

# Trick Tools™

*High Performance Tools for the Fabricator*

SPRING 2009



**Van Sant**  
Enterprises, Inc.

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## DIGITAL ANGLE GAUGE



Wixey Digital Angle Finder/Level is a handy tool for finding true bevel angles on a saw, tracking rotation of a tube during tube bending (with optional base), or setting up milling/drilling operations. The gauge can be "zero'd" at any point. The small body is only 2" x 2" and has a strong magnetic base. Each Wixey gauge comes with an additional battery for extra long usage. You will find a lot of applications for this gauge!

The new optional base will attach to round tubing or pipe that is 1" through 2" OD. The base also swivels independently of the gauge, so you can use it as a level.

- WR300 Digital Angle Gauge** ..... \$39.99
- Angle Gauge Bracket Only** (attaches to 1"-2" round tube) ..... \$59.99
- Digital Angle Gauge and Bracket Combo** ..... \$99.98

## DIGITAL SMART TOOL

No shop should be without this handy digital level. Accurate to 1/10 of a degree, the Digital Smart Tool runs for about 400 hours on a single 9 volt battery and has an automatic shut off after 6 minutes. Displays degrees, slope % and pitch (in/ft) with arrows to show the direction to move towards level. The display inverts when the tool is moved beyond 90°. Fits into most standard levels with oval slot.



- Digital Smart Tool** (module only) ..... \$109.00
- Deluxe Smart Tool 8** (includes 8" aluminum rail with magnetic base, shown above) ..... \$149.00

**NEW!**

## DIGITAL PROTRACTOR



These digital protractors can be used in any plane and will help find precise angles with ease. Excellent for setting up a saw, calculating the correct angle for a bend, or measuring an existing part. Measures to .1 degree.

- Range: +/- 180 degrees
- Resolution: 0.1 degrees
- Accuracy: +/- 0.1 degrees
- Auto shutoff for extended battery life
- Legs are 9" long and 2" wide
- Built-in magnets on the edge of the legs
- Legs can be tightened for holding measurement

- WR410 Digital Protractor** ..... \$58.99

## FRACTIONAL DIGITAL CALIPERS

Wixey Digital Calipers with Fractions are precision stainless steel calipers that display measurements in inches with fractions or millimeters. They are constructed of high quality hardened and ground stainless steel components. Wixey products incorporate patent pending "Precise Fraction Technology"™. This technology displays both decimal inches and fractions at the same time. The fractions only appear when they are almost precisely at the decimal equivalent (+/- .002"). This gives you at least 4 times the accuracy of other fraction displays. Includes carrying case, instruction manual, and additional battery.



- WR100 Digital Calipers w/ Fractional Readout** ..... \$38.99

## TORPEDO LEVELS

With their "no-compromise" design and superior quality, the Checkpoint Professional Levels are designed for portability, efficiency and professional durability. These levels feature rare-earth magnets for incredible holding power, CNC milled Accuracy from billet 6061 aluminum alloy, and precision vials. They come with a lifetime guarantee on the "Indestructible" bodies.

|                                 |                |
|---------------------------------|----------------|
| <b>303 Ultra Mini Mag</b> ..... | <b>\$29.95</b> |
| <b>300 Ultra Mag</b> .....      | <b>\$32.95</b> |
| <b>305 Mega Mag</b> .....       | <b>\$39.95</b> |
| <b>327 Laser Level</b> .....    | <b>\$69.95</b> |



327 Laser Level



305 Mega Mag



300 Ultra Mag



303 Ultra Mini

## ANGLE LEVELS



For critical projects use the Angle/Level to accurately set or measure angles. Unlike many products that stick, vibrate and bounce, the Angle/Level settles smoothly to the angle due to its oil damped, ball bearing movement. The hairline pointers can be precisely aligned and the angle read off to each degree, then divided at the vernier scale to the stated accuracy. A strong magnet base allows hands off use on ferrous metals. This is a high quality tool with lots of features, not like cheaper versions.

|   |                 |
|---|-----------------|
| <b>Angle Level 2</b> (1/10°) (3.6" x 3.1" includes case) .....                      | <b>\$59.95</b>  |
| <b>Angle Level 3</b> (1/20°) (5.5" x 5", die cast housing with carrying case) ..... | <b>\$169.95</b> |

## ROTATION GAUGES

Now to compliment our popular Angle Levels we offer two sizes of Angle Level Base. These powder-coated steel clamps provide accurate plane of bend tracking on round tubes. Great for chassis or exhaust work!

|   |                |
|---|----------------|
| <b>ALB Angle Level Base</b> (up to 2" tube) .....   | <b>\$34.95</b> |
| <b>ALB4 Angle Level Base</b> (1-1/2" - 4" tube) .....                                     | <b>\$44.95</b> |
| <b>ALB Combo</b> (Includes Angle Level 2 & ALB) <b>Save \$15!</b> .....                   | <b>\$79.90</b> |
| <b>ALB Combo 4</b> (Angle Level 2 with ALB4 Base for up to 4" OD) <b>Save \$15!</b> ..... | <b>\$89.90</b> |



ALB Combo

## HUTH



The Huth rotation dial indicators are the perfect companion to large diameter tube bending applications such as exhaust, turbo, and cold air intake systems. The new 976 CC is used with all non Huth bend data cards and, as with the 996 dial, is the most accurate in the industry. Built with a rugged cast aluminum body and weighted indicator arm, they are sure to stand up in a rugged environment.

- 1" OD- 3" OD capacity
- 360° rotation
- Dimensions: 4-1/2" x 9"

|  |                 |
|--|-----------------|
| <b>996 Clockwise Rotation</b> (Huth bend cards) .....                | <b>\$180.50</b> |
| <b>976 CC Counter-Clockwise Rotation</b> (Non Huth bend cards) ..... | <b>\$180.50</b> |

## RADIUS CHECK GAUGE

This radius check gauge by Proline is a valuable addition to any metal shaper's tool box. Great for duplicating contours and assuring consistency in radiused sheet metal parts. Provisions for 0, .75", 1", 1.25", 1.5", 2", 3", 4", 6", 12", 24", 36" radii. CNC machined aluminum with durable black anodized finish.



|   |                |
|---|----------------|
| <b>Proline Radius Check Gauge</b> ..... | <b>\$30.00</b> |
|---|----------------|

## RADIUS GAUGE

These inside and outside radius measuring gauges are sure to speed up complicated calculations and fabrication of roll bent materials. We have two versions of the tool to accurately measure either the inside or outside radius of a piece. Applications such as handrails, spiral staircases, aircraft parts, boat railings, awnings, and more will benefit from this tool. An invaluable companion to any angle roll bending or plate roll machine.



|   |                 |
|---|-----------------|
| <b>Inside Radius ArcMaster</b> .....              | <b>\$115.99</b> |
| <b>Outside Radius ArcMaster</b> .....             | <b>\$115.99</b> |
| <b>ArcMaster Kit</b> (includes both gauges) ..... | <b>\$199.99</b> |

## BEND PROTRACTORS



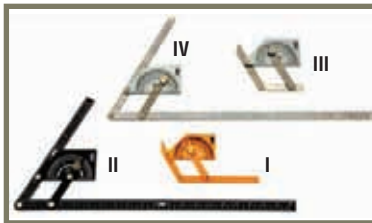
These high quality bend protractors will help you duplicate bends found in existing parts. They are available for five different radii and can be used as a template for one off parts.

