

Tool Grinding Accessories

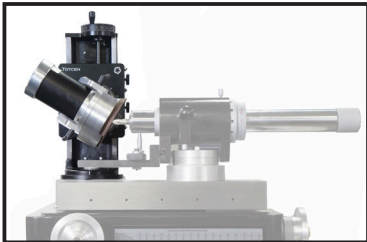
These tool grinding accessories are designed for the CUTTERMASTER Professional Line and can be used with any traditional tool grinders

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CM-UT CUTTERMASTER Professional Universal Tower

Features DC Variable Speed Motor and control on a dual-wheeled infinitely positionable motor tower. It is designed for the CUTTERMASTER Professional Tool Maker but can be used on any tool grinder.



JXT Universal Single Tower

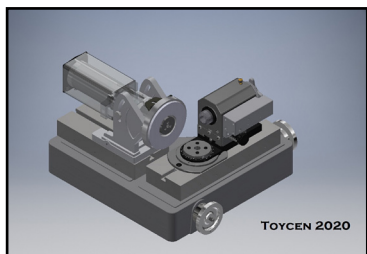
Features DC Variable Speed Motor and control on a single-wheeled infinitely positionable motor tower. It is designed for the CUTTERMASTER Professional Journeyman but can be used on any CUTTERMASTER style grinder.



CM-DC

Upgrade your old CUTTERMASTER to a *CM-01DC* with our DC Variable Speed Motor and Control

This is a bolt on motor replacement for existing CUTTERMASTER end mill sharpeners , Replacing the motor with a Variable speed reversing DC Motor



CM-02R Radial

CUTTERMASTER Professional Motorized Insert

This is an add on item for the CM02R Radius Air Bearing. The DC Motorized bushed spindle converts the air bearing to a non-oiled bush with a driven rotation for grinding spherical ends on anything that fits in a 5C collet. DC 24 Volt variable speed and will fit on any Cuttermaster Style machine.

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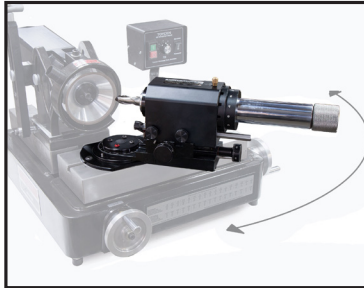
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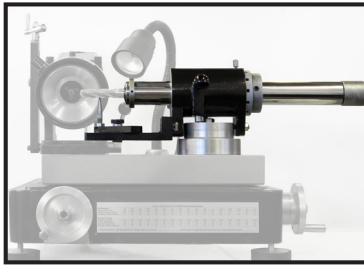
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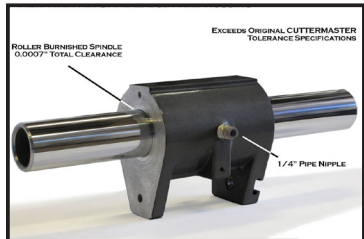


CM-02R Radius Air Spindle

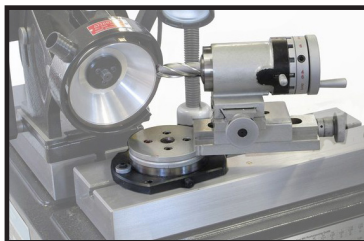
Grind flutes, square ends, bull nose or ball nose corner radius, as well as other features such as tapers, reamers slitting saw teeth. The Patented Radius Air has a unique Air spindle Bushing which can be replaced if needed after years of service (unlike the CUTTERMASTER). The Toycon CM-02R Radius Air Spindle was designed for the CUTTERMASTER Professional CM-01P and is compatible as a retrofit with other CUTTERMASTER type grinders such as the JX, CM-01 or any grinder with t-slot table. The CM-02R combines a high accuracy air spindle with the capabilities of the CM-03 Radius Attachment reducing set up times.



