

TOYCEN

CUTTERMASTERS



Machines for Machinists
Product Lineup 2018



Tradesman Machinist



Journeyman End Mill Grinder JX



CUTTERMASTER Professional Tool Grinder CM-01P

Welcome to Cuttermasters.

Having been in machine shops for all of my adult life, I found that I was not happy with the tool grinders, bench grinders and belt sanders that were available. The primary problem was speed. AC motors are cheap, which is why they are commonly used, leaving the user stuck with what is usually the wrong speed --- too fast to grind without burning the tools. With my background in design of bridge cranes and bomb disposal robots, I knew that DC motors were a better way to go. There was a second problem in that most end mill sharpeners are spin-offs of much larger tool grinders, meaning most of that weight was just not needed to sharpen a tool --- the grinders were too big and too fast.

Soon we had the DC variable speed CUTTERMASTER Professional, *The Pro*, which answered these problems. And every Saturday for the last decade I've worked directly with our engineering team to roll out a new product or improvement, then the following week we build it (visit our blog to see the latest).

Hot on the heels of *The Pro* came the Tradesman family of DC bench/belt grinders, which are amongst the best machines available in the world today: The eight inch Tradesman 8, popular with woodturners and sharpeners, and the six inch Tradesman 6 designed for machine shops. New for 2017 these grinders have 36" and 48" belt sanding attachments that can also be easily retrofitted to existing machines. The Tradesman 8x36" is a variable grit belt grinder that features quick change belts and uses a Cuttermasters CBN wheel as the drive wheel.

The Journeyman JX End Mill Sharpener can be configured as a basic end mill grinder (JXB) or as a more advanced JX (articulating motor head for greater set up versatility).

The ultimate tool grinder, the CUTTERMASTER Professional replaces the JX's motor with the TOYCEN Universal Tower and the air spindle with the Toyce Radius Air Bearing. The Pro is an 11-axis machine so it will grind most anything.

In 2017 Toyce partnered with Synic Precision to create a line of world class drill and end mill end sharpeners. These are the ES (End Mill End), DS, (Drill) and CS (Combination End Mill and Drill) grinders. These precision grinders are the best of their class and are guaranteed by Cuttermasters for two years on parts and labor.

We offer books and manuals and are always around if you've got a question about grinding.

Jeff Toyce





Journeyman End Mill and Tool Grinder CM-01DC..... \$3,575.00



Journeyman End Mill and Tool Grinder JX \$4,475.00



CUTTERMASTER Professional CM-01P \$7,745.00



Tradesman DC Variable Speed Bench Grinder (Shown with CM-06 Drill and Countersinks)
 Tradesman Six Inch Machinist (Machinists and Fabricators)
 Tradesman Eight Inch (Woodturners)
 Tradesman Eight Inch Belt - Variable Grit / Variable Speed - (Woodturners and Sharpeners)
 Tradesman Belt (36" and 48") (Fabricators and Sharpeners)

Combination Grinder



CS320D End Mill Grinder and Drill Grinder 3-20mm (1/8" to 3/4")..... \$3,875.00



ESR520D End Mill Grinder and **Corner Radius Grinder**
 5-20mm (1/8" to 3/4")..... \$3,975.00

Drill Point Grinders



DS213 Drill and Spot Drill Grinder 2-13mm (1/8" to 1/2").....\$787.00

DS220D Drill and Spot Drill Grinder 2-20mm (1/8" to 3/4") \$1,525.00

DS232D Drill Grinder 2-32mm (1/8" to 1 1/4") \$2,448.00

End Mill End Grinders



ES320D End Mill Grinder 3-20mm (1/8" to 3/4")..... \$2,625.00

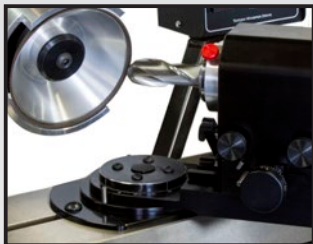


CUTTERMASTER PROFESSIONAL END MILL (TOOL) GRINDER - CM-01P

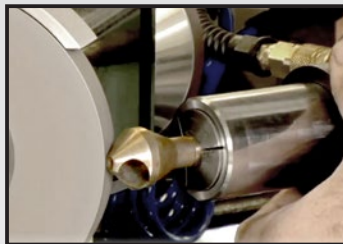
The 2017 Cuttermaster Professional has been designed to get the job done. Easy to use and fast to set up with the dual wheel configuration for tool regrinding and tool modifications (switch between wheel types on the fly).

The 2017 CM01-P is the new Universal Infinite Twin DC Tower with the patented-Toycen Radius Air Bearing on a beautiful-CUTTERMASTER Base.

Sharpen end mill ends, flutes and corner rads, reamers, annular cutters, drills, countersinks, cut off and neck grind both carbide and high speed steel.



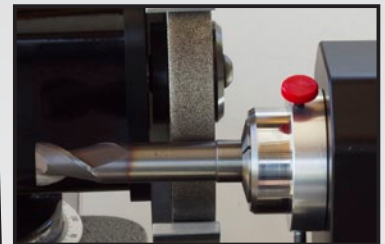
Corner Radius



Countersinks



Easy Ends and Flutes



Set Screw Flats /
Chamfers / Neck Reduction



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	16.5" x 5.5"
Y-Axis Table Working space	12" x 5.5"
Wheel	Any tool grinding wheel
Motor Tilt	Infinite

CM-01P Tool Grinder complete with Cuttermaster Universal Base, Toycen MK2 Radius Air Spindle, Toycen Variable Speed, Reversing Infinite Twin Whisper Drive DC Motor Tower and Control, 7 Piece 5C Collet Set, Maintenance Tool Set, Operators Manual, CBN and diamond cup wheel and wheel truing device, Toycen book on end mills..... \$7,745.00



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

Manufacturing and Distribution - 808 Proctor Ave, Ogdensburg NY 13669

CALL US 1 (800) 417-2171

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CUTTERMMASTER

PROFESSIONAL CM-01P TRS CUTTING TOOL GRINDING SYSTEM



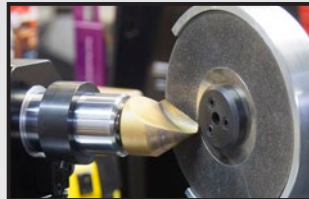
Cabinet



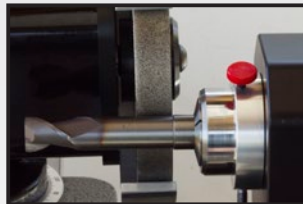
Easy Ends and Flutes



Flute Gumming



Countersinks / Step Drills

EC313 Drill Grinder
3-13mmSet Screw Flats /
Chamfers / Neck ReductionBull Nose / Ball Nose
Corner RadiusTradesman Neck and Cut
Off GrinderCountersinks / Step Drill
Cam Set

CM-01P Tool Grinder complete with Cuttermaster Universal Base, Toycen MK2 Radius Air Spindle, Toycen Variable Speed, Reversing Infinite Twin Whisper Drive DC Motor Tower and Control, Machine Stand / Cabinet, EC313 1/8-1/2in Precision Chuck Drill Grinder, 7 Piece 5C Collet Set, Maintenance Tool Set, Operators Manual, CBN and Diamond 11V9C Advanced cup wheels, Spindle Mounted Braked wheel truing device, Toycen book on end mills, Journeyman Countersink and Step drill cam set CM10S Bench Storage Cabinet. \$,10,645.00



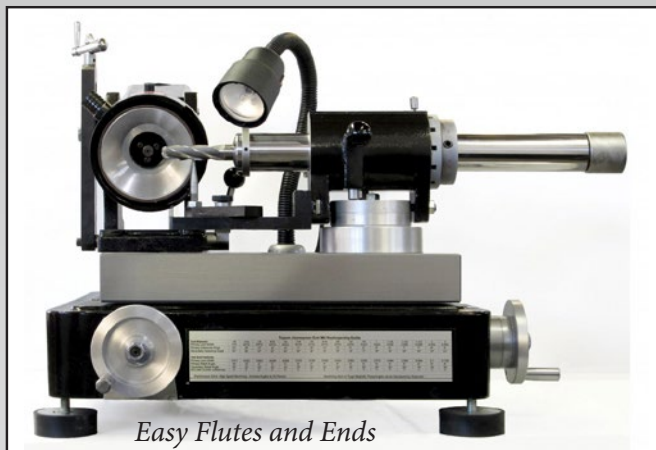
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JOURNEYMAN END MILL GRINDER - JX



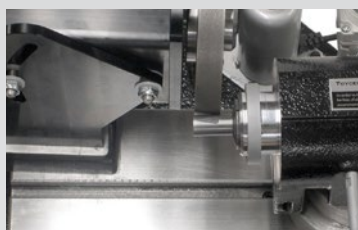
Easy Flutes and Ends

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

OPERATIONS AND ACCESSORIES



Flute Sharpening



Tapered Weldon Flat Grinding



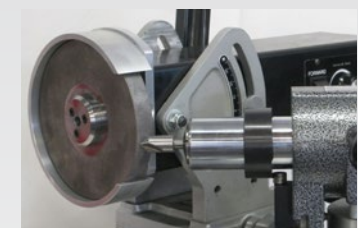
Corner Radius and Ball Nose



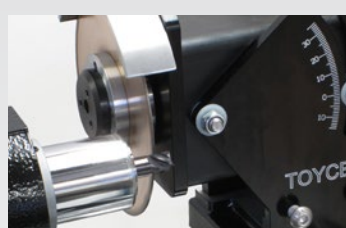
Reduced Neck Grinding



Annular Cutter Sharpening



Countersink ,Champher Tool Sharpening



Tool Cut Off



Tap Sharpening

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

The 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 (five foot pounds at 1000 rpm), eliminating tool burning by facilitating heavy cuts at greatly reduced rpm, cutting grinding times in half on some tools.

Our DC motor is mounted so that it has more down tilt, and swivels on the base to allow for faster alignment and positioning for grinding of countersinks, reamers, annular cutters and side and face cutters.

Production Support Package - JX including 7pc. 5C collet set, 1 set of resin bond grinding wheels (CBN and Diamond), Wheel Trueing Device, air filter and water separator, machine oiler, vibration dampening feet, taper attachment, work light, manual. \$4,475.00



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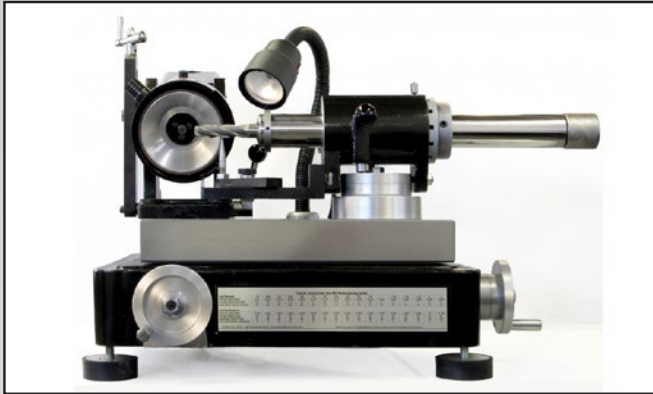
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CUTTERMASTER

CM-01 DC

DC VARIABLE SPEED CUTTERMASTER END MILL SHARPENER

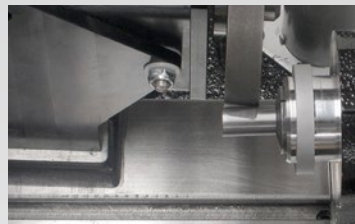


Easy Flutes and Ends

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



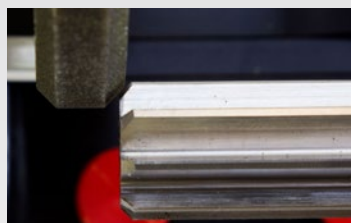
Tapered Weldon Flat Grinding



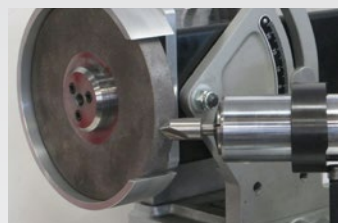
Corner Radius and Ball Nose



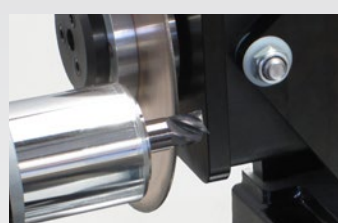
Reduced Neck Grinding



Reamer Sharpening



Countersink ,Chamfer Tool Sharpening



Tool Cut Off



Tap Sharpening

The tried and true CM-01DC is designed to be easy to set up and easy to use when grinding and re-grinding modern cutting tool materials and geometries.

