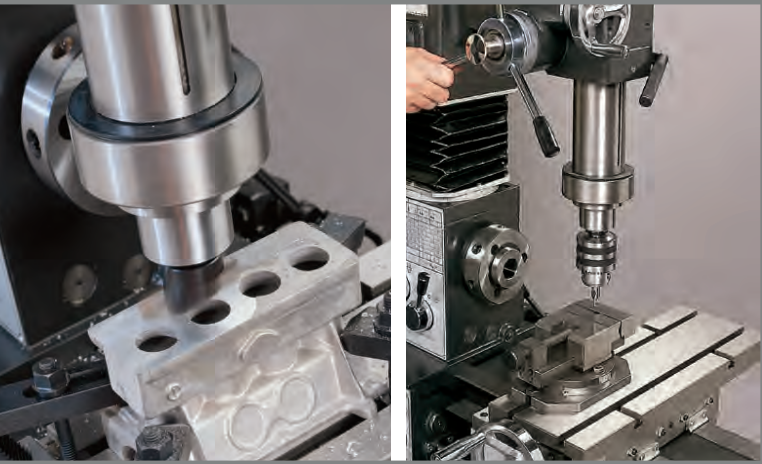
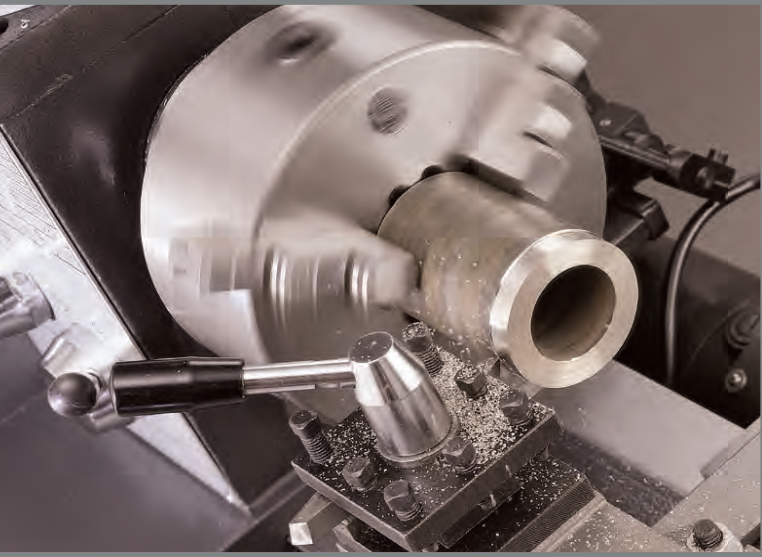


Smithy • Combo 3-in-1 Lathe • Mill • Drill

A COMPLETE Machine Shop For Your Benchtop!



**Americas's #1 premium
bench top machine tool -
for over 25 years.**

Top-End Machines • Premium Lineup • Find the right Smithy for you!

**Smithy 3-in-1 Combo Machine Tools give you
A COMPLETE MACHINE SHOP ON YOUR BENCHTOP!**

Dear Machining Friend,

THANK YOU for asking about Smithy's 3-in-1 line of Lathe-Mill-Drill machines! You're about to learn why Smithy is America's Uniquely Different & Better Machining Solution!

The Smithy 3-in-1 Combo tools combine all 3 fundamental machining operations in one compact chassis. It's literally three machines in one - a lathe, mill, and drilling machine.

Your Smithy will Pay for Itself - Guaranteed - because you'll SAVE money & time, and MAKE money, too.

Now you can make and repair parts yourself - in your own shop! No more waiting or paying a big bill to a machine shop. Real stories from Smithy customers are spread throughout this catalog showing how they make money with their Smithy machines, and you can too! Some folks have even paid for their Smithy with their first job!

Smithy Tools are known for Highest Quality and Premium Features Only Found on Industrial-Grade Tools

Smithy machines are "Tools for a Lifetime". Smithy equipment is A#1 quality because we designed and built them from the ground up to be that way. These tools are **DESIGNED TO LIGHT INDUSTRIAL STANDARDS FOR TOLERANCE AND PRECISION!**

Backed by TECHNICAL & CUSTOMER SERVICE, Smithy is here for you before AND after the sale

Thanks again for considering our Smithy products.



Joe Christensen, President

Guess What - Machining is *EASY!*

ALL MACHINING is based on 3 simple operations

1. LATHE TURNING



LATHE turns horizontally.

Use the Smithy's LATHE to cut and shape round or cylindrical pieces from materials as hard as high-carbon steel or as soft as wood. Make finish cuts and cut threads. Turn cones, rods, shafts, pins, bolts, more. Do straight and tapered turning, facing, knurling, cutting off, drilling, boring, reaming, and more.

2. MILLING

With the Smithy's MILL, you'll cut and smooth flat surfaces, slots, and angles. Use the micro-feed to create mirror-smooth surfaces. Cut shoulders, grooves, key-ways, slots, dovetails, gear teeth, and more.



MILL turns vertically.



DRILL moves up & down.

3. DRILLING

Use the Smithy's DRILL PRESS to drill, ream, and bore. It has all the capabilities of a standard drill press. Drill and mill interchangeably on the same project without resetting your work. Create precision holes up to 1.5" diameter. Counterbore, countersink, tap, hone, lap, and more.

A MACHINE SHOP ON YOUR BENCH TOP

ALL OTHER PROCESSES are variations of turning, milling, and drilling

CUTTING & CHASING THREADS

Machinists cut threads for threaded rods, bolts, and other workpieces frequently. You can create a number of different screw pitches - inch or metric pitches, right- and left-handed threads. Your Smithy can do it all!

LATHE FACING

Shape the face of a disk by cutting across the workpiece in the lathe chuck. Or, cut an angle by adjusting the toolpost's angle. It's an easy way to cut shoulders, resurface flywheels or disk brakes, and more.

LATHE BORING

Need to bore a large hole for a small engine cylinder, hydraulic cylinder, or rifle chamber? Use a boring bar mounted in the toolpost to get the job done quickly and accurately.

HORIZONTAL DRILLING

Mount a drill chuck into the lathe's tailstock: now it's a horizontal drill press. The headstock turns your project as you turn the tailstock handwheel, feeding the drill bit into your work.

TURNING BETWEEN CENTERS

Folks ask us all the time, "Can I turn between centers with a Smithy?" The answer is YES. Even though it takes a little longer for the initial setup, you're paid back with increased accuracy and ease.

The 3-in-1 Lathe-Mill-Drill

MILL shapes the faces of your work.

LATHE turns cylinders horizontally.

DRILL cuts holes with precise control over size, spacing, and depth.

