

1315 Pearl St. - Waukesha, WI 53186 E-mail:sales@thorvie.com Phone: 866-497-0572 Web:www.thorvie.com

World Leader in Saw and Tool Sharpening Equipment



THORVIE™ AV-40 DELUXE SAW AND TOOL GRINDER <u>See page 3 for package price!</u>















WE SHIP WORLDWIDE

Thorvie International LLC A leading manufacturer of grinding machines and fixtures.

THE AV-40 SAW AND TOOL GRINDER PACKAGE - Includes everything you need to become a proficient, and professional saw & tool sharpener in the least amount of time.

The Thorvie™ AV-40 saw and tool grinder with attachments...

- is one of the **easiest** and **fastest** machines to learn how to set up and operate.
- enables you to sharpen saw blades from 1-7/8" to 30" in diameter, router bits, shaper cutters, jointer and planer knives, hole saws, wood chisels and many other tools.
- unlike many other grinders, it comes equipped with a 110 volt, 6.5 amp motor, allowing no loss of RPM during grinding, while also enhancing the diamond wheel life.
- its saddle bearing assembly has four bearings, preventing vibration between the grinding wheel and the tool you are grinding.
- the motor arbor is designed so you can sharpen raised panel cutters, eliminating the need to spend thousands of dollars on a separate machine to sharpen them.

IMPORTANT: The wheel is what grinds the tool and is a major factor in the quality of work produced. Very few individuals starting out in the sharpening business have knowledge of the many different types of grinding wheels; that expertise is gained through years of experience. When you purchase Thorvie International equipment we quarantee you will receive the best of wheels and equipment to do a professional sharpening job.

Things you'll want to keep in mind when deciding on the brand of sharpening equipment you want to purchase for your business is quality and consistency of equipment design, as well as availability of replacement parts. Thorvie International's AV-40 is built the same today as it was when we began production 38 years ago. That's because, unlike other manufacturers that have to change their model number every couple of years to try to make improvements, the Thorvie AV-40 was built right, right from the start! What that means for you is that replacement parts for your sharpener are available to you whether you bought an AV-40 from us 38 years ago, or just last year. Some competitors, as they change their model numbers, no longer make replacement parts for their older models - you are forced into buying their new machine. With a Thorvie AV-40 saw and tool grinder, you'll never have to worry about that. We offer our customers today the same well-built machine that has proven to help make many saw sharpening businesses successful over the last 38 years. It was a top-quality machine back then, and it's a top-quality machine today! Our customers testimonials attest to



AV-40 DELUXE CARBIDE SAW AND TOOL GRINDER

This carbide and steel saw grinder has a diameter capacity from 1-7/8" to 30". It allows you to face, top and side grind. The AV-40 is one of the fastest grinders to set up and easy to use. When changing from face to top grinding and from one diameter to the next, just loosen a lever and rotate an arm. This machine will save you 25% of the set up time over other grinders, AND is less costly. Attachments included in the package also allow you to grind router bits, jointer planer knives, shaper cutters, spiral planers, adjustable dado's, etc. \$4,447.00 AV-40 saw blade machine, 7" to 30" in diameter only. Includes 6" resin bond wheel, 6" diamond face grinding wheel, 6" diamond top grinding wheel, 6" diamond thin

face grinding wheel, roundness gauge, machine light, angle finder, instructions, training DVD's and heavy duty enclosed 110 volt motor. **Optional Upgardes for saw blades:** small cup and cone fixture for saw blades 1-7/8" to 6-1/2" \$295.00, large cone for saw blades with arbors from 1-1/2" to 3-1/4" \$120.00.

AV-40 STARTER PACKAGE PRICE

Item Description		List Price	
AV-40 Grinder only		\$ 3,722.00	
Knife Grinding Fixture		\$	795.00
Roundness Gauge		\$	129.00
Router Bit Fixture		\$	316.00
Shaper Cutter Fixture - 1/2" - 1"		\$	225.00
Shaper Cutter Fixture - 1-1/4"		\$	105.00
Spiral Planer Head Fixture		\$	240.00
Small Cup and Cone Assembly		\$	295.00
Adjustable Dado Fixture		\$	249.00
Machine Light		\$	69.00
6" 400 Grit Face Diamond Wheel 01763		\$	169.00
6" 400 Grit Top Diamond Wheel 01763		\$	169.00
4" 400 Grit Router Bit Diamond Wheel 01764		\$	159.00
6" 400 Grit Ultra thin rim Diamond Wheel 01762		\$	169.00
5" Cup Jointer & Planer Knife Sharpening Wheel		\$	65.00
5" Buffing Wheel		\$	79.00
2" Aluminum Oxide Wheel		\$	20.00
Angle Finder		\$	20.00
Written Instructions, Training DVD's, Customer Service		included	
	/alue	\$ 6,995.00	

