Made from high-grade American castings; completely machined, ground and assembled in the U.S.

Precision balanced American made Leeson Motor with forward and reverse switch.

All dials are laser-cut; more precise than engraving.

Motor-Spindle assembly made to closer tolerances for better tool finish.

Air bearing sleeve made from stainless steel for long life.

**New** – machine dials zero out in the same manner as a Bridgeport® Mill.

**New** – beautiful powder coated black/silver-vein finish lasts longer.

**New** – radius attachment x-travel now 1” longer.
Keep your machine tools running—constantly. You can’t afford to let a major investment like a machining center sit idle for lack of a sharpened cutting tool. Every second that you lose in downtime is a drain on your cashflow—and profits.

Gain the ability to sharpen all your cutting tools the way you want them—NOW. If you need a special O.D., or if you’re cutting exotic (and even not so exotic) materials and need special clearance angles, you can’t afford to wait several days for an outside source to turn them around. In today’s fast paced world your deliveries have to be on time (or your competitor may take your place) and you must have the ability to react now.

Enable your machine tools to run at peak performance all of the time and improve the quality of your work—by machining with nothing but razor sharp tools.

Get more machining time out of your cutting tools. Because you’ll know that you can regrind your cutting tools within a few minutes you won’t push them until they dull or even break—which means that your cutters will last much, much longer.

Reduce your tool crib inventory—and save money.

Eliminate regrind bills—and save even more money.

Fulfill your customer’s needs on time—and make more money.

**CUTTERMASTER**

The Versatility and Full-Size Universal Grinder in One Size

**SHARPPEN YOUR TOOLS IN-HOUSE WITH THE CUTTERMASTER ENABLES YOU TO:**

- Keep your machine tools running—constantly. You can’t afford to let a major investment like a machining center sit idle for lack of a sharpened cutting tool. Every second that you lose in downtime is a drain on your cashflow—and profits.
- Gain the ability to sharpen all your cutting tools the way you want them—NOW. If you need a special O.D., or if you’re cutting exotic (and even not so exotic) materials and need special clearance angles, you can’t afford to wait several days for an outside source to turn them around. In today’s fast paced world your deliveries have to be on time (or your competitor may take your place) and you must have the ability to react now.
- Enable your machine tools to run at peak performance all of the time and improve the quality of your work—by machining with nothing but razor sharp tools.
- Get more machining time out of your cutting tools. Because you’ll know that you can regrind your cutting tools within a few minutes you won’t push them until they dull or even break—which means that your cutters will last much, much longer.
- Reduce your tool crib inventory—and save money.
- Eliminate regrind bills—and save even more money.
- Fulfill your customer’s needs on time—and make more money.

**PN: CM-01** — Cuttermaster end mill sharpener complete with air bearing fixture, halogen light, grinding wheel, air filter. Wired to 110v/60hz.
**PN: CM-01F** — Cuttermaster end mill sharpener complete with standard accessories and pneumatic finger.
**PN: CM-01M** — Cuttermaster end mill sharpener complete with standard accessories, metric leadscrews, dials & clearance chart. Wired standard to 220v/50hz.
**PN: CM-01MF** — Cuttermaster end mill sharpener complete with standard accessories, metric components and pneumatic finger.
PNEUMATIC FINGER

Gives You All
and Rigidity of a
Tool & Cutter
Makine Machine.

O.D.'s and Ends ground from one setup: After the O.D. has been ground (photo, above left), the end is sharpened (photo, above right) by feeding the grinding wheel past the face of the end mill. The air bearing centerline is automatically set 1/2" below the grinding spindle centerline; end clearance angles are generated by the radius of the wheel. A 2 degree fishtail (or as desired) is achieved by setting the angle on the air bearing swivel base.

FEATURES:

• Grinds O.D.s and ends of standard end mills in one setup within just a few minutes.
• Extremely versatile, and is used for much more than just end mills. With the z-axis you get 8 different axes to work with for unlimited versatility.
• 1 machine grinds it all—end mills, drills, roughing end mills, taps, countersinks, carbide tools, radius end mills, lathe tool bits, various forms tools, reamers, performs gashing and much more! No need to buy extra machines to grind different tools.
• The pneumatic finger instantly & automatically sets primary and secondary clearance angles with the flip of a switch.
• Extremely easy to use—and fast! The machine is always set up and ready to go.

