

Torlon 5030 cutting Demo

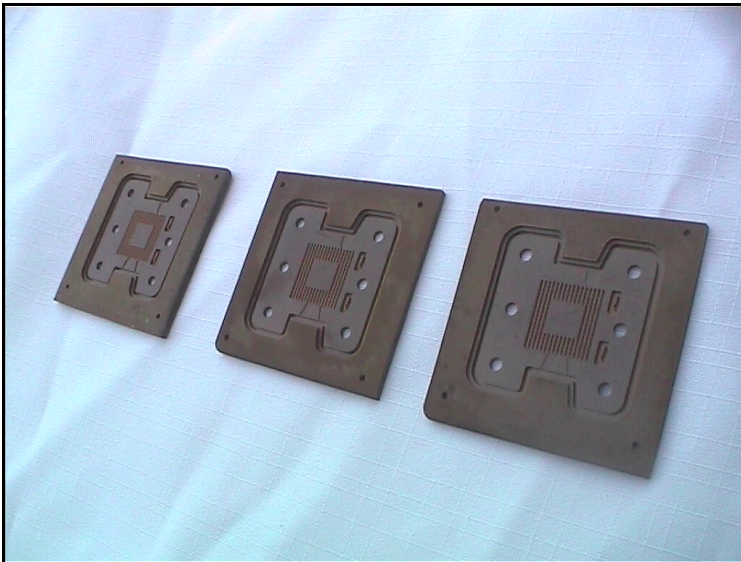
Machine

VIBRA-FREE Ultra-High-Speed-Hard-Milling machine center



- Motorized Ultra-High-Speed spindle with 42000 RPM
 - FANUC 16i CNC and Digital Servo System
 - High Precision Contour Control (HPCC) for dynamic motion accuracy
 - 3D Cutting feed-rate of 472 in/min
 - Rigid Vibration-Free solid back bridge structure
 - Built in 2 GB hard drive and Ethernet Connection
- Pre-Balanced Double Face Contact Tooling System
 - Compact ATC with 18 tools
 - Graphite & hardened tool steel milling
 - Designed and built in Japan

Part (Blank size: 55mm x 55mm x 2.5mm)



Specifications

| | |
|--------------------------|--------------|
| Number of Setups: | 2 |
| Number of cutting tools: | 9 |
| Material: | Torlon 5030 |
| Method of Work Holding: | Double Taped |

Demo Summary

Side: A

| TOOLPATH | CUTTER | Depth of Cut (mm) | RPM | FEED (mm/min) | TIME Cutting Time (Min.) |
|------------|---------------|-------------------|-------|---------------|--------------------------|
| Spot Drill | Spot Drill | | 10000 | 250 | |
| Drill | 1/16" Drill | | 10000 | 250 | |
| Rough | 0.020" F EM | 0.2 | 36000 | 600 | |
| Rough | 0.015" F EM | 0.15 | 36000 | 500 | |
| Drill | 3.157mm Drill | | 10000 | 250 | |
| Drill | 3.18mm Drill | | 10000 | 250 | |
| Finish | 0.010" F EM | 0.1 | 40000 | 400 | |
| Total time | | | | | 37. min |

Side: B

| TOOLPATH | CUTTER | Depth of Cut (mm) | RPM | FEED (mm/min) | Machine Cutting Time (Min.) |
|------------|-------------|-------------------|-------|---------------|-----------------------------|
| Pocket | 1/8" F EM | 0.5 | 30000 | 3175. | |
| Rough | 0.020" F EM | 0.2 | 36000 | 600. | |
| Rough | 0.015" F EM | 0.15 | 36000 | 500. | |
| Finish | 0.010" F EM | 0.1 | 40000 | 400. | |
| Profile | 1mm F EM | 0.45 | 30000 | 400. | |
| Total time | | | | | 31. min |

Machine Cutting Time For Both Sides: 68 Minutes