- Easy set any degree of bend from 0°–90°
- Can be used as a bend template or degree indicator
- Available in 4", 5", 6", 7" and 8" radii
- Inner scale shows degree of bend
- Outer scale shows developed length for each degree of bend
- Lightweight aluminum for ease of use
- Precision CNC engraving

|   |                 |  |                 |
|---|-----------------|--|-----------------|
| <b>4" Centerline Radius Protractors</b> ..... | <b>\$100.00</b> | <b>7" Centerline Radius Protractors</b> .....                | <b>\$130.00</b> |
| <b>5" Centerline Radius Protractors</b> ..... | <b>\$110.00</b> | <b>8" Centerline Radius Protractors</b> .....                | <b>\$140.00</b> |
| <b>6" Centerline Radius Protractors</b> ..... | <b>\$120.00</b> | <b>Complete Set of all five protractors 4" thru 8"</b> ..... | <b>\$510.00</b> |

## ANGLE FINDERS

Find any inside or outside angle up to 360°. Choose from four different models.



|  |                |
|--|----------------|
| <b>Angle Finder I</b> (plastic) .....            | <b>\$9.95</b>  |
| <b>Angle Finder II</b> (aluminum w/pouch) .....  | <b>\$39.95</b> |
| <b>Angle Finder III</b> (stainless) .....        | <b>\$59.95</b> |
| <b>Angle Finder IV</b> (stainless w/pouch) ..... | <b>\$79.95</b> |

## TUBE BENDER SURVIVAL KIT



This kit features some of our best selling tube bending "Survival Tools." Included are 5 products to use with your tubing bender to reduce scrap material and save time!

- INCLUDES:**
- ALB Combo:** Helpful to track rotation of tubing
  - AF2:** Use this angle finder to check degree of bend
  - TC1:** Tube welding positioner to secure tubes during welding
  - Bend Tech:** Layout software to assist with part manufacturing
  - Paste Lube:** Use this to save wear on your bender tooling

|   |                 |
|---|-----------------|
| <b>Tube Bender Survival Kit w/ BT EZ</b> .....    | <b>\$209.95</b> |
| <b>Tube Bender Survival Kit w/ BT EZ-3D</b> ..... | <b>\$299.95</b> |
| <b>Tube Bender Survival Kit w/ BT Pro</b> .....   | <b>\$425.95</b> |
| <b>Tube Bender Survival Kit w/ BT SE</b> .....    | <b>\$549.95</b> |



## CIRCULAR COLD SAWS

Our circular cold saws are the quickest and most accurate way to cut tubing, bar stock and structural shapes without the mess of chop saws and much faster than band saws. The low speed blade with coolant produces a mill quality, burr free cut without heating the material. The head of the machine can easily be rotated to perform miter cuts or even slot down the end of a tube (350 model only).

We are proud to offer the Dake line of coldsaws. These industrial quality saws were chosen for their heavy duty spindles and gearboxes and for the superior warranty they offer. All the Dake saws come with a pedestal, blade, tool kit, coolant, adjustable stop and service manual. Call us for information on the complete line including semi-automatic and automatic applications.

- Head rotates 45° right and left of center for miter cutting
- Oversized spindle and gear assembly with steel spindle and bronze gear
- Additional ball bearing support of hardened and ground spindle shaft to prevent failure
- Cam activated vise with gib adjustment and anti-burr arm
- Bronze gear with tapered roller bearing support
- Reliable mechanical coolant pump with flow control adjustment
- 315 & 350 models feature 24v control circuit, E-stop switch, low voltage and thermal protection, optional pneumatic vise
- 350 model features an adjustable clutch, a third speed for non-ferrous applications, and 90° mitering

| Capacity           | Round Solid |        | Round Tube |        | Square Tube |        | Rectangle Tube  |                 |
|--------------------|-------------|--------|------------|--------|-------------|--------|-----------------|-----------------|
| Angle              | 90°         | 45°    | 90°        | 45°    | 90°         | 45°    | 90°             | 45°             |
| Cut 250            | 1-1/4"      | 1"     | 2-3/4"     | 2-3/8" | 2-1/2"      | 2-1/8" | 3-7/8" x 1-3/4" | 2-1/2" x 1-7/8" |
| Super Cut 315      | 2-1/8"      | 1-3/4" | 3-5/8"     | 3-1/2" | 3-1/4"      | 3-1/8" | 4-1/4" x 2-3/4" | 3-1/4" x 2-3/4" |
| Super Technics 350 | 3-3/8"      | 3"     | 4-3/4"     | 4"     | 4-1/8"      | 3-3/8" | 6-1/4" x 3-1/2" | 3-3/8" x 2-3/4" |

|                           |             |  |                     |                    |   |
|---------------------------|-------------|--|---------------------|--------------------|---|
| <b>Cut 250</b>            | 10" blade   | 1.2hp/110v                               | 44 rpm              | 378 lb.            | <b>\$2,850.00</b>                       |
| <b>Super Cut 315</b>      | 12.5" blade | 2.5hp, 110v 1 ph<br>2.5hp, 220/440v 3 ph | 44 rpm<br>22/44 rpm | 450 lb.<br>450 lb. | <b>\$4,650.00</b><br><b>\$4,650.00*</b> |
| <b>Super Technics 350</b> | 14" blade   | 3.5hp, 220/440v 3ph                      | 22/44/88 rpm        | 650 lb.            | <b>\$6,450.00*</b>                      |

\*add \$500.00 for 440 volt

## PORTABLE COLD SAWS

This lightweight bench top cold saw can be easily moved around the shop or taken to the job site. With a durable cast iron construction, the Wilton F225 can cut small solids, tubing and structural shapes quickly with a smooth, mill like finish.

- Bronze worm gear and hardened ground worm screw in an oil bath gear box
- Control handle with safety spring loaded trigger switch to start or stop the machine
- Coolant system
- Adjustable work stop
- Miter cuts from 0° to 45° to the left
- Blade sold separately

| Capacity | Round  | Square  |
|----------|--------|---------|
| 90°      | 2-1/2" | 2-5/16" |
| 45° Left | 2-1/8" | 2"      |

|                     |              |
|---------------------|--------------|
| Model Number:       | F225         |
| Motor:              | 1 hp         |
| Blade Speed (rpm):  | 50           |
| Blade Size (mm):    | 225 x 32 x 2 |
| Maximum Blade Size: | 9"           |
| Vise Opening Max.:  | 2-3/4"       |
| Weight (lbs.)       | 84           |



F225 Portable Cold Saw . . . . . See Website for Promo Pricing! ~~\$1,049.00~~

**METAL CUTTING SAWS**

The Evolution Raptor Chop Saw is unlike conventional saws. Utilizing circular style blades, the cut quality, blade life, and safety factors are much better than abrasive cut off machines. The Raptor is also cleaner to operate, and builds far less heat in the material that is being cut. Evolution backs them with a three year warranty, and offers 4 varieties of blades available for most cutting applications.