The CM01-DC is single wheel drive is reversible, variable speed and produces ten times the torque of the standard 1/3 HP AC 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 Torque Compensating DC Whisper Drive is mounted so that it has more down tilt than the original AC Version of the CUTTERMASTER CM-01.

It is quiet, powerful and with the variable speed, a pleasure to use.



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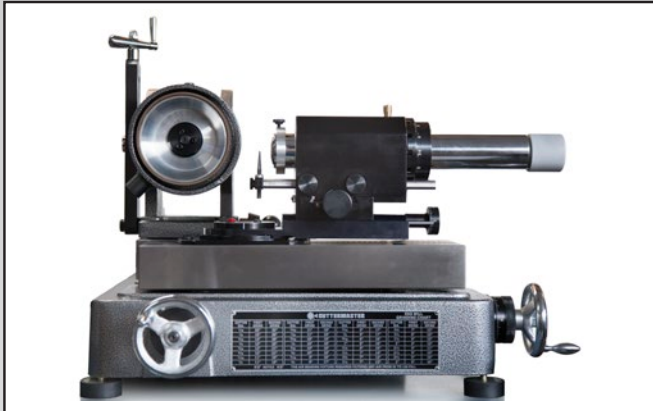
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CUTTERMASTER

CM-01 DCR

DC VARIABLE SPEED CUTTERMASTER END MILL SHARPENER



Easy Flutes, Ends and Rads

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



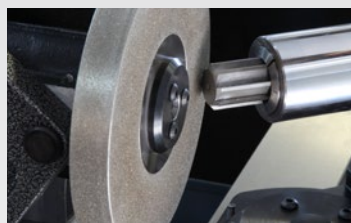
Weldon Flat Grinding



*Corner Radius and
Ball Nose*



*Reduced Neck
Grinding*



Reamer Sharpening



*Countersink ,Chamfer Tool
Sharpening*



Tool Cut Off



Tap Sharpening

The tried and true CUTTERMASTER is known for easy set up and use. The New Cuttermaster Profesional CM01-DCR, with the Patented Toycen Radius air spindle, further reduces set up time and the need for an add-on radius attachment. The Radius Air is both a linear bearing for flutes and ends and a radius spindle for ball and bull nose.

The CM01-DCR single wheel is reversible, variable speed and produces ten times the torque of the standard 1/3 HP AC 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 Torque Compensating DC Whisper Drive Pivots 360° (good for face wheel use) and has more down tilt than the original AC Version of the CUTTERMASTER CM-01.

It is quiet, powerful and a pleasure to use.

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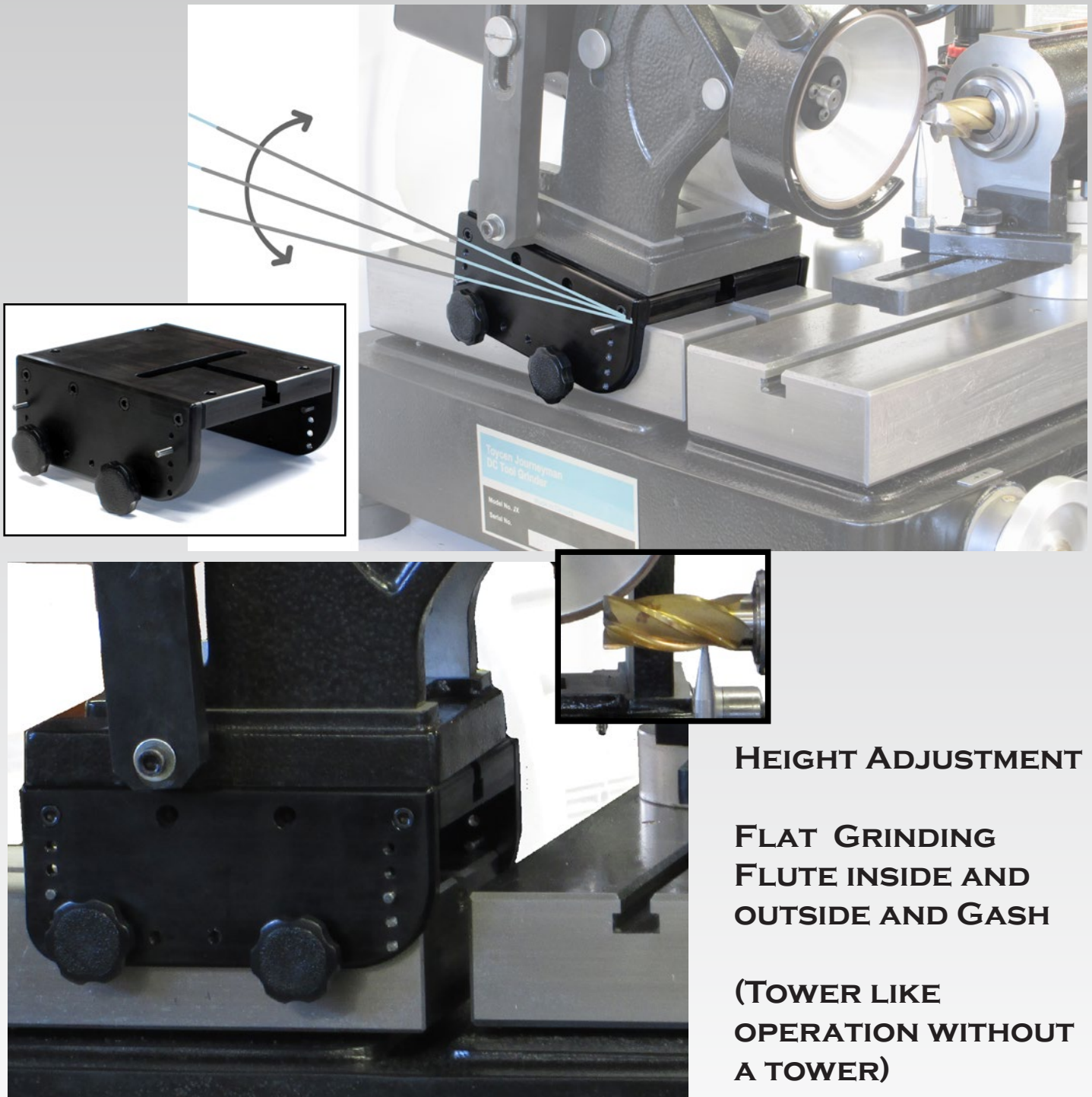


TOYCEN

CUTTERMASTERS



QUICK SET RISER JX AND CUTTERMASTER - CMS-R



HEIGHT ADJUSTMENT

**FLAT GRINDING
FLUTE INSIDE AND
OUTSIDE AND GASH**

**(TOWER LIKE
OPERATION WITHOUT
A TOWER)**

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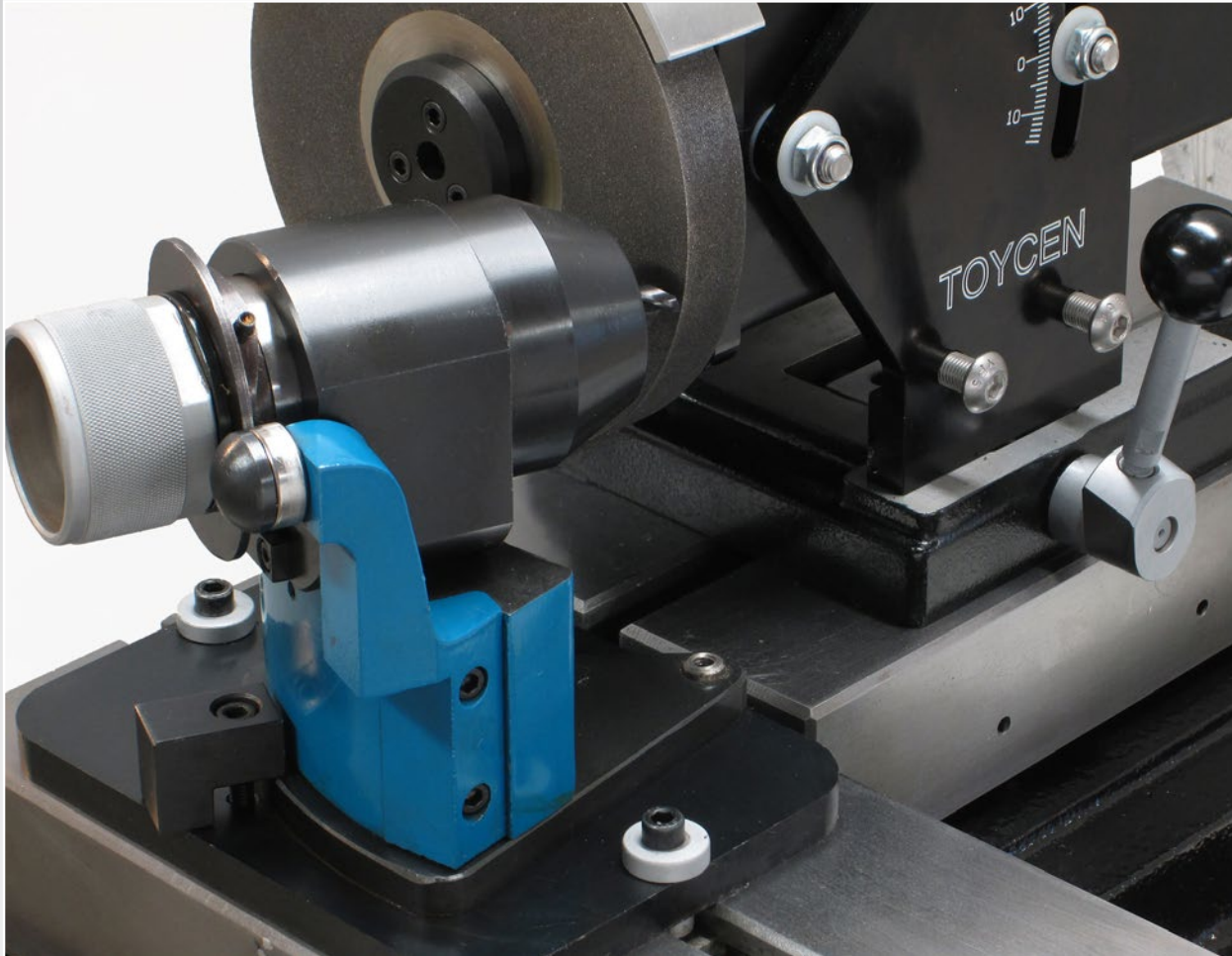
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DRILL GRINDING ATTACHMENT JX AND CUTTERMASTER - CM-06



CMS-06 Drill Grinding Attachment

- Sharpens drills from 3 to 22mm (1/8" to 7/8")
- Easily adjustable point angle
- Thru hole in chuck allows for any drill length
- Set up and sharpen in less than two minutes

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SHANK, FLAT AND CUT OFF FIXTURE JX AND CUTTERMASTER - JX SFC

Vertical height adjustment
for necks and flats

V Block for grinding flats
on larger tools up to 1"

ER32 Collet Chuck spins
for neck reductions and
carbide cut off

Spindle lock for small
tools



SET SCREW FLAT, NECK REDUCTION AND CARBIDE CUT OFF

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.

