

TOYCEN CUTTERMASTERS

Take Control of Your Tools

TRADESMAN DC

VARIABLE SPEED, WHISPER DRIVE, DC BENCH GRINDER



Belt-Over-Wheel: Variable Grit



Sharpen Countersinks and Unibits



Tradesman Edge 12 - Tormek Water Bath



End Mill Workstation: Necks, Flats, Cut Off, Rads



Woodturners - Wood Workers

TOYCEN

CUTTERMasters



Take Control of Your Tools

Welcome to Cuttermasters.

Having been in shops all of my adult life, I noticed that we all were 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. I knew that DC motors were a better way to go. -- Tool Grinders and most grinders were too big too fast and there was nothing particularly precise about them.

Soon we had the DC variable speed CUTTERMASTER Professional, *The Pro*, which answered the tool grinder problems. Hot on the heels of The CUTTER Professional came the Tradesman family of DC bench/belt grinders, which are the best machines available in this class in the world today:

The eight inch Tradesman 8, popular with woodturners and sharpeners, and the six inch Tradesman 6 designed for machine shops. Tradesman Belt, these grinders have 36" and 48" belt sanding attachments that can also be easily retrofitted to existing machines. The Tradesman BOW Innovation is a variable grit belt grinder that features quick change belts and uses a Cuttermasters CBN wheel as the drive wheel. The Tradesman Edge (geared belt drive) workstation fit in the lineup in the brute force category. Powerful, Quiet, Reversible. Speeds from 150 to 2000 RPM --- mounts belt, 8 inch or 10 inch wheels (and its pretty).

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 Journeyman Professional Toolmaker replaces the JX's motor with the TOYCEN Infinite TwinTower 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 or an idea to share, we would love to hear from you.


Jeff Toyce

Tradesman DC Models at a Glance

All Tradesman grinders feature the powerful Toycen DC Motor and Control. They all plug in to regular household 120V AC (220V available) outlets



Tradesman 6" Machinist Dual and Single Shaft

The Tradesman Machinist comes in single and dual shaft versions. The Tradesman Machinist can be configured to grind Weldon set screw flats, neck reductions, corner rads, countersinks, uni-bits, reamers and more.



Tradesman 8"

The original Tradesman, the Tradesman 8 is our most popular grinder for the wood turning community. A pair of our CBN Precision Plated grinding wheels: 80 and 180 make this grinder an all-round multi purpose grinder. Use our Tormek bracket to use your favorite jigs - from knives, scissors and planer blades to carbon fiber and plastics. Add a belt sander. Ready for Wolverine by One-Way. Available fitted with battery for field work.

Tradesman Edge - Edge 810, Edge 12 and Edge Belt

Designed for fabricators and knife makers the Tradesman Edge uses a geared belt reduction to drive the 8" or 10" grinding wheels. This provides even greater torque at low speeds and a lower bottom rpm of 200. Three models: Edge 810 for 8", 10" wheels and belt sanding attachments, Edge 12 for Tormek wheels and water bath, and Edge belt for belt sanding.



Tradesman Machinist T6



Tradesman 6" Machinist (dual shaft). Grind anything: unlike any other grinder, you can grind carbide tools or Teflon on the same wheel. The Tradesman Machinist is great for many important operations

- Weldon set screw flats
- Corner rads, carbide corner prep
- Neck reduction
- Carbide and HSS cut off
- Lathe tools
- Carbide inserts
- Reamers
- Unibits
- Countersinks
- Belt sander



Conventional 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 with Cuttermasters Precision Plated Superabrasive wheels is different. Flat and sharp grinding surface, great for shaping and sharpening and no bucket of water on the front. The patented Tradesman Low Speed High Feed Grinding system is balanced, smooth and quiet. With a low speed of 500 RPM, and no run out, there's nothing threatening about it.