- 5-1/8" round, 4-3/4" square, and 4-3/4" x 7-1/4" rectangular capacity
- Miters up to 45°
- High quality construction
- Will cut stainless, aluminum, steel and sheet metal

|                    |                     |
|--------------------|---------------------|
| Blade Size         | 14"                 |
| Arbor Size         | 1"                  |
| Weight (lbs)       | 50                  |
| Watts              | 2200, 110v, 50-60hz |
| Amps               | 15                  |
| RPM                | 1300                |
| Dimensions (H W D) | 22" x 22" x 12-3/4" |



**380 Raptor Chop Saw** ..... \$425.00



The Evolution line of saws cover many applications from thin sheet metal to 1/2" thick plate! Cuts tubing, angle iron, metal grating, channel, roofing, fencing, frames and more. It is much cleaner, faster, and safer than torches, portabands and other methods. The Evolution saw line offers two sizes of machines that are covered by a three year manufacturer's warranty.

- Clean cutting, collects virtually all chips and sparks
- Lightweight only 14 or 20 lbs, depending on model
- Cutting depth up from 2" or 3-1/4", depending on model
- Spindle lock for fast easy blade changes
- Bevels up to 45° on 230 Xtreme model
- Dry cutting for minimal clean up
- High quality construction
- Sturdy carrying case
- Overload switch
- Laser guide on 230 Xtreme model

**Evolution 180V2 7" Metal Cutting Saw** (110v, blade included) ..... \$199.95

**Evolution 230 Xtreme 9" Metal Cutting Saw** (110v, blade included) ..... \$395.00

**CORDLESS BAND SAW**

The X-Band cordless bandsaw works great for cutting tube. Light enough for one-handed operation and small enough to get into awkward areas.

- INCLUDES:**
- X-Band cordless portable band saw
  - 2) Bi-Metal blades
  - 1 hr charger
  - Rugged plastic carrying case
  - 2) 2.0 amp/hr 18v NiCad batteries



**STX 250C Battery Operated Portable Band Saw Kit** ..... \$319.99

**MAG BRUSH**



The Mag Brush helps pick up filings and chips or even small parts by the use of a powerful magnet. Simply pull the plunger out to release over a bin or wastebasket. Saves time and money in cleanup. So handy you'll want one by all your machines.

**Mag Brush** (15" length) ..... \$12.00

**Super Mag Brush** (36" length) ..... \$79.95

## PORTABLE BAND SAWS



EV90

Kama has designed and built these bandsaws to give the user the most precise bandsaw cutting available. The heart of this machine is a heavy duty, precision machined aluminum casting with a high power motor and double gear reduction drive train. All of this comes in a compact size that can easily be moved around the shop or taken to a job site.

| Model   | Capacity | Blade Size     | Speeds    | Motor      | Mitering    | Weight  |
|---------|----------|----------------|-----------|------------|-------------|---------|
| AD105   | 4" round | 44-7/8" x 1/2" | 0-330 fpm | 1800w 110v | 45° Rt      | 42 lbs. |
| EV88    | 6" round | 56-5/8" x 1/2" | 0-330 fpm | 1800w 110v | 45° Rt      | 88 lbs. |
| EV90-91 | 6" round | 56-5/8" x 1/2" | 0-330 fpm | 1800w 110v | 45° Lt & Rt | 88 lbs. |

|                                     |            |
|-------------------------------------|------------|
| AD105S Portable Bandsaw .....       | \$999.95   |
| AD105P Hand Held Model .....        | \$449.95   |
| EV88 Mitering Saw .....             | \$1,399.95 |
| EV90 Dual Mitering Saw (shown)..... | \$1,699.95 |
| EV91S Dual Mitering/Vertical .....  | \$2,099.95 |

## HORIZONTAL BAND SAWS

These heavy-duty horizontal band saws from Dake have features normally only available on much more expensive machines. The heavy cast bed and housing makes for accurate and vibration free cuts while the low voltage controls, auto shut off and overload protection provide operator safety and machine longevity. These saws are covered by Dake's standard one-year warranty and come with the following standard equipment.

- Rugged gear box with bronze and steel gears
- Hydraulic control for down feed with locking valve
- Quick release vise and hand wheel action lead screw
- Chip brush blade cleaner
- Re-circulating coolant system

### DAKE



SE 712

| Model | Capacity | Blade Size  | Speeds         | Motor       | Mitering      | Weight   |
|-------|----------|-------------|----------------|-------------|---------------|----------|
| SE712 | 7" round | 93" x 3/4"  | 85/130/180/235 | 3/4 hp 110v | 56 x 21 x 39h | 350 lbs. |
| SE912 | 9" round | 103.5" x 1" | 98/164/246/328 | 1 hp 110v   | 56 x 21 x 41h | 520 lbs. |

|  |            |
|--|------------|
| SE712 Horizontal Band Saw (110v) ..... | \$1,425.00 |
| SE912 Horizontal Band Saw (110v) ..... | \$2,100.00 |



3230-K

### WILTON

The Wilton 5" x 8" bandsaws have a steel heat-treated worm driving a bronze worm gear to give smooth and quiet operation. And, the oil bath drive train extends the production life of the machine. The blade guides adjust in three planes and the sliding blade guide arm allows close positioning to the cut.

- Adjustable hydraulic feed system
- Adjustable ball bearing guides
- Heat treated steel worm gear and bronze drive gear
- Automatic shut off at end of cut
- Handle & wheels for convenient moving to various work stations

| Model       | Capacity | Blade Size | Speeds     | Motor       | Weight  |
|-------------|----------|------------|------------|-------------|---------|
| 3130/3230-K | 5" round | 68.5"      | 85/125/200 | 1/2 hp 115v | 165 lbs |

|   |  |
|---|--|
| 3230-K Wet Cutting Horizontal Band Saw (115v) ..... | See Website for Promo Pricing! <del>\$775.00</del> |
| 3130 Dry Cutting Horizontal Band Saw (115v) .....   | See Website for Promo Pricing! <del>\$675.00</del> |

**MITERING HEAD BAND SAWS**

Kama has designed and built these bandsaws to give the user the most precise bandsaw cutting available in a machine that is quiet, yet powerful, and uses shop space very efficiently. The heart of this machine is a heavy duty, precision machined aluminum casting onto which is mounted a high power motor and double gear reduction drive train. The result is power and vibration free precision from the bandsaw blade to the cutting point.