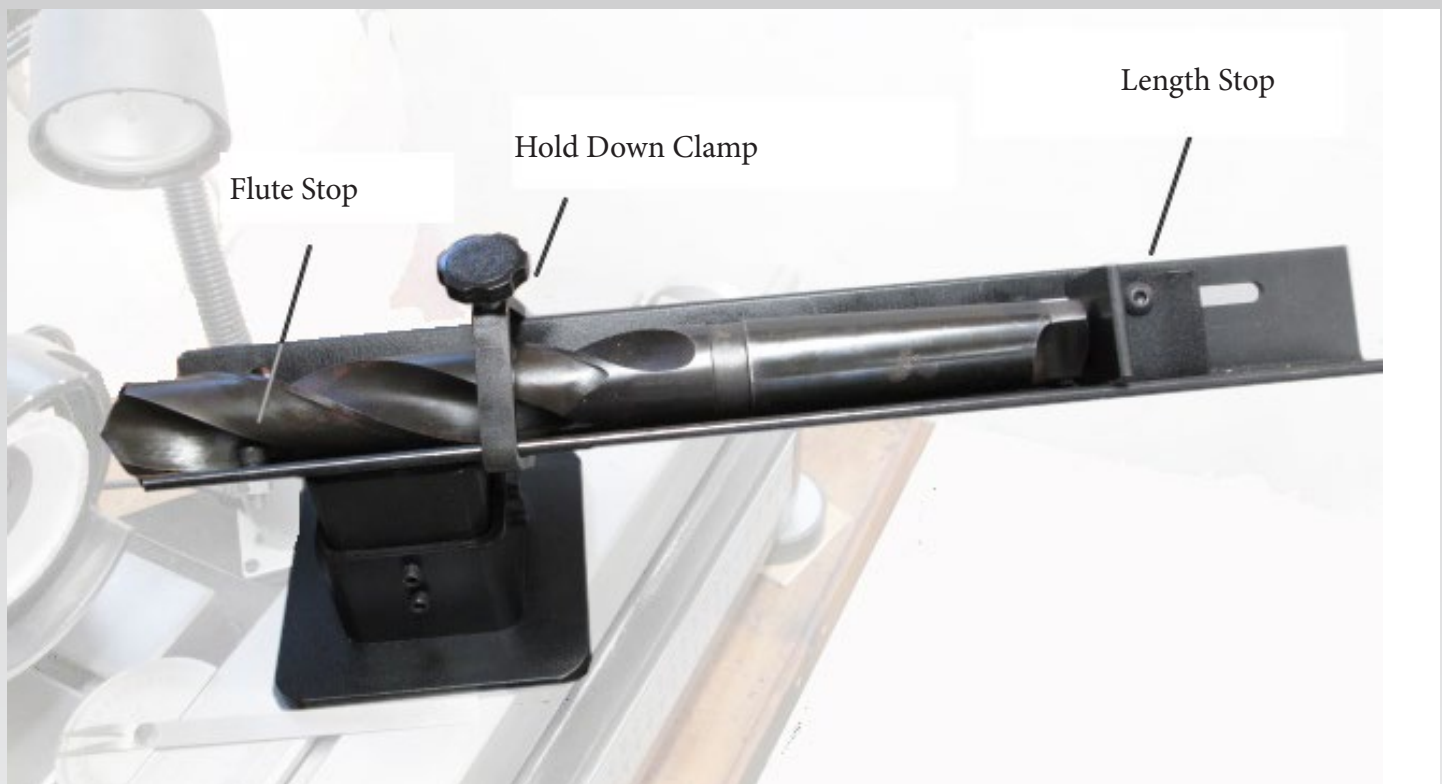
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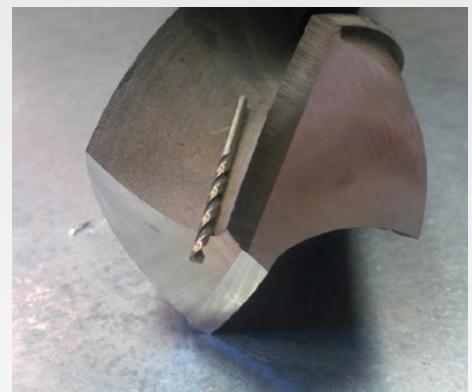
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LARGE DRILL GRINDING ATTACHMENT CM-06B



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



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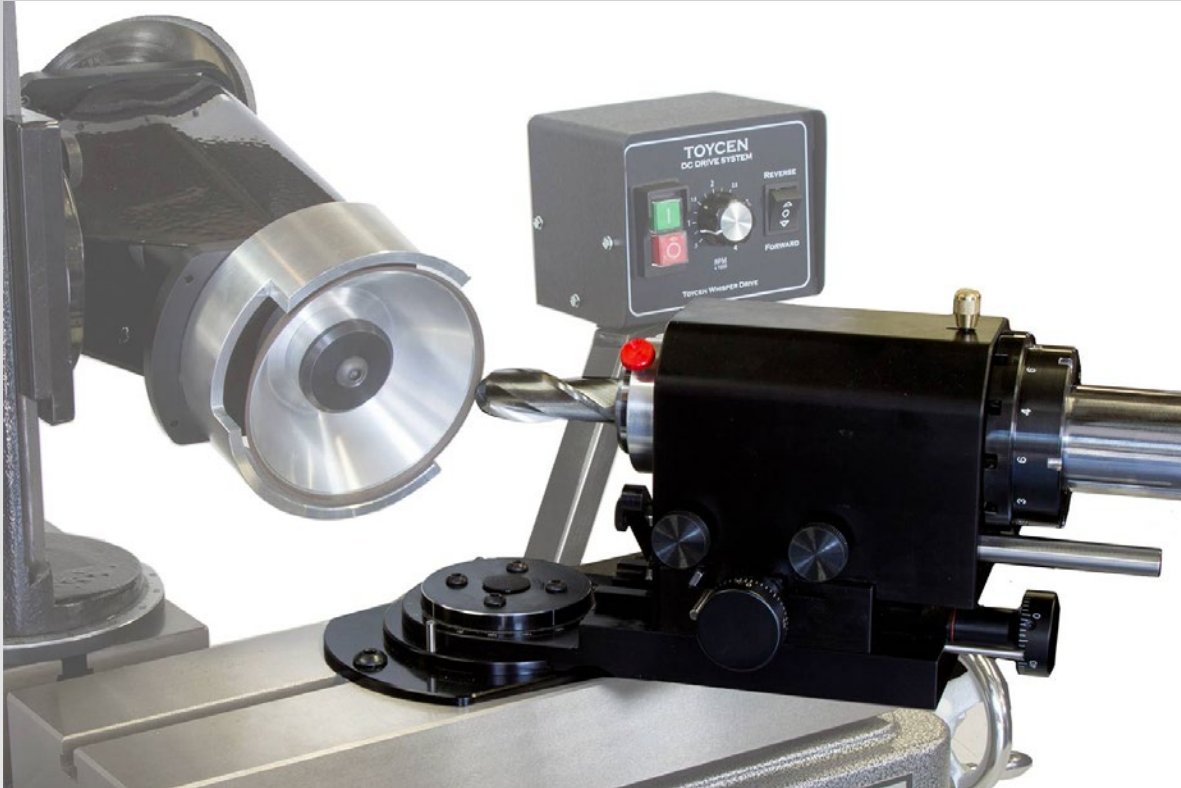
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RADIUS AIR BEARING

CM-02R



Grind any bull nose or ball nose corner radius with the Radius Air Bearing, as well as other features such as ends and flutes.

The CM-02R Radius Air Spindle was designed for the CUTTERMMASTER Professional CM-01P and is compatible with other CUTTERMMASTER type grinders such as the JX, CM-01 or any grinder with t-slot attachment.

The CM-02R combines a high accuracy air spindle with the capabilities of the CM-03 Radius Attachment.



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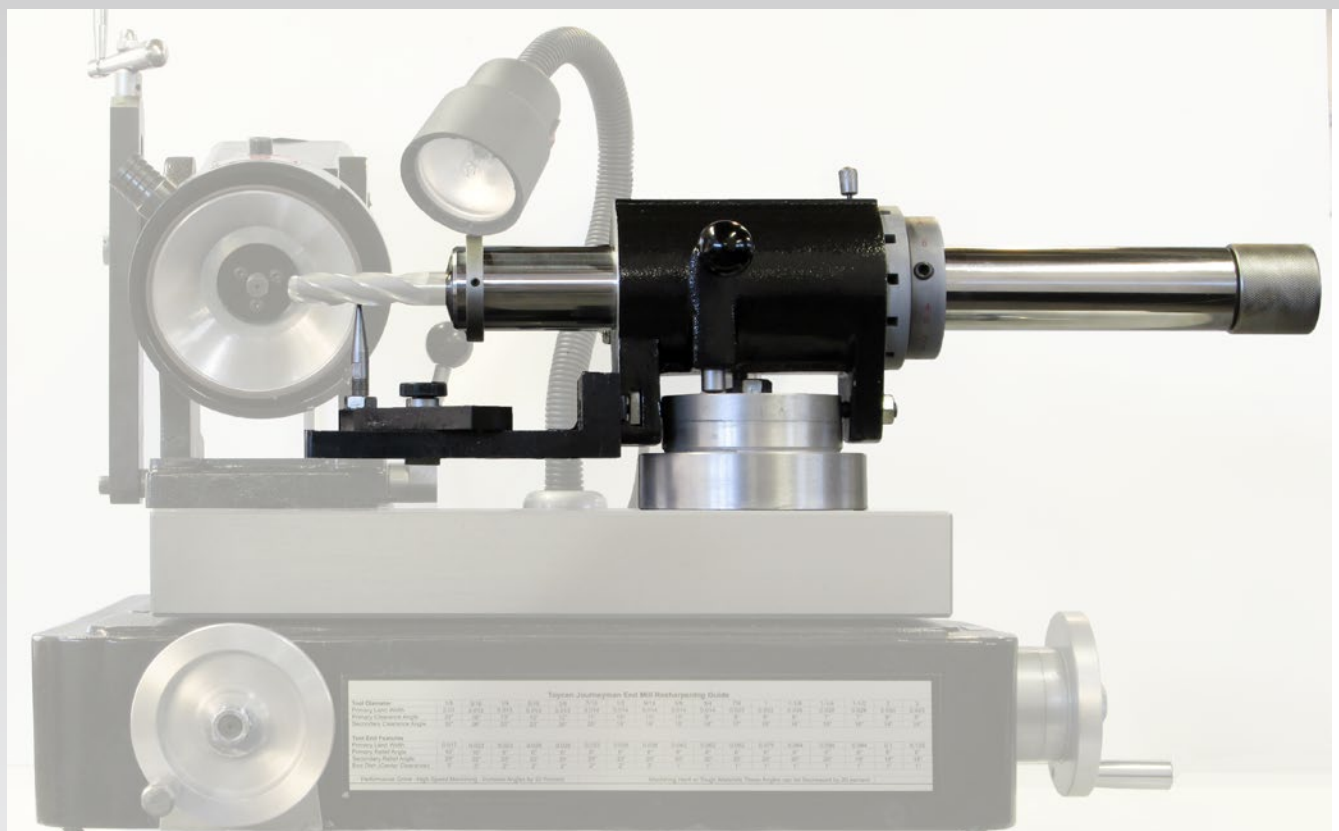
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CM-02A

AIR BEARING FOR CUTTERMASTER AND MOST MACHINES



The CM-02 Air Spindle for CUTTERMASTER and CUTTERMASTER type machines is a fluid air bearing that floats on a cushion of air when air is applied. This is what allows the operator to create helical grinds, like the outside diameter of an end mill or router bit. It is an improvement over the original air bearing supplied with the CM-01 and MG-30 CUTTERMASTERS, in that the bushing is roller burnished and provides greater tolerance.