Wheel diameter	6" or belt
Voltage	110V or 240V(opt.)
Frequency	60Hz
Rated power	400W
Wheel speed	500-4000 rpm
Height at 6" guard	9.25"
Width at 6" guards	10.8"
Depth at base	8"
Wheel center height	5.5"
Shaft diameter	5/8", 1-1/4" hub
Shaft concentricity	.0002" (5µm)

Tradesman Machinist Accessories



T-ER32i
Necks, Flats, Cut Off, Rads



T-WF
V-Block for Flats



CM-06 DCS
Drills and Countersinks

Tradesman Machinist T6NC



Tradesman 6" Machinist NC (single shaft)
Grind anything: unlike any other grinder, you can grind carbide tools or Teflon on the same wheel. Our most compact grinder is great for many important machinist operations

- Weldon set screw flats
- Neck reduction
- Carbide and HSS cut off
- Lathe tools
- Carbide inserts
- Corner rads, carbide corner prep
- Reamers
- Unibits
- Countersinks
- Belt sander

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Tradesman Machinist Accessories



T-ER32i
Necks, Flats, Cut Off, Rads



T-WF
V-Block for Flats and Cut Off



T-MRF
Micro Adjust Feed Rest

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



Tradesman 8 Woodworkers

T8

Rough. Sharpen. Hone.



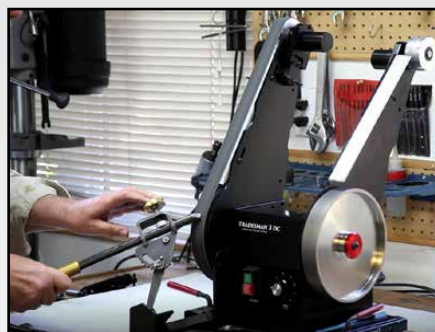
Tradesman 8" DC Variable Speed Bench Grinder complete with our precision plated grinding wheels and standard tool rests – ready to grind just about any material. If you're going to run superabrasive wheels give them a good home.

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

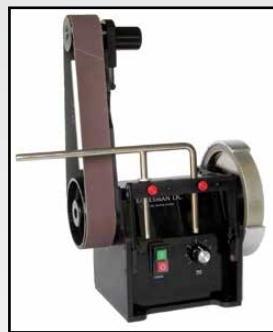
Quickly rough in and sharpen your woodturning tools on our Cuttermasters Precision Plated CBN grinding wheels.



Mitre Rest Jig Plate



Wolverine / Belt Over Wheel



Belt Sander



Tormek Jigs

• **Whisper Drive DC Motor and Control** is five times as powerful as an AC motor and provides high torque, quiet and cool grinding from 400-4000 RPM. Super Precision Plated CBN wheels up to 600 Grit are balanced, true and won't change shape. Paired with our patented DC motor these wheels allow for aggressive grinding without generating damaging temperatures. **Made in North America** and built by machinists in Canada and the USA using quality parts and practices you can trust.

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Tradesman 8 DC Cordless

Rough. Sharpen. Hone. Anywhere



Take your sharpening into the field with the The Tradesman 8" DC Cordless --- now available fitted with a Lithium Ion battery that can be plugged in to 110 or 220v AC or unplugged and used cordlessly.

Complete with our precision plated grinding wheels and standard tool rests the Tradesman is ready to grind just about any material. If you're going to run superabrasive wheels give them a good home.

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



Mitre Rest Jig Plate



Wolverine / Belt Over Wheel



Belt Sander



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Tradesman Edge Geared Belt Reduction

T-Edge

Reversing, Quiet, Unstoppable Geared Belt Drive



The Motor is shaft is isolated from the main shaft with a geared timing belt, the main shaft is 1" diameter, uses the same large single row ball we use in our largest tool grinder. ToyCen DC whisper drive Speed ranges from 150 to 3000 surface feet and is reversing. Yes, you can stand a coin on edge on top of the machine at any speed range (the Tradesman Loonie test). Smooth is the name of the game. Reversing, quiet, and unstoppable geared belt drive, available in various speed ranges.