- 6-3/4" capacity
- 2 speed gear drive
- 60° Mitering
- Integral coolant system



|  |                   |
|--|-------------------|
| <b>EV 996-2301 Stationary Bandsaw</b> (230v 1ph) .....                       | <b>\$3,095.00</b> |
| <b>EV 996-2303 Stationary Bandsaw</b> (230v 3ph) .....                       | <b>\$3,095.00</b> |
| <b>EV 996-1101 Stationary Bandsaw</b> (110v 1ph) .....                       | <b>\$3,195.00</b> |
| <b>EV 97 230v Single Phase Semi-Automatic with Air Power Down Feed</b> ..... | <b>\$3,795.00</b> |

**DAKE**



These industrial duty mitering head band saws swivel up to 60° so your material doesn't have to and their relatively small footprint helps out where space is limited. Each machine uses a 1" blade for the most accurate cut and are driven by a direct drive gear box. A hydraulic down feed with a lock out push/pull control and adjustable balanced head makes for smooth and simple repetitive operation.

- Low voltage controls meet CE standards
- End of cut and blade breakage shut off
- Quick cam lock vise
- Chip brush blade cleaner
- Re-circulating coolant system
- Pre-set blade tension stop

| Model   | Capacity                    | Blade Size | Speeds  | Motor        | Mitering      | Weight   |
|---------|-----------------------------|------------|---------|--------------|---------------|----------|
| ZIP28   | 8.75" round, 10" x 6" rect. | 97.5" x 1" | 214     | 2 hp, 1 ph   | 39 x 69 x 71h | 441 lbs. |
| ZIP30   | 9" round, 9.5" x 6" rect.   | 96.5" x 1" | 112/230 | 1 hp, 3 ph   | 33 x 58 x 61h | 728 lbs. |
| TRAD301 | 10.5" round, 13" x 10" rect | 115" x 1"  | 118/236 | 1.3 hp, 3 ph | 43 x 72 x 70h | 948 lbs. |

|  |                   |
|--|-------------------|
| <b>ZIP28 Mitering Head Band Saw</b> (110v 1ph) .....   | <b>\$3,275.00</b> |
| <b>ZIP30 Mitering Head Band Saw</b> (220v 3ph) .....   | <b>\$6,875.00</b> |
| <b>TRAD301 Mitering Head Band Saw</b> (220v 3ph) ..... | <b>\$9,950.00</b> |

**VERTICAL BAND SAWS**

These quality vertical saws by Dake are built to last. With capacities up to 41", we have a saw to fit any job and budget. Options like blade welders, power feed and tilt tables make these machines a great value. The 14-10 and Trademaster are built in the USA, the F-16 is European and all are covered by Dake's one year warranty. Please call us for machines not listed.



| Model       | Blade Width | Blade Speed    | Motor  | Throat Cap. | Work Height | Weight     |
|-------------|-------------|----------------|--------|-------------|-------------|------------|
| 14-10       | 1/4" - 1/2" | 70/140/270/540 | 1 hp   | 14"         | 10"         | 625 lbs.   |
| F-16        | 1/8" - 5/8" | 60-590         | 1.5 hp | 16"         | 11"         | 975 lbs.   |
| Trademaster | 1/4" - 1"   | 50-500         | 1.5 hp | 19.5"       | 12"         | 1,150 lbs. |

|   |                   |
|---|-------------------|
| <b>14-10</b> – tilt table, 4 speeds, high performance at a low price (110/220v 1ph or 220/440v 3ph) ..... | <b>\$4,500.00</b> |
| <b>F-16</b> – fixed table, variable speed, digital tach, large capacity (220v 1ph or 3ph) .....           | <b>\$5,950.00</b> |
| <b>Trademaster</b> – power feed tilt table with 11" travel, variable speed, work lamp (220/440 3ph) ..... | <b>\$8,700.00</b> |

## EDWARDS IRON WORKERS



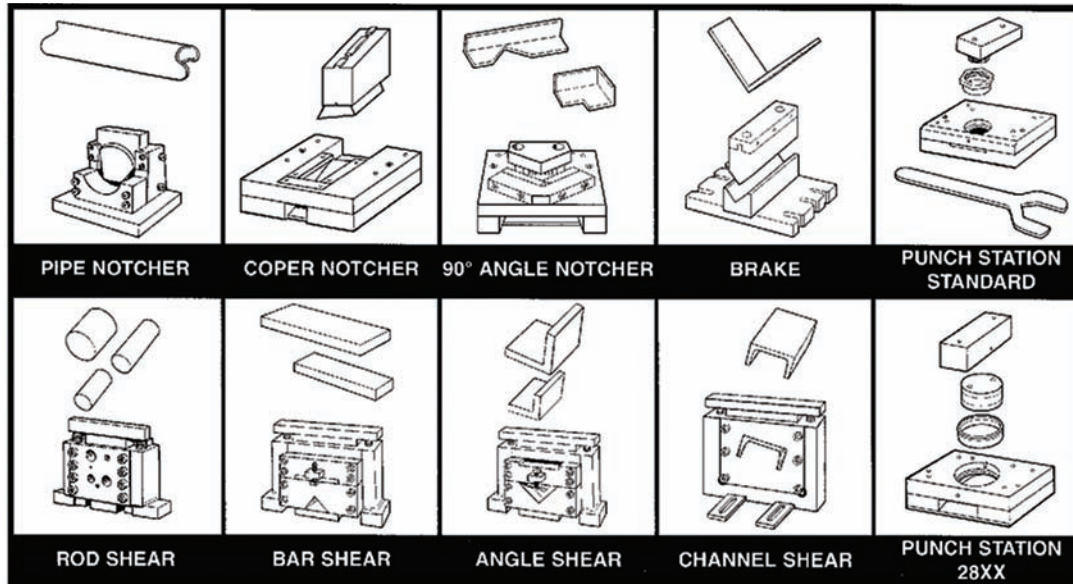
JAWS IV

The Edwards Ironworker is a compact, well designed, well built, uncomplicated hydraulic ironworker. All machines work on the same principle with the center pulling straight down on the work. All tooling moves in a perfectly vertical way. There is no arc of tool against material to be cut or punched. All stations operate as a unit so you can move from punch to shear to notcher to angle shear without changing or adding any new equipment.