Smithy 3-in-1 machines give you ESSENTIAL FUNCTIONS in one quality machine!

All ten Smithy Granite machines are 3-in-1 Lathe-Mill-Drills. Using these three functions, you can perform virtually every machining operation ever devised. Which one's right for you? See pages 16 and 17 to help you decide.

Everything you need to know about X, Y, & Z axes:

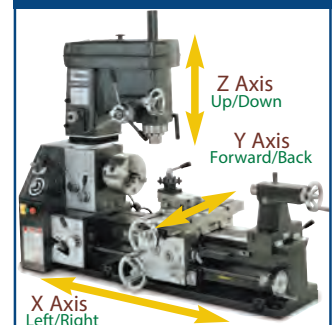
X Axis is the left/right plane: travel up and down the length of the Smithy's bed.

Y Axis is the forward/back plane: travel toward or away from the operator.

Z Axis is the vertical plane: move closer to and away from the mounting surface.

The Smithy's manual and automatic feeds control the travel of tools and workpieces along all three axes with precision up to $\pm 0.0005"$ (Granite) or $\pm 0.001"$ (Midas). When you control all three axes - left/right, forward/back, up/down - you control all three dimensions of the workpiece and the cuts made to it.

You can control the action in all 3 dimensions



SMITHY'S Features GUARANTEE Your Machining Success

1. Adjustable Height Millhead

allows you to raise and lower the millhead to accommodate larger or smaller work pieces and set-ups.

2. Main Power Control

is conveniently located. It has a forward/reverse toggle and push button on/off switch.



12. Variable Speed Drive -

with infinitely variable speeds. Adjustment is quick and easy, like turning up the volume on a radio. Increases operation efficiency and safety.

3. Quick Change Gear Box

allows you to change both the feed-rate and thread pitch quickly and easily.

4. Rack and Pinion

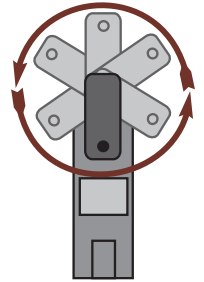
allows the user to quickly and easily position the machine's carriage.

11. Extended Millhead

supports larger workpieces for more efficient milling operations. Standard on Granite MAX and I-MAX models.

10. Rotating Millhead

on all Granite machines can rotate a full 360 degrees to give you more room when you are using your lathe. (Note: Millhead on MI-1220 LTD rotates 180 degrees.)



5. Half Nut & Threading Dial

engages travel along the X-axis for single-point threading. The combination of the half nut and threading dial allows you to cut threads like a master machinist.

6. Powerfeed Engagement

engages the X (longitudinal) or Y (lateral/cross) axis powerfeed for smooth finishes. (Note: MI-1220 XL only has powerfeed on the X-axis.)

9. Drill Press/Fine Feed Selector

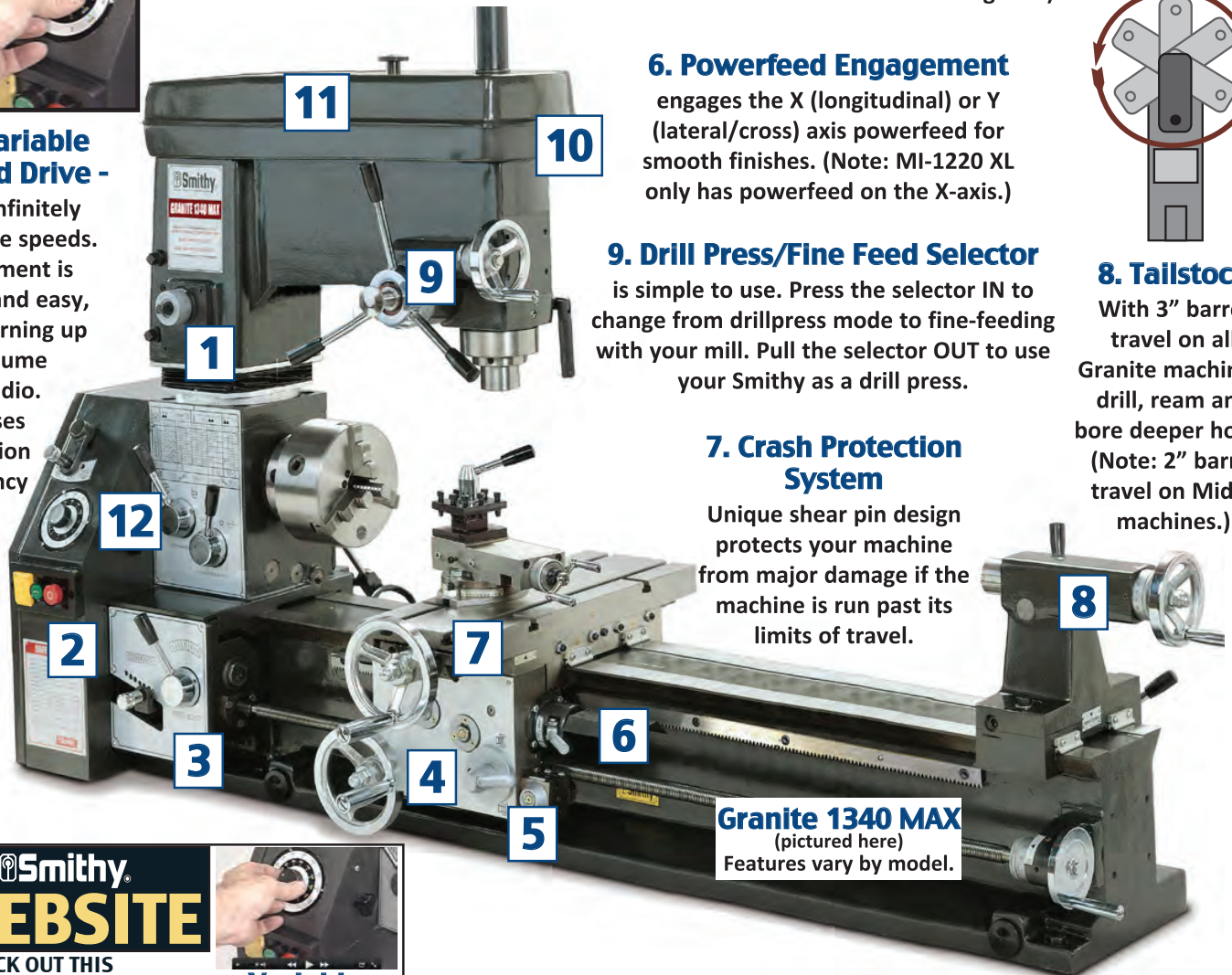
is simple to use. Press the selector IN to change from drillpress mode to fine-feeding with your mill. Pull the selector OUT to use your Smithy as a drill press.