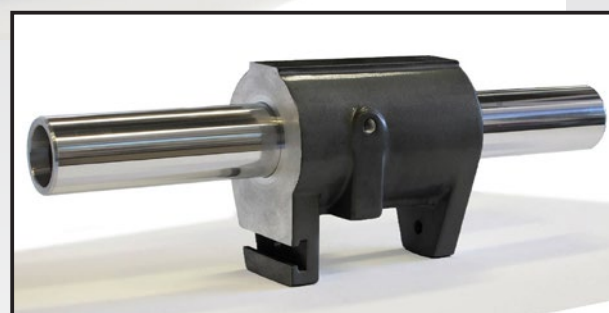
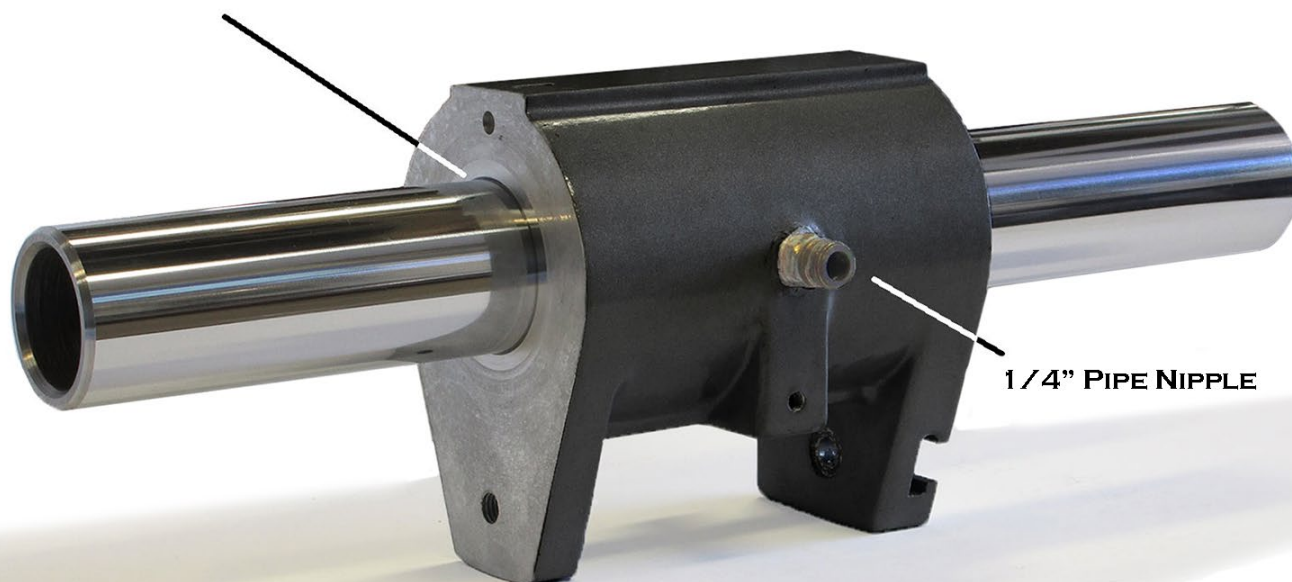
To upgrade your existing CM-02A (if blocked airways or damage is hindering performance), you can purchase our CM-02A Upgrade (may be a preferable solution to a new complete CM-02A Air Bearing Assembly). The upgrade consists of the main spindle and upper spindle housing.

CM-02A UPGRADE

NEW MAIN AIR SPINDLE BODY AND HOUSING

ROLLER BURNISHED SPINDLE
0.0007" TOTAL CLEARANCE

EXCEEDS ORIGINAL CUTTERMASTER
TOLERANCE SPECIFICATIONS



The CM-02A Air Spindle Upgrade for CUTTERMASTER and CUTTERMASTER type machines replaces the main body and spindle of the air bearing. It is an improvement over the original air bearing supplied with the CM-01 and MG-30 CUTTERMASTERS, in that the bushing is roller burnished and provides greater tolerance (0.0007").

If you have blocked airways in your main housing or if your spindle is too loose or is damaged, our air spindle upgrade may be a preferable solution to a new complete CM-02A Air Bearing Assembly.

This kit only provides the main housing and spindle, the remaining parts are transferred from your existing air spindle (base, collars, handles, etc).

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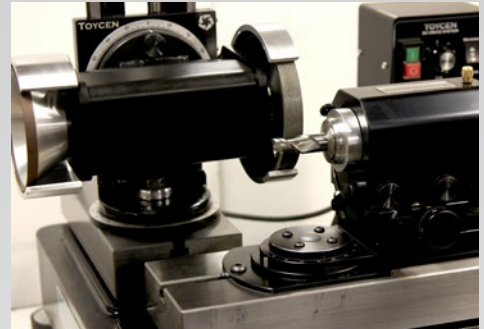
UNIVERSAL TOWER FOR CUTTERMASTER CMS-UT



**EASY ENDS,
FLUTES**



**MULTI AXIS,
DUAL WHEEL**



**DC WHISPER
DRIVE CONTROL**

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 Universal DC Tower will mount on any tool grinder, 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 Tower is an infinitely variable speed and powerful wheel head with the Toycen DC Drive 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. It comes complete with controller and is available in 110V and 220V.

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 Toycen,

Toycen Industries



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TOYCEN**CUTTERMASTERS** 

X-AXIS EXTENSION KIT FOR JOURNEYMAN JX-XAE



Increase the maximum flute length of the Journeyman End Mill Grinder with the JX-XAE X-Axis Extension Kit. By mounting the stylus to the motor, and extending the x-axis way, flute lengths of up to x" are achievable. This kit includes the JX-Riser and requires the Journeyman motor, which unlike the original CUTTERMASTER motor, can pivot.



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COUNTERSINK SHARPENING CAM SET FOR CUTTERMMASTER TYPE MACHINES

CMS-CSB

Basic Set - CMX-CSB 5pc.

1 FLUTE (0.020, 0.030)
3-6 FLUTE (0.031, 0.065)
4-8 FLUTE (0.084)

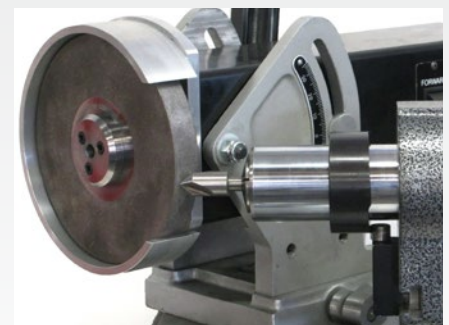


CMS-CSJ

Journeyman Set - CMX-CSJ 9pc.

1 FLUTE (0.020, 0.030)
2 FLUTE (.015, .040, .065)
3-6 FLUTE (0.025, 0.031, 0.062)
4-8 FLUTE (0.084)

Sharpen drills, countersinks and step drills on the CUTTERMMASTER and CUTTERMMASTER Professional with the CMX Countersink Sharpening Cam Set. Cam follower tensioner and hand wheel included.



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SHANK, SHOULDER, WELDON FLAT AND FACE GRINDING



Shoulder Wheels

Our 6" CBN shoulder wheels come in three widths: 1/4", 1/8" and 3/32". These wheels can be used to create shoulders and neck reductions on your tools.

- CMS-S.25 6" CBN 180 grit, 1.25" arbor, 0.25" (1/4") width
- CMS-S.125 6" CBN 180 grit, 1.25" arbor, 0.125" (1/8") width
- CMS-S.09 6" CBN 180 grit, 1.25" arbor, 0.09" (3/32") width



Weldon Flat / Set Screw Flat / Chamfer Wheel

Our 6" diamond chamfer wheels come in two widths: 1/2" and 1/4". They have a 45° chamfer suitable for creating Weldon or set screw flats.

- CMS-WF.5 6" diamond 180 grit, 1.25" arbor, 0.5" (1/2") width flat
- CMS-WF.25 6" diamond 180 grit, 1.25" arbor, 0.125" (1/8") width flat



CBN and Diamond Face Wheels

Our 5" and 6" CBN and Diamond face wheels all have .75" (3/4") width and 1.25" of face plating. These wheels are suitable for grinding large faces such as counter-sinks.

- CMS-6FD180.625 6" diamond 180 grit, 0.625" arbor
- CMS-6FD180 6" diamond 180 grit, 1.25" arbor
- CMS-6FC180.625 6" diamond 180 grit, 0.625" arbor
- CMS-6FC120 6" CBN 180 grit, 1.25" arbor
- CMS-5FC120 5" diamond 180 grit, 1.25" arbor
- CMS-5FD180 5" CBN 180 grit, 1.25" arbor



1A1 6" CBN or Diamond, Darex M5 Replacement Wheel

Our 6" M5 Darex Replacement wheels are more durable than the original Darex wheels and they are great for general grinding as well. They have a .75" width and 1.25" arbor.

- CMS-M5D100 6" Diamond 100 grit
- CMS-M5D180 6" Diamond 180 grit
- CMS-M5C100 6" CBN 100 grit
- CMS-M5C180 6" CBN 180 grit

CUT OFF WHEELS



Resin Cut Off

- CMS-CTC

6" diamond 100 grit, 1.25" arbor



PLATED Cut Off

- CMS-CUT.06C
- CMS-CUT.06D

6" Plated CBN 100 grit, .06" slotted rim, 1.25" arbor

6" Plated diamond 100 grit, .06" slotted rim, 1.25" arbor

PROFILED RADIUS WHEELS



Profiled Radius Wheel

- CMS-36RAD .03" and .06" radius, 6" diamond 220 grit, 1.25" arbor
- CMS-912RAD .09" and .12" radius, 6" diamond 220 grit, 1.25" arbor

PROPRIETARY END MILL SHARPENING WHEELS

*Formulated for good form retention
- Dry Grinding*



11V9C 5 Flared Cup Wheel

CBN or diamond Features an improved shape for complex operations such as end gash. Has 50% less mass improving performance and balance.

- 11V9C D150 5" Diamond 150 grit, 1.25" arbor
- 11V9C D500 5" Diamond 500 grit, 1.25" arbor
- 11V9C C120 5" CBN 150 grit, 1.25" arbor



100mm Super 12V9 (modified) Wheel

CBN and diamond resin bond wheels, are superior to 11V9 Cup wheels, do not require balancing

- CMS-36 100mm Diamond 100 grit, 1.25" arbor
- CMS-37 100mm CBN 100 grit, 1.25" arbor



Traditional Cup Wheel

- CMS-30 5" Diamond 120 grit, 1.25" arbor
- CMS-30/500 5" Diamond 500 grit, 1.25" arbor
- CMS-31 5" CBN 120 grit, 1.25" arbor



Plated Cup Wheel

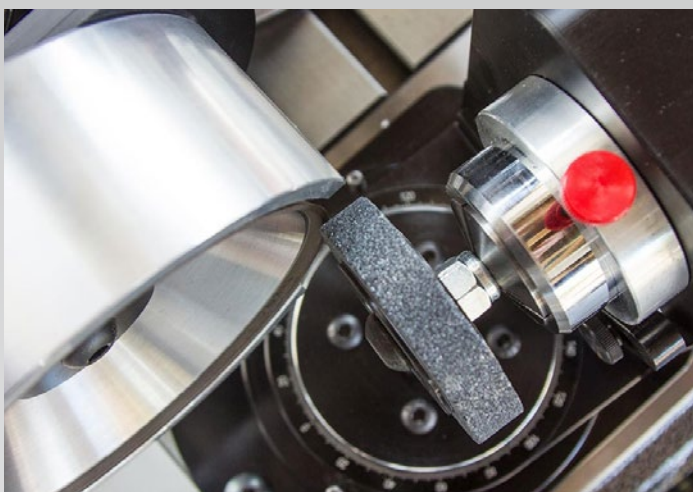
- CMS-30Pl 5" Diamond 180 grit, 1.25" arbor
- CMS-31Pl 5" CBN 180 grit, 1.25" arbor

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Manufacturing and Distribution - 808 Proctor Ave, Ogdensburg NY 13669

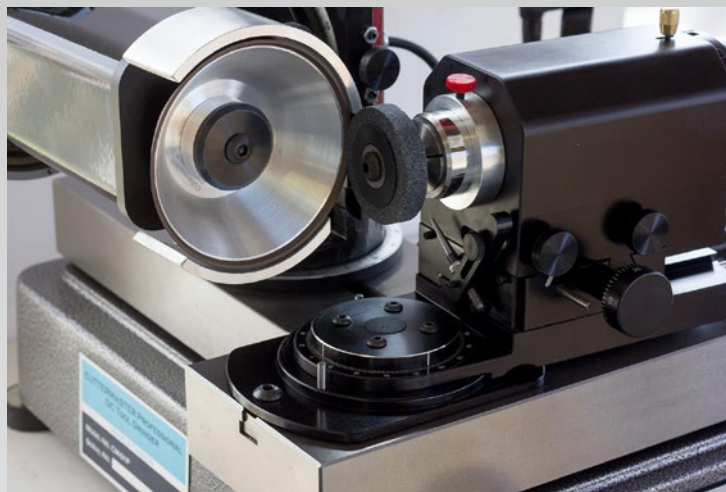
CALL US 1 (800) 417-2171

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BRAKED WHEEL TRUING DEVICE CMS-WTD



Wheel Truing Device mounts in a 3/8" collet

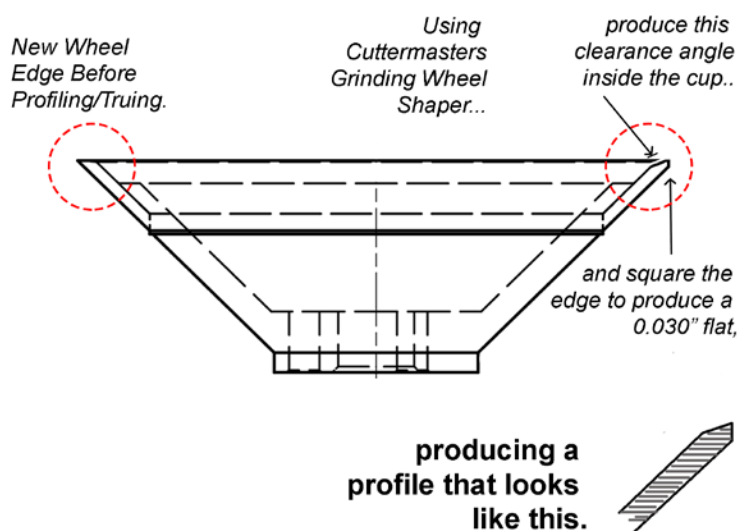


Using the CMS-WTD on the CUTTERMasters Professional to true a Diamond resin bond cup wheel CMS-30

Recommended Wheel Profiling / Truing

The reason for shaping the wheel is to create a small specific point or shape where the wheel contacts the tool being ground.