The line starts with the "JAWS JR." 25 Ton unit which gives you a dedicated punch station and one open station for tooling of your choice (See below). The 50 and 55 ton units also include plate and angle shears. The 65 ton machine has a huge 24" plate shear, angle shear, coper notcher, punch station and open station as well. Please call for more information on other models up to 120 tons and available options.

| Capacities  | Jaws Jr 25 ton   | Jaws IV 50 ton  | Jaws IV 55 ton      | Jaws V 65 ton        | Jaws IV 100 ton    |
|-------------|------------------|-----------------|---------------------|----------------------|--------------------|
| Punch       | 1" through 5/16" | 1" through 5/8" | 1-1/6" through 5/8" | 1-1/16" through 3/4" | 1-1/16" through 1" |
| Plate Shear | 1/4" x 6" (opt.) | 1/2" x 10"      | 3/8" x 14"          | 3/8" x 24"           | 3/4" x 14"         |
| Angle Shear | 2" x 1/4" (opt.) | 4" x 1/4"       | 4" x 1/4"           | 5" x 3/8"            | 6" x 1/2"          |

- Jaws Jr. 25 ton (110/220v 1hp 1ph) ..... \$4,296.00
- Jaws IV 50 ton (220v 5hp 3ph, add \$200 for 1ph) ..... \$6,686.00
- Jaws IV 55 ton (220v 5hp 3ph, add \$300 for 1ph)..... \$7,296.00
- Jaws V 65 ton (220v 5hp 3ph or 1ph) ..... \$13,396.00
- Jaws IV 100 ton (220v 5hp 3ph or 1ph) ..... \$14,996.00



### TOOLING SETS

These tooling sets are designed for use in iron workers and presses. They can be custom designed for nearly any application. Please call us for pricing.



### MULTI-SHEAR

This versatile tool is a great value and works in many ironworkers and presses. It includes a 2" x 2" x 1/4" angle shear, square and round rod shears up to 1" and a 6" x 1/4" plate shear. Works great in conjunction with the Jaws ironworkers.

- Multi-Shear ..... \$790.00

## SCOTCHMAN IRON WORKERS

Scotchman Ironworkers are versatile and dependable ironworkers with a variety of unique options. Scotchman's unique component tool design will accept a large range of standard tools and special tooling, and can be used as a power source where the customer builds his own tooling. Punch, angle, and flat bar shears are standard, but the beauty of this machine is that it can adapt to whatever your customer brings in the door.



**Porta-Fab**

- 45 ton punch station (1-1/8" in 1/2")
- Keyed punch ram for safety
- 4-1/4" throat depth
- 2" die holder
- Punch nut with wrench and stripper
- One round punch & die: max. dia. 1"
- Adjustable electric stroke control with scale
- Three-in-one combination tool
- Angle shear capacity: 3" x 3" x 5/16" at 90° and 2" x 2" x 1/4" at 45°
- Bar shear capacity: 3/8" x 6"
- Rod shear capacity: 3/4" round
- Tool table work area
- Machine stand with punch & die & tooling storage rack
- 110v, 1ph electric
- All guards necessary to comply with ANSI B 11-5 standards
- One-year warranty
- Made in the USA

**Porta-Fab 45 ton Ironworker** (includes 3-in-1 tool) ..... **\$5,560.00**

- 50 ton punch station with 3-station revolving turret (1-1/4" in 1/2")
- Keyed punch ram for safety
- 4" throat depth
- Three 2" die holders, three punch nuts with wrench and three strippers
- One round punch & die: Max. dia. 1" adjustable stroke control
- Angle shear 4"x 4" x 3/8" at 90° and 2" x 2" x 3/8" at 45°
- 14" flat bar shear with 4-way reversible
- Blade (3/4" x 4", 1/2" x 8", 3/8" x 10", 1/4" x 14")
- Rectangular notcher, (2-1/2" x 3" x 5/16", 2-1/2" x 2-3/4" x 3/8")
- Tool table work area
- Electrical box supplied with emergency palm button and lock-out tag-out accommodations
- 230/460v, 3 phase electric (must specify voltage)
- All guards necessary to comply with ANSI B 11-5 standards
- Forklift accommodations
- One-year warranty
- Made in USA



**5014-TM**

**5014-TM 50 ton 3 Station Turret Ironworker** (less angle shear) ..... **\$11,185.00**

## HAND NOTCHER

The Tennsmith Model 16-18 is a versatile, heavy-duty bench tool for shearing, notching and piercing work. The heavy cast iron construction allows the notcher to be used to side shear 6 inches of material to its rated capacity; and the throat behind the upper ram is beveled on one side to permit long strips of material to pass without restriction. Notches of more than 90° can be accomplished in two operations. The upper blades can be reversed for a "nose to heel" cutting action, and the ram stroke can be controlled by means of two set screws to permit limited throat piercing and knockout operations.

Optional box flange blades are available for reinforced box, pan and chassis corners. Front gauges and large surface, ground work table with inlaid scales are standard features.



- 16-18 Bench Hand Notcher with Regular Blades** ..... **\$895.00**
- 16-18 Bench Hand Notcher with Box Flange Blades** ..... **\$985.00**
- 16-18 Optional Floor Pedestal** ..... **\$295.00**

## DIMPLE DIES

These dimple dies from JMR, also known as flare tools, are used to improve the strength and appearance of a panel and will flare or flare an existing hole in sheet metal up to .125" 4130 Chrome Moly. Each size is self centering, so they work great in a press or Iron Worker. Precision machined from hardened tool steel for years of use.



|  |                 |
|--|-----------------|
| <b>DD1009 9 Piece Dimple Die Set</b> (1/2", 3/4", 1", 1-1/4", 1-1/2", 1-3/4", 2", 2-1/2" and 3") ..... | <b>\$795.00</b> |
| <b>DD1007 7 Piece Dimple Die Set</b> (1/2", 3/4", 1", 1-1/4", 1-1/2", 1-3/4", and 2") .....            | <b>\$525.00</b> |
| <b>DD1006 6 Piece Dimple Die Set</b> (1/2", 1", 1-1/2", 2", 2-1/2", and 3") .....                      | <b>\$575.00</b> |
| <b>DD1005 5 Piece Dimple Die Set</b> (1/2", 1", 1-1/2", 2" and 2-1/2") .....                           | <b>\$425.00</b> |
| <b>DD1004 4 Piece Dimple Die Set</b> (1/2", 1", 1-1/2", and 2") .....                                  | <b>\$295.00</b> |
| <b>DD1003 3 Piece Dimple Die Set</b> (3/4", 1-1/4", and 1-3/4") .....                                  | <b>\$250.00</b> |
| <b>DD1002 2 Piece Dimple Die Set</b> (2-1/2", 3") .....  | <b>\$375.00</b> |

## H-FRAME PRESSES

Like all Dake brand products, these presses are furnished complete and backed by factory support and warranty.