8. Tailstock

With 3" barrel travel on all Granite machines, drill, ream and bore deeper holes. (Note: 2" barrel travel on Midas machines.)

7. Crash Protection System

Unique shear pin design protects your machine from major damage if the machine is run past its limits of travel.



Granite 1340 MAX
(pictured here)
Features vary by model.

Smithy
WEBSITE
CHECK OUT THIS VIDEO, and others, ON OUR WEBSITE!

Variable Speed Drive

SMITHY BUILDS 'EM BEST

Smithy leads the light industrial class.

Full-size industrial machining equipment is too big for home and light industrial shops, and hobby equipment is too small for serious use. Smithy machines fit the needs of small shop owners.

The Smithy is a compact, light industrial machine - the right size and price for home and business. You get the broadest choice of features and models, with top value; plus more features, higher precision, and better quality than any other brand.

Prove it to yourself - RISK FREE.

Seeing (and trying) is believing. Pick up your Smithy and try it yourself, right in your own shop. Put it to the test - really work it for a full month. If you're not 100 percent satisfied, return it and we'll refund your full purchase price. We couldn't make this offer if we received back many returns!

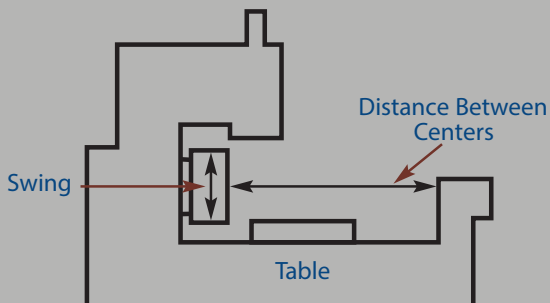
Time-tested design - easiest to use.

In over 25 years in the machining equipment business, we've constantly refined and enhanced the design, features, and operating ease of our machines. Today's Smithy is well known as the best-quality, best-selling, easiest-to-use equipment in its class.

You can choose from **12** Smithy 3-in-1 models. Specific features vary to suit the end use of each machine, but every Smithy has top-value design in common: each one is the best in its class, with time-tested, heavy-duty, well-conceived, and well-built features.

Decoding Smithy Model Numbers

Smithy model numbers tell you the swing (diameter the machine can cut) and the distance between centers. For example, the Smithy Granite 1340 MX on the opposite page has a 13" swing and 40" between centers.



We strictly control quality.

The Smithy is the result of a long and careful engineering, review, and enhancement process. We partner with ISO 9001-accredited factories and control the design, engineering, manufacturing, and quality with a Smithy inspector on the factory floors.

BEWARE of buying machines from discount catalogs.

A discount catalog is no place to buy something as PRECISE as machining equipment needs to be. Salvage machines sell at low prices because the quality is poor. They buy low-quality machines "off-the-shelf" and switch suppliers when they find a lower price. Accessories are limited or unavailable - and so is product knowledge.

SMITHY BUILDS 'EM BEST!



WHO uses Smithy machining equipment?

HOMEOWNERS Fix ANYTHING around your home, yard, garage, including cars, appliances, toys, plumbing, more. Ron put obsolete windows in working order.

"I made the small plastic parts I needed to repair my vintage aluminum windows with my Smithy."

Ronald B., OH



GUNSMITHS Machine nearly everything on a rifle, shotgun, pistol, or revolver with a Smithy. Mill sights, jewel a rifle bolt, taper, chamber a barrel, and even more. Bob wants only the best.

"I require the best equipment to make the best guns. The Smithy does that for me."

Bob M., MT



MODEL MAKERS Build motor mounts, drivetrain parts, custom wheels, and deck fittings. Go all out and replace plastic parts with metal.

James finds building trains easy & fun.

"I build model trains. I use my Midas to work on axles and that sort of thing. It's easy and fun to use."

James F., CO



RACERS Make or repair parts for racing cars, motorcycles, boats, and more. Ask the winner at your next race: he probably owns a Smithy!

Ace says his Smithy is great for go-karts.

"I've used the Midas 1220 for several years to fine-tune my go-karts."

John "Ace" L., NJ



WOODWORKERS The Smithy works wood, too! Turn round or square wooden workpieces with less chatter and vibration than light, ordinary wood lathes.

Jim made 28 bowls on his Smithy.

"I am very satisfied and recommend the Smithy to anyone. I've made 28 bowls of various sizes and materials: walnut, pecan, cherry, ash, oak, more."

Jim D., OK



ALL KINDS OF INVENTIVE PEOPLE!

Smithy owners are clever, motivated, and downright ingenious. Owners are making underwater diving apparatus, fishing reels, telescopes, and much more!

HERE'S WHAT HAPPENS when a clever man gets a Smithy!

HE TURNED A HOBBY INTO A CREATIVE & REWARDING BUSINESS

His Smithy Paid for Itself in the First Year

"What started out as a hobby for me has turned into a business. I started 'souping up' fishing reels for long casting competitions and when others saw how far they could cast, they started buying them. I didn't expect it to turn into a business, but now I sell custom reels all over the world."



Since I was a young boy, I have been fascinated by the machine shop. I started racing for Suzuki of Hawaii several years ago and watching others modify my Vale bike rekindled my interest in machine work. I knew I could do it myself with the right tools. I bought a Smithy Granite 1324 and did it myself. And that was just the beginning.

Precision Casting Over 200 Yards

I used my Smithy to modify fishing reels, then I decided to make my own reels from scratch, which has evolved into my own business, "Island Rocket Reels." While learning how to customize my own fishing equipment, I developed knowledge of the components plus gained experience and expertise on everything from installing my own magnets to custom building an entire reel.

In long casting competitions, both distance and speed are essential. My reels go from 0 to 4,000 RPM in seconds and cast over 200 yards.

I make all the parts on my Smithy. The spool is aluminum to keep the weight low and the reels and ratchets are titanium. I was using stainless but, for my application, stainless is too heavy. I need to keep everything as light as possible and I need to hold close tolerance to get long distance.

