

Precision Matthews Milling Machine

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Tool Type: "Vertical Milling Machine"

Location: "Innovations Workshop"

Supervisor	Tool Lead
David Bothman	"WW Name"
(805) 893-4125	(###) ###-####
bothman@cnsi.ucsb.edu	"WW Email"

Description: "Milling Machine"

Manufacturer: "Matthews"

About

This tool is a bench top milling machine capable of manually machining small parts out of metals, woods, and plastic. Lacking the rigidity of most larger milling machines, this machine falls somewhere between the Haas CNC mill and the ShopBot desktop router and care should be used when selecting appropriate depth of cut.

Training Documentation

[Milling Machine SOP](#)

Detailed Specifications

- Table Size: 19" x 7" x 13"
- Spindle Taper: R8
- RPM range: 50-2500 RPM
- Motor HP: 1 HP

Vice gripping range: 4.5" x 4"

Safety Concerns

- Untrained or unsupervised operators risk serious injury.
 - Risk of metal splinters and burns from flying chips. Wear safety goggles, closed-toe shoes, long pants.
 - Keep body parts clear of spindle and workpiece while machine is moving
 - Take care when handling heavy objects
 - Make sure the part and tool are secured before starting a machining operation
 - Remove chuck keys and other tools before starting the machine
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Reference Documentation

Periodic Maintenance

[coe_student_machine_shop_safety_handout.pdf](#)

[pm-25mv_manual.pdf](#)

[pm-25mv_sop.pdf](#)

[pm_25mv_mill_handout.pdf](#)

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