Total control, no heat, no risk, minimal burr

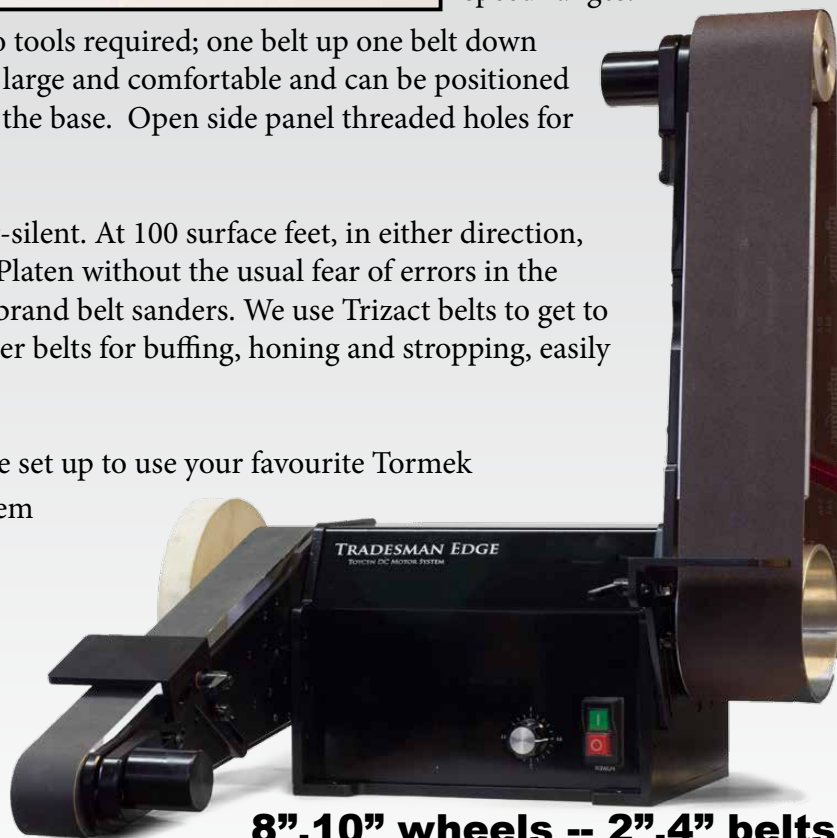
Belts can be vertical or horizontal, moved with no tools required; one belt up one belt down forward or backward. Tool / work/ hand rests are large and comfortable and can be positioned almost anywhere on the belt, front or back, or on the base. Open side panel threaded holes for scissor fixturing.

The Motor and Motor Drive are smooth and near-silent. At 100 surface feet, in either direction, you can rest your blade on the belt sander Smart Platen without the usual fear of errors in the sharpening process that are common with other-brand belt sanders. We use Trizact belts to get to near-honed edge and mount felt wheels and leather belts for buffing, honing and stropping, easily achieving 185 Bess.

Available in three models. All three models can be set up to use your favourite Tormek attachments as well as the Wolverine grinding system

- **Edge 810** for 8" and 10" wheels, belt sanders
- **Edge 12** for Tormek 12mm bore wheels, water bath
- **Edge Belt** for belt sanders

Rough, Finish, Hone. The Tradesman Edge is the ultimate tool in the hands of fabricators and sharpeners who need power and precision.



8", 10" wheels -- 2", 4" belts

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Tradesman Edge Geared Belt Reduction **T-Edge**

**Sharpeners
Dream**

8" and 10" CBN Wheels



Edge 810

Dual Belt / Felt
(4"x48", 2"x48",
2"x36")



Edge Belt

**50-2000RPM
Reversing**

Water Bath - Mount your
Tormek Wheels and attachments



Edge 12



Tormek
Attachments on
wheel or
belt



Base machine without wheels or work rests



Micro-Adjust
Feed Rest

Power and Precision

- DC variable speed, plug in to any 120V AC outlet (220V available)
- Geared belt drive for unstoppable torque at low rpm
- Add Water Bath Kit or Dual Belt Kit
- Belts position from vertical to horizontal - no tools required
- 150 to 3000 rpm, Reversing
- Trizact belts from apex to near hone of 6 micron, achieve sharpness of 185 Bess
- Hone with leather belt or 8" felt wheel
- Cordless (option)

Wheel diameter	8" and 10" or belt
Voltage	110V or 240V(opt.)
Frequency	60Hz
Rated power	400W
Wheel speed	150-1500 rpm
Height at 10" guard	11"
Width at 10" guards	15"
Depth	9.5"
Wheel center height	5.5"
Shaft diameter	5/8" or 7/8" or 12mm
Shaft concentricity	.0002" (5µm)

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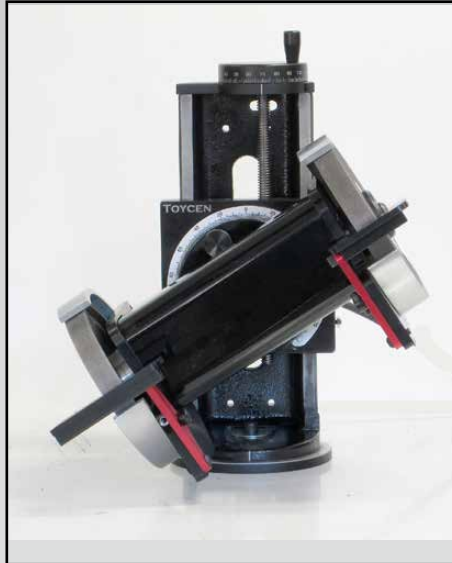
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Tradesman Tower

