

TOYCEN

Cuttermasters.com

The most complete source world wide for user friendly
machines for machinists

2014 Product Lineup



Tradesman DC Variable Speed
Bench Grinder



Journeyman End Mill Grinder with
Drill / Countersink Grinder



Journeyman End Mill Grinder

TOYCEN

CUTTERMASTER JOURNEYMAN

A TOYCEN INNOVATION FOR 2014

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JX



Ends the Correct Way

Air Bearing Stroke	10.5" (266.7mm)
Air Bearing Swing Over Table	9.8" (248.92)
Cutting Tool Capacity	2" shank, 9.8" O.D.
Flute Length	10.5"
T-Slot Dimension	0.8" (20.32mm) x 0.5" (12.7mm) x 0.67" (17.018mm)
X-Axis Table Travel	6" (152.4mm)
Y-Axis Table Travel	3" (76.2mm) + slides 6" (152.4mm)
X-Axis Table Working Space	16.5" (419.1mm) x 5.5" (139.7mm)
Y-Axis Table Working space	13" (330.2) x 5.5" (139.7)
Wheel	Any tool grinding wheel
Motor Tilt	+35° -10°
Motor	400 - 4000 rpm, 500 W



Flute Sharpening



Tapered Weldon Flat Grinding



Drill Sharpening



Reduced Neck Grinding



Annular Cutter Sharpening



Countersink Sharpening



Tool Cut Off



Tap Sharpening

The CUTTERMASTER Journeyman JX is designed to be easy to set up and easy to use when grinding and re-grinding modern cutting tool materials and geometries.

The DCK single wheel drive will mount any tool grinder wheel including Cuttermasters' precision plated wheels, is reversible, variable speed and produces ten times the torque of the standard 1/3 HP motor (5 Foot Pounds @ 1000 rpm). This eliminates tool burning by facilitating heavy cuts at greatly reduced RPM, cutting grinding times in half on some tools.

This new Torque Compensating DC Drive System has more down tilt and also swivels on the base to allow for faster alignment and positioning for grinding of countersinks, reamers, annular cutters and side and face cutters.



Engineering and Prototyping - 2353 Ridgecrest Place, Ottawa ON K1H 7V4
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TOYCEN

TRADESMAN

DESIGNED BY JEFF TOYCEN

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- REMOVE UP TO 50% MORE MATERIAL AT LOWER RPM
- GRIND JUST ABOUT ANYTHING WITHOUT WHEEL LOAD-UP OR GLAZING
- CONSISTENTLY FLAT AND PRECISE GRINDING SURFACE

A TRULY POWERFUL VARIABLE SPEED TOOL GRINDER

This is not your father's bench grinder with lumpy stone wheels, dust and the required bucket of water.

In the world of bench grinders with conventional wheels about 50% of the effort, energy and torque in the grinding process is wasted in wheel wear and consumption causing heat and high loss in efficiency.

Using a Toycen Tradesman Precision DC Grinder equipped with Cuttermasters' Precision Superabrasive Wheels virtually all of the energy and mechanical effort is available for grinding "milling" action.

This setup provides substantially higher torque and presents a new physical environment where material can be removed about twice as fast and at substantially lower rpm.

The Toycen Tradesman Precision DC Grinder makes possible the grinding of carbide, carbon fiber, fiberglass, and plastics without the wheels loading up or glazing.

It's a new day.

Lathe Bit Sharpening



SPEED / TORQUE COMPENSATION CONTROL
5X MORE POWERFUL THAN YOUR AVERAGE 8"
5 FT·LBS AT 1000 RPM GRINDER



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TOYCEN

DC TOWER FOR CUTTERMASTER

A TOYCEN INNOVATION

DCT



FLUTES



REDUCED NECK



EASY ENDS

Toycon DC Drives for CUTTERMASTER are an upgrade to the venerable, 1972 CUTTERMASTER to a configuration that is more useful for modern cutting tool materials and geometries.

The DC Tower will mount any tool grinder wheel including Cuttermasters' precision plated wheels, is reversible, variable speed and produces ten times the torque of the standard 1/3 HP motor (5 Foot Pounds @ 1000 rpm). This eliminates tool burning by facilitating heavy cuts at greatly reduced RPM, cutting grinding times in half on some tools.

The Toycon DC Tower is an infinitely variable and powerful variable speed wheel head with the Toycon DC conDrive System. It can replace the CUTTERMASTER motor and control and fits the CUTTERMASTER models FCG- 30, CM-01, CMX, HDT-30 or any tool grinder with a table and T slot.

This revolutionary product was designed and built in our own shop. Now you can grind reduced necks and flats on carbide shanks, and sharpen reamers, saws, annular cutters, hogger mills, taps, side and face cutters, countersinks and step drills on your CUTTERMASTER.