GUARANTEED TO PAY ITS OWN WAY

Smithy OWNERS

Brock F. lives in Hawaii with his wife. He enjoys

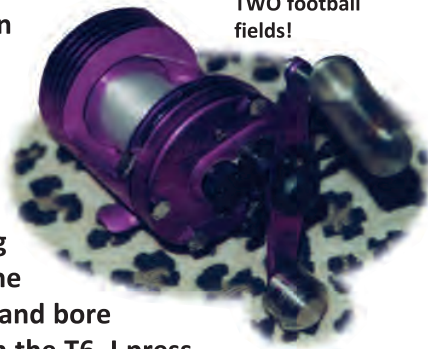


fishing, diving, and machining. For a full view of his remarkable talents and products, visit his website at: <http://www.rocketreels.com>

Tricks of the Trade

For my ultralight reels, I start with a solid 3" piece of T6 aluminum bar and 1/2" and 3/4" titanium bars. I turn the 1/2" titanium bar first for the spindle. I thread and mount it on the Smithy table to mill small driving flats. Next, I turn the 3" T6 at both ends and bore a 3/8" hole through the T6. I press and epoxy the spindle to the T6. This assembly is then mounted on a special driving tool I made on the Smithy. The spool is mounted on the rotary table and the side holes are drilled to lighten the spool even more. I then turn down the 3/4" titanium bar to size and thread it with another tool I made for the rotary table. I mount it and make the ratchet. Then a friend does anodizing for me.

Brock's completed custom reels cast over 200 yards --- that's TWO football fields!



Built His Business with a Smithy

I have made many of my own tools. My Granite makes my work easy and lot more fun. The Smithy helped build my business; in fact it paid for itself the first year I bought it. The machine gave me the precision I needed to build the reels, which helped me establish a reputable business based on quality

Custom-anodizing gives professional color and class.



products. My business has grown to the point where I am looking at opening a full-blown machine shop."

Brock F., HI
Granite 1324
Owner

DON'T FALL FOR INFERIOR, "LOOK-ALIKE" MACHINES!

This machine LOOKS like a genuine Smithy but it's merely a discount catalog knock-off. It boasts a big 17" swing, but its headstock and chuck are too small. The short bed doesn't provide enough mass for damping so it vibrates. The undersized bearings wear out too quickly. The chuck is too small for large work and it may be IMPOSSIBLE to find larger ones that fit. Components are low quality:



This is NOT a Smithy!

leadscrew threads are coarse; castings and finish are rough; electrical design is incomplete.

The high, drill quill makes accuracy milling difficult. High quill requires a high toolpost placement. High toolpost and vibration-prone construction deflect (bend) which seriously diminishes accuracy.



NEW Smithy built SUPER-SIZED part

Original inferior part

Super-Sized Upgrades

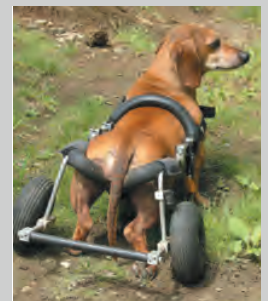
"The picture is an alignment-adjustment part from an industrial machine used everyday of the work week. When I found out that the operator actually had to remove the part from the machine to run material larger than it's original design through the machine. I came up with a super-sized version. I also made a couple of other upgrades from it's original design." Jay P., MD

All for the love of a dog.

He's helping animals and built a great business.

When Eddie and Leslie G's canine companion, Buddah, became incapacitated, Ed knew what to do. "I'll make a dog cart." He got a Midas 1220 XL and did just that. Buddah not only enjoyed the cart, she became able to walk again. This home experiment grew into "Eddie's Wheels," a strong business with worldwide sales.

Ed's carts are custom-designed, fitted, and machined to fit the special needs of each dog. Carts have light-weight, welded aluminum frames, stainless steel hardware, and molded closed-cell foam padding. Thanks to Smithy, the business is going to the dogs, but Ed and Leslie wouldn't have it any other way.



GRANITE 1324 MAX

Get Every Granite Classic Advantage PLUS a Long-Millhead & 30% MORE Horsepower!

Why choose the 3-in-1 Granite 1324 MAX?

Our Granite 1324 Max has all the features of our 1324 Classic but taken “to the Max” with a 30% more milling capacity and 30% more horsepower. You get every single feature that established Smithy Granite as THE 3-in-1 machine tool including CNC-readiness, dual power feed, and electronic variable speed.

KEY FEATURE SUMMARY

Because it's a Smithy GRANITE MAX, you get:

- 30% More Milling Capacity
- 30% More Horsepower
- 3-in-1 Lathe-Mill-Drill
- DRO-Ready
- Dual Powerfeed
- Industry-Standard Tooling

Because it's the 1324 MAX, you get:

- Compact Top-End Features
- Quick Change Gear Box
- Threading Dial
- Variable Speed 2 HP BLDC Motor
- X & Y Powerfeed (Lathe & Mill)
- Cuts right-hand, left-hand, metric & inch threads
- Industrial Standard Tapers

30% MORE MILLING CAPACITY

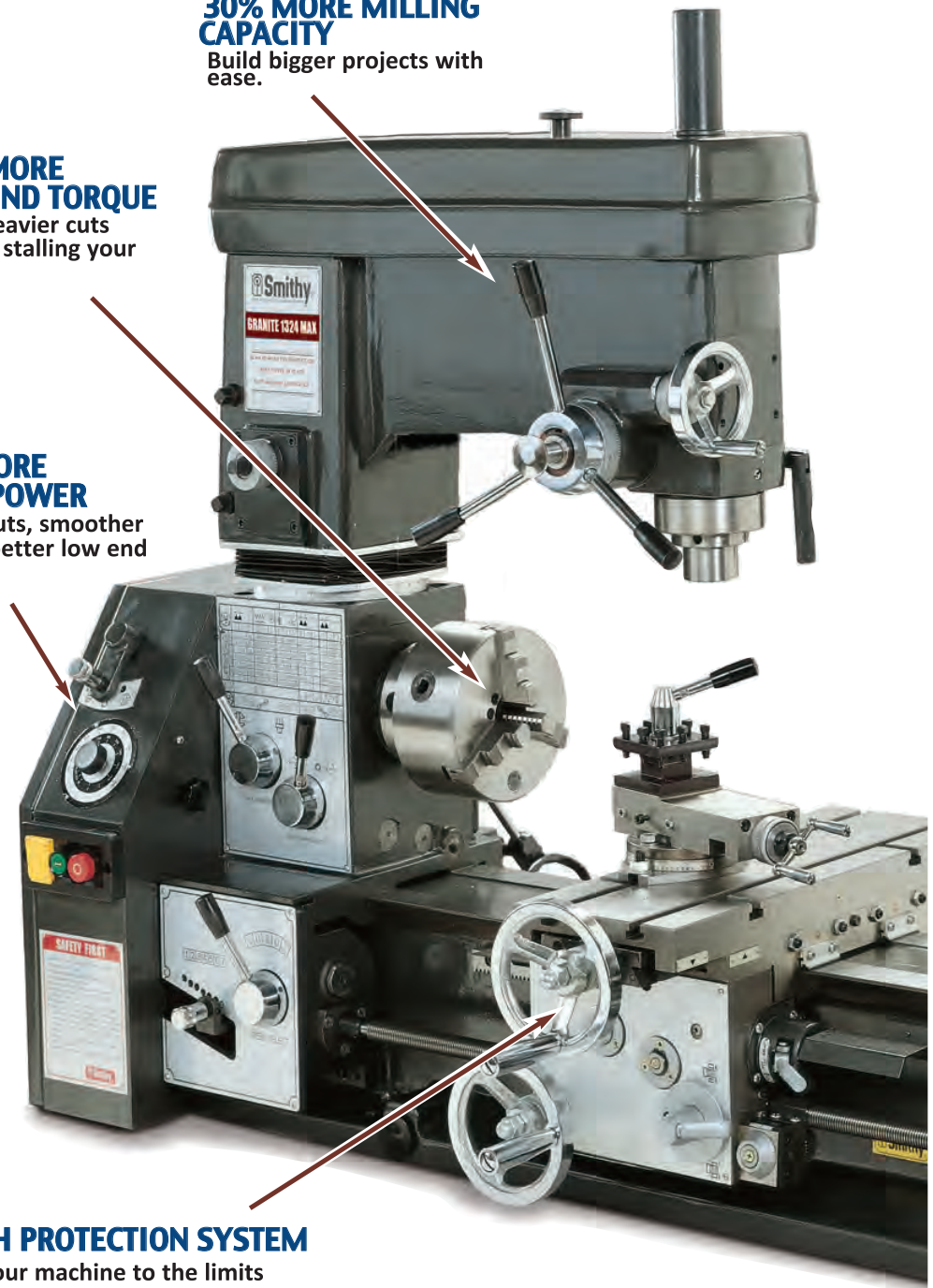
Build bigger projects with ease.