CM-02 Air Spindle for CUTTERMASTER and CUTTERMASTER type machines including stylus, indexing collar and front ring. This is the standard air bearing for helical grinds, like the outside diameter of an end mill or router bit. It can be used for many other operations as well.



CM-02AU Toycon Air Bearing Upgrade- housing/tube assy. roller burnished Recommended fix for old air bearings with plugged air channel, this kit includes and replaces the upper housing, air nipple and tube.



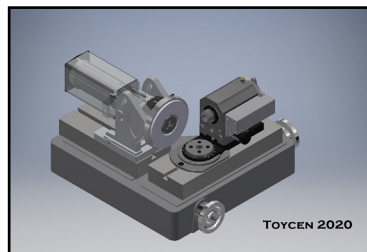
CM-03C Radius Attachment

For sharpening the corner radius of bull and ball nose end mills. The fixture sits on top of a 360 swivel base with a 90 stop. The CM-03C has a true lead screw in-feed and cross-feed for generating any radius. Use on CUTTERMASTER grinders and other tool grinders. Includes center finder, index collar and 5C collet draw bar.

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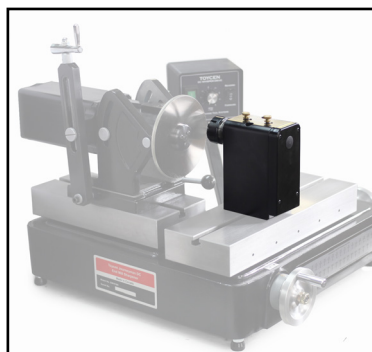
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CUTTERMASTER Professional Motorized Insert for CM-02R

The CM02R Radial is a 5C Radius Attachment with a motor to drive the spindle radially. This has been designed for grinding spherical ends on round up to 1" tools. This product has been designed to fit into the existing 1.875" diameter Air Bearing of the CM02R

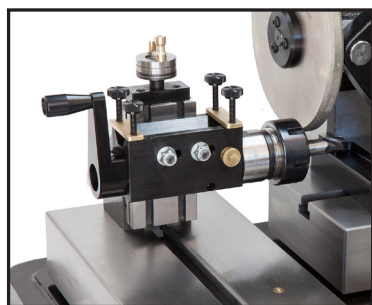


CM-ER32 Motorized Collet Chuck

Designed for production use grinding of cylinders such as carbide and HSS end mill neck reductions and tool cut off

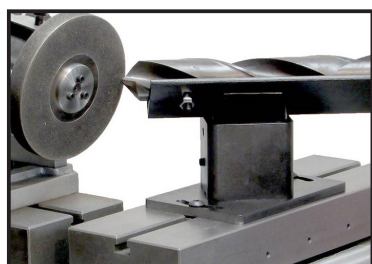
It features an ER32 collet chuck driven by a timing belt and small 24V DC motor, and collet chucks selected for accuracy. Bolt to any table with T-slot.

Taper run-out less than .0005" x or y direction. Plug in to 110V(220) or battery powered. Includes 10pc ER32 collet set (1/8"-7/8"). Rated for all-day use.



JX-SFC Shank Flat and Cut Off Fixture

The CUTTERMASTER was not designed with set screw flats or neck reductions so we created this fixture to make these operations possible. The z-axis adjustment allows the tool to be held below the wheel so that truly flat, Weldon set screw flats can be achieved. Use this fixture for necks and cut off as well as to avoid wearing out your air spindle.



CM-06B Large Drill Holding Fixture

This fixture is designed to bolt onto all CUTTERMASTER type machines or other tool grinders. For sharpening all large drills and core drills, it features angle adjustment from 180 to 100 degrees

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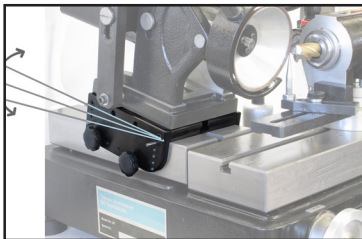
CM-11 Work Holding Fixture

Features four positioning quadrants for any compound angle. Ideal for form tools, lathe bits, spade drills or tools requiring a certain hold or position. For use on any CUTTERMASTER or other tool grinder.