Jeff Toycon,
Toycon Industries



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TOYCEN

CUTTERMMASTER PROFESSIONAL

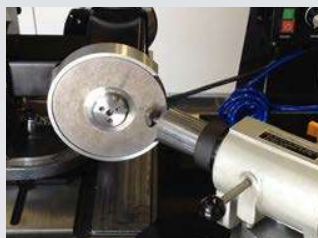
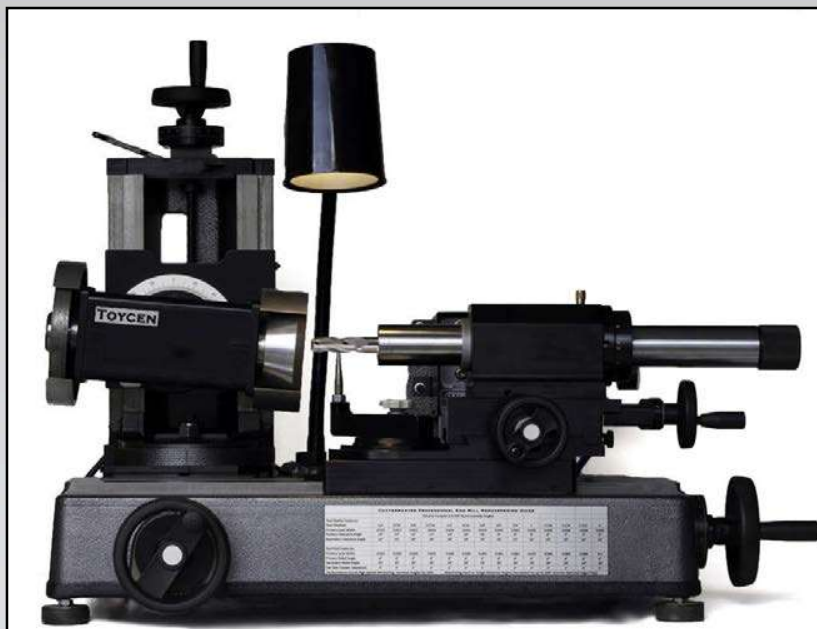
DESIGNED BY MIKE COLTON AND JEFF TOYCEN

CMX

The Cuttermaster Professional has been designed with the capabilities to meet the demands of today's prototype and production shops and provides superior flexibility and ease of use for tool regrinding and tool modifications.

Designed by our own engineers and built in our own shop, you won't be disappointed with the results.

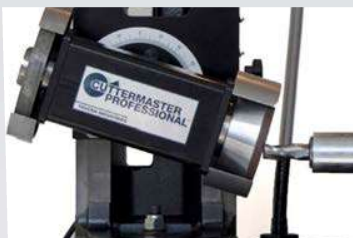
Sharpen end mill ends, flutes and corner radius's, reamers (circumferential lands), annular cutters, drills, countersinks, cut off and neck grind both carbide and high speed steel.



Caption



Caption



Caption



Caption



Air Bearing Stroke	10.5" (266.7mm)
Air Bearing Collet	Standard 5C
Cutting Tool Capacity	2" shank, 9.8" O.D.
Flute Length	10.5"
T-Slot Dimension	0.8" (20.32mm) x 0.5" (12.7mm) x 0.67" (17.018mm)
X-Axis Table Working Space	26.5" (330.2mm) x 5.5" (139.7mm)
Y-Axis Table Working space	13" (330.2mm) x 6.5" (165.1mm)
Wheel	Any tool grinding wheel
Motor Tilt	Infinite
Motor	400 - 4000 rpm, 500 W



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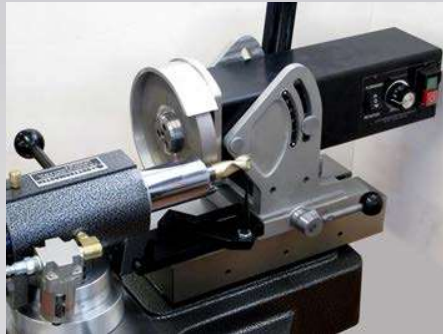


TOYCEN

CUTTERMASTER DC

A TOYCEN INNOVATION

CM-01 DC

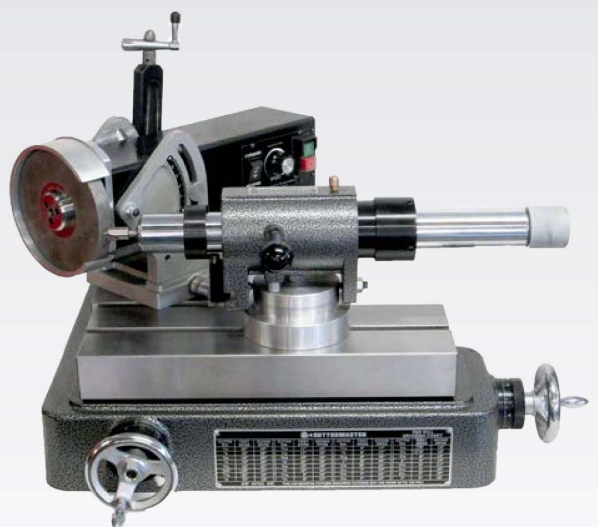
**FLUTES****REDUCED NECK****EASY ENDS**

Toycen DC Drives for CUTTERMASTER are an upgrade to the venerable, 1972 CUTTERMASTER to a configuration that is more useful for modern cutting tool materials and geometries.