40% MORE LOW-END TORQUE

Make heavier cuts without stalling your motor.

30% MORE HORSEPOWER

Heavier cuts, smoother finishes, better low end torque.



CRASH PROTECTION SYSTEM

Push your machine to the limits without major damage.

PERFECT STAND
for this machine:
See page 28



GRANITE 1324 MAX

MORE STANDARD FEATURES:

- Positive Millhead Lock
- Crash Protection System
- Overload Protection
- Easy Mount DRO & CNC Systems
- Extended Tailstock Travel

PLUS...

- **30% MORE Milling Capacity**
- **30% MORE Horsepower**
- **40% Low-End Torque**
- **R-8 Taper in Mill Head** – uses standard Bridgeport tooling: low cost, high quality.



- **Electronic Variable Speeds** – infinitely variable speed adjustment is quick and easy – just like turning up the volume on a radio. Usually a \$600 feature - FREE!
- **ISO 9001 Certified** – international standard for quality production.
- **Timken-Grade Bearings** – provide maintenance-free, virtually friction-free rotation.
- **Transfer Power Clutch** – easy changeover from lathe to mill/drill.



- **Lathe Spindle TIR** - 0.00078"
- **Threading Dial & Half Nut** – cut and chase S.A.E. inch threads like a master machinist. Threads metric & inch, right & left-hand threads.
- **Rack & Pinion Feed on Carriage** – quickly position your cutting tools and zip your carriage back and forth to speed up your work.
- **Spindle Bore** – oversized and hollow spindle takes LARGE stock – up to 1.125" round – through the lathe headstock.
- **Adjustable-Height Mill Head** – standard, factory-engineered – not an expensive add-on – gives 50% larger milling capacity, puts tools at optimum working height.
- **ZHP Variable Speed Motor** – big power, high torque, with 110V convenience.



- **X & Y Axis POWER FEED** – feed either direction on the leadscrew and crossfeed screw on both lathe and mill. Yields finest finishes, highest quality work. STANDARD FACTORY ENGINEERED COMPONENTS, not a bulky, expensive retrofit.



- **CNC/DRO-Ready** – drilled and tapped for easy attachment of CNC or DRO mounts

Granite 1324 & 1340 MAX Specifications*

General Dimensions

Machines Dimensions (LxWxH)		Swing over bed	13"
1324	46" x 22-1/2" x 39"	Swing over work table	7-1/2"
1340	62" x 22-1/2" x 39"	Tailstock Setover	19/32"
Shipping Weight		Tailstock Taper	MT3
Granite 1324	794 lbs	Tailstock Barrel Travel	3"
Granite 1340	904 lbs	Threads-Inch	SAE 7-52 TPI
Machine Weight		Threads-Metric	0.35-6.5 mm
Granite 1324	683 lbs	Toolpost Travel	3-3/16"
Granite 1340	750 lbs	Tool Bit Size	1/2"
Crate Size		X-Axis Travel	(w/tailstock installed)
1324	49-1/2" x 22-3/4" x 44"	Granite 1324	20"
1340	64-1/2" x 22-3/4" x 44"	Granite 1340	35"
Floor Area Required		Y-Axis Travel	7-5/8"
Granite 1324	72" x 43"		
Granite 1340	85" x 43"		
T-Slot Size	7/16"		
Powerfeed (X-Axis)	Yes		
Powerfeed (Y-Axis)	Yes		
Powerfeed (Z-Axis)	No		
Table Size	6-3/4" x 17-3/4"		
Threading Dial	Yes		

Mill Specifications

Column Diameter	3-3/16"
Dial Calibration on Drill	
-Coarse Feed	0.05"
Dial Calibration on Drill	
-Fine Feed	0.001"
Drawbars Size (included)	7/16"
Drill Chuck Size (included)	
Mill/Drill	5/8"
Tailstock	1/2"

Lathe Specifications

Distance Between Centers		Drill Chuck Arbor Size	R8/JT3
Granite 1324	24"	Feed Rates	.003-.020" (X-Axis) .001-.006" (Y-Axis)
Granite 1340	40"	Head Rotation	360 Degrees
Dial Calibration		Head Travel	4-3/8"
on Crossfeed	0.001"	Quill Diameter	2-3/4"
Dial Calibration		Quill Travel	4-7/8"
on Toolpost	0.001"	Spindle Center to	
Dial Calibration		Front of Chuck	8-1/2"
on Leadscrew	0.001"	Spindle Center to	
Dial Calibration		Lathe Spindle Flange	11-1/4"
on Longfeed Rack	0.01"	Spindle Center to	
Dial Calibration		Support Column	13-3/8"
on Tailstock	0.001"	Spindle to Table Distance	
Feed Rates	.003-.020" (X-Axis) .001-.006" (Y-Axis)	(Min-Max)	4 to 13-3/8"
Headstock Taper	MT4	Spindle Speeds	
Lathe Chuck Bore	1.6"	Variable (Range 0-2800)	
Lathe Chuck Diameter	6"	Spindle Taper	R8
Lathe Chuck - Max.		Tool Size Limits	1"
Diameter Workpiece	6"	X-Axis Travel	13-3/8"
Lathe Chuck - Min.		Y-Axis Travel	7-5/8"
Diameter Workpiece	1/8"		
Lathe Chuck Mount			
D1-4 Camlock			
Lathe Chuck Type			
3-Jaw Self-Centering			
Spindle Accuracy TIR	0.00078"		
Spindle Bore	1.125"		
Spindle Speed			
Variable (Range 0-2800)			

Electrical

Amperage	16 amps
Horsepower	2 HP
Motor Type	BLDC
Phase	Single
Voltage	110 Volts A/C

*Specifications are subject to change.