- Fast, efficient single speed hand pump with adjustable mounting for maximum ergonomic operation
- Large diameter, single acting polished piston with internal spring return to eliminate external pinch points
- Convenient top mounted gauge reads in tons and psi to monitor pressure
- Furnished with both a threaded flat ram nose for pressing and straightening work, and a step reduced ram nose for bearing and bushing work
- Larger models available



| Model | Number | Capacity | Stroke | Width Between Uprights | Width Bet. Tbl Chnls | Min Ram to Table | Max Ram to Table | Ram Travel | Floor Space | Height | Weight   |
|-------|--------|----------|--------|------------------------|----------------------|------------------|------------------|------------|-------------|--------|----------|
| B-10  | 72200  | 10       | 6"     | 16-3/4"                | 3"                   | 4"               | 16"              | 6"         | 24" x 18"   | 36"    | 137 lbs. |
| F-10  | 72210  | 10       | 6"     | 16-3/4"                | 3"                   | 0-4"             | 38"              | 6"         | 26" x 24"   | 60"    | 149 lbs. |

|   |                 |
|---|-----------------|
| <b>B-10 Benchtop H-Frame Press</b> .....    | <b>\$260.00</b> |
| <b>F-10 Floor Model H-Frame Press</b> ..... | <b>\$390.00</b> |



## HORIZONTAL PRESS BENDERS

Stierli Bender is a highly productive versatile and yet compact horizontal bending and straightening machine. This machine works in a variety of applications with simple and rapid tool interchange. The large and spacious work platform gives maximum stability for ease of bending larger components, and the unit is stable while remaining mobile.

| Working Power | Tool Height | Adjustable Stroke | Bending Output Flat | Ram Speed  | Motor Power | Weight   |
|---------------|-------------|-------------------|---------------------|------------|-------------|----------|
| 9.5 tons      | 4"          | 0-4-3/4"          | 4" x 3/8"           | 40"/minute | 1.5 hp      | 530 lbs. |

|                                      |                    |
|--------------------------------------|--------------------|
| <b>85 SB Bender (220v 3ph)</b> ..... | <b>\$11,403.00</b> |
|--------------------------------------|--------------------|

*Larger models available — Call for details!*



## LOUVER PRESS KIT

The Mittler Brothers Louver Press is a profit making tool. Each kit includes a 10 ton hydraulic ram, precision slide assembly, die mounting plate, one set of your choice of louver dies, bill of materials, blueprints, and complete instructions for building a 48" throat depth press.

- Punches steel or aluminum
- Up to 5" long louvers
- Punches up to 2" dia. hole
- Press brake 3/16" mild steel
- 16 gauge capacity



|  |                   |
|--|-------------------|
| <b>Complete Louver Punch Kit</b> (with choice of one louver punch set) ..... | <b>\$1,575.00</b> |
| <b>Additional 1", 2", or 3" Louver Die</b> .....                             | <b>\$425.00</b>   |
| <b>Additional 4" or 5" Louver Die</b> .....                                  | <b>\$450.00</b>   |
| <b>Punch and Flare Adapter Kit</b> .....                                     | <b>\$80.00</b>    |
| <b>90° Brake Kit</b> .....   | <b>\$80.00</b>    |
| <b>Air/Hydraulic Pump w/20' Hose &amp; Fitting</b> .....                     | <b>\$495.00</b>   |

## 10 TON BENCH PRESS

This versatile tool is one of the latest offerings from Mittler Brothers and is sure to increase productivity. Use it with iron worker tooling or as a heavy duty arbor press. The 10 ton Bench Press can handle a 3" punch and flare or louver through 14 gauge mild steel. Can be used with most common hydraulic pumps.

- Accepts all MB bench press and louver press tooling
- Rugged construction
- 25" extra deep throat
- 6" tool opening
- 4" stroke, 10 ton cylinder
- Includes a slug ejector and spring loaded center



|  |                   |
|--|-------------------|
| <b>10 Ton Hydraulic Bench Press</b> .....        | <b>\$2,250.00</b> |
| <b>Floor Stand w/ Casters</b> .....              | <b>\$300.00</b>   |
| <b>Electric/Hydraulic Pump w/ 10' Hose</b> ..... | <b>\$1,610.00</b> |



## ROTARY MACHINE

This Pexto 622 forming machine offers a broad variety of shapes and capabilities in forming sheet metal for a combination of uses: beading, crimping, double seaming, turning, burring, wiring, elbow edging, flanging, and flattening. The 622 Series is equipped with the addition of a 7" deep throat for additional forming capabilities. (24 gauge mild steel capacity). The 622 includes 5 sets of rolls and gauges, or may be ordered without rolls as the 622LR.

|  |                 |
|--|-----------------|
| <b>622 Pexto Rotary Machine</b> (includes Pexto 622, bench mounting base, and rolls) ..... | <b>\$995.00</b> |
| <b>622LR Pexto Rotary Machine</b> (less rolls) .....                                       | <b>\$820.00</b> |

## BENCH PRESS



- Speeds up metal fabrication
- Fits punch & flare tools
- Rugged construction
- Bronze bushings for long life
- Max capacity: 3" dia. punch & flare—16 gauge steel
- 12" deep throat
- Can be used as a standard arbor press
- Uses standard punch & dies for round, square, & oblong holes

|  |          |
|--|----------|
| Standard Bench Press (3 ton) . . . . .         | \$525.00 |
| Hydraulic Bench Press (5 ton) . . . . .        | \$675.00 |
| Air/Hydraulic Pump, Hose and Fitting . . . . . | \$470.00 |

### ACCESSORIES

|   |              |
|---|--------------|
| <b>Complete Louver Assembly</b><br>(with one die & tooling adapter) . . . . . | \$580.00     |
| <b>Additional Louver Dies</b> (1", 2", or 3") . . . . .                       | \$425.00 ea. |
| (4", or 5") . . . . .   | \$450.00 ea. |
| <b>90° Brake Kit</b> . . . . .  | \$165.00     |
| <b>Corner Notcher Kit</b> . . . . .   | \$165.00     |
| <b>Shear Kit</b> . . . . .  | \$165.00     |
| <b>1/4", 1/2", 3/4", 1" Corner Radius Punch</b> . . . . .                     | \$250.00     |

### PUNCH & DIES

|   |             |
|---|-------------|
| <b>Round Punch &amp; Dies</b> (heat treated tool steel with 1/32" die clearance for material up to 16 ga. mild steel) |             |
| 3/8", 1/2", 5/8", 3/4" . . . . .  | \$65.00 ea. |
| 2-5/8" Hole Punch (for gauge holes in dash) . . . . .   | \$95.00     |
| <b>Punch &amp; Die Mount Kit</b> . . . . .  | \$140.00    |



## PUNCH & FLARE TOOLS

Just drill a pilot hole for the draw bolt, then apply the tool and tighten the bolt for a smooth, flared hole in one easy step. Our Punch & Flare tool can also be used as a hole punch, simply by using the punch and male flare.

|   |          |
|---|----------|
| 1" . . . . .                                  | \$95.00  |
| 1-1/4" . . . . .                              | \$95.00  |
| 1-1/2" . . . . .                              | \$110.00 |
| 1-3/4" . . . . .                              | \$110.00 |
| 2" . . . . .                                  | \$120.00 |
| 2-1/2" . . . . .                              | \$120.00 |
| 2-5/8" (excellent for aerosol cans) . . . . . | \$125.00 |
| 3" . . . . .                                  | \$135.00 |

### SETS

|                            |          |
|----------------------------|----------|
| Set 1" to 2-1/2" . . . . . | \$580.00 |
| Set 1" to 3" . . . . .     | \$710.00 |

## FLARE TOOLS

Now, in one easy step you can flare sheet metal panels for improved strength and appearance. Precision machined from heat-treated steel for years of use. 16 gauge steel is the maximum thickness.