The DCK Single wheel drive will mount any tool grinder wheel including Cuttermasters' precision plated wheels, is reversible, variable speed and produces ten times the torque of the standard 1/3 HP motor (5 Foot Pounds @ 1000 rpm). This eliminates tool burning by facilitating heavy cuts at greatly reduced RPM, cutting grinding times in half on some tools.

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Air Bearing Swing Over Table	9.8"(248.92)
Cutting Tool Capacity	2" shank, 9.8" O.D.
Flute Length	10.5"
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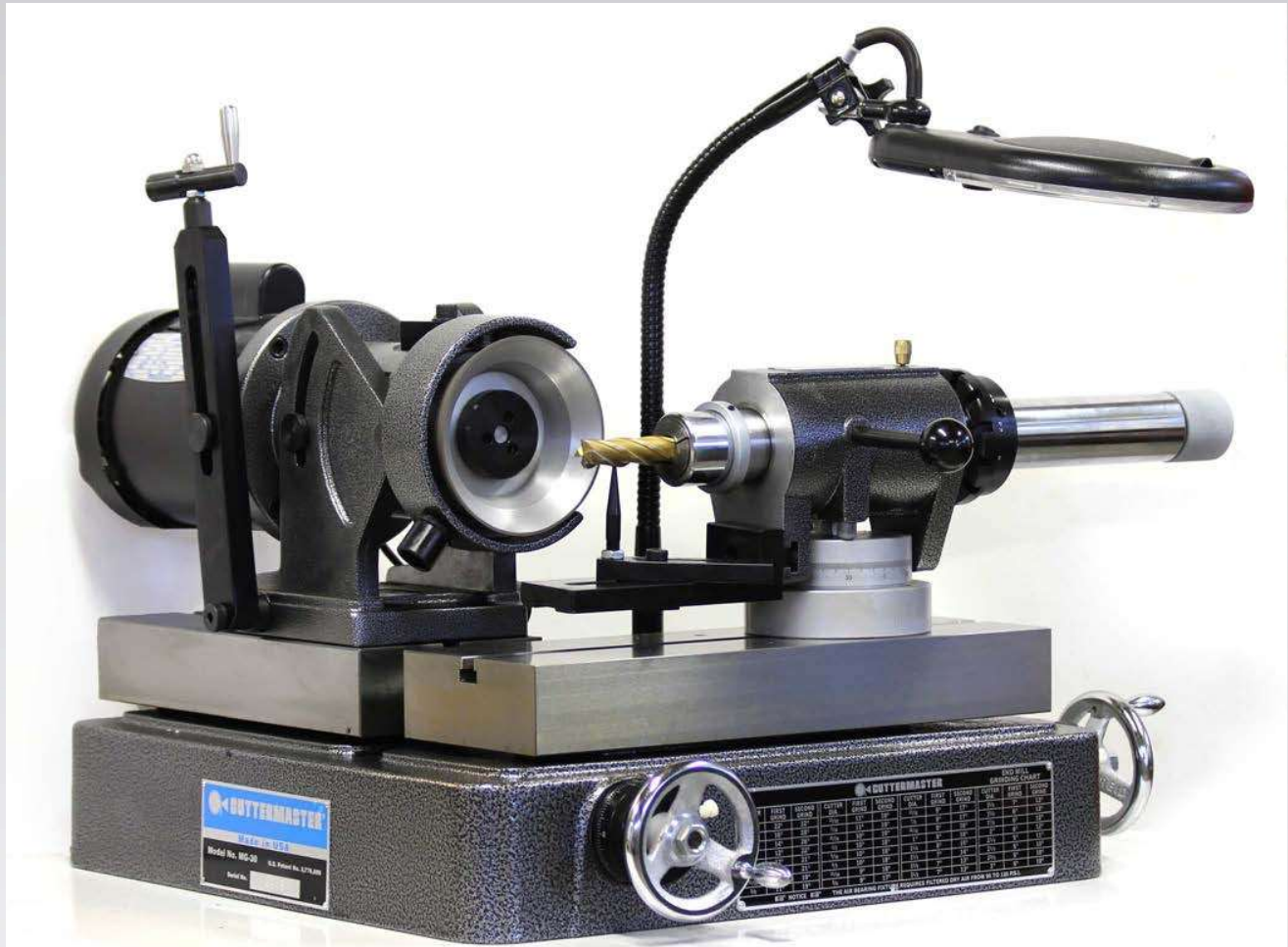
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TOYCEN

CUTTERMMASTER END MILL SHARPENER

CM-01



The Original CUTTERMMASTER End Mill Sharpener.

- Grind O.D.s and ends of standard end mills in one setup within minutes
- Extremely versatile
- Pneumatic finger instantly and 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



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