Multi-Axis Bench Grinding Workstation

T-Tower

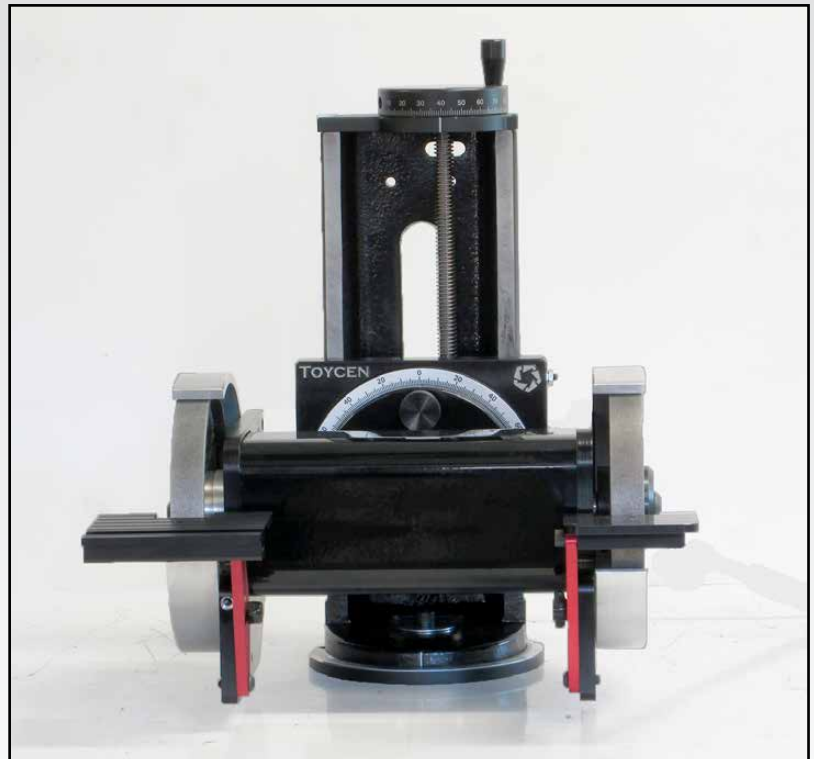


Grind anything, any position, either Direction

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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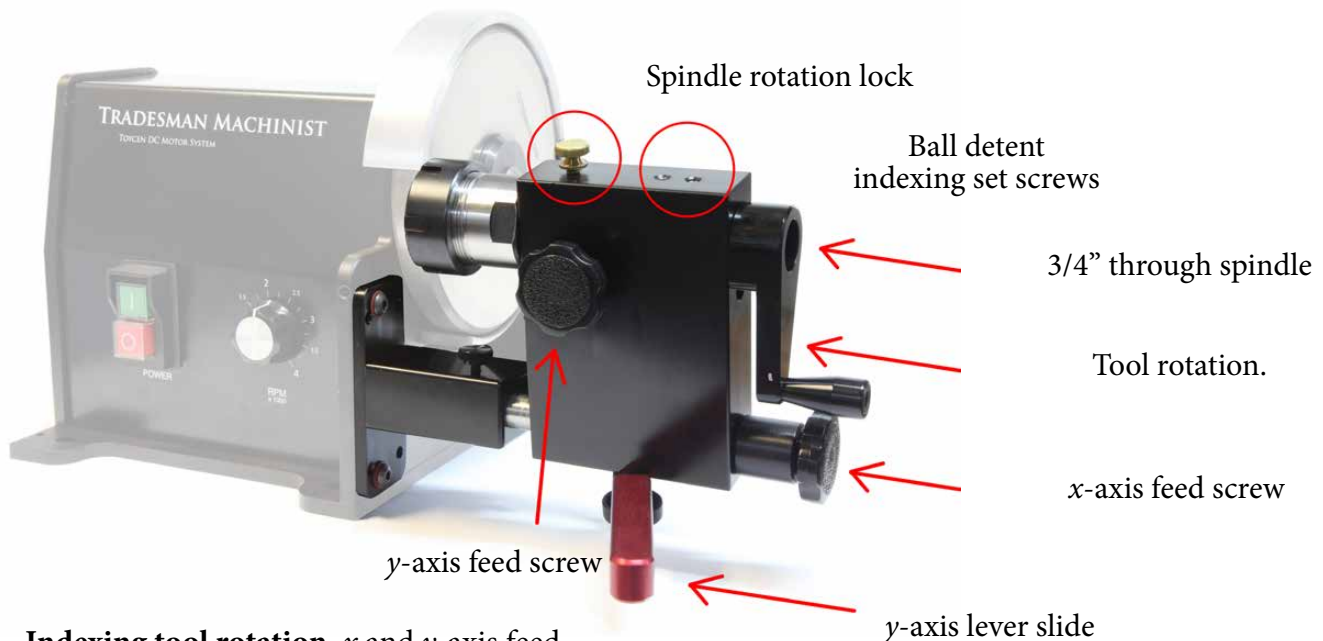