|                  |         |
|------------------|---------|
| 1/2" . . . . .   | \$40.00 |
| 5/8" . . . . .   | \$40.00 |
| 3/4" . . . . .   | \$40.00 |
| 1" . . . . .     | \$40.00 |
| 1-1/4" . . . . . | \$40.00 |
| 1-1/2" . . . . . | \$45.00 |
| 1-3/4" . . . . . | \$45.00 |
| 2" . . . . .     | \$45.00 |
| 2-1/2" . . . . . | \$45.00 |

|                              |          |
|------------------------------|----------|
| Set 1/2" to 2-1/2" . . . . . | \$320.00 |
|------------------------------|----------|

## OPTIONAL ACCESSORIES FOR BENCH PRESS



Louver Die



90° Brake



Corner Notcher



Shear

## SHEET METAL CUTTERS

Sluggo sheet metal cutters easily outperform standard hole saws by cutting a more accurate hole up to three times faster with far superior tool life. These precision ground cutters can be used in a hand drill or drill press and will leave a smooth finish with minimal material deformation. Their 1/4" depth of cut keeps vibration and distortion to a minimum. Sizes are available individually from 3/8" to 3" OD. Contact us for applications not listed.



- SMS000 Sheet Metal Cutter Set**  
(Includes sizes 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4" with arbor, pilot pin, and carrying case) ..... **\$89.95**
- SM000VS Sheet Metal Cutter Set**  
(Includes sizes 1", 1-1/4", 1-1/2", 1-3/4", 2", with two arbors, and carrying case) ..... **\$185.00**
- SM000 Sheet Metal Cutter Set**  
(Includes sizes 7/8", 1-1/8", 1-3/8", 1-3/4", 2", 2-1/2" with two arbors, and carrying case) ..... **\$195.00**



## DRILLING JIG

The Center-It drill jig is a must for drilling holes in tubing and pipe. It is specifically designed for use in a drill press. The V-block bolts to the table and the angled flats hold the material firmly in place so holes can be drilled without center-punching or clamping.

- Holds round tube and pipe
- Dimensions: 5" long x 4" wide x 1-3/4" tall
- Made of heavy aluminum extrusion

CI-1 Center-It Jig ..... **\$16.99**

## DRILLING GUIDE

The Drill-Rite jig is designed to allow the user to drill precise holes in tubing, pipe and round stock using a portable electric hand drill. Originally developed for use in the aircraft industry, this jig will allow you to quickly and easily drill holes in pre-existing chassis tubing, framework, or any other hard to reach area.

- Fits any round tube, pipe, or round stock material from 1/2" to 2-1/2" in diameter
- Includes hardened drill bushings for 3/16" and 1/4" holes
- Built from lightweight, high quality aircraft grade aluminum



Drill-Rite Guide ..... **\$54.95**

**NEW!**

## TUBE DRILLING LEVEL KIT

This kit will continue to find many uses in any shop. The six included pins will thread into any of the 4 levels to drop into drilled holes and give an accurate reference point for the next drilling operation. The "C" shaped bracket attaches to round tubing or pipe, and can be used to track rotation between copes on each end of a tube, or to track rotation of tubing while building a multi-bend part.

- 4 levels included
- Tubing up to 2" can be held in the "C" bracket
- Other pin sizes available
- 6 pins included (1/8", 3/16", 1/4", 5/16", 3/8", 1/2")



Tube Drilling Level Kit ..... **\$79.95**

## HAND PUNCHES



5 Jr



XX (shown with optional bench mount)

These Light Duty Portable Punches by Roper Whitney can save a lot of time over drilling sheet metal and are much more accurate. Hardened, machined bearing surfaces are used in these tools to provide dependable long life. Both punches have optional bench mounting bases and come with a standard assortment of round punches and dies in a durable plastic box. See the chart at the bottom of the page for more punch options.

- 1.2 tons of punching power
- Smallest available
- Adjustable stop gauge
- Plastic case with die organizer



The 5 Jr punch has a standard 1-3/4" throat depth, while the XX has a deep throat configuration to punch up to 3-1/4" from the edge with up to an 1-3/8" flange.

*Please call us for special punch and die applications. Below are some typical sizes and shapes.*

## PUNCHES & DIES

| Model | Type O         | Type M                         | Type N                          | Type P                         | Type R        | Type S        | Type T        | Type D                          |
|-------|----------------|--------------------------------|---------------------------------|--------------------------------|---------------|---------------|---------------|---------------------------------|
| 5 Jr  | 1/16" - 17/32" | 1/8" x 3/16" -<br>7/16" x 1/2" | 1/8" x 3/16" -<br>5/16" x 3/8"  | 1/8" x 3/16" -<br>7/16" x 1/2" | 1/8" - 17/64" | 3/16" - 3/8"  | 3/16" - 3/8"  | 3/16" x 1/8" -<br>17/32" x 1/2" |
| XX    | 1/16" - 9/32"  | 1/8" x 3/16" -<br>1/4" x 9/32" | 1/8" x 3/16" -<br>5/32" x 7/32" | 1/8" x 3/16" -<br>1/4" x 9/32" | 1/8" - 3/16"  | 5/32" - 7/32" | 5/32" - 7/32" | 3/16" x 1/8" -<br>9/32" x 1/4"  |

- 5 Jr Hand Punch Kit (includes one 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", and 9/32" round punch and die, in plastic case) . . . . . \$80.00
- 5 Jr Bench Mounting Base (not included with kit) . . . . . \$28.00
- XX Hand Punch Kit (includes one 5/32", 7/32", 9/32", 11/32", 13/32", 15/32", and 17/32" round punch and die, in plastic case) . . \$237.00
- XX Bench Mounting Base (not included with kit) . . . . . \$44.00

## MEDIUM DUTY HAND PUNCHES



7A

Medium Duty Portable Punches are for medium punching power (up to 5 tons). They are highly portable and of a size that will fit any tool chest or truck locker. The leverage design of these tools assures easy linear operation.

Maximum Rated Capacities:

- 7A - 2.5 tons
- 8 - 5 tons



8

These punches are similar except for punching capacity. Unlike other similar tools, these punches will punch and strip inside a 90° arc movement of the lever. And, the upper handle will not disengage when moved to either extreme.