This also creates a more durable wheel edge.



This is very easy to set up abrasive wheel system is a simpler solution to truing your bonded wheels.

The spindle mounted, dynamically braked abrasive truing wheel is specially formulated for grinding CBN and Diamond resin bond wheels into true.

- Wheel dimensions: 0.52" width x 2.5" diameter.
- Shaft diameter: 3/8"
- Rated at 10,000 RPM

This system is designed to be used with tool grinders where it is convenient to hold the truing assembly in a collet or chuck.

Saves on set up time and makes it possible to touch up already mounted wheels without breaking complicated setups.

CUTTERMASTERS GRINDING WHEELS

Our Industrial Grinding Wheels are Precision Plated meaning they'll stay sharp, stay cool, hold their shape and won't emit dust. Ideal for bench grinders and bench top tool grinders our customers are typically woodturners and machinists sharpening carbide and high speed steel drills bits and end mills.

If you are used to working with stone grinding wheels our Industrial Grinding Wheels are a breath of fresh air in terms of ease-of-use and safety. They are an excellent return on investment when you consider that they'll outlast your stone wheels by many lifetimes.

8 INCH GRINDING WHEELS



Tradesman Wheel

The Tradesman Wheel was designed for our 8" Tradesman DC Bench Grinder. It features a thicker flange providing greater mass and 1/2" of plated surface for flat grinding.

- T-8 100 8" CBN 100 grit, 5/8" arbor
- T-8 180 8" CBN 180 grit, 5/8" arbor



Tradesman Aluminum Wheel

The Tradesman Aluminum Wheel was designed for our 8" Tradesman DC Bench Grinder. This wheel is machined from aluminum and features 1/2" of plated surface on each side for flat grinding.

- T-8A 100 8" CBN 80 grit, 5/8" arbor
- T-8A 180 8" CBN 180 grit, 5/8" arbor



Cuttermasters Wheel

The Cuttermasters wheel was designed for 8" grinders with a 5/8" shaft. This wheel is machined from aluminum and features 1/4" of plated surface on each side for flat grinding.

- CMS-8C60 8" CBN 60 grit, 5/8" arbor
- CMS-8C100 8" CBN 100 grit, 5/8" arbor
- CMS-8C180 8" CBN 180 grit, 5/8" arbor
- CMS-8C200 8" CBN 200 grit, 5/8" arbor

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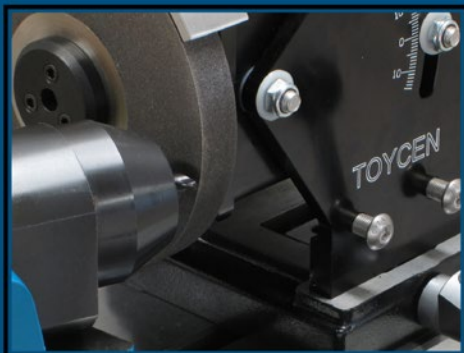
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CALL US 1 (800) 417-2171

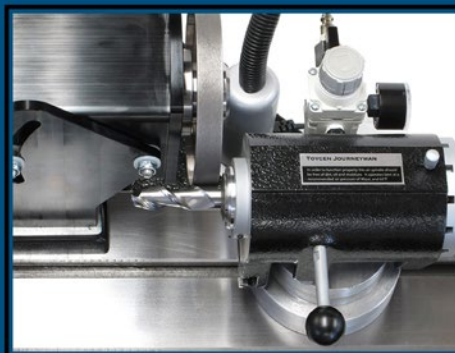
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TOYCEN BOOKS ON CUTTING TOOLS CMX-BD, CMX-BEM

TOYCEN CUTTING TOOLS DRILLS



TOYCEN CUTTING TOOLS END MILLS



Jeff Toycen's series of shop reference books on cutting tools.

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TRADESMAN WOODWORKERS - T8

Rough. Sharpen. Hone.



Chisels



Gouges



Belt with Tormek



Planer Blades

Pictured below is the Tradesman 8" DC Variable Speed Bench Grinder complete with our precision plated grinding wheels, and standard tool rests. This is our standard set up – ready to grind just about any material. If your going to run superabrasive wheel give it a good home.

Use the Wolverine or Tormek jigs to sharpen your favourite woodworking tools and more. Add our Mitre rest Jig plate for chisels and our Belt-Over-Wheel Belt Sander for variable grit set ups.



- **Whisper Drive DC Motor and Control** – 5 times as powerful as an AC motor and provides high torque, quiet and cool grinding, 400-4000 RPM.
- **Super Abrasive Wheels** – Super Precision Plated CBN up to 600 Grit Balanced, true and won't change shape.
- **No Burnt Tools** – Our patented DC motor with CBN wheels allows for aggressive grinding without generating damaging temperatures.
- **Proudly Made in North America** – built by machinists in Canada and the USA using quality parts and practices you can trust.

TRADESMAN 8 BELT

SHARPENERS ~ WOODTURNERS

T8-BELT, VARIABLE SPEED



This is the Tradesman 8" DC Variable Speed Bench Grinder with the Belt-Over-Wheel Belt Sanding Attachment (reverse available). This belt attachment uses Cuttermasters' 8" x 1.25" grinding wheels as the drive wheel. This allows you to quickly change grits — rough to polish — without changing your setup. Grind anything – variable speed – variable grit. Use your Wolverine and Tormek jigs.



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TRADESMAN BELT

T-36, T-48, T-8X48



2" x 36"



2" x 48"

A TRULY POWERFUL VARIABLE SPEED BELT/GRINDER

In the world of belt sanders / grinders there are few that are really different.

We designed the new belt attachment to fit both the Tradesman 8" and 6". For the *ultimate* there is the new Tradesman Belt on the 6" Machinist platform. It is truly infinitely variable speed and very quiet.

For part deburring it is a dream come true with loads of options for sharpeners and standard quick-set tool rests.

SPEED / TORQUE COMPENSATION / DIRECTIONAL CONTROL

5X MORE POWERFUL THAN ANY GRINDER IN THIS CLASS
5 FT-LBS AT 1000 RPM GRINDER



1.25" x 8" x 48"



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TRADESMAN MACHINIST - T6

WITH Y-AXIS FEED MITRE JIG WORK REST



TRADESMAN MACHINIST

Grinders with conventional wheels don't grind carbide very well. Fifty percent of the effort, energy and torque in the grinding process is wasted in wheel wear and consumption --- and lots of noise.

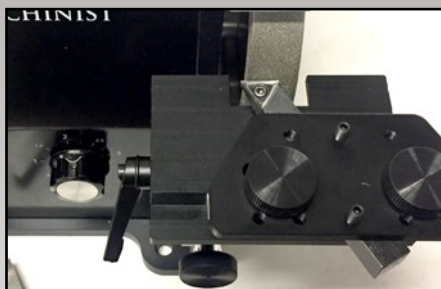
The Tradesman 8 inch has been the woodturners' favorite for a few years now, so we thought it was time to build one for machine shops.

The Tradesman with CutterMasters Precision Plated Superabrasive wheels is different.

Nice flat sharp grinding surface (great for shaping tools), quiet, powerful variable speed and no bucket of water on the front, and its quiet! We have a patent on

Low Speed High Feed grinding. With the Tradesman, it is not like using other grinders, period. You can grind carbide tools or Teflon on the same wheel. This is because at 500 RPM, with no run out, there's nothing threatening about it. Grind anything.

GRIND ANYTHING WITH THE MACHINIST ACCESSORIES



- Corner rads, reamers, lathe tools, carbide inserts, countersinks
- Neck reduction grinds, Weldon set screw flats, carbide cut off
- Superabrasive Plated Wheels: Consistently flat and precise grinding surface.



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TRADESMAN MACHINIST - T6

END MILLS: FLATS, NECKS, CARBIDE CUT OFF, CORNER RADS



T-ER32

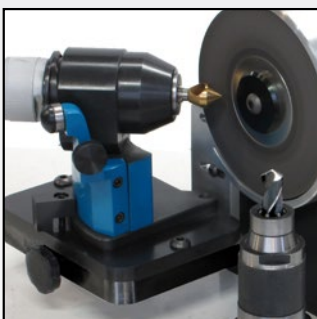
T-ER32 End Mill Workstation
For grinding reduced necks, producing accurate Weldon flats and carbide tool cut off.

Very little run out, 5/8" shafts, 1-1/4" tool grinder hubs, belt sander attachment, CBN and diamond wheels, face wheels, grind anything – Teflon to carbide, cut off. 200-4000 RPM.

DRILLS AND COUNTERSINKS

CMS-06 DCS

- Drills .125" to .875",
- 1 and zero flute countersinks up to 2".
- .020" and .03" cams.
- Three Flute Countersinks up to 2".
- .025,.031,.050 Cams



TOYCEN

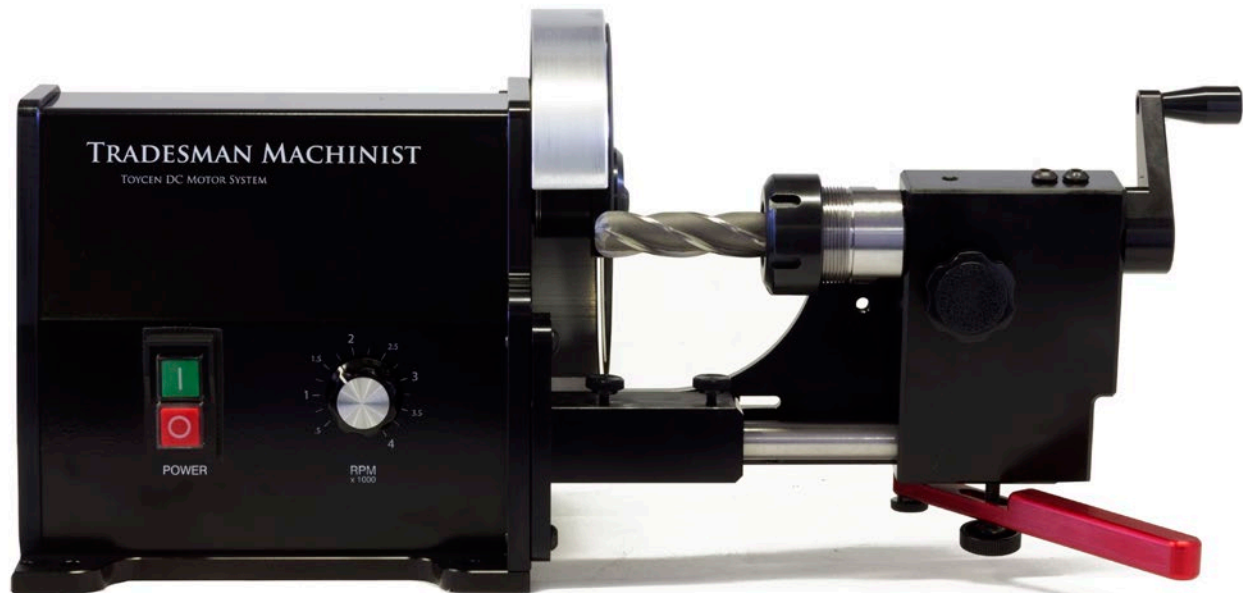
CUTTERMasters 

TRADESMAN NC

NECK REDUCTION AND TOOL CUT OFF

T-6

Shown with T-ER32 End Mill Workstation



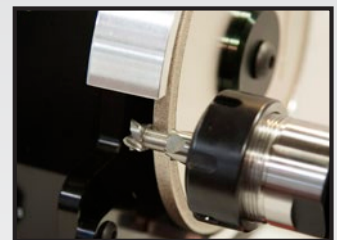
Neck Reduction



Tool Cut Off



Weldon Set Screw Flats



T-Cutter Creation

We designed the new Tradesman NC (Necker / Cutter) to suit the needs of those who want a dedicated machine for neck reduction operations, Weldon set screw flat grinds, and tool cut off.