GRANITE 1340 MAX

40" Between Centers PLUS Extended Millhead and 30% More Power!

Why choose the 3-in-1 Granite 1340 MAX?

Our Granite 1340 Max is MAXIMUM in every department! First, you get every single Granite feature. Then you get 40 inches between centers, 30% more milling capacity, and a heavy-duty motor with 30% more horsepower.



KEY FEATURE SUMMARY

Because it's a Smithy GRANITE MAX, you get:

- 3-in-1 Lathe-Mill-Drill
- DRO-Ready
- Dual Powerfeed
- Industry-Standard Tooling

Because it's the 1340 MAX, you get:

- Industrial Tooling
- Same Granite MAX 1324 features but big 40" between centers
- Quick Change Gear Box
- Threading Dial
- Variable Speed 2 HP BLDC Motor
- X & Y Powerfeed (Lathe & Mill)
- Cuts Right-Hand, Left-Hand, Metric & Inch Threads
- Industrial Standard Tapers

Smithy
WEBSITE

CHECK OUT THIS VIDEO, and others, ON OUR WEBSITE!

Granite 3-in-1 Video Showcase



Smithy
OWNERS

"There's not much you can't do with a Smithy."

"I bought a second Smithy because I already had one and I knew its reputation. I use it daily in my business building custom guns. I use the mill for machining frames, shaping, and contouring parts. The drill press is used for boring and reaming cylinders. It is a great quality machine at a great price which makes it a great value."
- Bob M., Co

GRANITE 1324 INDUSTRIAL MAX

Compact but Powerful 220-Volt Smithy

Why choose the 3-in-1 Granite 1324 I-MAX?

This top-of-the-line machine brings you top features of our Industrial MAX machine running 220-volt power. It runs like the 1340 I-MAX, but in a more compact size. It is fully equipped to run longer and cooler for the toughest projects, but just right for your space.



KEY FEATURE SUMMARY

Because it's a Smithy Granite Industrial MAX, you get:

- 220-Volt Power for Maximum Efficiency
- Expanded Premium Tool Pack
- Upgraded Headstock Bearings
- 3-in-1 Lathe-Mill-Drill
- DRO-Ready
- Dual Powerfeed
- Industry-Standard Tooling

Because it's the 1324 I-MAX, you get:

- Quick Change Gear Box
- Threading Dial
- Variable Speed 2 HP Motor
- X & Y Powerfeed (Lathe & Mill)
- Cuts Right-Hand, Left-Hand, Metric & Inch Threads
- Industrial Standard Tapers

**220
VOLTS**

Smithy
VIDEOS

Hear what Ken B. has to say about his Smithy Granite

<http://www.smithy.com/granite/video-photos>



GRANITE 1324 INDUSTRIAL MAX

3-in-1 GRANITE INDUSTRIAL MAX Series: THE BEST OF THE BEST

The Granite Industrial series is the perfect choice for the home-shop business, professional shops and the R & D lab that want to run the best at peak efficiency.

Our Industrial Max models run on 220-volt power for all day performance. Fully-equipped and with all the same specifications as our Granite 1324 MAX and Granite 1340 MAX, our Industrial Max models come with an upgraded tool pack including a quick change tool post, a 3" superlock milling vise and live center. With all these extras and 220-volt power, your shop will be running at top efficiency and performance.

4 PERFORMANCE REASONS 220V is best for serious shops & equipment!

- 110V motors draw power from one "hot" wire. 220-volt motors draw power from two "hot" wires, each supplying 110-volt. That spreads the power load between two lines and keeps the electrical flow balanced.
- 220V draws less current – and less current means less heat. Your motor stays cooler and lasts longer.
- Drawing less current also helps eliminate overtaxing your electrical system. For example, if your lights dim when you turn on the machine, you're asking it to provide more electricity than it is able to.
- 220-volt causes less "voltage drop" or reduction in the flow of electricity. Keeping voltage constant helps your motor run smoother and last longer.

Advanced Features:

You get all of the same features as the popular Granite 1340 MAX and a whole lot MORE! The Industrial series shares the same specifications as our top-of-the-line Granite MAX series but has 220V power that only draws 8 amps.

- 220-Volt POWER** - Our I-MAX series machines use 220-volt motors for maximum efficiency and service life.
- Quick Change Toolpost** - Let's face it: time is money. The Quick Change Toolpost is a big time saver because it's the fastest, most convenient way to change tools.
- Bearing Upgrade** - Businesses usually demand more from their equipment and work it harder than the home machinist. Better bearings provide longer life, thus, more operating hours.
- Chuck Shield** - The chuck shield is a necessity in the business environment to keep you or your machinists safe from flying chips.
- Upgraded Tool Pack** - Our upgraded tool pack includes some of our standard tooling but upgraded for more efficient operations. Our 3"

milling vise replaces the 90-degree angle vise for additional capacity and our quick change tool post replaces the standard turret style for convenient tool set-up. We also include a MT3 live center.

- Industry-Leading Consumer Protection** - Like all Smithy machines, our I-MAX series machines come with a 2-year warranty, a 30-Day Money Back Guarantee, and our guarantee that your Smithy will pay for itself. In fact, a business environment is the ultimate place to make your Smithy pay for itself fast.

More Power and Longer Service Life.

Our new 220-volt Granite I-MAX Series runs on half the amperage of 110-volt units. Amps produce heat; fewer amps means our I-MAX series machines run cooler than 110-volt machines.

Is a Granite I-MAX series right for you?

If you depend on machining for cash flow or think you might some day, or if you simply demand the very finest... the I-MAX series is for you.