SPECIFICATIONS:

Air bearing stroke—10.5” (266mm)
Air bearing swing over table—9.8” (248mm)
Cutting tool capacity—2” shank, 9.8” O.D., 10.5” flute length
T-Slot dimension—800 x .500 x .670
Table feed graduations—.001 or .02mm
X-Axis table travel—6”
Y-Axis table travel—3”, plus motor slides back & forth 6”

- Dials zero out.
- The Cuttermaster is supplied standard with our patented Jet-Stream air bearing fixture.
- The Jet-Stream air bearing fixture is precision honed and capable of grinding to close tolerances. The spindle sleeve is made from stainless steel, and the spindle itself is hard chromed steel.
- Air bearing has a 360 degree swivel base for taper grinding.
- Takes standard 5c collets, with end mill holders available that can hold shank sizes up to 2” (50mm).
- Tables are cast 50mm iron & precision ground.
- Motor comes standard with forward & reverse switch.
- Motor/spindle assembly tilts to positive and negative angles; cutting tool clearance angles can be adjusted as needed.
- Available with metric or inch graduations.
- Grinding chart provides clearance angles for all end mills from 3/16” - 3”.
- 1 year warranty against factory defects and workmanship.

PNEUMATIC FINGER

• Cuts sharpening time for end mills in half; eliminates the need for raising and lowering the grinding spindle.
• Automatically adjusts the clearance angles for every end mill. As the crossfeed dial moves the finger away from the wheel, the finger drops to a different height.
• Simply flip the toggle switch to go instantly from the primary to the secondary clearance angle.
• Air cylinder guaranteed for 2 million cycles; easily hooks into your existing air supply with an adaptor (included).
• Reduces user fatigue.
• End teeth can be ground from the same setup.
• Stylus is made from solid carbide.

PN: CM-05P
**Z-AXIS — SHARPEN ROUGHING END MILLS, GASH AND MUCH MORE!**

- Enables you to easily sharpen expensive roughing end mills in a matter of minutes.
- Greatly enhances the Cuttermaster’s versatility, provides you with a total of 8 working axes.

**Basic unit comes complete with z-axis unit, air bearing riser & 6” wheel guard.**

- Provides 3-1/4” of vertical travel.
- Enables the motor to swivel 180 degrees.
- Mounts in minutes—easy to use.
- The air bearing riser enables you to sharpen standard end mills without breaking down the setup.

**SPINDLE EXTENSION**

Necessary for sharpening roughing end mills.

**PN: CM-M70**

**CAM SYSTEM — FOR COUNTERSINKS & TAPS**

The Cam Grinding System transforms your Cuttermaster Air Bearing into an Axial/Radial relief fixture. The standard stylus bracket is removed, and replaced with an axial follower. A cam is installed on the front of the air bearing, and the spring housing mechanism pulls the cam back into the axial follower. The basic unit, which is required to use all cams (part number CM-C1) comes with an axial follower, the spring housing mechanism, a handle, and 2 cams for grinding uniflute countersinks. A special wheel with a wide 3/4” face (part number CM-21) is highly recommended.

2 additional cams are available to grind 3, 6, 4 & 8 flute countersinks.

**PN: CM-C1** — Basic Cam Grinding Attachment—includes 2 cams for uniflute countersinks, spring housing, handle and axial follower. Required to use any of the cams.

**PN: CM-C21** — Tap Cam; 2 flutes, 0-3/8”.
**PN: CM-C31** — Tap Cam; 3 flutes, 0-3/8”.
**PN: CM-C32** — Tap Cam; 3 flutes, 3/8” & up.
**PN: CM-C41** — Tap Cam; 4 flutes, 0-5/16”.

**PN: CM-C42** — Tap Cam; 4 flutes, 3/8-5/8”.
**PN: CM-C43** — Tap Cam; 3 flutes, 3/4” & up.
**PN: CM-C50** — Radial follower—required to sharpen taps.
**PN: CM-C53** — 3 & 6 flute Countersink cam.
**PN: CM-C54** — 4 & 8 flute Countersink cam.
**PN: CM-C1P** — Special Cam Package—includes basic unit (CM-C1), all cams as shown above, and radial follower (CM-C50).
**PN: CM-21** — Special wheel for cam grinding —5” cup wheel with 3/4” wide face.

**RADIUS ATTACHMENT**

For sharpening ball end mills, and generating a corner radius on a standard end mill.
- Fixture has a 90 degree stop, and takes 5C collets.
- The optional center finder (right) is needed for grinding corner radii.

**PN: CM-03**

**RADIUS ATTACHMENT CENTER FINDER**

Necessary for grinding corner radii with the radius attachment.