NOTE: RED HEADING INDICATES FIXTURES ARE INCLUDED IN THE THORVIE ™ AV-40 PACKAGE



ROUTER BIT FIXTURE

Sharpen all types of carbide and steel router bits in less than half the time it takes with a tool and cutter grinder, plus get the same quality sharpening results. Sharpen both straight and angle fluted bits. Includes grinding wheels for carbide and steel router bits.

\$495.00



SMALL CUP & CONE

Sharpen blades from 1-7/8" to 8" diameter. It has a built-in stop finger; arbor holes from 1/4" to 1-1/4"; and mounts directly to the 1" plug on top of the saddle assembly. \$295.00



ADJUSTABLE DADO FIXTURE

Accurately sharpen carbide or steel Adjustable or Wobble dados. It's faster to sharpen Adjustable dados with this fixture than it is to top grind 20-tooth carbide tipped saw blade! \$249.00



ICE AUGER BLADE FIXTURE

Precision sharpens Mora, Jiffy and Eskimo ice auger blades. Mounts on the 1" plug. Fixture is spring loaded for accurate grinding. Very simple to use. Complete with instructions and grinding wheel. \$289.00



ICE AUGER LAZER BLADE FIXTURE

Precision sharpens Lazer ice auger blades. Mounts on the saddle Assembly. Fixture angle is adjustable for accurate grinding. Very easy to use. Complete with instructions and grinding wheel. \$259.00



SPIRAL PLANER HEAD FIXTURE

You can sharpen Spiral Planer heads in less than a quarter of the time that it takes to set up on a tool and cutter grinder. Sharpen both steel and carbide.

\$240.00



WOOD CHISEL FIXTURE

Precision sharpens short or long wood chisels. With this fixture you get the correct hollow grind on the chisel. \$275.00



MASON DRILL BIT FIXTURE

Sharpen carbide and steel Mason drill bits from ½" to 3" diameter. You can easily earn \$75.00 an hour sharpening these bits. Many sharpeners are overlook this sharpening opportunity. You will find these to be one of the easiest tools to sharpen with this fixture.

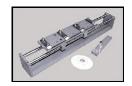
\$265.00

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HEDGE TRIMMER FIXTURE

Set up in a matter of minutes to accurately sharpen all electric hedge trimmer blades. Mounts directly to the 1" plug on top of the saddle assembly. Includes 6" resin bond wheel. \$295.00



JOINTER & PLANER KNIFE FIXTURE

Quick set up with no guesswork. Sharpen carbide and steel jointer and planer knives up to 20" long. Grinds knives to exact height. Includes 5" aluminum oxide cup wheel. \$795.00



SLICER CUTTER FIXTURE

Sharpen circular blades from 3 1/2" to 12" with bevel and no teeth (blades typically used in cutting rubber, plastic, meat, etc.). Fixture allows you to grind the bevel and at the same time, keep your hands free from touching the cutter, as it is being ground. \$265.00



HOLE SAW FIXTURE

Precision sharpen Hole saws with this fixture. Set up and sharpen in a matter of minutes. Includes 6" resin bond wheel. \$189.00



SHAPER CUTTER FIXTURES

Precision sharpen all types and profiles of shaper cutters, Door Lipped, Detailed, etc. As simple to set up as to face grind a saw blade.

1/2" - 1" \$225.00 1-1/4" \$105.00



LAWN MOWER BLADE SHARPENING FIXTURE

Sharpen both straight and mulching lawn mower blades. Tool fixture swivels so you can match the proper angle to the grinding wheel. Do the same job as the expensive blade grinder and is just as fast.