Granite 1324 & 1340 I-MAX Specifications*

General Dimensions

Machine Dimensions (LxWxH)		Tailstock Taper	MT3
Granite 1324	46" x 22-1/2" x 39"	Tailstock Barrel Travel	3"
Granite 1340	62" x 22-1/2" x 39"	Threads-Inch	SAE 7-52 TPI
Shipping Weight		Threads-Metric	0.35-6.5 mm
Granite 1324	861 lbs	Toolpost Travel	3-3/16"
Granite 1340	928 lbs	Tool Bit Size	1/2"
Machine Weight		X-Axis Travel (w/tailstock installed)	
Granite 1324	683 lbs	Granite 1324	20"
Granite 1340	750 lbs	Granite 1340	35"
		Y-Axis Travel	7-5/8"

Crate Size (LxWxH)

1324	49-1/2" x 22-3/4" x 44"	Mill Specifications	Column Diameter	3-3/16"
1340	64-1/2" x 22-3/4" x 44"			

Footprint

Granite 1324	18" x 44"	Dial Calibration Drill	
Granite 1340	18" x 62"	- Coarse Feed	0.05"

Work Area Required

Granite 1324	29-1/2" x 76"	Dial Calibration on Dial Mill	
Granite 1340	29-1/2" x 86"	- Fine Feed	0.001"

T-Slot Size

	7/16"	Drawbars Size (included)	7/16"
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Powerfeed (X & Y Axis)

	Yes	Drill Chuck Size (included)	
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Powerfeed (Z-Axis)

	No	Mill/Drill	5/8"
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Table Size

	6-3/4" x 17-3/4"	Tailstock	1/2"
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Threading Dial

	Yes	Drill Chuck Arbor Size	R8/JT3
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Lathe Specifications

Distance Between Centers

Granite 1324	24"	Head Rotation	360 Degrees
Granite 1340	40"	Head Travel (Z-Axis)	4-3/8"

Dial Calibration on Crossfeed

	.001"	Quill Diameter	2-3/4"
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Dial Calibration on Toolpost

	.001"	Quill Travel	4-7/8"
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Dial Calibration on Leadscrew

	.001"	Spindle Center to	
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Dial Calibration on

Longfeed Rack	.01"	Front of Chuck	8-1/2"
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Dial Calibration on Tailstock

	.001"	Spindle Center to	
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Feed Rates

	.003-.020" (X-Axis)	Lathe Spindle Flange	11-1/4"
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Headstock Taper

	MT4	Spindle Center to	
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Lathe Chuck Bore

	1.6"	Support Column	13-3/8"
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Lathe Chuck Diameter

	6"	Spindle to Table Distance	(Min-Max) 4" to 13-3/8"
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Lathe Chuck

	6"	Spindle Speeds	
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Lathe Chuck

	1/8"	Variable (Range 0-2800)RPM	
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Lathe Chuck Mount

	D1-4 Camlock	Spindle Taper	R8
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Lathe Chuck Type

	3-Jaw Self-Centering	Tool Size Limits	1"
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Spindle Accuracy TIR

	0.00078"	X-Axis Travel	13-3/8"
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Spindle Bore

	1.125"	Y-Axis Travel	7-5/8"
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Spindle Speeds

	Variable (Range 0-2800)		
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Swing over bed

	13"		
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Swing over work table

	7-1/2"		
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Tailstock Setover

	19/32"		
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*Specifications are subject to change.

GRANITE 1340 INDUSTRIAL MAX

Run-All-Day 220 Volt Power Plus Extended Millhead!

**220
VOLTS**

**Our Best
Selling Granite!
PACKED With
Features!**

Why choose the 3-in-1 Granite 1340 I-MAX?

Smithy customers asked for 220-volt power and we deliver it with our new Industrial MAX Series. You get full Granite MAX quality, features, and performance plus 220 volts for longer run times and a cooler running motor.

KEY FEATURE SUMMARY

Because it's a Granite Industrial MAX, you get:

- 220-Volt Power for Maximum Efficiency
- Expanded Premium Tool Pack
- Upgraded Spindle Bearings
- 3-in-1 Lathe-Mill-Drill
- DRO-Ready
- Dual Powerfeed
- Industry-Standard Tooling

Because it's the 1340 Industrial MAX, you get:

- Quick Change Gear Box
- Threading Dial
- Variable Speed 2 HP Motor
- X & Y Powerfeed (Lathe & Mill)
- Cuts Right-Hand, Left-Hand, Metric & Inch Threads
- Industrial Standard Tapers



Smithy
VIDEOS

See Our YOUTUBE Videos!

We have over 30 videos posted on our YouTube channel - learn how to use a 3-in-1 Lathe-Mill-Drill and hear what other people have to say about the Granite 3-in-1!



MIDAS 1220 LTD: Our Best & Most Versatile Midas!

Why choose the Midas1220 LTD?

Our Midas 1220 LTD is our most versatile Midas machine with many features that are found on our Granite models, such as power crossfeed, and a threading dial.

The combination of top features, small size, and small price is especially appealing to machinists with smaller shops and those who want "the best" on a budget.

KEY FEATURE SUMMARY

Because it's a Smithy Midas, you get:

- 3-in-1 Lathe-Mill-Drill
- Smithy Quality at a Value Price
- Power Leadscrew

Because it's the 1220 LTD, you get:

- Cuts Left-Hand, Right-Hand, Inch, and Metric Threads
- X & Y Powerfeed (Lathe & Mill)
- Adjustable Millhead Height
- Inch Leadscrew, Two-Directional
- Large Table
- Half Nut for Faster & Easier Threading
- Threading Dial



- **Bi-Directional POWER FEED** – leadscrew & crossfeed screw on both lathe and mill - yield finest finishes, highest quality work.

- **Quick Changeover** - 12" mill clearance allows room for both lathe and mill setups without removing the lathe chuck.

- **Adjustable-Height Mill Head** – standard, factory-engineered - not an expensive add-on - gives 50% larger milling capacity, puts tools at optimum working height.

- **Dual Power Feeds** – Both the X & Y axis have powerfeeds for creating ultra-smooth fine finishes.

- **Two Separate Motors** – match the power to the job requirements: 3/4HP lathe motor, 3/4HP mill/drill motor.

- **Rack & Pinion Feed on Carriage** – quickly position your cutting tools and zip your carriage back and forth to speed your work.

