

# 173 BEST HOMEMADE TOOLS



**HOMEMADETOOLS.NET**

# 173 Best Homemade Tools

## from HomemadeTools.net

This ebook contains the 173 best homemade tools from HomemadeTools.net, based on user voting.

Click on any homemade tool to see more photos, details, or videos of the homemade tool.

Want more homemade tools? Click the link below for our latest homemade tools.

**[Click here for more of the best tools  
from HomemadeTools.net](#)**

# Allen Wrench Handle

by: mklotz



Homemade Allen wrench handle constructed from round bar stock and plastic tubing. Gives L-shaped wrenches better handling and torque.

[Click here for more details on: Allen Wrench Handle](#)

# Dial Making Fixture

by: rossbotics



Homemade dial making fixture constructed from steel stock and bearings.

[\*\*Click here for more details on: Dial Making Fixture\*\*](#)

# Axle Stands

by: thehomeengineer

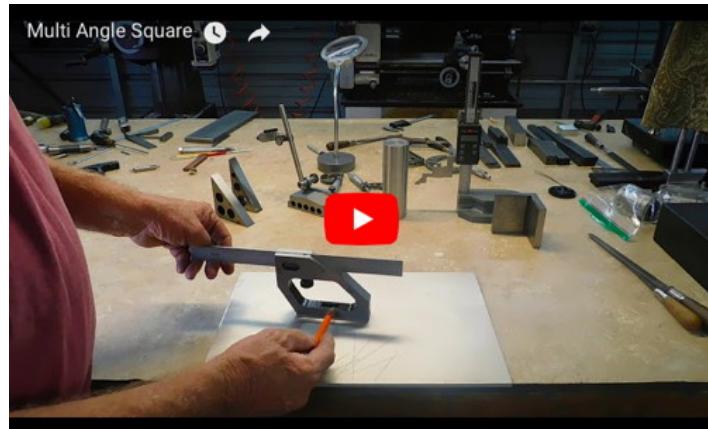


Homemade axle stands constructed from tubing and steel pins. Provides an extra measure of safety when lifting a vehicle.

[\*\*Click here for more details on: Axle Stands\*\*](#)

# Multi Angle Square

by: rossbotics



Homemade multi-angle square constructed from bar stock, cast iron, 1018 steel, and a bolt.

[Click here for more details on: Multi Angle Square](#)

# Tube Dent Repair Tool

by: stainless stål



Homemade tube dent repair tool constructed from threaded rod, wood blocks, bar stock, and a nut.

[Click here for more details on: Tube Dent Repair Tool](#)

# Milk Jug Hammer

by: mr95gst



Homemade milk jug hammer featuring a head molded from surplus HDPE. Mounted to a handle fashioned from shipping pallet wood.

[\*\*Click here for more details on: Milk Jug Hammer\*\*](#)

# Wire Binding Tool

by: brianhw



Homemade wire binding tool constructed from bar stock and a surplus bicycle wing nut.

[Click here for more details on: Wire Binding Tool](#)

# Square Hole Punch Press

by: bobs409



Homemade square hole punch press constructed from sockets and socket adaptors.

[\*\*Click here for more details on: Square Hole Punch Press\*\*](#)

# Bench Vise

by: Esak76



Homemade bench vise constructed from steel stock.

[Click here for more details on: Bench Vise](#)

# Lantern Chuck

by: Shelly142

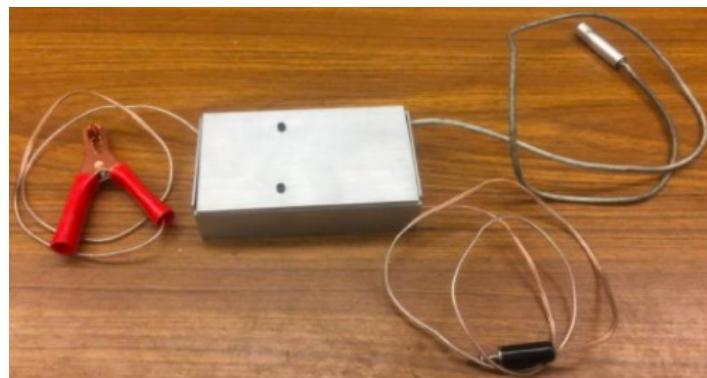


Homemade lantern chuck constructed from 1018 cold rolled steel and brass stock.

[Click here for more details on: Lantern Chuck](#)

# Electronic Edge Finder

by: rgsparber



Homemade software-defined edge finder constructed from ATTiny85 processor, capacitors, resistors, transistors, LED, DIP socket, aluminum rod, copper-plated clip, batteries, and a project box. Compatible with a Centroid CNC.

[Click here for more details on: Electronic Edge Finder](#)

# Drill Press Table Modification

by: Captainleeward



Homemade drill press table modification constructed from lumber and caulk.

[Click here for more details on: Drill Press Table Modification](#)

# Cylinder Honing Setup

by: tonyfoale

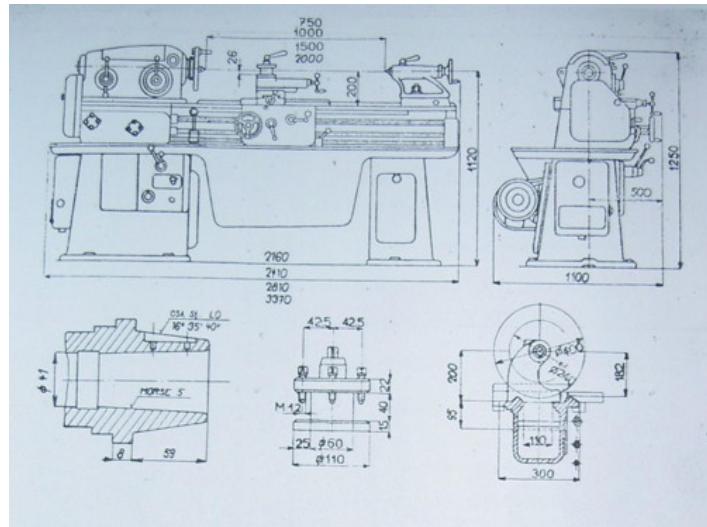


Homemade cylinder honing setup constructed from a drill press and clamps.

[Click here for more details on: Cylinder Honing Setup](#)

# Lathe Accuracy Improvement

by: tonyfoale



Homemade lathe accuracy improvement constructed by adjusting the compound rest.

[Click here for more details on: Lathe Accuracy Improvement](#)

# Bench Motor

by: mklotz



Homemade bench motor constructed from a reversible electric motor and a chuck.

[Click here for more details on: Bench Motor](#)

# Horizontal Milling Machine

by: tonyfoale



Homemade horizontal milling machine  
constructed from cast iron and steel.

[\*\*Click here for more details on: Horizontal Milling Machine\*\*](#)

# Tailstock Alignment Buttons

by: mklotz



Homemade tailstock alignment buttons constructed from round bar stock.

[\*\*Click here for more details on: Tailstock Alignment Buttons\*\*](#)

# Sawmill

by: brianpoundingnails



Homemade sawmill constructed from tubing, bar stock, bearings, and an electric motor. Doubles as a lathe, mortise machine, and drill press.

[\*\*Click here for more details on: Sawmill\*\*](#)

# Taper Measuring Method

by: mklotz



Homemade taper measuring method constructed using 123 blocks.

[Click here for more details on: Taper Measuring Method](#)

# Rotary Table

by: Astro



Homemade rotary table utilizing a right-angle wormbox with an 80:1 reduction. Features a 10" diameter top plate.

[\*\*Click here for more details on: Rotary Table\*\*](#)

# Keyway Cutter

by: LMMasterMariner



Homemade keyway cutter constructed from stainless steel bar stock. Can be used on a lathe or drill press.

[Click here for more details on: Keyway Cutter](#)

# Heavy Duty Transmission Jack

by: Frank S

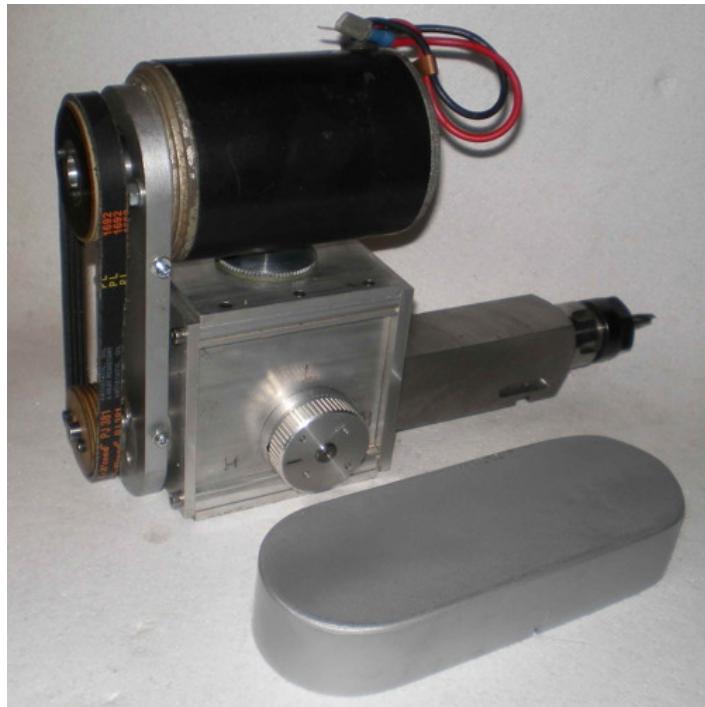


Homemade heavy duty transmission jack constructed from 4x4 square tubing, 1" sprinkler pipe, casters, swivels, CRS bar stock, homemade collars, and a chromed cylinder.

