Haas Super Mini Mill

Haas

Tool Type: CNC
Location: Microfluidics Lab
Description: CNC milling machine
Manufacturer: Haas

Last edited 8/26/22 Haley

About

The Haas Super Mini Mill is a CNC milling machine. Parts can be modeled in SOLIDWORKS and then toolpaths are programmed through an HSM add-in that generates G-code for the machine to read. The Haas can read G-code and .EGC files.

Safety Concerns

- Safety Glasses must be worn when machine is running
- The glass doors must be in closed before starting a job
- The spindle must be completely stopped before adjusting or removing work piece or tool
- After milling is completed, the work piece will have developed sharp burrs which must be removed with a hand file or sandpaper
- Proof your program before running it. The first time you run it, slow the rapid speed and stay by the control panel. It is a good idea to use single block mode the first time you run your program.

Training Documentation

Haas Super Mini Mill Training SOP

Haas mill setup checklist

Detailed Specifications

406 x 305 x 254 mm, 40 taper, 15 hp vector drive, 10,000 rpm, 30.5 m/min rapids, high-speed 10-station automatic tool changer, coolant pump, power-failure detection module, 1 GB program memory, 15″ colour LCD monitor, USB port, memory lock keyswitch, and rigid tapping. Three-phase power only.

- X-axis: 16“
- Y-axis: 12”
- Z-axis: 10“
- Spindle nose to table: 14” max 4“ min
- Table length: 36”
- Work area length: 28.75“
- Width: 12”
- T-slot width: 12“
- T-slot center distance: 4.33”
- # T-slots: 3
- Max load on table: 500 lb
- Max spindle rating: 15 hp
- Max speed: 10,000 rpm
- Max torque: 17 ft-lb @ 4600 rpm
- Taper: 40
- Rapids: 1200 in/min
- Max cutting: 833 in/min
- Max thrust: 2000 lb
- Max tool diameter: 3.5“

Reference Documentation

Pre Install Manual

Programming Manual

Probe Training Manual

Operators Manual

Programming Workbook

RS232 file transfer documentation

Haas / HSMWorks Intro Text