Midas 1220 LTD Specifications*

General Dimensions

Length	42"
Width	20"
Height	34"
Shipping Weight	620 lbs
Machine Weight	507 lbs
Crate Size	44-3/4" x 22-3/4" x 38"
Footprint	18" x 32"
Work Area Requirement	36" x 62"
T-Slot Size	7/16"
Powerfeed (X-Axis)	Yes
Powerfeed (Y-Axis)	Yes
Powerfeed (Z-Axis)	No
Table Size	5-7/8" x 16-3/4"
Threading Dial	Yes

Lathe Specifications

Distance Between Centers	20"
Dial calibration on Crossfeed	.001"
Dial Calibration on Toolpost	.001"
Dial Calibration on Leadscrew	.001"
Dial Calibration on Longfeed Rack	.02"
Dial Calibration on Tailstock	.001"
Feed Rates	.0011-.020 (Y-axis) .0022-.040 (X-Axis)
Headstock Taper	MT4
Lathe Chuck Bore	1.17"
Lathe Chuck Diameter	5"

Lathe Chuck	
-Max. Diameter Workpiece	5"
Lathe Chuck	
-Min. Diameter Workpiece	1/8"
Lathe Chuck Mount	Bolt-On
Lathe Chuck Type	3-Jaw Self-Centering
Spindle Accuracy TIR	0.0016"
Spindle Bore	1.03"
Spindle Speeds	Six (160-1600 RPM)
Swing Over Bed	12"
Swing Over Work Table	6-3/4"
Tailstock Setover	19/32"
Tailstock Taper	MT3
Tailstock Barrel Travel	2"
Threads-Inch	SAE 6-120 TPI
Threads-Metric	0.5 to 4 mm
Toolpost Travel	3-1/4"
Tool Bit Size	1/2"
X-Axis Travel	15"
(w/tailstock installed)	
Y-Axis Travel	7-3/8"

Mill Specifications

Column Diameter	3-1/8"
Dial Calibration Drill	
-Coarse Feed	0.042"
Dial Calibration	
- Dial Mill Fine Feed	0.042"

Drawbars Size (included)	12 mm, 3/8"
Drill Chuck Size (included)	1/2"
Drill Chuck Arbor (included)	
	MT3/JT33
Feed Rates	N/A (Y-Axis) N/A (X-Axis)
Head Rotation	360 Degrees
Head Travel Z-Axis	3-1/4"
Quill Diameter	2-3/4"
Quill Travel	3-5/8"
Spindle Center to Front of Chuck	8-3/4"
Spindle Center to Lathe Flange	11"
Spindle Center to Column	12-1/8"
Spindle to Table Distance	6-1/4"-13"
Spindle Speeds	9 (315-2000 RPM)
Spindle Taper	MT3
Tool Size Limits	1"
X-Axis Travel	12-1/8"
Y-Axis Travel	8-1/2"

Electrical

Amperage	11 Amps
Horsepower	3/4HP
Motor Type	A/C
Phase	Single
Voltage	110 Volts A/C

*Specifications subject to change.

MACHINE IT YOURSELF - DO IT RIGHT AND SAVE RIGHT!

GUARANTEE: YOUR SMITHY WILL PAY FOR ITSELF!

How do you take the sting out of buying a machine that sets you back thousands of dollars? The price just got a whole lot easier for a lot of folks to justify when Smithy Industries put in writing what it has promised customers for years, "Any Smithy machine is fully capable of paying for itself." says Smithy President, Joe Christensen.

"Of course it depends on you," cautions Joe. "But if you're willing to put in the effort, the Smithy will earn you or save you its purchase price." Joe cites figures from actual customers who found they "saved hundreds of dollars once they stopped sending out machining" and "earned a lot more money when they started machining for others."

PROVE IT TO YOURSELF. "Seeing is believing, and trying is better yet. I invite you to 'test drive' the Smithy's MONEY-MAKING POWER in your shop for a full month with our 90-Day TRIAL OFFER." - Joe Christensen, President

Here's the Best News of All - Your Smithy Will Pay For Itself... GUARANTEED! PAYS FOR ITSELF 5 WAYS!

1 SAVE MONEY Machine parts in-

house: Your exact savings depend on your situation but here's a conservative example: Sending a piece out can easily cost \$76 (\$30 for a draft drawing, \$30 for machining, and \$16 for materials). Do it yourself and pay materials cost only: Same piece for \$16. Do it yourself 5 times and save \$300!

2 MAKE MONEY Machine for others:

Many individuals and businesses regard their Smithys as a profit center. Besides saving money by machining in-house, they MAKE good money by machining for others. You can easily see how profitable this can be: just think of how much you're currently paying someone else to do your machining.

3 ELIMINATE DOWN TIME

No more waiting for parts: Time is money, and waiting for parts is a costly waste of time. You waste time dealing with an outside shop,

waste time checking on jobs you've sent out, waste time keeping records, waste money shipping parts. The biggest waste: when a customer goes elsewhere because you take too long.

4 KEEP EQUIPMENT RUNNING

No more breakdowns: A mechanical breakdown can stop your business dead in its tracks. A production stoppage is costly - even disastrous - because getting parts is difficult or impossible. A Smithy and a good operator can make or repair parts on the spot and get your line running again.

5 EXPAND YOUR CAPABILITIES

Broaden earning potential: Giving someone who's mechanically inclined a Smithy is like handing a kid the keys to a candy store. Turn him loose and watch him create and increase his business. He'll gain even more than increased production and earnings.

 **Smithy**
OWNERS

You CAN do it.

If these people and thousands more can do it, you can too. Your natural curiosity and inventiveness - aided by a Smithy - will bring you a deep sense of achievement and satisfaction as you complete projects you've only dreamed about until now.

How will you SAVE & EARN MONEY with a Smithy?

- Make your own custom parts
- Repair automobiles
- Maintain machinery
- Invent things
- Maintain a fleet of vehicles
- Mill steel, bronze, etc.
- Reface/resurface a motorcycle head
- Build a car kit
- Restore antiques
- Develop new products
- Manufacture parts
- Maintain your home
- Repair brake rotors
- Build a steam engine
- Re-tool machinery
- Build kit boats, planes
- Build a telescope
- Do R/C modeling
- Turn metals, plastics
- Restore classic cars
- Teach a voc ed class
- Rebuild electric motors
- Fix clocks & time pieces
- Repair equipment
- ENDLESS uses on farms, ranches
- Recut pistons
- Thread bolts & screws
- And MUCH more

HOW LONG WILL IT TAKE for your Smithy to pay for itself?

The payback period depends on how you use your Smithy. If you're in business full-time, the savings and earnings will add up very quickly. If you're in a part-time business or avocation, you'll recoup your cost over a longer period. Here are points to consider when you estimate your payback time:

1. How often do you send work out to be machined?
2. How much do you pay for machining?
3. How long do you have to wait for parts to come back?
4. How much business do you LOSE while waiting for parts?
5. How much could you EARN by doing machining for others?
6. How much productive time do you lose waiting for repair parts you could repair yourself?
7. How often do you get stumped because you can't get parts?
8. How much would your profit increase if you slashed your manufacturing costs?
9. How many customers have you lost due to long delivery times?