[Click here for more details on: Heavy Duty Transmission Jack](#)

# 3 Speed Lathe Milling Attachment

by: olderdan

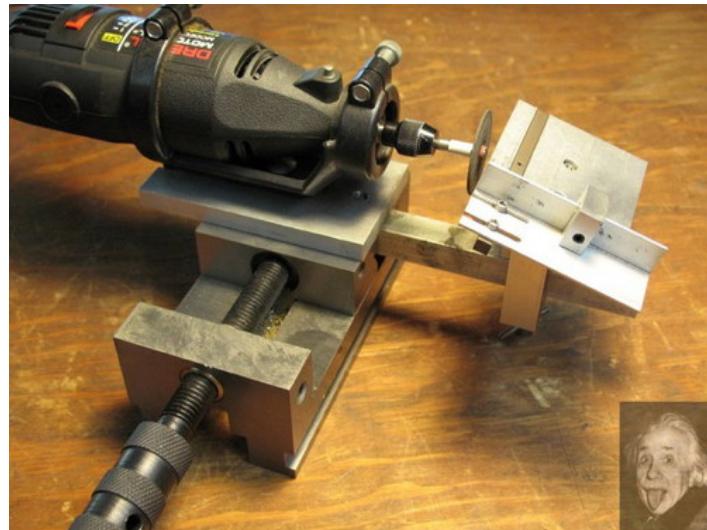


Homemade 3-speed lathe milling attachment constructed from a DC motor, steel extrusions, bar stock, gear blanks, and bearings.

[Click here for more details on: 3 Speed Lathe Milling Attachment](#)

# Dremel Jig

by: mklotz



Homemade Dremel jig featuring an aluminum backbone to facilitate vise-mounting, as well as a sliding, tiltable table.

[\*\*Click here for more details on: Dremel Jig\*\*](#)

# Tailstock Taper Turning Attachment

by: rossbotics



Homemade tailstock taper turning attachment constructed from brass, aluminum and alloy steels. Uses an off-the-shelf Morse taper shank.

[\*\*Click here for more details on: Tailstock Taper Turning Attachment\*\*](#)

# Table Vise

by: brianhw

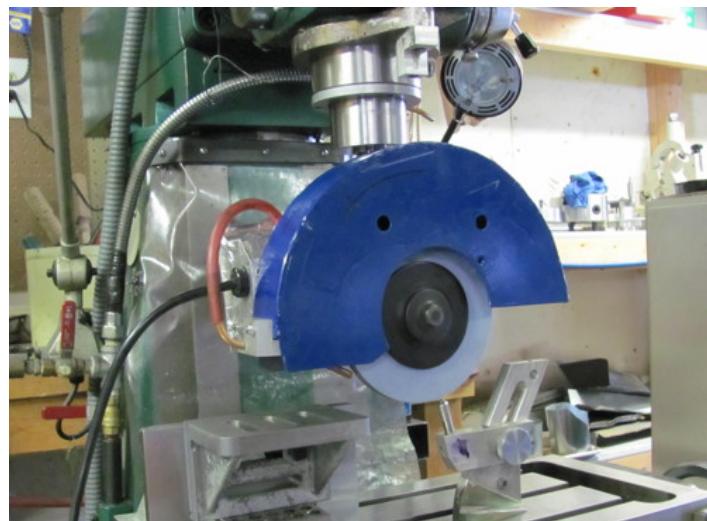


Homemade table vise constructed from surplus alloy, tailgate strut, and silicone dispensing gun.

[Click here for more details on: Table Vise](#)

# Surface Grinder

by: turntable



Homemade surface grinder constructed from a surplus chop saw, sheetmetal, bar stock, and tubing.

[Click here for more details on: Surface Grinder](#)

# Truck Wheel Ring Straightener

by: Frank S



Homemade truck wheel ring straightener constructed from a length of bar stock and a cam bolted to the work table.

[\*\*Click here for more details on: Truck Wheel Ring Straightener\*\*](#)

# External Lathe Gearbox

by: LMMasterMariner



Homemade external lathe gearbox constructed from mild steel plate, stainless steel, bearings, off-the-shelf gears, and pulleys.

[Click here for more details on: External Lathe Gearbox](#)

# Anvil

by: Tuomas

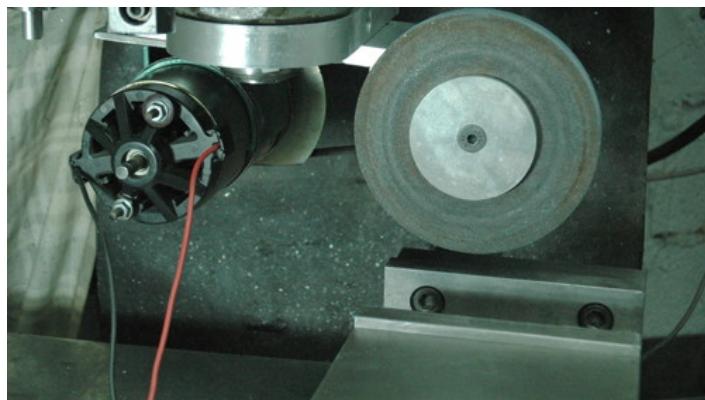


Homemade anvil constructed from a surplus railroad section.

[Click here for more details on: Anvil](#)

# Surface Grinder

by: tonyfoale

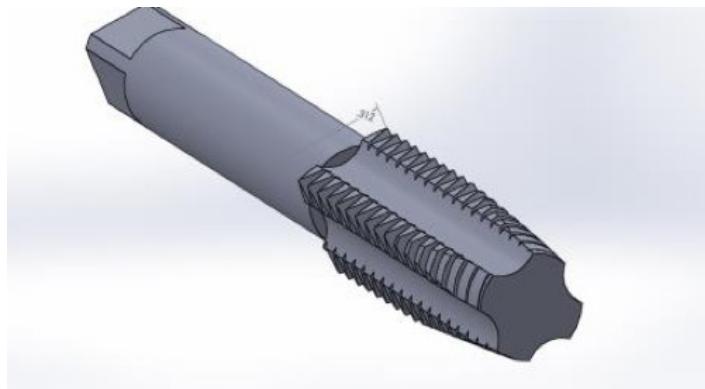


Homemade surface grinder constructed from a mill spindle, treadmill motor, and homemade mounting plate. The assembly is mounted onto a mill quill to provide depth control.

[Click here for more details on: Surface Grinder](#)

# Square Broach

by: Frank S

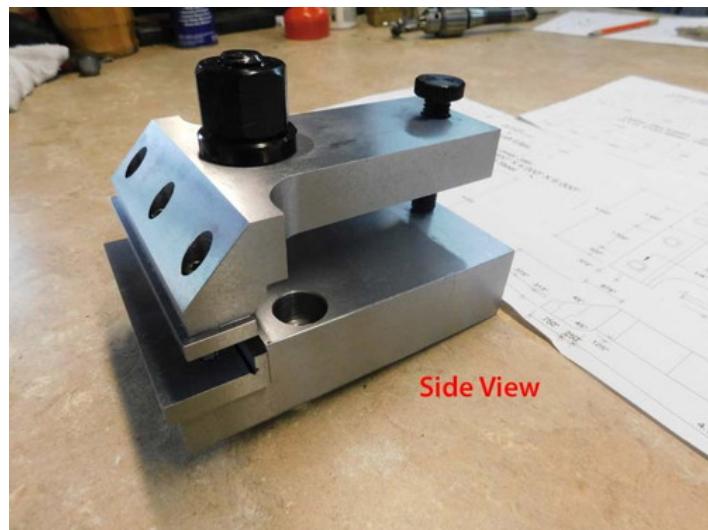


Homemade square broach made from a tap ground square.

[Click here for more details on: Square Broach](#)

# Edge Milling Vise

by: rossbotics



Side View

Homemade edge milling vise constructed from 1018, O-1, and 4140 steels. Used for clamping work along its edges.

[\*\*Click here for more details on: Edge Milling Vise\*\*](#)

# Digital Finger Joint Jig

by: Christophe Mineau

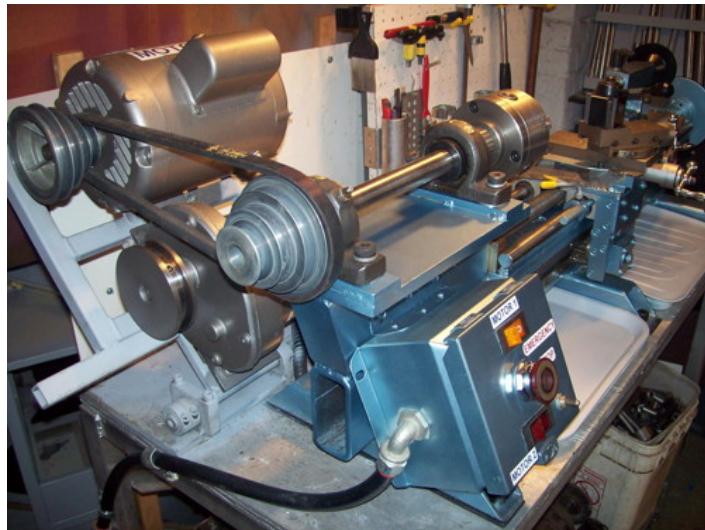


Homemade digital finger joint jig constructed from lumber, threaded rods, T-nuts, and a homemade encoder.

[Click here for more details on: Digital Finger Joint Jig](#)

# Metal Turning Lathe

by: timcruzen



Homemade metal turning lathe constructed from steel plate, bar stock, bearings, pulleys, shafting, motors, and a chuck.

[\*\*Click here for more details on: Metal Turning Lathe\*\*](#)

# Large Radius Cutting Method

by: thehomeengineer



Homemade large radius cutting method constructed from a section of sacrificial bar stock.

[Click here for more details on: Large Radius Cutting Method](#)

# Angle Grinder Modification

by: Tuomas



Homemade angle grinder modification constructed from steel plate and angle iron.

[Click here for more details on: Angle Grinder Modification](#)

# Oil Injector

by: rossbotics



Homemade oil injector constructed from bar stock, tubing, a nozzle, and O-rings.

[Click here for more details on: Oil Injector](#)

# Double Edge Fly Cutter

by: tonyfoale



Homemade double edge fly cutter constructed from a surplus chuck plate and an R8 mounting flange.