SPEED / TORQUE COMPENSATION / DIRECTIONAL CONTROL OPTION
5X MORE POWERFUL THAN ANY GRINDER IN THIS CLASS
5 FT-LBS AT 1000 RPM GRINDER



Shown with T-WF, V-Block Set Up
(Tradesman Flat Maker)

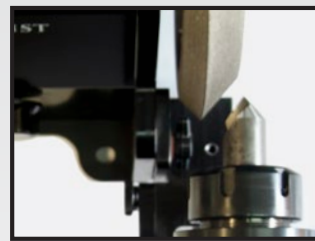
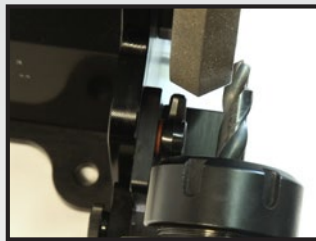
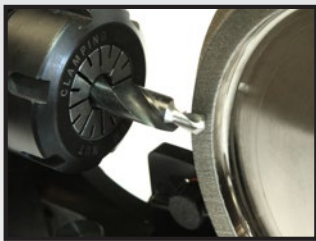


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STEP DRILLS AND COUNTERSINK GRINDING ATTACHMENT T-SDCS



Step Drills

Countersinks

Step drill and countersink grinding attachment for the any Tradesman Machinist Grinder (T6 or T-NC required). Uses the CUTTERMASTER countersink grinding cam set. Sharpen single and 3 flute countersinks and step drills. Comes complete with collet set, cam set and your choice of one of two angle wheels: 118°-135° and 82°-90°.

**POWERFUL VARIABLE SPEED / TORQUE COMPENSATION / LOW SPEED
ROUGHING ELIMINATES BURNING - HIGH SPEED FINISHING
.7" THRU SPINDLE BORE, ER COLLETS UP TO 7/8"
SHARPEN COUNTERSINKS UP TO 1"**



Tradesman Neck and Cut Off
with the T-SDC Step Drill and
Countersink Attachment



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TRADESMAN VACUUM TABLE -T-VAC



Shown with Tradesman Machinist T-6
and T-ER32 End Mill Workstation



Cuttermasters wheels don't wear to produce dust the same way that stone wheels do. However grinding swarf of the material you are grinding is produced.

Often this will fall straight down and collect under the grinding wheels. We've produced the Tradesman Vacuum table to safely remove swarf from the grinding area.

The vacuum table comes with a universal vacuum hose adapter kit so that it can be used with your shop vacuum system.

TOYCEN**CUTTERMasters** 

TRADESMAN TOWER

MULTI-AXIS BENCH GRINDING WORKSTATION T-TOWER



GRIND ANYTHING, ANY POSITION, EITHER DIRECTION

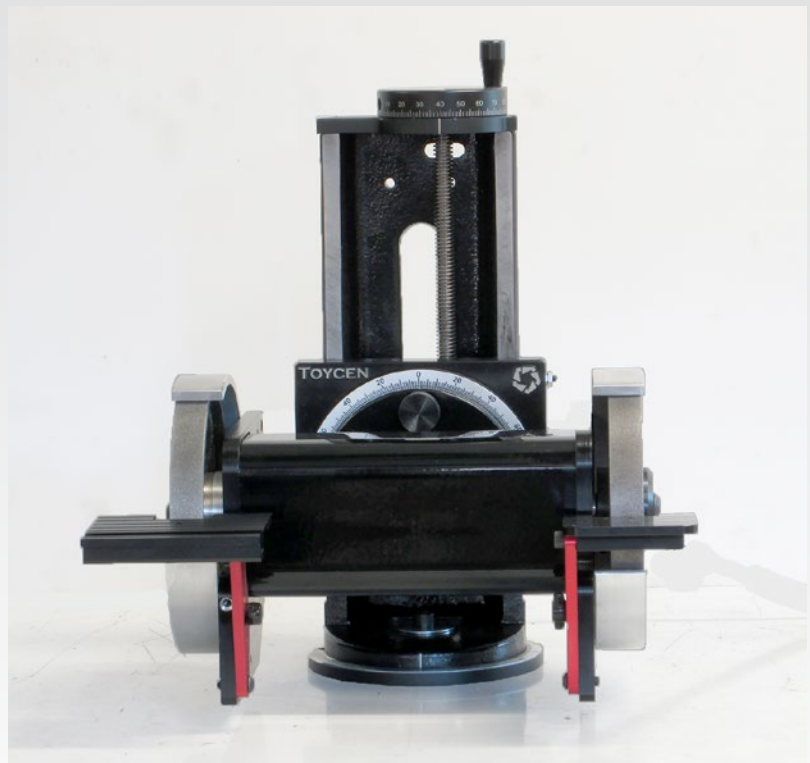
The Tradesman DC Tower is easy to mount, is reversible, variable speed and produces ten times the torque of the standard 1/3 hp motor (5 Foot Pounds @ 1000 rpm). This eliminates tool burning by facilitating heavy cuts at greatly reduced rpm, cutting grinding times in half on some tools.

The Tradesman DC Tower is an infinitely variable and powerful variable speed wheel head with the ToyCen DC control Drive System.

SPEED / TORQUE COMPENSATION / DIRECTIONAL CONTROL OPTION

5X MORE POWERFUL THAN ANY GRINDER IN THIS CLASS

5 FT-LBS AT 1000 RPM GRINDER



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TRADESMAN V-BLOCK WORK REST FOR CUT OFF AND SET SCREW FLATS T-WFB

TRADESMAN V-BLOCK
WELDON FLAT BRACKET
ASSEMBLY, SHOWN ON THE
TRADESMAN NC (NECKER
CUTTER)



The Tradesman Weldon Flat V-Block is a v-block tool holder designed to easily hold the tool square to the wheel when grinding Weldon set screw flats. The V-Block can also be used with our cut off wheel to aid in carbide tool cut off.



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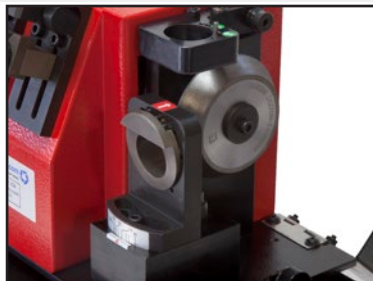
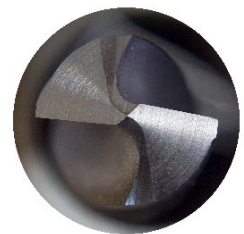
COMBINATION DRILL AND END MILL END GRINDER

CS320D



CS320D Combination End Mill and Drill Grinder

- All steel construction
- Grinds drills and 2-6 flute end mills 3mm to 20mm (1/8" to 3/4") diameter
- Creates 90° to 140° drill point angle
- Adjustable depth-of-cut for split point geometry (drills)
- Adjustable depth-of-cut for gash (end mills)
- Includes 23pc collet set and two grinding wheels for both HSS and carbide tools.
- Machine size: 45cm x 27cm x 19cm x 25kg
- Steel tool cabinet for tool and wheel storage

**BEFORE****AFTER**

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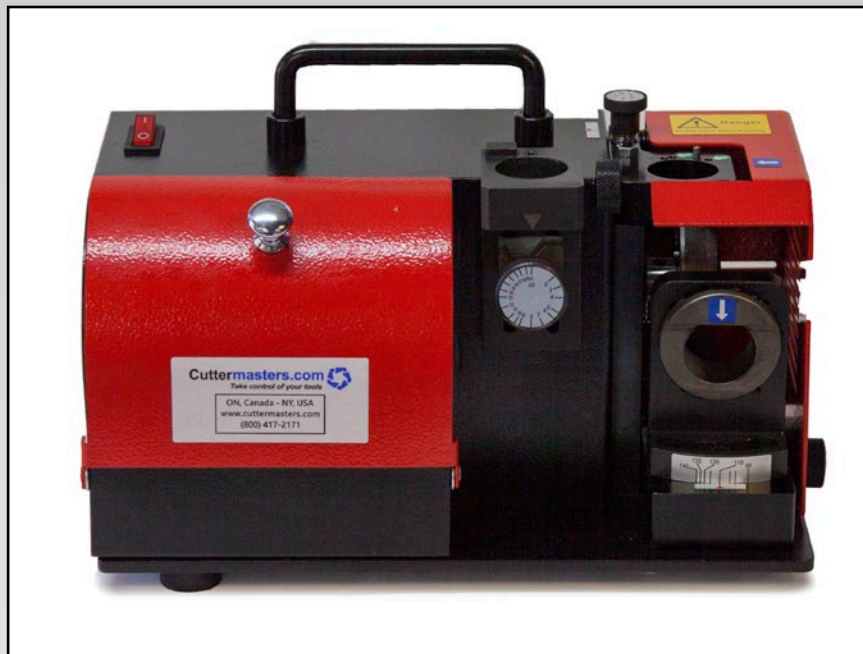
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DRILL POINT GRINDERS

DS213 & DS220D

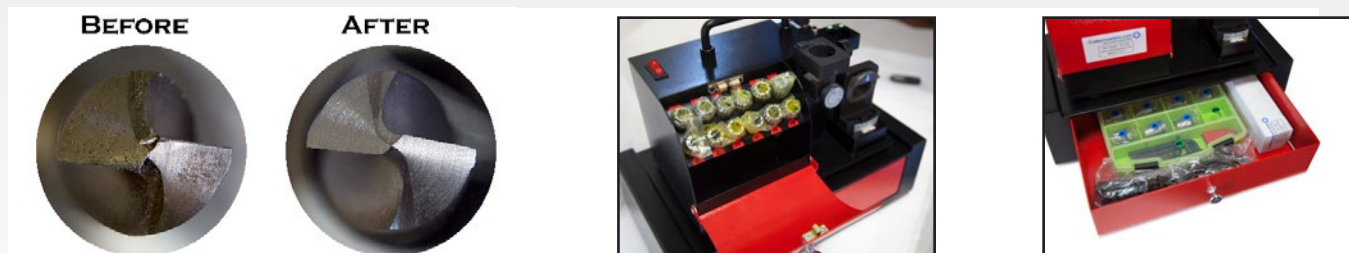


DS213 Drill Grinders

- DS213 Grinds drills 2mm to 12mm (1/8" to 1/2") diameter
- DS213 Grinds drills 2mm to 16mm (1/8" to 5/8") diameter
- Creates 90° to 140° point angle
- Creates variable split point geometry S / N / X and XR type
- Adjustable depth-of-cut for split point geometry
- Grinds both High Speed Steel and Carbide drill bits with the same wheel
- Includes 12pc collet set (DS213 includes 10 pc.)
- Machine size: 26cm x 16cm x 19cm x 8kg