\$175.00



AV-38 RETIPPING FIXTURE

Spring-loaded finger automatically returns to proper location after indexing from one tooth to another. Easy to set up for the different diameter saws, available in 2 sizes.

up to 30" blades \$495.00

up to 42" blades **\$595.00**

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DIAMOND POINT WHEEL DRESSER

You can <u>dress resin bond or stone wheels</u> with this DIA-MOND POINT wheel dresser. Mounts directly over the 1" plug on the saddle assembly. \$115.00



INSERT FIXTURE

This two operation insert fixture allows you to sharpen insert mill saw teeth used in large diameter saw blades and sharpen insert shaper cutters that are used in the changeable insert shaper cutter heads.

\$145.00



STUMP GRINDING FIXTURE (STANDARD)

Sharpen both the top radius and face of all standard stump grinding bits including the Vermeer bits with shanks from 1/2" to 7/8". Sharpen straight, right and left hand bits. Fixture includes special plated grinding wheel with instructions. \$749.00



STUMP GRINDING FIXTURE (YELLOW JACKET)

Sharpen both the top radius and face of the yellow jacket stump grinding bits. These bits are 15/16" wide and have two cutter heads. Fixture includes special plated grinding wheel with instructions \$849.00



STUMP GRINDING FIXTURE (GREEN/RED TOOTH)

These bits are circular and can be turned 3 time for new cutting surfaces. Sharpen both the hollow face and outer surface of these bits. Fixture includes special plated grinding wheel with instructions. \$849.00



STUMP GRINDING FIXTURE (SANDVIK)

Sharpen both the top radius and face of the Sandvik stump grinding bits. These bits are 7/8" wide with a flat top and rounded corners leading into the sides of the tooth. Fixture includes special plated grinding wheel with instructions

\$849.00



AV-36 CLIPPER BLADE SHARPENING MACHINE

Learn how to sharpen hair clipper blades—for hair stylists or animal groomers easily. Equipped with a 1075 RPM, 110 volt motor, it takes a mere ten seconds to sharpen a clipper blade with this AV-36 honing machine. Takes bench space of only 12" x 12". Price includes: honing compound, written instructions, training DVD and customer service. \$1595.00

PROFESSIONAL CLIPPER BLADE ACCESSORY PACKAGE



The accessory package allows you to sharpen the clipper blades with the newest technology along with the ability to adjust and test each set of blades so your customers will be 100% satisfied. The Professional Hone Accessory Package includes 8oz plate cleaner, 8oz charging solution, cleaning oil, grit applicator pad, button magnet, socket adjusting tool, and test fur.

Retail \$99.00, When purchased with AV-36 clipper hone \$83.00

PLATE DEMAGNETIZER



powered demagnetizer allows you to remove the friction in the clipper blades, eliminating any chattering with the blades. It also removes any steel particles left on the clipper blades during the sharpening process.

\$120.00

PROFESSIONAL GOLD SCISSORS SHARPENING SYSTEM

The ultimate sharpening technology for the world's finest scissors and shears.



Sharpen all scissors and shears, including professional pet grooming clippers, high quality fabric shears, and beautician and barber scissors. The professional honing wheels are capable of making blades even sharper than when they were brand new! This sharpener combined with the AV-36 Clipper Hone is all you need to have a professional service center for shear, scissors, and clipper blades.

- Free Floating Arm System & Sealed Bearings.
- Clamping System Adjusts from 0 to 55.
- Motor can be Wired for 220 Volt Use.
- Honing Wheel Makes Scissors 2 to 6 Times Sharper Than New!

Includes: Training DVD and manual, polishing wheel and compound, honing block kit, 800 grit diamond sharpening wheel, practice beauty shears, shears lock clamp, deluxe screw pliers kit, set adjusting tool, repair parts kit, angle gauge, fine white hone, wheel dressing brick, standard sharpening wheel and professional hone wheel.

Professional Gold Scissors Sharpener \$950.00



CONVEX STOP BLOCK

This stop block can be added onto your standard scissors clamp to sharpen the professional convexing shears with the Professional Gold Scissors Sharpener Machine. This eliminates purchasing an expensive convexing clamp. \$59.00

PROFESSIONAL SCISSORS SHARPENER



Sharpens Fabric, Industrial and Household Shears Quickly and Easily. Comes with Training DVD and Manual. Is PERFECT for Professional & Mobile Sharpeners! Make Scissors sharper than new!