[Click here for more details on: Double Edge Fly Cutter](#)

# Drill Press Wood Lathe

by: Mikhandmaker



Homemade drill press wood lathe constructed from a drill press, angle drill adaptor, threaded rod, nuts, and lumber.

[Click here for more details on: Drill Press Wood Lathe](#)

# Tool Sharpener

by: olderdan



Homemade tool sharpener constructed from a surplus bench grinder, steel baseplate, bar stock, and a dial indicator.

[Click here for more details on: Tool Sharpener](#)

# Damaged Thread Chamfering Tool

by: brianhw



Homemade damaged thread chamfering tool constructed from steel stock.

[Click here for more details on: Damaged Thread Chamfering Tool](#)

# Tube Notching Method

by: Tuomas



Homemade tube notching method constructed from a calculated paper cutout.

[\*\*Click here for more details on: Tube Notching Method\*\*](#)

# Claw Clamps

by: thehomeengineer



Homemade claw clamps constructed from steel stock, threaded rod, and screws.

[Click here for more details on: Claw Clamps](#)

# Slide Hammer Center Punch

by: mklotz

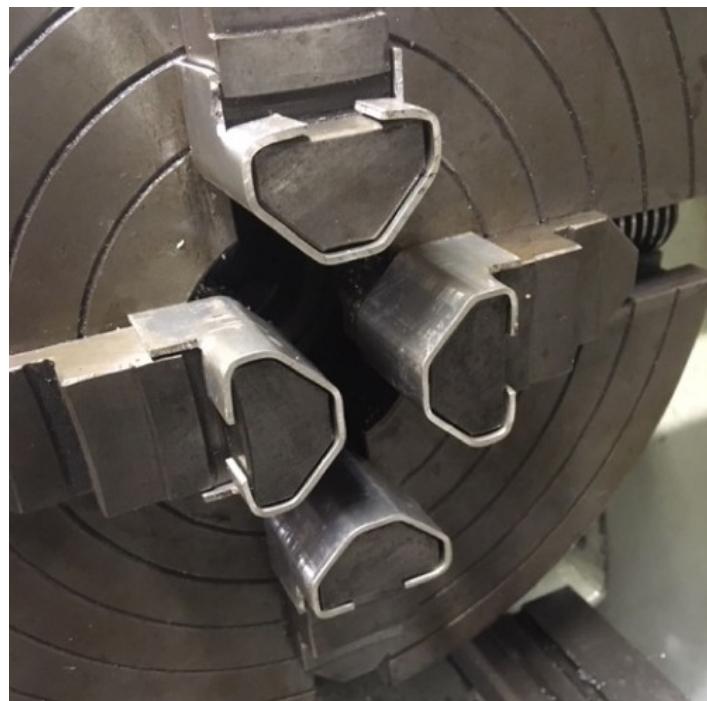


Homemade slide hammer center punch constructed from round bar stock, aluminum, and a set screw.

[\*\*Click here for more details on: Slide Hammer Center Punch\*\*](#)

# Chuck Soft Jaws

by: thehomeengineer



Homemade chuck soft jaws constructed from aluminum sheet. Prevents marring of work pieces.

[Click here for more details on: Chuck Soft Jaws](#)

# Lathe Modifications

by: Paul Jones



Homemade lathe modifications intended for a Unimat SL1000 including: a storage platform and drawer, tapped holes for future enhancements, dial indicators, adjustable carriage stops, and up-rated motors.

[\*\*Click here for more details on: Lathe Modifications\*\*](#)

# Sheetmetal Brake

by: kess

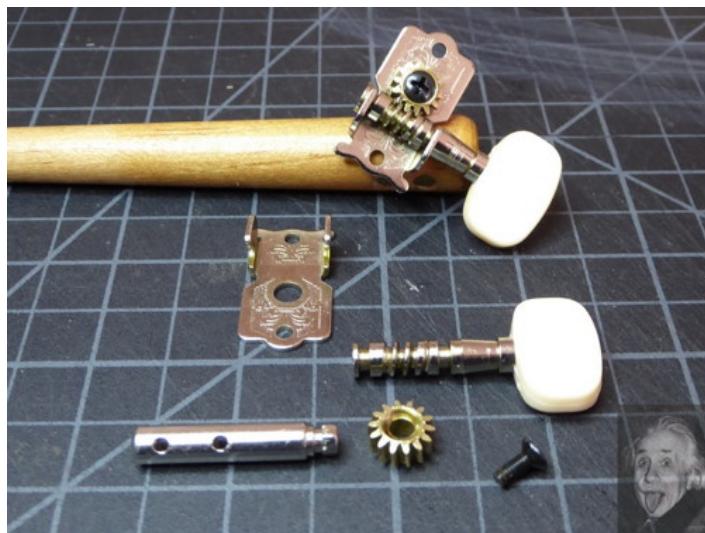


Homemade plans for a sheetmetal brake constructed from angle iron, bar stock, nuts, bolts, springs, and washers.

[Click here for more details on: Sheetmetal Brake](#)

# Worm Gear Assembly for Modeling

by: mklotz



Homemade worm gear assembly for modeling constructed from off-the-shelf tuning gear for stringed musical instruments.

[\*\*Click here for more details on: Worm Gear Assembly for Modeling\*\*](#)

# Filing Machine

by: brianhw



Homemade filing machine constructed from surplus chainsaw components, pulleys, and a surplus H-beam section.

[Click here for more details on: Filing Machine](#)

# Leather Apron

by: Christophe Mineau



Homemade leather apron constructed from surplus sofa leather and homemade wood buttons.

[Click here for more details on: Leather Apron](#)

## Tee Nut Jig

by: bruce.desertrat



Homemade tee nut jig constructed from bar stock and a screw.

[Click here for more details on: Tee Nut Jig](#)

# Plug Gauge

by: mklotz



Homemade plug gauge constructed from Cerrosafe. Used by gunsmiths to measure internal diameters, it can also be used as a dimensional cast for measuring any hole diameter.

[Click here for more details on: Plug Gauge](#)

# Mini Lathe

by: Vyacheslav.Nevolya



Homemade mini lathe constructed from rectangular tubing, angle iron, a drill chuck, sewing machine motor, and homemade pulleys.

[Click here for more details on: Mini Lathe](#)

# Tailstock Clamp Improvement

by: Paul Jones



Homemade tailstock clamp improvement for a 12" x 37" lathe. Intended to prevent the tailstock slipping from its clamped position when drilling large-diameter holes. Cast iron clamping plate was replaced with CRS.

[Click here for more details on: Tailstock Clamp Improvement](#)

# Lathe Shear Tool

by: tonyfoale



Homemade lathe shear tool constructed from steel stock.

[Click here for more details on: Lathe Shear Tool](#)

# Tap Handle Bubble Level

by: Paul Jones



Homemade tap handle bubble level constructed from 6016 aluminum stock and off-the-shelf bubble levels.

[Click here for more details on: Tap Handle Bubble Level](#)

# Anvil

by: Carlos B

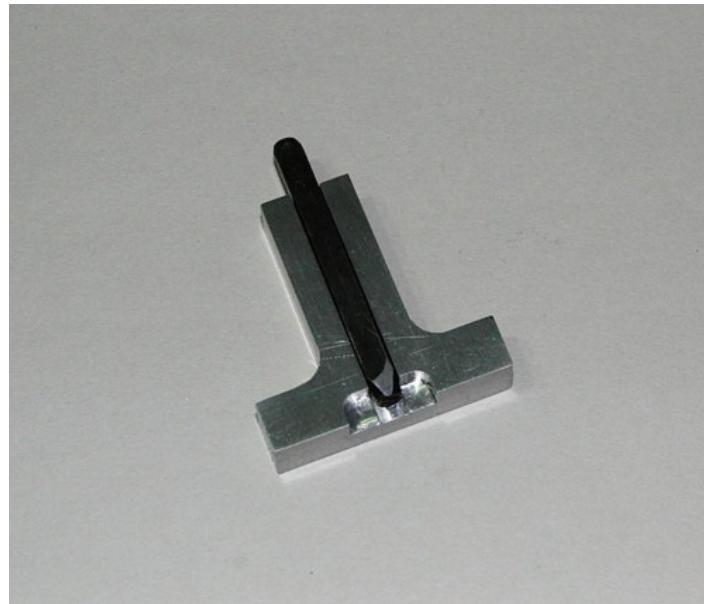


Homemade anvil constructed from a surplus railroad section.

[Click here for more details on: Anvil](#)

# Stamp Guide

by: jjr2001



Homemade stamp guide constructed from aluminum plate and magnets.

[Click here for more details on: Stamp Guide](#)

# Tap Holders

by: bobs409



Homemade tap holders constructed from coupling nuts and bolts.

[Click here for more details on: Tap Holders](#)

# Ring Roller

by: thehomeengineer



Homemade ring roller constructed from steel stock, aluminum, bearings, knobs, bolts, circlips, and threaded rod.

[\*\*Click here for more details on: Ring Roller\*\*](#)

# Indexing Fixture

by: rossbotics

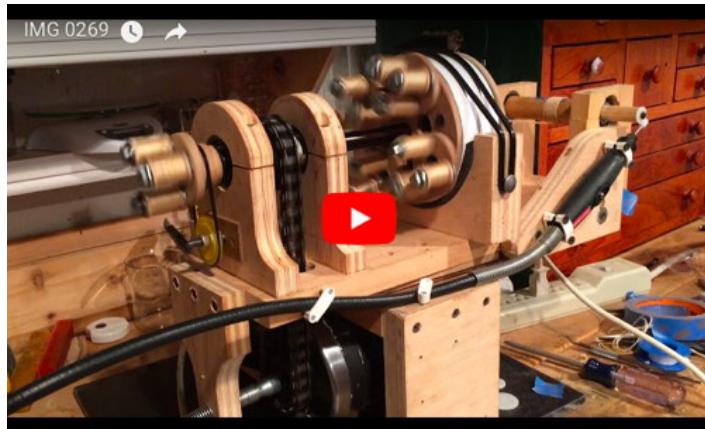


Homemade indexing fixture intended to facilitate the process of fabricating #3 module gears.