DS220D Drill Grinder

- Grinds drills 2mm to 20mm (1/8" to 3/4") diameter
- Creates 90° to 140° point angle
- Creates variable split point geometry S / N / X and XR type
- Adjustable depth-of-cut for split point geometry
- Includes 19pc collet set and tool storage drawer
- Machine size: 26cm x 16cm x 19cm x 10kg



ADVANCED DRILL POINT, ANGULAR TIP GRINDER
CHAMFER MILL, SPOT DRILL, PERFORMANCE DRILL
SDD220D



SDD220D Drill Grinders

- SDD220D Grinds drills 2mm to 20mm (1/8" to 3/4") diameter advanced tip tools
 - Creates 80-140° tip angles in several geometries 5th generation Drill tip with full backsplitted
 - Creates variable split point geometry S / N / X and XR and U type for High speed drilling
 - Grinds both High Speed Steel and Carbide create chamfer mills from used end mill stock
 - Solid Steel construction with tool storage drawer
 - Machine size: 26cm x 16cm x 19cm x 8kg
- Advanced 1A1 Wheels common both sides allows for wider faces and reduced wheel cost



**ADVANCED DRILL POINT, ANGULAR TIP GRINDER
CHAMFER MILL, SPOT DRILL, PERFORMANCE DRILL**

SDD220D



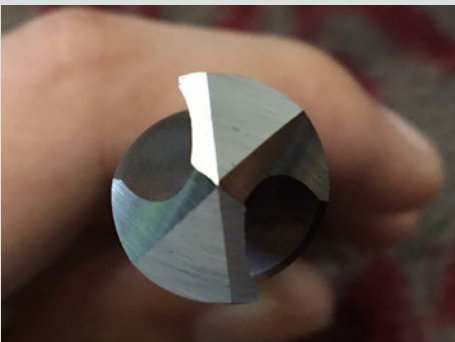
Advanced 4 Facet



Advanced Helical Progressive split



High Speed Steel Drilling



High Speed Soft metals



Spot Drill



U Type Heavy High Speed Tip



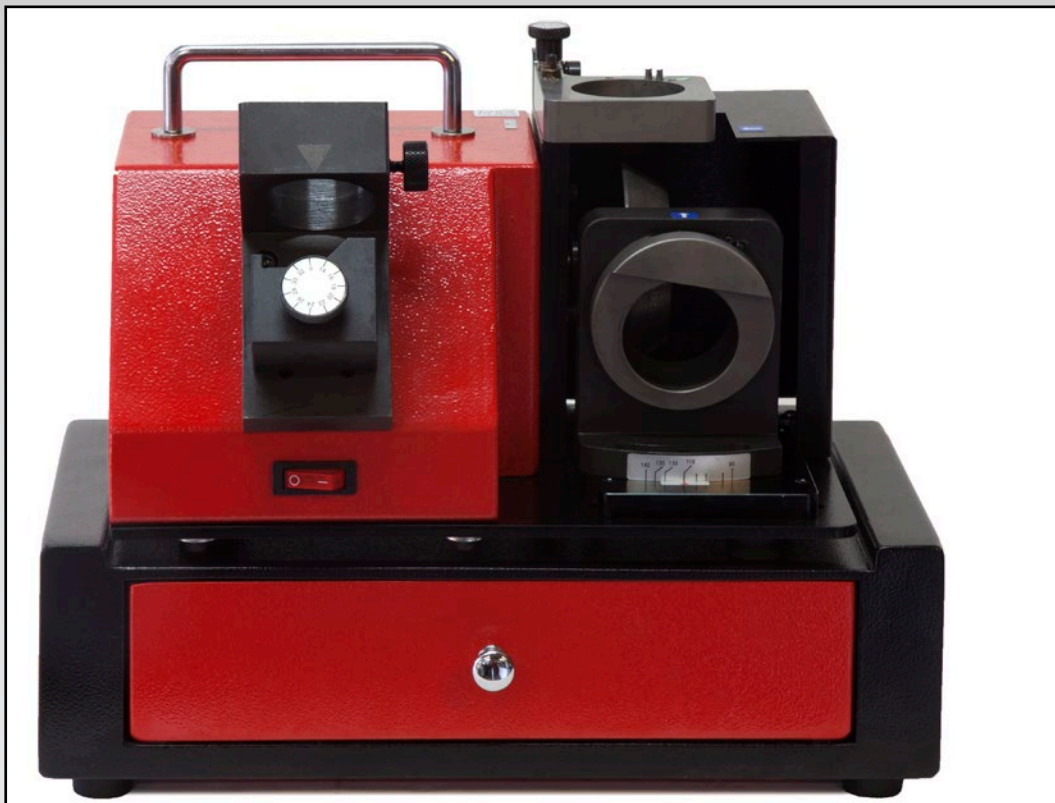
SG High Speed Stub Drill



Chamfer Mill

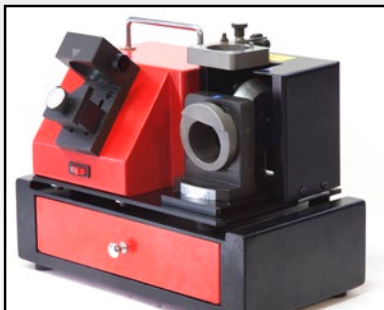
LARGE DRILL POINT GRINDER

DS1332D



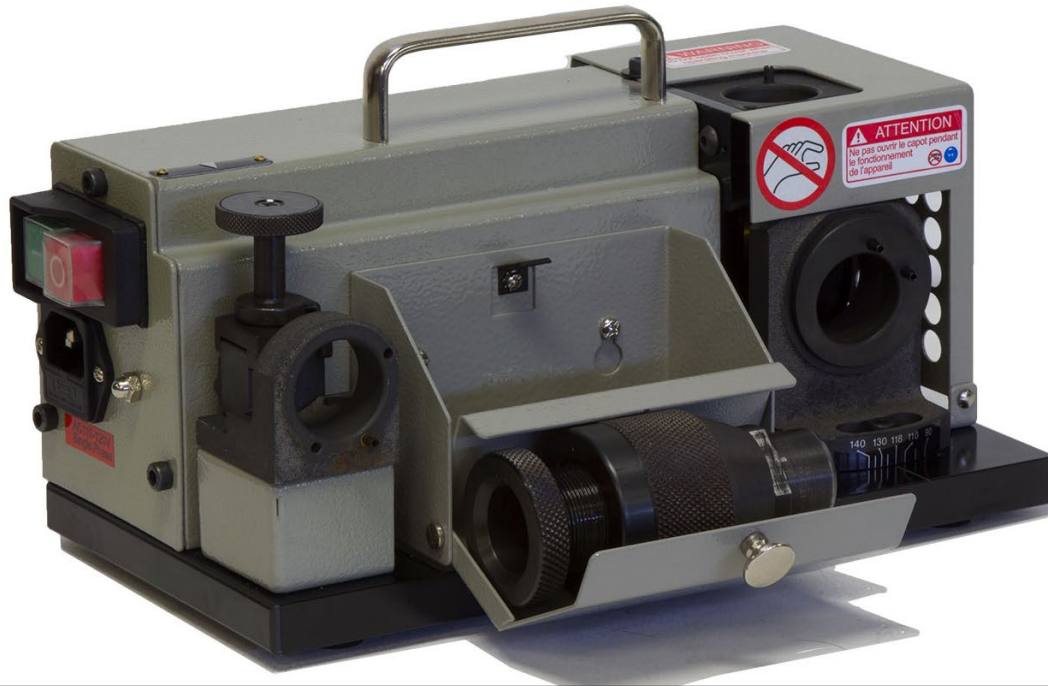
DS1332D Drill Grinders

- Sharpens drills 13mm to 32mm (1/2" to 1 1/4") diameter
- Creates 90° to 140° point angle
- Creates variable split point geometry S / N / X and XR type
- Adjustable depth-of-cut for split point geometry
- Sharpens both High Speed Steel and Carbide drill bits with the same wheel
- Includes 20pc collet set and tool cabinet
- Machine size: 35cm x 27cm x 17cm x 17kg



CHUCK-TYPE DRILL POINT GRINDER

EC313



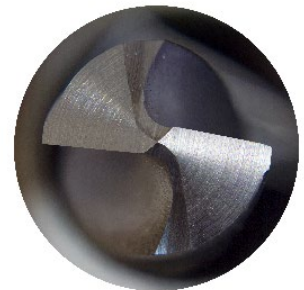
EC313 Chuck-Type Drill Grinder

- Chucks the drill instead of using collets
- Grinds drills 2mm to 13mm (1/8" to 1/2") diameter
- Creates 90° to 140° point angle
- Creates variable split point geometry S / N / X and XR type
- Adjustable depth-of-cut for split point geometry
- Grinds both High Speed Steel and Carbide drill bits with the same wheel
- Includes 12pc collet set (DS213 includes 10 pc.)
- Machine size: 26cm x 16cm x 19cm x 8kg

BEFORE



AFTER



Timing



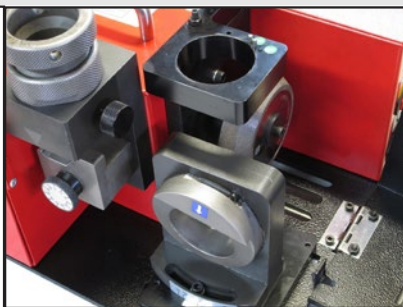
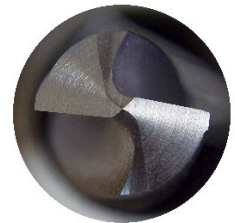
Grinding



Back Splitting

LARGE DRILL POINT GRINDER

DS232

**BEFORE****AFTER**

DS232 Large Capacity Drill Sharpener

- Sharpens drills 2mm to 32mm (1/8" to 1 1/4") diameter
- Creates 90° to 140° point angle
- Creates variable split point geometry S / N / X and XR type
- Adjustable depth-of-cut for split point geometry
- Sharpens both High Speed Steel and Carbide drill bits with the same wheel
- Includes 32pc collet set
- Machine size: 45cm x 27cm x 19cm x 25kg



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SMALL DRILL POINT GRINDER

SDS 16

Small drills are not always expensive but down time is.

Common tip geometry allows set up symmetry between machines.

Creating your own tip, you can have better control of cycle time.

The SDS16 is very easy to use and can be kept at the machine or in the tool room

The 400 grit diamond or CBN wheel produces a very accurate point split with a fine finish ensuring good tip life.



1/16" TO 1/4" CARBIDE, COBALT,
HIGH SPEED STEEL, 2,3 FLUTE

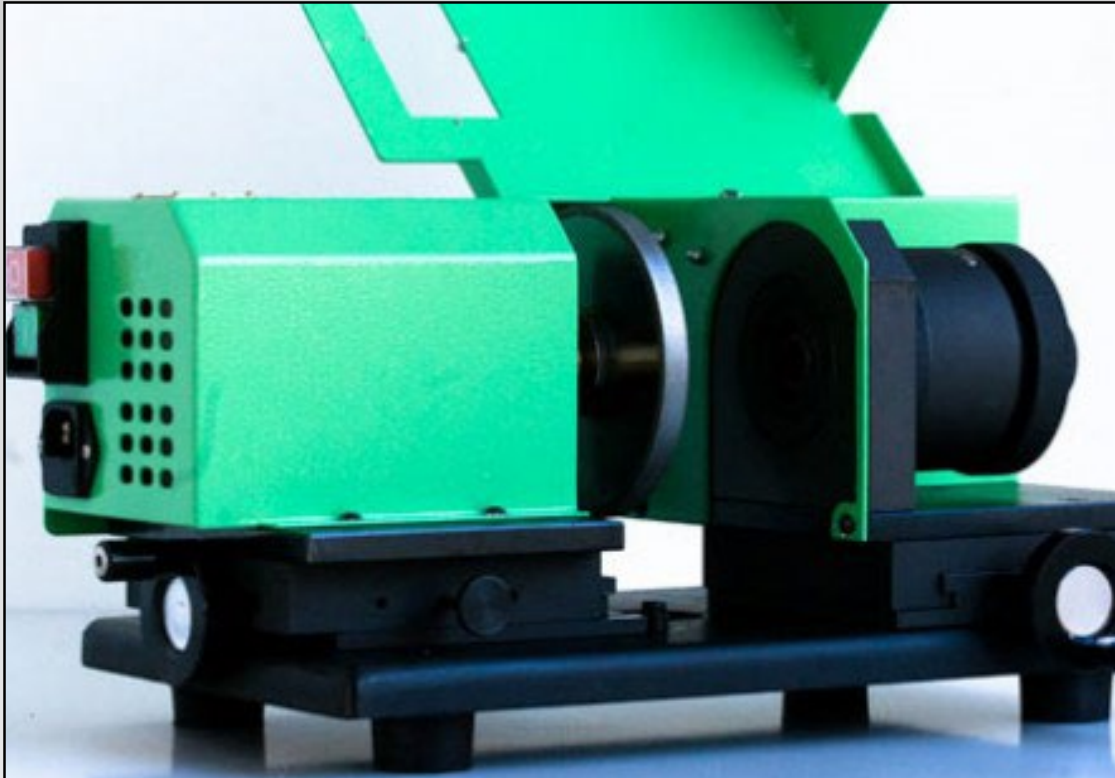
SDS16 Drill Grinder

- Grinds drills 1/16" to 1/4" diameter
- Creates 90° to 140° point angle
- Creates variable split point geometry S / N / X and XR type
- Adjustable depth-of-cut for split point geometry
- Includes 12pc collet set
- Machine size: 26cm x 16cm x 19cm x 8kg