- Free Floating Arm System & Sealed Bearings.
- · Clamping System Adjusts from 0 to 55.
- Motor can be Wired for 220 Volt Use.
- Honing Wheel Makes Scissors 2 to 6 Times Sharper Than New!

Professional Scissors Sharpener

\$525.00

CUTLERY KNIFE SHARPENER—PROFESSIONAL MODEL 125



3-Stage Professional Diamond Hone Knife Sharpener-incredible sharp knives...all day, every day!

The EdgeSelect Pro allows users to optimize the edge for gourmet, butcher, sporting and serrated knives. Built to perform, this rugged cast metal NSF-certified electric knife sharpener quickly and easily applies a razor sharp, highly durable edge on straight edge and serrated 20 degree class knives. Using precision angle guides for foolproof re-

sults, and three stages to sharpen and hone, it creates a "Gothic Arch" shaped edge that is stronger and more durable than conventional edge structures. Stages 1 and 2 sharpen with 100% diamond abrasives and Stage 3 strops and polishes for an incredibly sharp, longer lasting edge.

Model 125 Knife Sharpener \$299.00

CUTLERY KNIFE SHARPENER—COMMERCIAL MODEL 2100



3-Stage Professional Diamond Hone Knife Sharpener-incredible sharp knives...all day, every day!

This new, revolutionary 3-Stage commercial electric knife sharpener is the most advanced on the market, producing in just seconds the patented triple bevel Trizor-Plus™ edge on all commercial kitchen knives, as well as Asian style, fillet, butcher knives and sport knives. The Model 2100 is designed to sharpen both straight -edge and serrated knives. Stages 1 and 2 use 100% diamond abrasive disks and Stage 3 uses

ultra-fine, proprietary stropping disks to create razor sharp, arch-shaped edges that stay sharp longer. The rugged metal casing houses a powerful, high-speed motor to provide astonishing, sharp edges in seconds. Precision angle guides eliminate all guesswork and the detachable 20 degree sharpening module is commercial dishwasher safe and replaceable. Easy to use, effective and safe, the M2100 is the perfect replacement for an outside sharpening service. Recommended for larger commercial kitchens. 15 degree sharpening module is available.

Model 2100 Knife Sharpener \$599.00



MODEL 2100—15° MODULE

Sharpening Module for Commercial Diamond Hone® #2100 for Asian Style and other 15° Edge Knives:

Slides off easily for cleaning (15° class). May be purchased separately. \$160.00



2 X 42 INCH BELT SANDER WITH 8 INCH DISC

Belt Speed 3100 RPM, Disc Speed 3450 RPM, Disc Table Size 7 1/2 x 10 3/4 Inches, Motor 3/4 HP, 120/240 Volts, Tilt Angle 45 Degrees, Overall Length 19 Inches, Overall Height 20 Inches, Overall Width 23 Inches. Includes instructions on how to modify the platen to make it easier to sharpen tools.

Retail \$695.00

Sale Price \$595.00



AV-41 ICE AUGER BLADE SHARPENER

Precision sharpen convex Mora ice auger blades, also Jiffy and Eskimo right and left hand blades. This machine will also sharpen the Stikemaster Lazer blades. Designed so it is very easy to set up and operate. Weighs 65 lbs. and takes bench space of only $15" \times 15"$.

Price includes both tool fixtures, 2 grinding wheels, machine light, written instructions, training DVD and customer service. \$1,695.00



ANNULAR CUTTER SHARPENER

Sharpen high speed steel and carbide annular cutters in the simplest possible manner. The robust construction & specific design enable easy operation to sharpen annular cutters with maximum precision. Laser alignment for fast precise setup. Optional diamond plated grinding wheel is available. Machine includes: 4 dividing discs, laser pen, one CBN plated grinding wheel, written instructions, training DVD, and exceptional customer service.