[\*\*Click here for more details on: Indexing Fixture\*\*](#)

# Rope Making Machine

by: myavid76



Homemade rope making machine constructed from lumber, sprockets, a chain, tubing, PVC coupling, rubber wheel, and a surplus mixer motor. Used to make ropes for ship models.

[Click here for more details on: Rope Making Machine](#)

# Kant Twist Clamp

by: Captainleeward

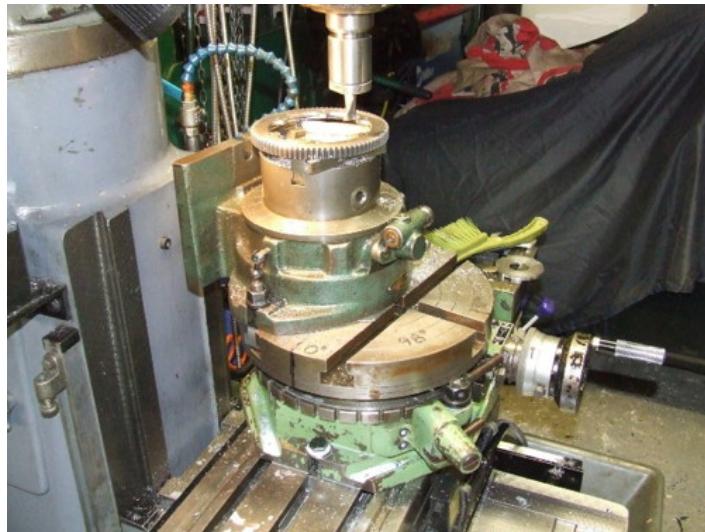


Homemade Kant twist clamp constructed from steel plate, threaded rod, set screws, and screws.

[Click here for more details on: Kant Twist Clamp](#)

# Internal Radius Cutting Method

by: thehomeengineer



Homemade internal radius cutting method constructed from a rotary table and an indexing head. Used in lieu of a CNC.

[\*\*Click here for more details on: Internal Radius Cutting Method\*\*](#)

# Blind Bearing Removal Method

by: bstanga



Homemade blind bearing removal method constructed from wet paper towels and a steel dowel.

[Click here for more details on: Blind Bearing Removal Method](#)

# Morse Taper for Drill Press

by: tonyfoale



Homemade morse taper for drill press constructed from a surplus R8 to MT2 sleeve and bearings.

[Click here for more details on: Morse Taper for Drill Press](#)

# Portable Belt Grinder

by: barberorp



Homemade portable belt grinder powered by a rotary tool.

[Click here for more details on: Portable Belt Grinder](#)

# Sheetmetal Former

by: thehomeengineer



Homemade sheetmetal former constructed from steel stock. Used to form a lubricator body and lid for a scale model steam wagon.

[\*\*Click here for more details on: Sheetmetal Former\*\*](#)

# Screw Garrote

by: mklotz



Homemade screw garrote fashioned from brass tubing, wire, and waxed thread. Intended to facilitate the process of securing a screw while it's being started.

[Click here for more details on: Screw Garrote](#)

# Y Allen Wrenches

by: Cascao



Homemade Y Allen wrenches constructed from surplus Allen wrenches.

[Click here for more details on: Y Allen Wrenches](#)

# Gear Repair Method

by: Vyacheslav.Nevolya



Homemade gear repair method constructed from a welder and an angle grinder.

[\*\*Click here for more details on: Gear Repair Method\*\*](#)

# Parting Tool

by: brightspark



Homemade parting tool adapted from a surplus tungsten carbide-tipped (TCT) saw blade. Capable of being readily sharpened on a green grindstone.

[Click here for more details on: Parting Tool](#)

# Drill Press

by: Vyacheslav.Nevolya



Homemade drill press constructed from tubing, shafting, bearings, a chuck, pinion gear, pulley, bar stock, and a surplus washing machine motor.

[Click here for more details on: Drill Press](#)

# Coiled Tube Straightening Tool

by: thehomeengineer

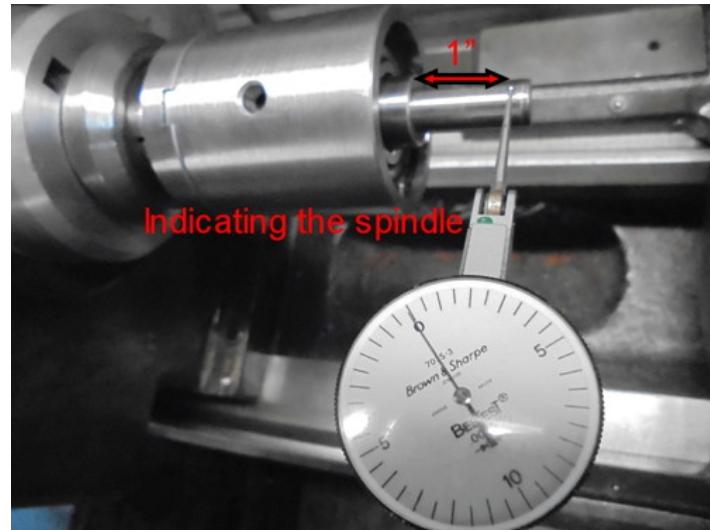


Homemade coiled tube straightening tool constructed from steel plate and off-the-shelf bobbins.

[\*\*Click here for more details on: Coiled Tube Straightening Tool\*\*](#)

# Rotary Broaching Tool

by: rossbotics



Homemade rotary broaching tool constructed from bearing, tool steel, and 4140 steel stock.

[Click here for more details on: Rotary Broaching Tool](#)

# Optical Punch

by: jjr2001

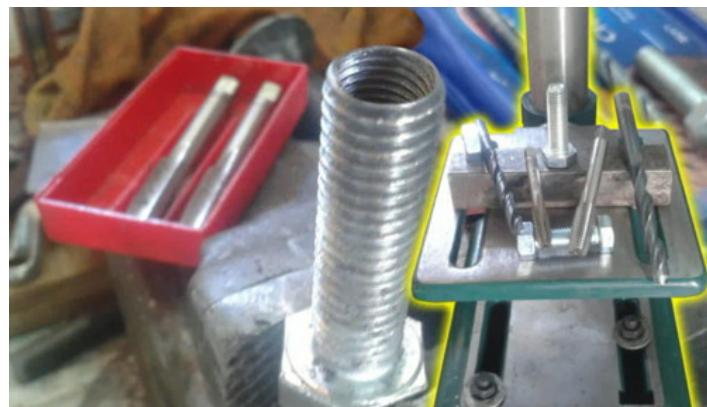


Homemade optical punch constructed from a polycarbonate block, surplus magnifier, and a drill blank.

[Click here for more details on: Optical Punch](#)

# Threaded Insert

by: kess



Homemade threaded insert constructed from an M12 bolt.

[Click here for more details on: Threaded Insert](#)

# Drill Sharpening Jig

by: th62

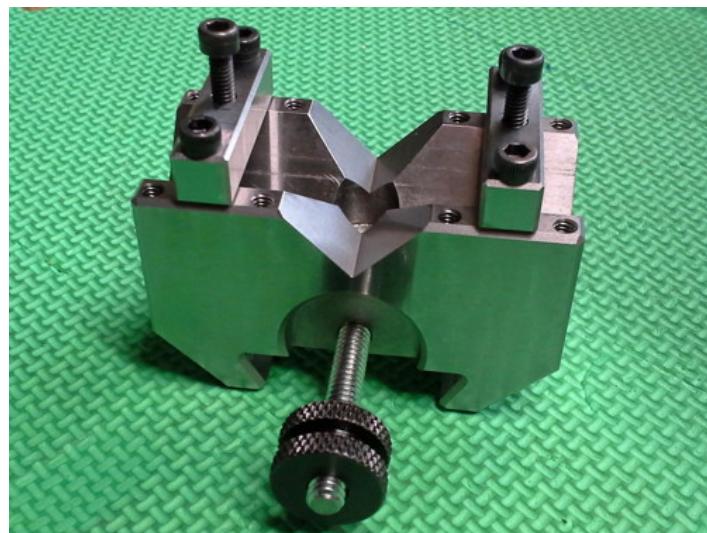


Homemade drill sharpening jig constructed from square and round bar stock, steel plate, washers, and Allen bolts.

[Click here for more details on: Drill Sharpening Jig](#)

# **QCTP Drilling Milling Attachment**

by: old\_toolmaker



Homemade QCTP drilling/milling attachment constructed from steel stock and bolts.

[\*\*Click here for more details on: QCTP Drilling Milling Attachment\*\*](#)

# Bender

by: bobs409

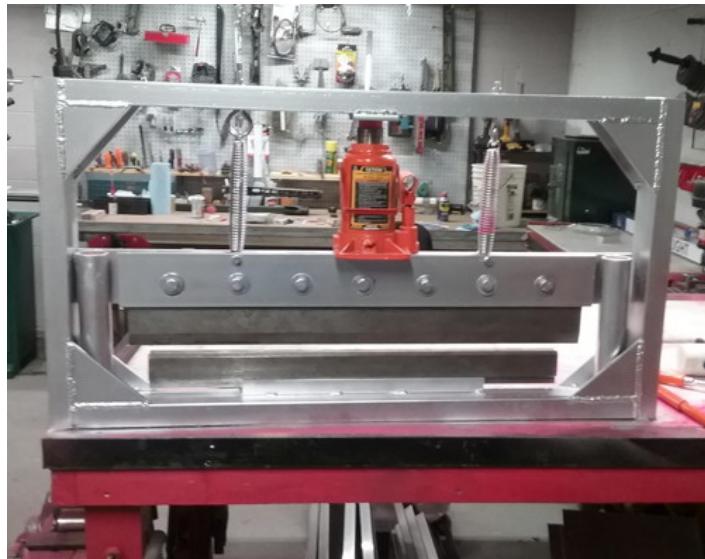


Homemade bender constructed from steel stock, angle iron, and tubing.

[Click here for more details on: Bender](#)

# Press Brake

by: Savage11



Homemade press brake constructed from tubing, steel plate, springs, and a bottle jack. Features replaceable top and bottom dies.

