CGCAM-TOOL SolidWorks add-in High Precision CAM System

Feature

《 Point 》

Milling Sample Hub





[Material] S50C(13HRC) [Size] 70mm x 70mm x 30mm



(1)Rest machining with low tool load variation. (2)Smooth movement to keep off cutter mark by instantaneous dwell at turned edge.

Difference of remaining volume

Turned edge

NO.	Process	Tool Dia. (mm)	XY step (mm)	Zstep (mm)	Stock (mm)	Speed (r.p.m)	Feed (mm/min)	Cutting time (hh:mm)
1	Rough1	D6R3	1.1	0.35	0.1	14,000	2,500	00:16
2	Rough2	D4R2	0.7	0.25	0.1	14,000	2,500	00:04
3	Second Rough1	D2R1	0.15	0.1	0.1	16,000	1,500	00:12
4	Second Rough2	D1R0.5	0.12	0.07	0.1	20,000	1,200	00:08
5	Semi Finish	D2R1	0.15	0.1	0.05	16,000	1,500	00:21
6	Finish	D2R1	0.15	(0.089)	0	16,000	1,500	00:22
7	Finish	D2R1	0.089	0.1	0	16,000	1,500	00:13
8	Finish	D2R1	(0.00125)	0.1	0	16,000	1,500	00:06
9	Finish	D1R0.5	0.063	0.07	0	20,000	1,200	00:05
() Cusp height							Total time	1:47

() Cusp height



Cutting processes

[1.Rough] Z-level Roughing D6R3



Insert R

[4.Second Rough] Rest Machining D1R0.5



Z-level + Along surface path

[7. Finish] Low Angle Finishing D2R1



Horizontal area

[2.Rough] Rest Machining D4R2



Rest machining with Insert R

[5.Semi Finish] Z-level Finishing D2R1



Insert R at Turned edge

[8,Finish]

Corner Processing D2R1



Ridgeline path

[3.Second Rough] Rest Machining D2R1



Rest machining with Insert R

[6.Finish] Z-level Finishing D2R1



Cusp height + Insert R

[9,Finish] Corner Processing D1R0.5



Ridgeline path