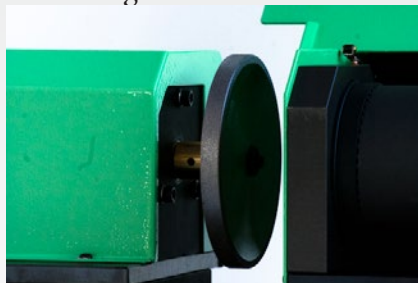
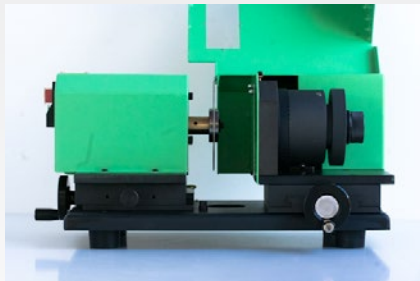
CUT OFF AND NECK GRINDING MACHINE

GS-13N



GS-13N Cut Off and Neck Grinding Machine

- Cuts off and neck grinds tools from 3mm to 13mm (1/8" to 1/2") diameter
- Tool rotates to decrease cutting time and temperature
- Cutting time: approximately 60 seconds
- Includes one CBN or diamond neck wheel, two diamond cut off wheels (for carbide) and 5 resin cut off wheels (for high speed steel)
- Machine size: 38cm x 23cm x 22cm x 22kg



GS-13N with necking wheel



Cut off end mill

END MILL END GRINDER AND TOOL CUTTER

ESC520D



ESC520D End Mill Sharpener and Tool Cutter

- Sharpens end mills 5mm to 20mm (0.196" to 0.750") diameter
- Cutting angle concavity: 0° to 3°
- Lip clearance: 6°
- Cuts ends of tool off
- Sharpens both High Speed Steel and Carbide tools with a wheel change
- Includes collet set
- Machine size: 36cm x 18cm x 23cm x 15kg



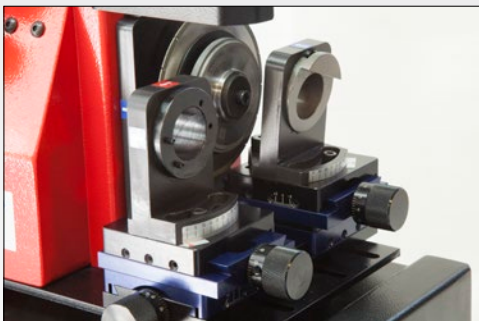
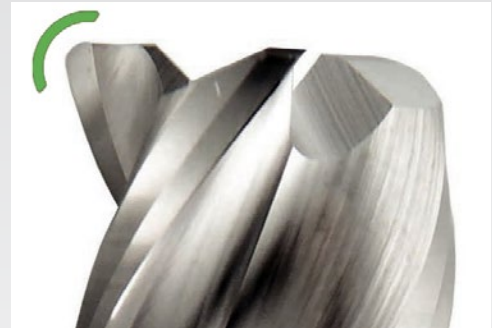
END MILL END, CORNER RADIUS GRINDER

ESR520D



ESR520D End Grinder, Corner Radius Grinder

- Grinds from (3/16 to 3/4") 2-6 flute end mills on the left hand side of the machine (optional 1/8" capacity)
- Cutting angle concavity: 0° to 3°
- Grinds corner radius up to 1/8" on a 3/4" end mill on the right hand side of the machine
- Lip clearance: 6°
- Chucks and collet sets, wheels (set for carbide tools)
- all steel construction with tool and wheel storage cabinet
- Machine size: 36 x 18 x 23mm, 15kg



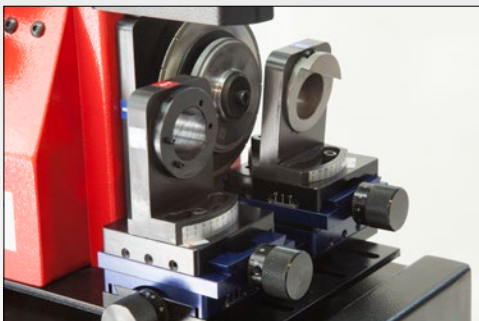
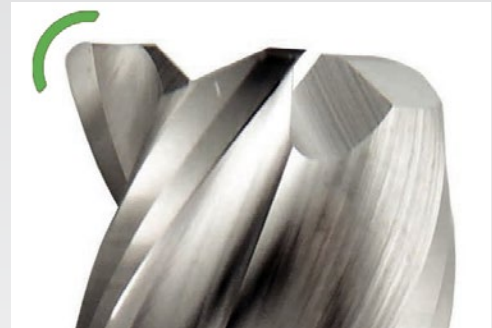
END MILL END, TOOL CUTTER, CORNER RADIUS GRINDER

ESCR520D



ESCR520D End Grinder, Cutter, Corner Radius Grinder

- Grinds from (3/16 to 3/4") 2-6 flute end mills on the left hand side of the machine (optional 1/8" capacity)
- Cuts off and grinds corner radius up to 1/8" on a 3/4" end mill on the right hand side of the machine
- Cutting angle concavity: 0° to 3°
- Lip clearance: 6°
- Chucks and collet sets, wheels (set for carbide tools)
- all steel construction with tool and wheel storage cabinet
- Machine size: 36 x 18 x 23mm, 15kg



TOYCEN**CUTTERMasters** 

END MILL END GRINDER

ES520D



ES320D End Mill End Grinder

- Grinds 5-20mm (3/16" - 3/4") 2-6 flute end mills (optional 1/8" capacity)
- Cutting angle concavity: 0° to 3°
- Lip clearance: 6°
- Includes collet set and grinding wheel
- Machine size: 36 x 18 x 23mm, 15kg
- Will grind 3mm with addition of sharp wheel



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

Manufacturing and Distribution - 808 Proctor Ave, Ogdensburg NY 13669

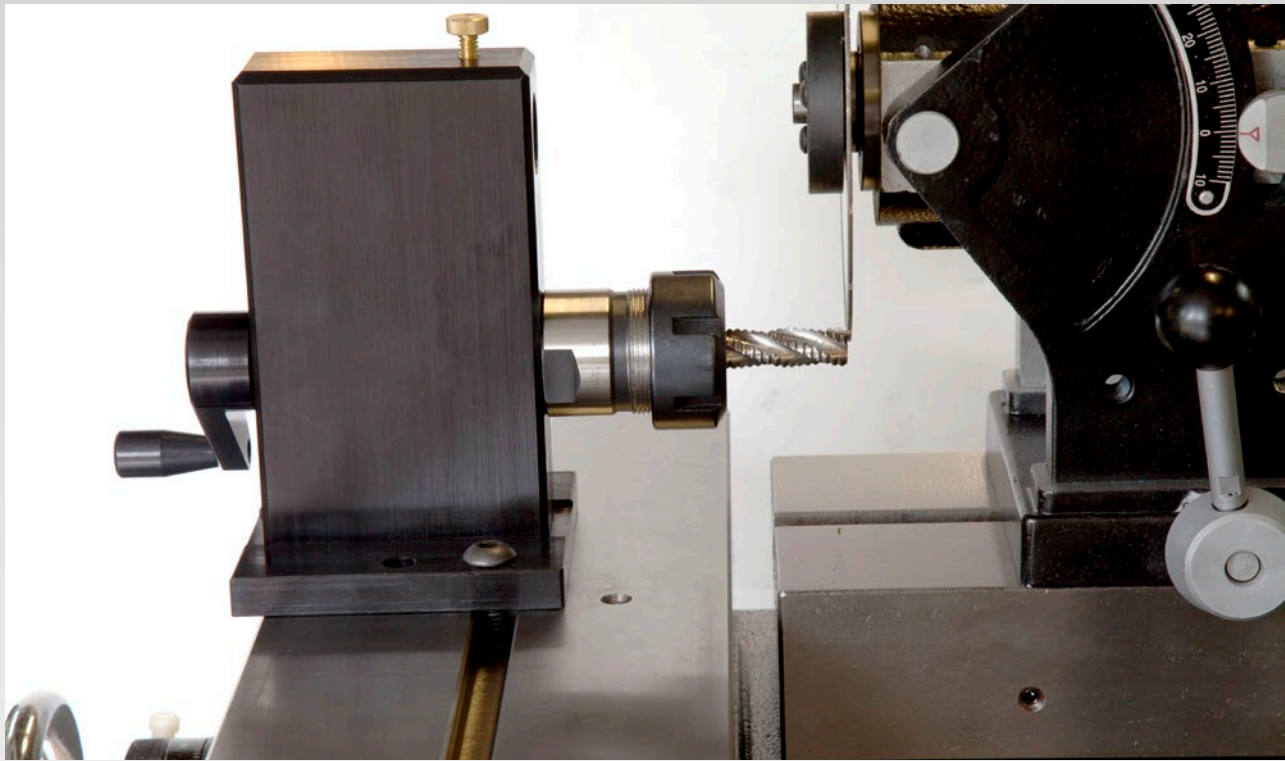
CALL US 1 (800) 417-2171

www.cuttermasters.com or email: cuttermaster@gmail.com

SHANK, FLAT AND CUT OFF FIXTURE

JX-ER32

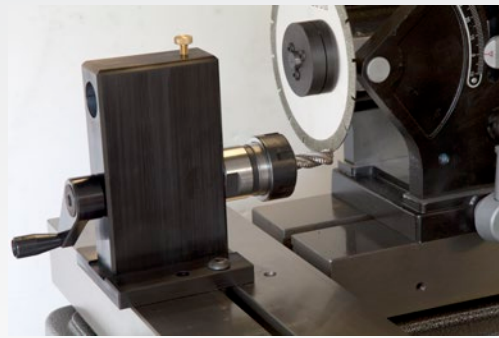
Our Shank, Flat and Cut Off Fixture was designed to take the work load off your air spindle for operations where a fluid air bearing is not needed. Use it for tool cut off, grinding Weldon set screw flats and neck reductions



Fits all CUTTERMASTER Style Machines



Weldon Set Screw Flats, Neck Reduction



Carbide Cut Off

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

www.cuttermasters.com or email: cuttermaster@gmail.com

Ive had the joy of being in a manufacturing setting for most of my life. In my travels I've learned that I like to design things and I've had the pleasure of building ships, cranes, buildings, armored vehicles, robots and rocketparts. Most interesting of all were the machine shops and along the way I learned about DC motors and controls. In 2005 I thought I'd bring that experience (common in large machine tools) to tool grinders, bench grinders and belt sanders . The benefits being speed control, torque and reversing potential. AC motors are very inexpensive which is why they are commonly used. I felt that tool grinders and bench grinders were too big or too fast and needed a visit. Time for some new material. To begin with, we designed the CUTTERMASTER Professional, and then Rolled out the Tradesman Line. Hope you like what we've done.

A handwritten signature in white ink that reads "Jeff Taper". The signature is fluid and cursive, with the first name "Jeff" and last name "Taper" clearly legible.