[Click here for more details on: Press Brake](#)

# Anvil

by: LMMasterMariner



Homemade anvil constructed from a surplus ship engine exhaust valve.

[Click here for more details on: Anvil](#)

# Scorps

by: Philip Davies



Homemade scorps constructed from surplus box wrenches and lumber.

[Click here for more details on: Scorps](#)

# Workshop Press

by: tonyfoale



Homemade workshop press constructed from tubing, bar stock, and an inverted hydraulic jack.

[Click here for more details on: Workshop Press](#)

# Bender

by: mklotz



Homemade bender constructed from steel stock, steel plate, pipe, dowels, and screws.

[Click here for more details on: Bender](#)

# Worm Gear Hob

by: LMMasterMariner



Homemade worm gear hob constructed from 304 stainless steel hex stock.

[Click here for more details on: Worm Gear Hob](#)

# Adjustable Round Forming Anvil

by: Frank S



Homemade adjustable round forming anvil constructed from steel plate, threaded rod, and nuts.

[Click here for more details on: Adjustable Round Forming Anvil](#)

# Prick Punching Tool

by: mklotz



Homemade prick punching tool constructed from round bar stock.

[Click here for more details on: Prick Punching Tool](#)

# Cordless Driver Power Supply

by: The Fe Factor

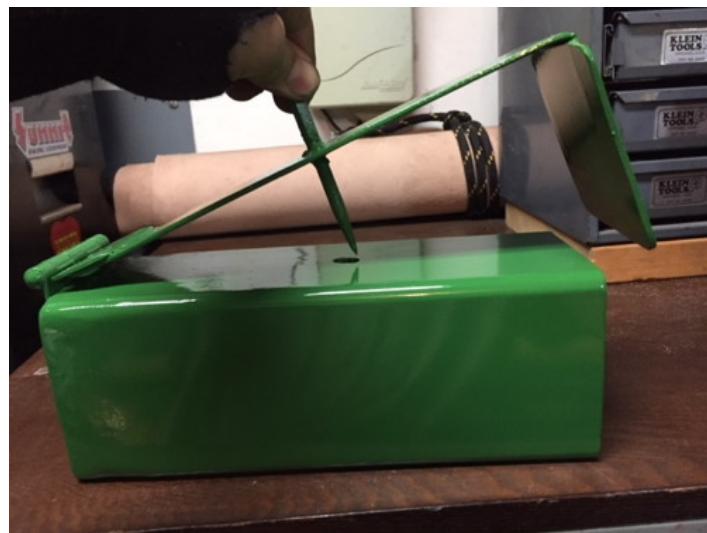


Homemade cordless driver power supply powered by an 18v 27.8 amp power supply and mounted in a tool box.

[Click here for more details on: Cordless Driver Power Supply](#)

# Spray Can Puncturing Tool

by: Texf1



Homemade spray can puncturing tool constructed from surplus tubing, steel plate, a hinge, and a punch. Used for expelling excess propellant in paint spray cans.

[\*\*Click here for more details on: Spray Can Puncturing Tool\*\*](#)

# Tilting Dividing Fixture

by: rossbotics

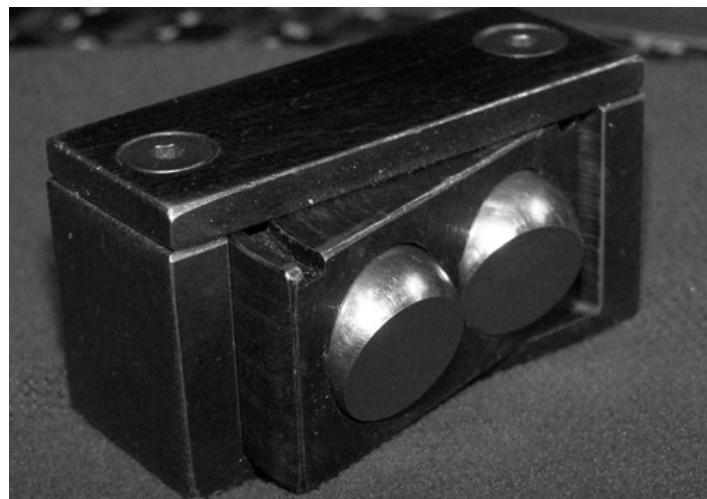


Homemade tilting dividing fixture constructed from 4140 steel and cap screws.

[\*\*Click here for more details on: Tilting Dividing Fixture\*\*](#)

# Self Aligning Clamp Pad

by: Toolmaker51

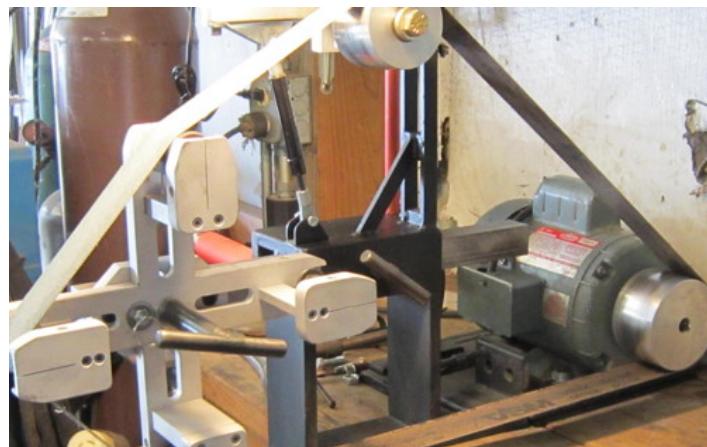


Homemade self-aligning clamp pad constructed from steel stock, screws, and bearing balls.

[Click here for more details on: Self Aligning Clamp Pad](#)

# Belt Grinder Attachment

by: garycullen



Homemade belt grinder attachment constructed from steel stock, plate, bearings, and rubber rollers.

[Click here for more details on: Belt Grinder Attachment](#)

# Knurling Calculator

by: PJs

11	Count teeth and measure Knurl wheels then enter the numbers into the Orange fields below. Numbers for "Lookup Table" will automatically adjust.					
12	<i>Measured &amp; Calculated Values for LMS Knurls</i>					
<i>LMS Knurls</i>						
14	<b>LMS Knurl</b>	Nt counted	Dot Measured	Pot=p*Dot/Nt	-P=Nt/Dnt	TPI=LPI
15	<b>Course</b>	27	0.7500	0.0873	36.0000	11.4592
16	<b>Medium</b>	41	0.7450	0.0571	55.0336	17.5177
17	<b>Fine</b>	62	0.7450	0.0377	83.2215	26.4902
18	<b>Med Strt.</b>	48	0.7430	0.0486	64.6030	20.5638
19	<i>Measured &amp; Calculated Values for "YOUR Knurls"</i>					
20	<b>Course</b>	24	0.7450	0.0975	32.2148	10.2543
21	<b>Medium</b>	43	0.7470	0.0546	57.5636	18.3231
22	<b>Fine</b>	58	0.7490	0.0406	77.4366	24.6488
23	<b>Course Strt.</b>	31	0.7500	0.0760	41.3333	13.1568
24	<b>Med Strt.</b>	44	0.7480	0.0534	58.8235	18.7241
25	<b>Fine Strt.</b>	53	0.7490	0.0444	70.7610	22.5239
26	<b>Other</b>	36	0.7495	0.0654	48.0320	15.2891

Homemade knurling calculator written in spreadsheet form and intended to facilitate the process of creating good knurls. Functions with both standard and metric knurls.

[Click here for more details on: Knurling Calculator](#)

# Retractable Scribe

by: bobs409

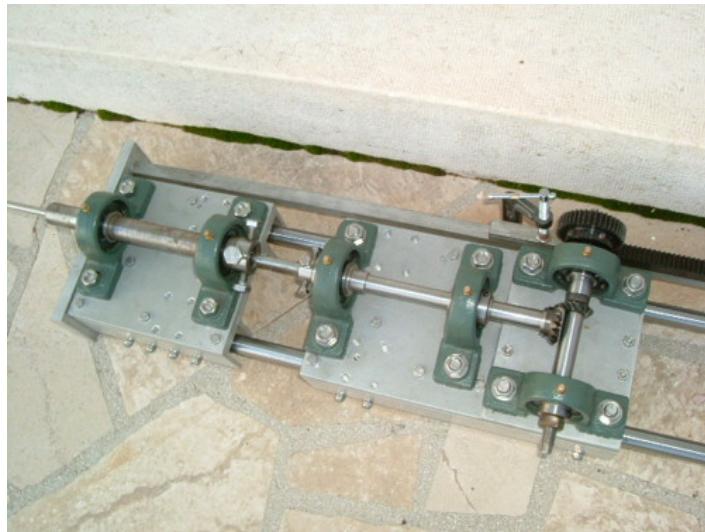


Homemade retractable scribe constructed from a retractable pen and a metal scribe.

[\*\*Click here for more details on: Retractable Scribe\*\*](#)

# Rifling Machine

by: LMMasterMariner



Homemade rifling machine constructed from aluminum plate, shafting, bearings, gears, nuts, and bolts.

[\*\*Click here for more details on: Rifling Machine\*\*](#)

# Dial Indicator Attachment

by: rossbotics



Homemade dial indicator attachment constructed from O1 and 12L14 steel stock.

[\*\*Click here for more details on: Dial Indicator Attachment\*\*](#)

# Filing Machine

by: rossbotics



Homemade filing machine constructed from steel, ball bearings, set screws, and a cherry wood base. Intended to facilitate the process of maintaining squareness when filing 90-degrees from a flat surface.