**PN: CM-04**
The drill sharpener that you’ve been asking for is here—

- Sharpens all standard and S-point drills from 1.5mm (1/16") to 26mm (1").
- Accurately sharpens and splits the point from one setup in less than 2 minutes.
- Extremely versatile—point angles and clearance angles can be easily adjusted as needed—unlike the “pencil sharpener” type drill sharpeners which rely on the wheel angle.
- One super-precise European-made 6 jaw drill chuck holds the complete range—no need for extra chucks.
- Sharpens all point angles from 90 to 180 degrees.
- OSG type and other special points can be ground, by using a diamond file to blend the radius.
- Sharpens 2, 3 & 4 flute drills.
- Thru hole in the back of the chucks allows for any length or shank type of drill.
- The wheel can be dressed with the fixture by tilting the head perpendicular to the table and feeding across the wheel with a diamond.
- Uses the grinding wheels listed below.
- Attachment can be purchased separately, or packaged with the Cuttermaster machine.
- Precision-made in the United Kingdom by a world-leading drill grinder manufacturer with more than 50 years of experience, exclusively for the Cuttermaster.

**PN: CM-06** — Cuttermaster Drill Sharpening attachment.

**PN: CM-01D** — Cuttermaster Drill Sharpener with drill sharpening attachment and halogen light, no air bearing fixture.

**PN: CM-01MD** — Cuttermaster Drill Sharpener with drill sharpening attachment and halogen light, no air bearing fixture—machine wired to 220v/50hz with metric leadscrews and dials.

**PN: CM-01SD** — Cuttermaster End Mill Sharpener complete with air bearing fixture, all standard accessories & drill sharpening attachment.

**PN: CM-01MSD** — Cuttermaster End Mill Sharpener complete with air bearing fixture, all standard accessories & drill sharpening attachment—machine wired to 220v/50hz with metric leadscrews and dials.

**PN: CM-23** — 5” cup pink aluminum oxide grinding wheel with 3/4” wide face, 60 grit.

**PN: CM-32** — 5” cup CBN wheel with 3/4” wide face.
**W**orkholding Fixture

Features 4 positioning quadrants for rapid positive setting of any compound angle. Ideal for parallel and angular chip breakers with positive or negative rakes. Also can be used for form tools.

**PN: CM-11**

**Deluxe 2 Door Cabinet**

24” x 36” x 36”, with a middle shelf. Extremely rigid, with plenty of storage space. Comes with locking doors.

**PN: CM-10**

**Cup Grinding Wheels**

All of our grinding wheels are American made.


**PN: CM-22** — Blue Ceramic. Harder than aluminum oxide, they hold their form better, and allow for heavier material removal per pass.

**PN: CM-30** — Diamond; 1/16” depth, 75 concentration. For use with carbide tools only.

**PN: CM-31** — CBN; the very best for high speed steel. No wheel dressing, the best finish, and they hold their form.

**PN: CM-32** — CBN wheel, 100 grit with 3/4” wide face - for use with the drill attachment.

**PN: CM-35** — Diamond wheel, 120 grit with 3/4” wide face - for use with drill attachment.

**PN: CM-08**

**Dish Grinding Wheels**

For use with the Z-Axis. Used to sharpen roughing end mills; for fluting, gashing and other operations. To be used only with the special Z-Axis wheel guard.

**PN: CM-25** — 6” Blue Ceramic with 1-1/4” arbor.

**PN: CM-26** — 6” Pink aluminum oxide with 1-1/4” arbor.

**PN: CM-33** — 6” Diamond dish, 1-1/4” arbor, 150 grit.

**PN: CM-34** — 6” CBN dish, 1-1/4” arbor, 120 grit.


**PN: 5CMS-6** — 6 piece metric collet set; 6MM, 10MM, 12MM, 16MM, 20MM, 25MM. Metric collets are also available in individual sizes from 3MM–26MM.

**PN: 5CHS-6** — 6 piece (1/4”, 3/8”, 1/2”, 5/8”, 3/4”, 1”) Hardinge 5ST 4 split collets—the best accuracy in a 5C collet.

**PN: CM-12**

**End Mill Holders**

Needed to grind tools with larger shanks.

**5CE-114** 1-1/4” end mill holder.

**5CE-32** 32MM end mill holder.

**5CE-112** 1-1/2” end mill holder.

**5CE-40** 40MM end mill holder.

**5CE-2** 2” end mill holder.

**5CE-50** 50MM end mill holder.

**PN: CM-11**

**Taper Attachment**

For grinding tapered end mills.

**PN: CM-08**

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Tools for the hands of a craftsman