

Haas Super Mini Mill



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. **Due to its complexity, we do not offer regular training for this tool.** If you just need it for a few parts, please use our [Job Submission Google Form](#) and we will machine them for you. If you believe you have a strong need to use this tool, please contact the lab manager.

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"
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Reference Documentation

[Pre Install Manual](#)

[Programming Manual](#)

[Probe Training Manual](#)

[Operators Manual](#)

[Programming Workbook](#)

[RS232 file transfer documentation](#)

[Haas / HSMWorks Intro Text](#)

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