[Click here for more details on: Filing Machine](#)

# Lathe

by: rep

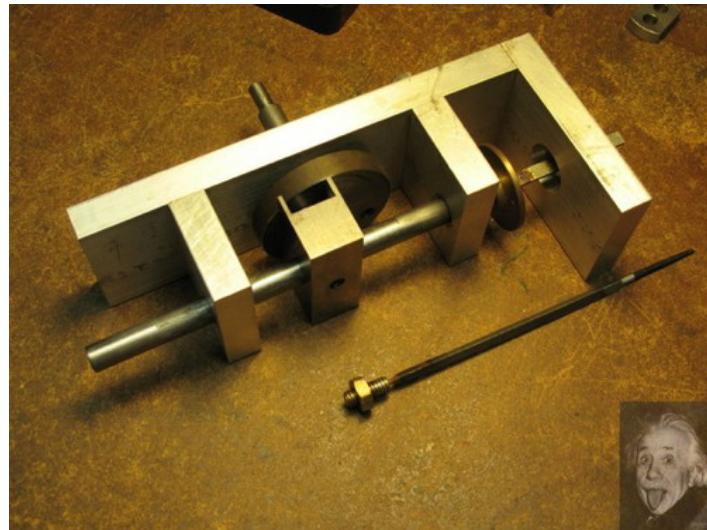


Homemade lathe constructed from a surplus steel beam, lumber, leadscrews, steel plate, and bearings.

[Click here for more details on: Lathe](#)

# Miniature Die Filer

by: mklotz



Homemade miniature die filer intended for vise-mounting and driven via a flex cable from an electric drill.

[\*\*Click here for more details on: Miniature Die Filer\*\*](#)

# Twin Belt Sander

by: Carlos B



Homemade twin belt sander constructed from an electric motor, homemade aluminum castings, bar stock, springs, and contact wheels.

[Click here for more details on: Twin Belt Sander](#)

# Lantern Chuck

by: thehomeengineer



Homemade lantern chuck constructed from steel and bar stock. Constructed to facilitate the threading of copper rivets.

[Click here for more details on: Lantern Chuck](#)

# Tapping Machine

by: the.hogman



Homemade tapping machine constructed from GI pipe and fittings, a tap holder, and brass bushings.

[Click here for more details on: Tapping Machine](#)

# Arduino Router Lift

by: revwarguy



Homemade Arduino router lift constructed from a stepper motor, auto zero probe, an Arduino, and LCD display.

[\*\*Click here for more details on: Arduino Router Lift\*\*](#)

# Rotary Welding Stand

by: brianhw



Homemade rotary welding stand constructed from disc rotors, a flywheel, and pipe.

[Click here for more details on: Rotary Welding Stand](#)

# Finger Saver Screw Holder

by: Captainleeward



Homemade finger saver screw holder constructed from a coupling nut, set screw, threaded rod, and a washer. Used to hold bolts being deburred or sanded.

[Click here for more details on: Finger Saver Screw Holder](#)

# Vertical Bandsaw

by: tonyfoale



Homemade vertical bandsaw constructed from tubing, bar stock, bearings, a gearbox, electric motor, and moped wheels.

[Click here for more details on: Vertical Bandsaw](#)

# Countersink Gage

by: mklotz



Homemade countersink gage constructed from aluminum stock.

[Click here for more details on: Countersink Gage](#)

# Quick Clamp

by: bongodrummer



Homemade quick clamp constructed from surplus oak and steel pins. Used for clamping workpieces on a mitre saw.

[Click here for more details on: Quick Clamp](#)

# Center Punch and Guide

by: rossbotics



Homemade center punch and guide constructed from 1018 CRS and O-1 tool steel.

[Click here for more details on: Center Punch and Guide](#)

# High Speed Spindle

by: Christophe Mineau



Homemade high speed spindle constructed from an off-the-shelf spindle kit, ER11 chuck, and a homemade wooden box.

[\*\*Click here for more details on: High Speed Spindle\*\*](#)

# Automatic Miter Saw Stop

by: Bellevue Woodshop



Homemade automatic miter saw stop constructed from a rail, bearings, servo, driver, a surplus laptop and touch monitor. Off-the-shelf components include a 5-axis CNC board and a stepper driver.

[\*\*Click here for more details on: Automatic Miter Saw Stop\*\*](#)

# Rotary Table

by: athomp



Homemade rotary table constructed from a pair of surplus brake rotors, steel plate, sheetmetal, a lawnmower ring gear, and homemade spindle and worm gear.

[\*\*Click here for more details on: Rotary Table\*\*](#)

# Universal Grinding Fixture

by: rossbotics

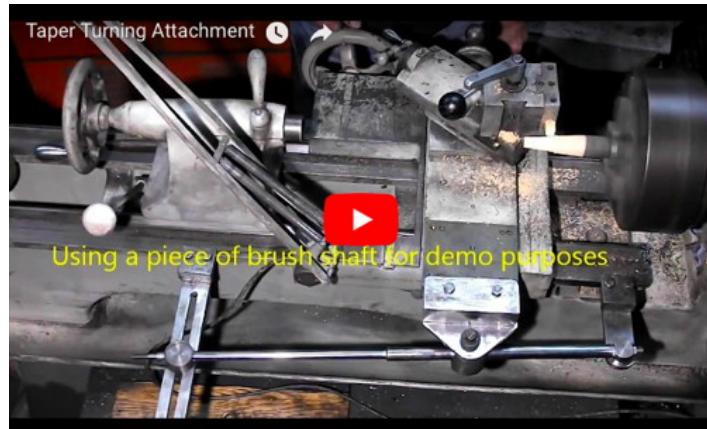


Homemade universal grinding fixture constructed from 4140 steel.

[Click here for more details on: Universal Grinding Fixture](#)

# Taper Turning Attachment

by: brianhw



Homemade lathe taper turning attachment constructed from surplus steel stock, steel rod, and cap screws.

[Click here for more details on: Taper Turning Attachment](#)

# Tool and Cutter Grinder

by: old\_toolmaker

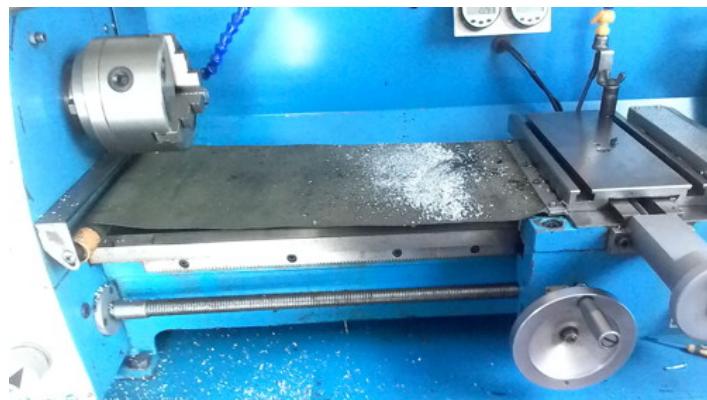


Homemade tool and cutter grinder  
constructed from steel stock.

[Click here for more details on: Tool and Cutter Grinder](#)

# Lathe Bed Protector

by: th62



Homemade lathe bed protector constructed from oil impregnated canvas, PVC pipe, bearings, and pulleys.

[\*\*Click here for more details on: Lathe Bed Protector\*\*](#)

# Tool Post Grinder

by: rossbotics



Homemade tool post grinder constructed from a surplus high speed motor, angular contact bearings, spindle, and homemade aluminum pulleys.

[\*\*Click here for more details on: Tool Post Grinder\*\*](#)

# Plectrum Punch

by: brianhw



Homemade plectrum punch constructed from mild and tool steels, and a brass hinge.

[Click here for more details on: Plectrum Punch](#)

# Manual Rotary Table

by: steamingbill



Homemade manual rotary table constructed from a flange bearing and a gym weight.

[Click here for more details on: Manual Rotary Table](#)

# End Mill Sharpening Fixture

by: rossbotics



Homemade end mill sharpening fixture constructed from 1018 and O-1 steels, 1020 D.O.M. tubing, and 6061 aluminum.

[\*\*Click here for more details on: End Mill Sharpening Fixture\*\*](#)

# Slip Roller

by: Jim In Idaho



Homemade slip roller constructed from steel plate, tubing, gears, bearings, threaded rod, and knobs.

[Click here for more details on: Slip Roller](#)

# Pipe Center

by: Cascao



Homemade pipe center constructed from steel stock, an arbor and a bearing.

[Click here for more details on: Pipe Center](#)

# Belt Grinder

by: Vyacheslav.Nevolya



Homemade belt grinder constructed from angle iron, steel plate, homemade aluminum contact wheels, bearings, and an electric motor.

[Click here for more details on: Belt Grinder](#)

# Angle Dresser

by: rossbotics

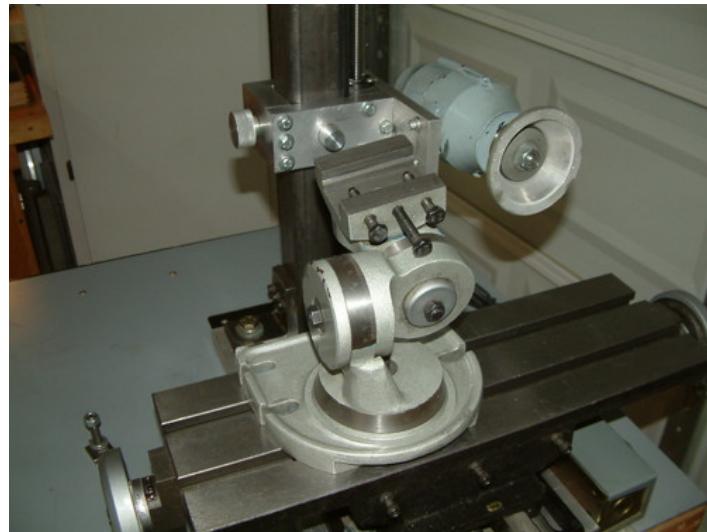


Homemade angle dresser constructed from 1018 steel.

[Click here for more details on: Angle Dresser](#)

# Cutter Grinder

by: jjr2001



Homemade cutter grinder constructed from a surplus XY table, aluminum stock, tubing, leadscrew, and a grinder.

[\*\*Click here for more details on: Cutter Grinder\*\*](#)

# Parting-Off Oiler

by: mklotz



Homemade parting-off oiler constructed from plumbing fittings, scrap tubing, and a valve.