\$3,495.00



AV-52 ROUTER BIT SHARPENING MACHINE

Sharpen all the different styles of router bits both steel and carbide tipped. The AV -52 router bit adaptor plate allows you to sharpen 2" straight flute bites. Router bit holder adjusts to any angle needed. Set up is fast & easy with this machine. Weighs 70 lbs and only takes bench space of 12" x 15". Price includes 2" aluminum oxide, 4" diamond wheels, machine light, written instructions, training DVD and customer service. \$1,595.00

Optional accessories: shaper cutter fixture 1/2" to 1", shaper cutter fixture 1-1/4"

AV-55 TABLE DRIVEN SAW POLISHER



Polish your customer's saw blades, up to 24" in diameter. Thorvie International's design makes this saw polisher superior to all others. When you turn the motor on, the table automatically rotates in the opposite direction of the polishing wheel, giving you an evenly polished blade that looks new! Other polishers require you to rotate the table by hand, causing uneven scuffmarks on the blade. Can be easily stored out of your way when not in use.

Up to 18" blades - \$695.00

Up to 24" blades - \$795.00

AV-49 KEY CUTTER BLADE SHARPENER

This machine allows you to sharpen key cutter blades which are used to cut duplicate keys. This is an excellent opportunity to add additional income to your sharpening business as the price you can charge to sharpen these cutters ranges from \$9.00 to \$27.00 for steel, and up to \$75.00 for carbide cutters. This machine only takes up bench space of 13" by 15". It comes complete with a 2" Borzon grinding wheel, training DVD, written instructions with thorough diagrams, machine light and customer service. \$2,395.00



AV-56 STUMP GRINDER BIT SHARPENER



The newest opportunity from Thorvie. This machine will sharpen - both top and face grind - the bits from all the popular stump grinding machines*. This grinder has a specially made hollow face 40 grit diamond plated wheel that will grind hundreds of bits before it will need replating. Until now most Stump Grinders have been throwing away dull bits and replacing them with new. Now with the AV-56 you can sharpen bits many times for much less than the cost of new, saving the Grinder money and profiting yourself! Includes: training DVD, instructions, customer service, standard tool fixture and grinding wheel.

*Optional wheels and fixtures available for the Green Tooth and the Yellow Jacket bits. \$1895.00

COMBINATION 2 MACHINES IN ONE AV-54 AUTOMATIC 24" JOINTER, PLANER & CHIPPER KNIFE GRINDER



With this automatic unit you can sharpen both chipper knives and carbide & steel Jointer & Planer knives up to 24" long. This grinder will either hollow grind or flat grind knives. All you do is loosen a 3/8" bolt and swing the Knife Holder assembly straight for flat grinding. You can adjust the length of travel for any length of knife, from 3" to 24". Use a dish or straight wheel. This unit is compact and saves a lot of time, as you can be doing other sharpening of tools while the knife is being ground. Includes training DVD, instructions, 110 volt motor, grinding wheel and customer service.

You can purchase the AV-54 Automatic according to the knives you want to sharpen. For sharpening only jointer & planer knives the cost is \$3,795.00 and if you want to also do chipper knives the cost is \$3,995.00.

SHARPEN END MILLS QUICKLY... WITHOUT INTENSIVE TRAINING



E-series end mill sharpeners are made in the Darex tradition - accurate, yet simple. One quick set-up allows you to sharpen both the primary and secondary angles of the flutes and end. The unique stylus mechanism automatically generates the proper clearance on any size end mill.

E90 END MILL SHARPENER INCLUDES:

- -1/4 HP balanced 115v motor (3450 RPM)
- -Long-lasting resin bonded CBN grinding wheel
- -Six 5C collets (3/16" to 1")
- -Air bearing spindle
- -Reversible motor

\$3,550.00

XT3000 Expandable Drill Bit & Tool Sharpener

The XT3000 is an expandable tool sharpener that grows with your needs. The basic unit, priced affordably, sharpens standard and point split drills at any angle from 118 to 150 degrees. The XT3000 allows you to control each drill's point configuration including the relief and design of the split point. All adjustments and attachment changes are



done without tools. It sharpens drills sized from 3mm (.118", 1/8 inch) to 21mm (.826", 13/16 inch). The solid metal design features steel and brass components in all critical places. Roller bearings are used where wear might occur.

This sharpener is available with a choice of CBN (for HSS and cobalt tools) or diamond wheels (for carbide tools). These super-abrasive wheels are no-maintenance --they never need dressing. The XT3000 includes two adjustable rustproof stainless steel chucks that hold the entire range of drills. All components are solidly constructed assuring consistent performance for years.