End Mill Workstation

Necks, Rads, chamfers, Flats and Cut Off

T-ER32i

This End Mill Workstation mounts on the Tradesman DC Bench Grinder. It allows you to hold the tool square to the wheel for easy creation of end mill features. The T-ER-32i differs from the T-ER-32 by being able to index to several prescribed positions around the tool (for specific operations such as reamer sharpening and plunging corner rads), larger through spindle, x-axis lever slide and expanded collet set.



- Indexing tool rotation, x and y-axis feed
- 3/4" through-spindle bore
- Grind corner radius / bull nose (rad wheel)
- Grind reamers (chamfer wheel)
- x-axis lever slide
- Grind Weldon set screw flats (chamfer wheel)
- Grind neck reductions (chamfer / shoulder wheel)
- Cut off carbide and high speed steel tools (cut off wheel)
- Comes complete with ten piece 5C collet set (1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4")



Reamers



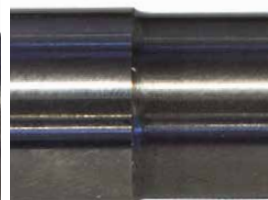
Corner Radius



Five piece collet set



Weldon flats



Neck reduction



Tool cut off

Tradesman Machinist T6

End Mills: Flats, Necks, Carbide Cut Off, Corner Rads



T-ER32i

T-ER32i 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

CM-06DCS

- 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



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V-Block Work Rest for Weldon set screw Flats and cut off

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.



Machinist Set up for Unibits

T6Unibit, Sharpen Unibits (step drill bits)

T-Unibit

This attachment allows for quick sharpening of unibits (step drill bits) using the Tradesman Machinist DC variable speed bench grinder and unibit wheel. A fence allows for controlled travel past the wheel, each pass taking a few thousandths of material.



Tradesman 6" Machinist with T-Unibit Fence, T-6180U Unibit Wheel, Brass wire wheel



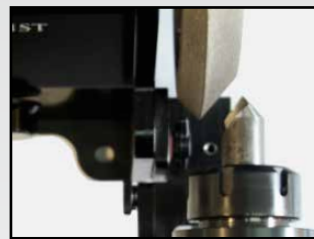
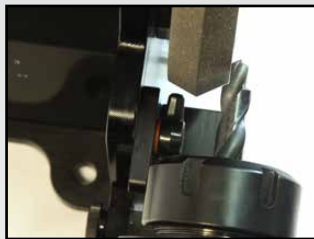
Sharpened Unibit

Instructions:

1. Set depth of cut adjustment. Position three setscrews so that the unibit fence is at desired depth of cut.
2. Tighten the two mounting bolts to secure the unibit fence to Tradesman side plate.
3. Position the unibit. Away from the wheel, press and hold unibit against the bottom and outer face of the fence.
4. Grinding. While maintaining light pressure against the fence, slide the unibit back and forth past the wheel. Each pass should remove a couple of thousandths of an inch. Repeat until inside face of the unibit is evenly ground to the cutting lip - a few passes should do it.
5. Removing the burr. This sharpening process will produce a small burr on the outside of the cutting lip. Remove this burr to complete the sharpening process. A quick pass of a wire brush works well.