[Click here for more details on: Parting-Off Oiler](#)

# Radial Arm Saw Table

by: Brendon

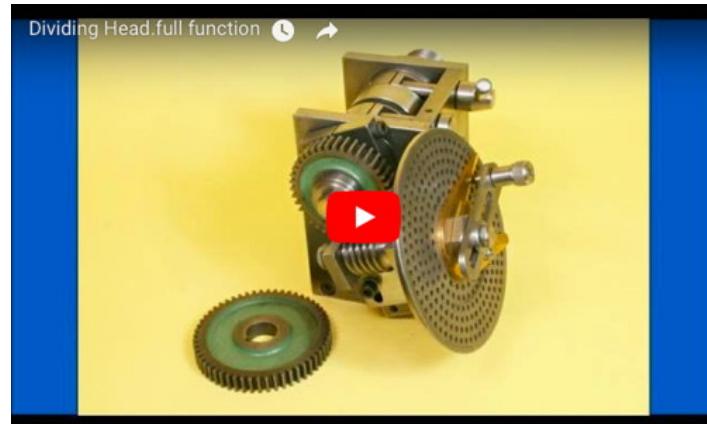


Homemade radial arm saw table constructed from melamine-faced particle board.

[Click here for more details on: Radial Arm Saw Table](#)

# Dividing Head

by: Metaler

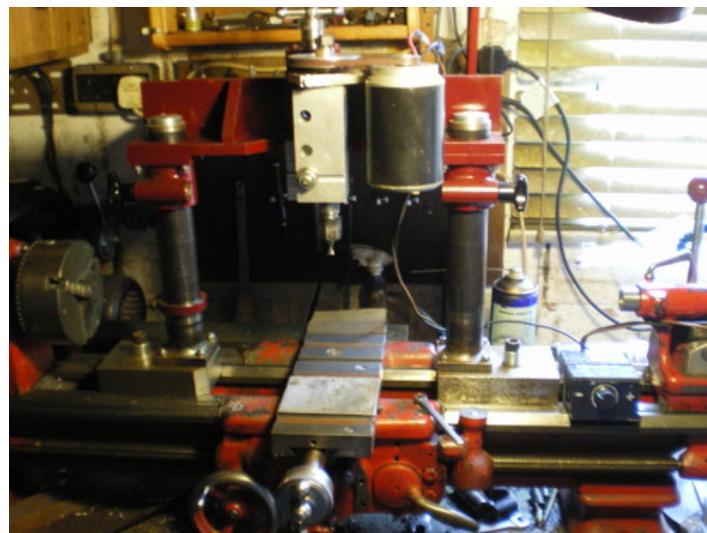


Homemade dividing head constructed from lathe worm wheels, Allen bolts, and steel stock.

[Click here for more details on: Dividing Head](#)

# Gantry Type Milling Attachment

by: olderdan

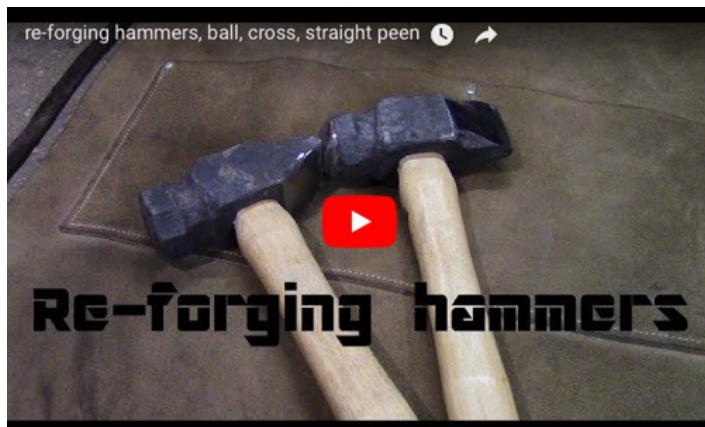


Homemade gantry type milling attachment constructed from thick wall tubing, steel plate, and brass cotters.

[\*\*Click here for more details on: Gantry Type Milling Attachment\*\*](#)

# Straight and Cross Peen Hammers

by: Turboconqueringmegaeagle

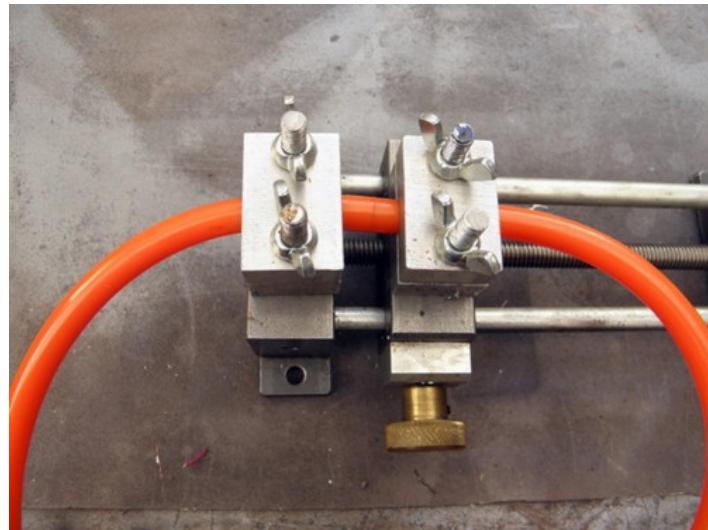


Homemade straight and cross peen hammers constructed from reforged off-the-shelf hammers and lumber.

[Click here for more details on: Straight and Cross Peen Hammers](#)

# Fan Belt Welding Jig

by: Captainleeward



Homemade fan belt welding jig intended to aid in alignment of soldering gun-heated ends.

[\*\*Click here for more details on: Fan Belt Welding Jig\*\*](#)

# Laser Aligner

by: tonyfoale



Homemade laser aligner constructed from a surplus laser, steel stock, batteries, nuts, and bolts.

[Click here for more details on: Laser Aligner](#)

# Belt Sander

by: markfitz



Homemade belt sander constructed from a bench grinder, plywood, angle iron, and steel plate.

[\*\*Click here for more details on: Belt Sander\*\*](#)

# Bar Bender

by: Tuomas



Homemade bar bender constructed from bar stock, steel plate, and steel dowels.

[Click here for more details on: Bar Bender](#)

# Pipe End Forming Tool

by: Frank S

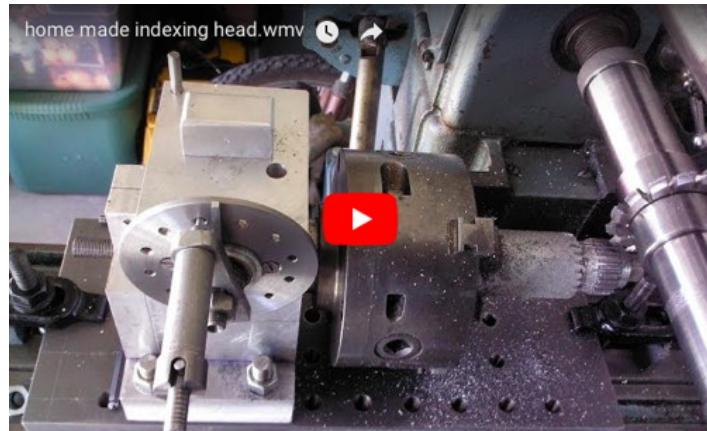


Homemade pipe end forming tool constructed from a surplus cam follower. Mounts onto the lathe compound.

[Click here for more details on: Pipe End Forming Tool](#)

# Indexing Head

by: sohackitj



Homemade indexing head constructed from steel and bar stock, off-the-shelf worm gears, a homemade bushing, and a chuck.

[Click here for more details on: Indexing Head](#)

# Low-Profile Slitting Saw Arbor

by: mklotz



Homemade low-profile slitting saw arbor featuring a top hat only .080" thick enabling operation within .1" of the vise.

[\*\*Click here for more details on: Low-Profile Slitting Saw Arbor\*\*](#)

# Hand Hammer

by: mklotz



Homemade hand hammer constructed from gas pipe, steel, and brass. Filled with bird shot.

[Click here for more details on: Hand Hammer](#)

# Miter Measuring Aid

by: Toolmaker51



Homemade miter measuring aid constructed from surplus angle iron and pins.

[Click here for more details on: Miter Measuring Aid](#)

# Drill Press Clutch

by: Tuomas

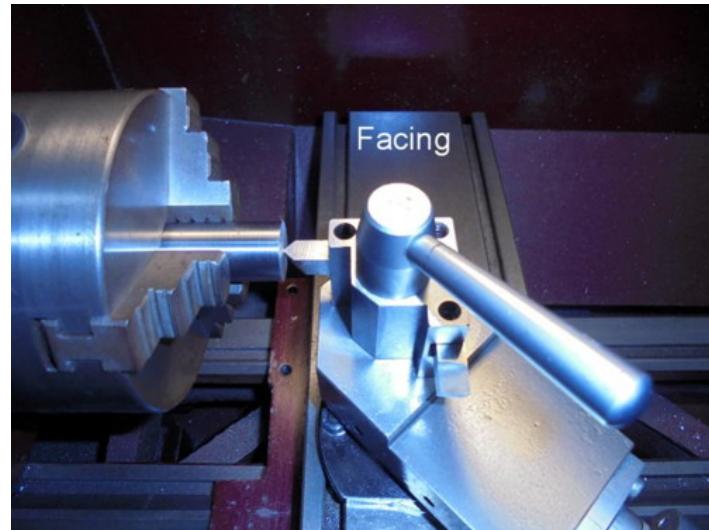


Homemade drill press clutch constructed from an axle, spring, washers, and a surplus chuck.

[Click here for more details on: Drill Press Clutch](#)

# Tool Post

by: rossbotics



Homemade tool post constructed from O1 tool steel.

[Click here for more details on: Tool Post](#)

# Lever Action Clamping Screws

by: Paul Jones



Homemade lever action clamping screws constructed from 1018 CRS rod, roll pins, and surplus steel support rails.