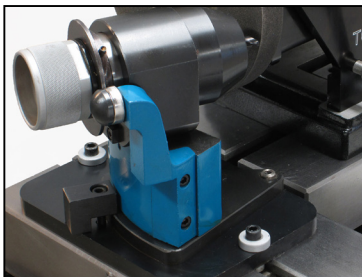
JX-XAE -Axis Extension Kit

Increases the maximum flute length of your tool grinder. By mounting the stylus to the motor, and extending the *x*-axis way, long flute lengths are achievable. This kit includes the JX-Riser and requires the Journeyman motor (or JX-upgrade), which unlike the original CUTTERMASTER motor, can pivot.



CM-Riser

Motor Riser for fluting and end gash operations. The traditional 1970s CUTTERMASTER (MG, FCG) doesn't have the height for end gash and getting inside flutes of hoggers. The Motor Riser sits under the motor and gives lots of height options.



CM-06 Drill Grinding Attachment

Sharpens drills from 3 to 22mm (1/8" to 7/8"). Through hole allows for sharpening of any drill length.

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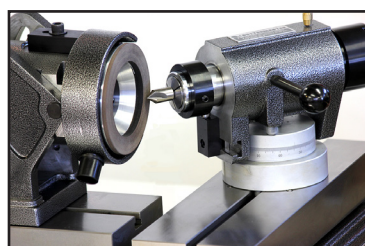
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CM-06DCS Drill and Countersink Grinding Attachment and Cam Set

This is our standard CM-06 Drill Point Grinder with an additional cam set to turn it in to a great countersink sharpener. Grind zero, single, two, three and four flute countersinks.



Countersink Step Drill and drill Sharpening Cams Sets (CM-CSB, CM-CSSD, CM-CSJD)

We offer countersink sharpening cams in a kit that includes a cam follower, tensioner and hand wheel that are mounted to the CM-02A and CM-02R air spindles. Kits include a basic 0, 1, 3, 4, 6-flute set, a 2-flute step drill set, and deluxe combined set. Step Drills and Drills Require a Z Axis (Cuttermaster JXT)



CM-10S Cabinet

Our recommended cabinet base for Cuttermaster style grinders, it is 24" deep x 24" wide x 34" high. Includes lock and key

This is an all Steel cabinet , Made in the US, very stable and helps keep all of your tools and accessories in one place

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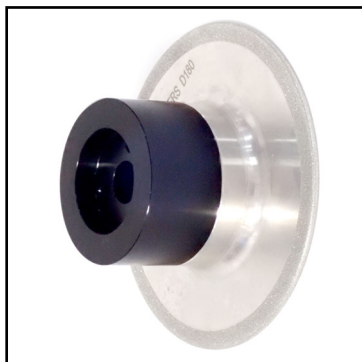
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Shaft Extensions in 1" and 2" are used for increasing the reach of your grinding wheel for operations like gumming inside flutes.

CM-SE-1 1" Shaft Extension
CM-SE-2 2" Shaft Extension



CM-5CS-7

5C Collets are included standard with all of our traditional tool grinders. This is the kit they come with 1/4" to 1". Also available in metric (6pc) CM-5CMS-6



ER32 Collets are available in metric and imperial

ER32BI Basic Imperial (6pc.) 1/8" - 3/4"
ER32AI Advanced Imperial Reamer and Tap shank (10pc) 1/8" - 3/4"
Basic Metric (9pc) 2mm - 20mm
Advanced Metric (19pc) 2mm - 20mm,



Large End Mill Holders

increase the 1" capacity of the 5C collet set
CM-5CE-114 5C End Mill Holder: 1.1/4" diameter
CE-112 5C End Mill Holder: 1 1/2" diameter
CM-5CE-2 5C End Mill Holder: 2" diameter

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