[R + 0.5, 9.5 - R]$
7		Triangular through slot	W X D	$[1, 9]$ $[0.5, 9.5 - W]$ $[1, 9]$
8		Rectangular through slot	W X D	$[1, 9]$ $[0.5, 9.5 - W]$ $[1, 9]$
9		Rectangular blind slot	W H D X	$[1, 9]$ $[1, 9]$ $[1, 9]$ $[0.5, 9.5 - W]$
10		Triangular pocket	L X Y D	$[1, 9]$ $[0.5, 9.5 - L]$ $[0.5, 9.5 - L]$ $[1, 9]$
11		Rectangular pocket	L W X Y D	$[1, 9]$ $[1, 9]$ $[0.5, 9.5 - L]$ $[0.5, 9.5 - W]$ $[1, 9]$

12		Circular end pocket	W L X Y D	$[1, 8]$ $[1, 9 - W]$ $[W/2 + 0.5, 9.5 - W/2 - L]$ $[1, 9 - W]$ $[1, 9]$
13		Triangular blind step	X Y D	$[1, 9]$ $[1, 9]$ $[1, 9]$
14		Circular blind step	R D	$[1, 9]$ $[1, 9]$
15		Rectangular blind step	X Y D	$[1, 9]$ $[1, 9]$ $[1, 9]$
16		Rectangular through step	W H	$[1, 9]$ $[1, 9]$
17		2-sides through step	A B D	$[1, 8]$ $[A + 0.5, 9]$ $[1, 9]$

18		Slanted through step	A B D	$[1, 9]$ $[1, 9]$ $[1, 9]$
19		Chamfer	X Y	$[1, 9]$ $[1, 9]$
20		Round	R	$[1, 9]$
21		Vertical circular end blind slot	W H D X	$[1, 9]$ $[1, 9.5 - W/2]$ $[1, 9]$ $[0.5, 9.5 - W]$
22		Horizontal circular end blind slot	W L D	$[1, 4]$ $[1, 9 - 2W]$ $[1, 9]$
23		6-sides passage	R C_x C_y	$[1, 4.5]$ $[R + 0.5, 9.5 - R]$ $[R + 0.5, 9.5 - R]$

24		6-sides pocket	R C_x C_y D	$[1, 4.5]$ $[R + 0.5, 9.5 - R]$ $[R + 0.5, 9.5 - R]$ $[1, 9]$