[Click here for more details on: Lever Action Clamping Screws](#)

# Lathe Truing Tool

by: Canobi

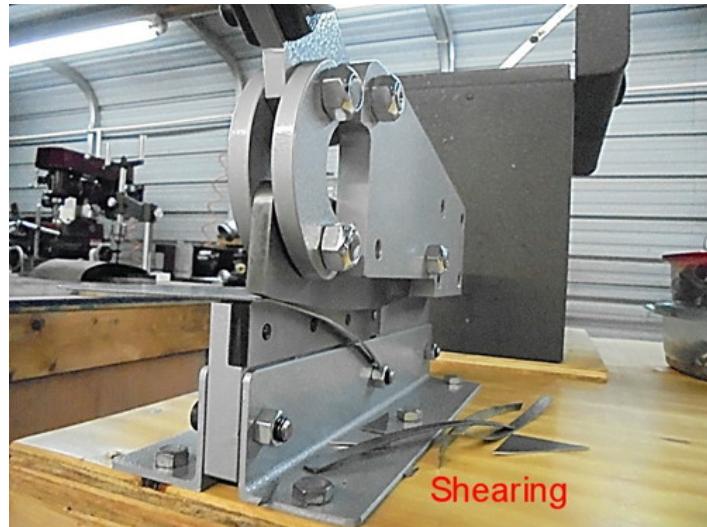


Homemade lathe truing tool constructed from shafting, bearings, and Allen bolts.

[Click here for more details on: Lathe Truing Tool](#)

# Shear

by: rossbotics

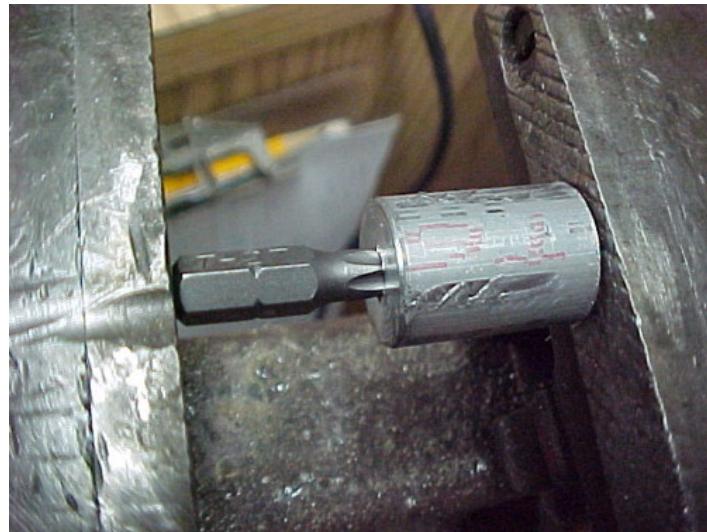


Homemade shear constructed from steel plate, tool steel, and pipe.

[Click here for more details on: Shear](#)

# **Broach from Torx Bit**

by: astroracer



Homemade broach constructed from a surplus Torx bit.

[\*\*Click here for more details on: Broach from Torx Bit\*\*](#)

# Cable Tie Tightener

by: rgsparber



Homemade cable tie tightener constructed from square tubing and a bolt.

[Click here for more details on: Cable Tie Tightener](#)

# Deburring Tool

by: Paul Jones

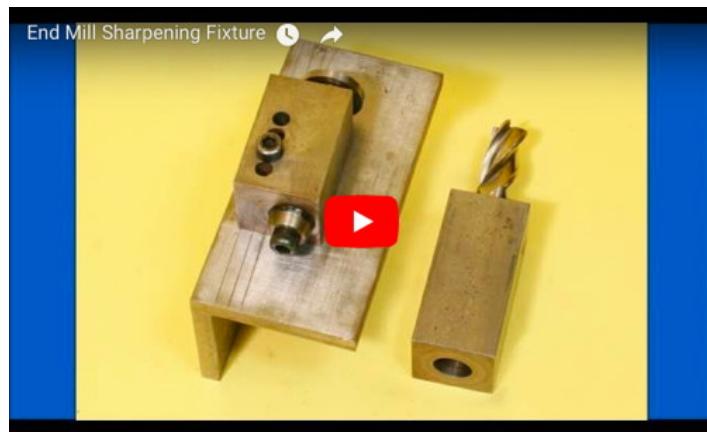


Homemade deburring tool adapted from a surplus razor handle. Head was turned from 303 stainless rod stock.

[Click here for more details on: Deburring Tool](#)

# Endmill Edge Sharpening Fixture

by: Metaler



Homemade endmill edge sharpening fixture constructed from steel stock.

[Click here for more details on: Endmill Edge Sharpening Fixture](#)

# Dual Belt Grinder and Sander

by: garycullen



Homemade dual belt grinder and sander constructed from a surplus grinder, steel plate, and grinding wheel.

[Click here for more details on: Dual Belt Grinder and Sander](#)

# Brass Kant Twist Clamp

by: jjr2001



Homemade brass Kant twist clamp constructed from brass, copper, and steel rivets. Lead screw is constructed from Grade 8 threaded rod.

[Click here for more details on: Brass Kant Twist Clamp](#)

# Nut Tightening Tool

by: rgsparber



Homemade nut tightening tool constructed from tubing and threaded rod.

[Click here for more details on: Nut Tightening Tool](#)

# Portable Drill Press

by: stingraygs



Homemade portable drill press constructed from a surplus drill, pipe clamps, tubing, clamps, and aluminum plate.

[Click here for more details on: Portable Drill Press](#)

# Sensitive Drill Press

by: rossbotics



Completed Parts

Homemade sensitive drill press constructed from steel plate, aluminum, brass, Delrin, a sewing machine motor, rack & pinion gear, bearings, and a controller.

[\*\*Click here for more details on: Sensitive Drill Press\*\*](#)

# Boring Head Modification

by: tonyfoale



Homemade boring head modification constructed from steel stock and set screws.

[Click here for more details on: Boring Head Modification](#)

# Lathe Height Gauge

by: mklotz



Homemade lathe height gauge constructed from a steel block.

[Click here for more details on: Lathe Height Gauge](#)

# Tap Wrench Guide

by: mklotz



Homemade tap wrench guide constructed from aluminum and a screw.

[\*\*Click here for more details on: Tap Wrench Guide\*\*](#)

# Bandsaw Blade Soldering Fixture

by: thehomeengineer



Homemade bandsaw blade soldering fixture constructed from steel stock, washers, and bolts. Mounts on a vise.

[\*\*Click here for more details on: Bandsaw Blade Soldering Fixture\*\*](#)

# Groove and Trepanning Tool

by: Paul Jones



Homemade groove and trepanning tool  
constructed from surplus HSS.

[\*\*Click here for more details on: Groove and Trepanning Tool\*\*](#)

# Tire Lift

by: ruxu



Homemade tire lift constructed from a surplus floor jack, tubing, bar stock, and bearings.

[Click here for more details on: Tire Lift](#)

# Bench Grinder

by: h7eh7e



Homemade bench grinder constructed from a surplus electric motor, sheetmetal, and bar stock.

[Click here for more details on: Bench Grinder](#)

# Cordless Drill Extension

by: mklotz



Homemade cordless drill extension constructed from a small lead-acid battery, wire, and connectors.

[\*\*Click here for more details on: Cordless Drill Extension\*\*](#)

# Optical Center Punch

by: knoba



Homemade optical center punch fashioned from brass, acrylic, and medium carbon steel.

[Click here for more details on: Optical Center Punch](#)

# C-Clamp Modification

by: Manitoba Man



Homemade c-clamp modification consisting of utilizing a bolt-on extension to add 7" of throat depth to the clamp.

[\*\*Click here for more details on: C-Clamp Modification\*\*](#)

# Slitting Saw Arbor

by: Canobi



Homemade slitting saw arbor constructed from surplus round bar stock.

[Click here for more details on: Slitting Saw Arbor](#)

# Bandsaw

by: rep



Homemade bandsaw constructed from tubing, bearings, sheetmetal, and an electric motor.

[Click here for more details on: Bandsaw](#)

# Hand Hammer

by: frugalolegeezer



Homemade hand hammer constructed from a surplus bronze doorknob and walnut.

[Click here for more details on: Hand Hammer](#)

# Threaded Knobs

by: morsa

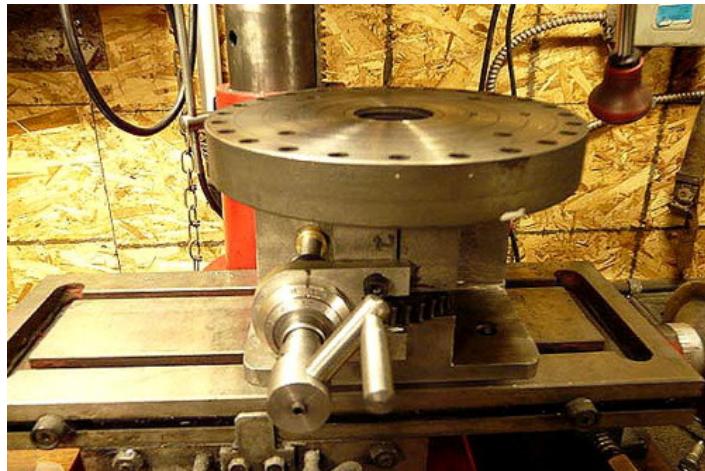


Homemade threaded knobs fashioned from MDF. Lathe and router table were utilized for rounding. Finished with sealant and black enamel.

[Click here for more details on: Threaded Knobs](#)

# Rotary Table and Dividing Head

by: Nick Jonkman



Homemade rotary table and dividing head constructed from steel and a worm gear. The steel stock was custom cast.

[\*\*Click here for more details on: Rotary Table and Dividing Head\*\*](#)

# Short Scriber

by: mklotz



Homemade short scribe utilizing a drill rod point. Intended to be infinitely adjustable.

[Click here for more details on: Short Scriber](#)

# Kant Twist Clamp

by: Vyacheslav.Nevolya



Homemade Kant twist clamp constructed from steel plate, bar stock, and threaded rod.

[Click here for more details on: Kant Twist Clamp](#)

# Dishing Stump

by: Savage11



Homemade dishing stump constructed from a surplus gas bottle. Accessory arm allows forming tools to be attached.

[Click here for more details on: Dishing Stump](#)

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