Step Drill 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 standard CUTTERMASTER 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

Tradesman 8 BOW Sharpeners ~ Woodturners Belt Over Wheel



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.

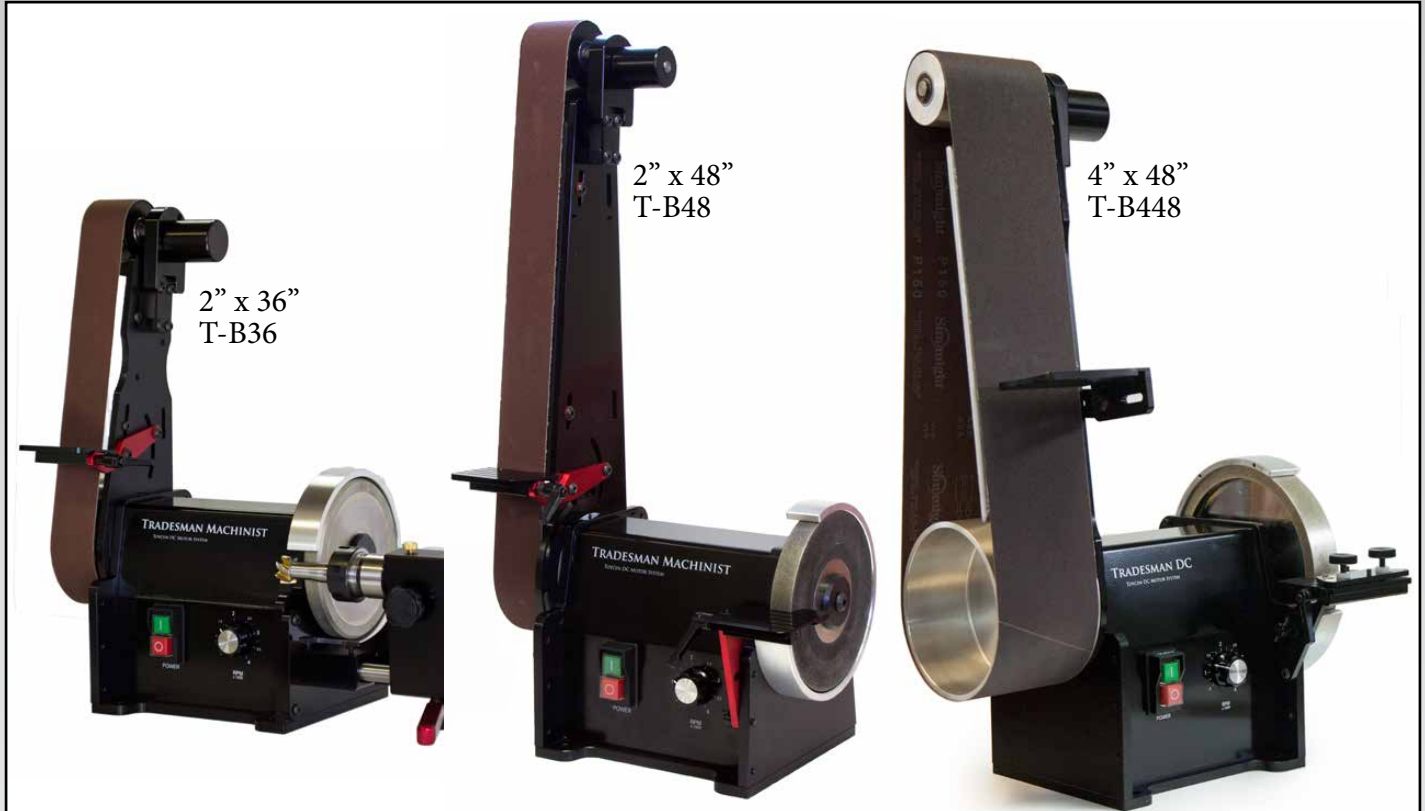


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Tradesman Belt Attachments

T-B36, T-B48, T-B448



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. Multit positions available with reverse, 400 to 4000 rpm. Tradesman Smart Platens are machined square and engineered for superior burr minimization and removal.

Speed / Torque Compensation / Directional Control
5 x more powerful than any grinder in this class
5 ft-lbs at 1000 RPM



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Tradesman Vaccum Table

T-Vac



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



Cuttermasters wheels don't 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.

We hope you like our Tradesman Grinder. We're very proud of this machine.

Jeff and the Super Crew