This sharpener is precise. The XT3000 meets or exceeds National Aerospace Standards for lip height variation. The powerful Emerson motor is a $\frac{1}{4}$ hp - 3450 rpm and is rated for continuous duty. This sharpener is more than 90% enclosed and includes a vacuum port that you can connect to your vacuum system, assuring you of a clean operation.

Optional attachments sharpen other cutting tools including step drills, brad points, larger drills, Weldon and single flute countersinks.

Features

2 wheels in machine - a sharpening wheel and a point split wheel. CBN or diamond wheels available.. No tools necessary for any adjustments on machine or attachments Vacuum port and grit tray EZ adjustable split depth and split angle Adjustable point splitting Adjustable point relief \$3,650.00

Large Drill Bit Attachment (13/16" to 1-3/16") \$750.00

V390 DRILL BIT SHARPENER

The V390 is a low priced industrial-grade sharpener capable of re-sharpening standard drills into high-performance, self-centering, split-point drills in less than one minute.

V390 DRILL SHARPENER INCLUDES:

- -Chuck capacity: 1/8 to 3/4 inch
- -Point splitter
- -Balanced 115v motor
- -CBN electroplated grinding wheel
- -Point angles from 118° to 140



V390 \$1,550.00 V390 Cover \$49.00

JOLLY STAR CHAINSAW SHARPENER



Today, strong from the experience and reliability it has always demonstrated in 30 years of activity in the chain saw accessory market, We proud to present the evolution of the electric sharpener, JOLLY STAR.

This machine combines all the strength of the previous versions that have supported professionals in their work across the globe, offering innovative solutions created by our own technicians.

JOLLY STAR is a safe, versatile and time-saving sharpener that doesn't compromise on perfect sharpening. JOLLY STAR includes many new details: double torsion

spring, self-centering clamp, working axis geometry, safety buttons, sharpening angle regulation...Professional chain grinder for fast, accurate chain sharpening. Suitable for all chain pitches and types. Sharpens 3/4" pitch chain without any attachment. Up to 10° tilting vise for proper sharpening of chisel chains.

Complete with built-in lamp for improved visibility.

Price \$499.00

JOLLY PROFESSIONAL CHAIN SAW GRINDER



Features include: an offset 10 degree tilting vise for correct corner (or leading edge) angles on chisel cutters, a cutting length adjuster, easy-to-read vise and head angle scales and a chain-centering feature that ensures both left and right cutters are ground to equal lengths and angles. With the added feature of a hydraulic chain clamp vise, this automatically locks the chain when the grinding head is lowered and can reduce sharpening time by as much as 50%!

Retail \$599.00 Sale Price \$530.00

MIDI JOLLY TL190 CHAIN GRINDER



Small grinder for saw chain sharpening, **ideal for chain** saw owners and small sharpening shops. The "mini Jolly" provides efficient and accurate sharpening. Fine tune adjustments make sharpening chains easy with precision accuracy. Stop finger with chain vise lever lock makes it easy and fast to sharpen and advance the chain with no guessing. Chain vise adjusts to all chain designs and pitches. Comes with 3/16" wheel for 3/8" and .404 chain, a dressing brick, wheel gauge and wrench. Motor 115 volts, 3400 R.P.M. Price \$349.00 Optional 1/8" and 1/4" wheels available.

Thorvie International LLC...your full-service partner in the saw and tool sharpening business

When purchasing a Thorvie[™] AV-40 DELUXE grinder package, we supply you with <u>all the information needed</u> to help you get started, including

- sales techniques on how to approach and get customers;
- where you can purchase supplies;
- helpful information on the proper grinding wheels to use and tips on sharpening tooling and saw blades;
- complete written instructions and training videos;
- a sample price list with recommendations on what to charge for the sharpening of tools; and
- names of companies for which you can be a distributor of new tooling such as saw blades, shaper cutters, router bits etc.*

*Knowing they can buy their new tooling directly from you is something your customers will appreciate, plus you can earn 50% to 100% profit in selling new cutting tools to your customers!











1315 Pearl St. - Waukesha, WI 53186 E-mail:sales@thorvie.com

Phone: 866-497-0572 Web:www.thorvie.com