- 7a Hand Punch (includes one 7/32" round punch and die, no substitutions) . . . . . \$280.00
- 7a Bench Mounting Base (not included with Punch) . . . . . \$88.00
- 8 Hand Punch (includes one 9/32" round punch and die, no substitutions) . . . . . \$374.00
- 8 Bench Mounting Base (not included with Punch) . . . . . \$116.00



## SHEET METAL BRAKES

These sheet metal brakes from Boyd-Built are available up to 12 foot in length. All models will bend at least 18 gauge steel or .063" aluminum, with heavier models available. They feature several items as standard equipment that are extra cost options on other brands such as:

- 1/2" steel plate construction
- Cam-Lock design
- Bronze hinge bushings
- Adjustable tension bars
- Adjustable counterweights
- Radius bar option

| Model                           | 4 ft.          | 6 ft.          | 8 ft.          | 10 ft.         | 12 ft.         |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|
| Mild Steel Capacity             | 16 ga. (.063") | 16 ga. (.063") | 18 ga. (.049") | 18 ga. (.049") | 18 ga. (.049") |
| Aluminum Capacity               | .090"          | .090"          | .063"          | .063"          | .063"          |
| Maximum Bend Length             | 48"            | 72"            | 96"            | 120"           | 144"           |
| Maximum Beam Lift               | 1-7/8"         | 1-7/8"         | 1-7/8"         | 1-7/8"         | 1-7/8"         |
| Beam Adjustment (front to rear) | 2"             | 2"             | 2"             | 2"             | 2"             |
| Minimum Reverse Bend            | 1/2"           | 1/2"           | 1/2"           | 1/2"           | 1/2"           |
| Minimum Flange @ Capacity       | 5/8"           | 5/8"           | 5/8"           | 5/8"           | 5/8"           |
| Weight                          | 565 lbs.       | 750 lbs.       | 895 lbs.       | 1,275 lbs.     | 1,790 lbs.     |

| Heavy Duty Models               | 6 ft. HD       | 8 ft. HD       | 10 ft. HD      |
|---------------------------------|----------------|----------------|----------------|
| Mild Steel Capacity             | 14 ga. (.075") | 16 ga. (.063") | 16 ga. (.063") |
| Aluminum Capacity               | .120"          | .090"          | .090"          |
| Maximum Bend Length             | 72"            | 96"            | 120"           |
| Maximum Beam Lift               | 1-7/8"         | 1-7/8"         | 1-7/8"         |
| Beam Adjustment (front to rear) | 2"             | 2"             | 2"             |
| Minimum Reverse Bend            | 1/2"           | 1/2"           | 1/2"           |
| Minimum Flange @ Capacity       | 5/8"           | 5/8"           | 5/8"           |
| Weight                          | 950 lbs.       | 1,295 lbs.     | 1,475 lbs.     |

|   |                   |
|---|-------------------|
| <b>4-Foot Sheet Metal Brake</b> .....                             | <b>\$1,795.00</b> |
| <b>6-Foot Sheet Metal Brake</b> (1" OD radius bar standard) ..... | <b>\$2,295.00</b> |
| <b>6-Foot Heavy Duty Sheet Metal Brake</b> .....                  | <b>\$2,695.00</b> |
| <b>8-Foot Sheet Metal Brake</b> (1" OD radius bar standard) ..... | <b>\$2,995.00</b> |
| <b>8-Foot Heavy Duty Sheet Metal Brake</b> .....                  | <b>\$3,395.00</b> |
| <b>10-Foot Sheet Metal Brake</b> .....                            | <b>\$4,550.00</b> |
| <b>10-Foot Heavy Duty Sheet Metal Brake</b> .....                 | <b>\$5,050.00</b> |
| <b>12-Foot Sheet Metal Brake</b> .....                            | <b>\$6,500.00</b> |



## THROATLESS SHEAR

This is the famous Beverly Shear that top custom car builders use. Throatless design lets you turn your work at any angle for straight, curved, even irregular cuts with ease and accuracy. Powerful leverage through rack and pinion gearing. Easily cuts 10 gauge mild steel and 14 gauge stainless. Tool steel blades (adjustable for wear) provide burr-free cuts. Drilled for work-bench mounting.

### B-1

- 18 lbs.
- 14 gauge mild steel capacity
- 18 gauge stainless capacity
- 18" height (less handle)
- 4-1/4" blade length

### B-2

- 36 lbs.
- 10 gauge mild steel capacity
- 14 gauge stainless capacity
- 15" height (less handle)
- 4-3/8" blade length

### B-3

- 58 lbs. **NEW!**
- 3/16" mild steel capacity
- 10 gauge stainless capacity
- 15" height (less handle)
- Adjustable hold down
- 5-3/8" blade length

|                                |                   |
|--------------------------------|-------------------|
| <b>B-1 Beverly Shear</b> ..... | <b>\$536.00</b>   |
| <b>B-2 Beverly Shear</b> ..... | <b>\$747.00</b>   |
| <b>B-3 Beverly Shear</b> ..... | <b>\$1,081.00</b> |

## BRAKES AND SHEARS

Van Sant Enterprises carries a full line of quality National Sheet Metal Machines. These heavy duty units use replaceable bushing at wear points and high chromium blades which withstand wear much better than standard blades. Optional equipment includes digital back gauge or programmable digital back gauge. National makes shears up to 10'...1/4" hydraulic and brakes up to 10'...14 gauge. Please call for details and pricing.

### SHEARS

| Model No.          | Capacity | Cutting Length | Price       |
|--------------------|----------|----------------|-------------|
| N5216 (Foot Shear) | 16 ga.   | 52"            | \$3,300.00  |
| NA5216 (Air)       | 16 ga.   | 52"            | \$4,850.00  |
| NA5212 (Air)       | 12 ga.   | 52"            | \$7,800.00  |
| NH5216 (Hyd.)      | 16 ga.   | 52"            | \$5,850.00  |
| NH5212 (Hyd.)      | 12 ga.   | 52"            | \$9,400.00  |
| NH5210 (Hyd.)      | 10 ga.   | 52"            | \$11,400.00 |
| NH4825 (Hyd.)      | 1/4"     | 48"            | \$17,575.00 |
| NH7225 (Hyd.)      | 1/4"     | 72"            | \$22,700.00 |
| NH12025 (Hyd.)     | 1/4"     | 120"           | \$32,000.00 |



### HAND BRAKES

| Model No. | Bending Length | Gauge Capacity | Price      |
|-----------|----------------|----------------|------------|
| S4816     | 48-1/4"        | 16 ga.         | \$1,200.00 |
| N4812     | 49"            | 12 ga.         | \$3,350.00 |
| N7212     | 73"            | 12 ga.         | \$3,975.00 |
| N9616     | 97"            | 16 ga.         | \$3,600.00 |
| N9614     | 97"            | 14 ga.         | \$4,075.00 |
| N12016    | 121"           | 16 ga.         | \$5,450.00 |
| N12014    | 121"           | 14 ga.         | \$5,950.00 |

### BOX & PAN BRAKES

| Model No. | Bending Length | Gauge Capacity | Price      |
|-----------|----------------|----------------|------------|
| U4816*    | 48-1/4"        | 16 ga.         | \$1,250.00 |
| U4812     | 49"            | 12 ga.         | \$3,450.00 |
| U7216     | 73"            | 16 ga.         | \$4,275.00 |
| U7212     | 97"            | 12 ga.         | \$4,750.00 |
| U9616     | 97"            | 16 ga.         | \$5,300.00 |

\* Bench top model floor stand available . . . . . \$225.00



Photo courtesy of Dave Perewitz Cycles



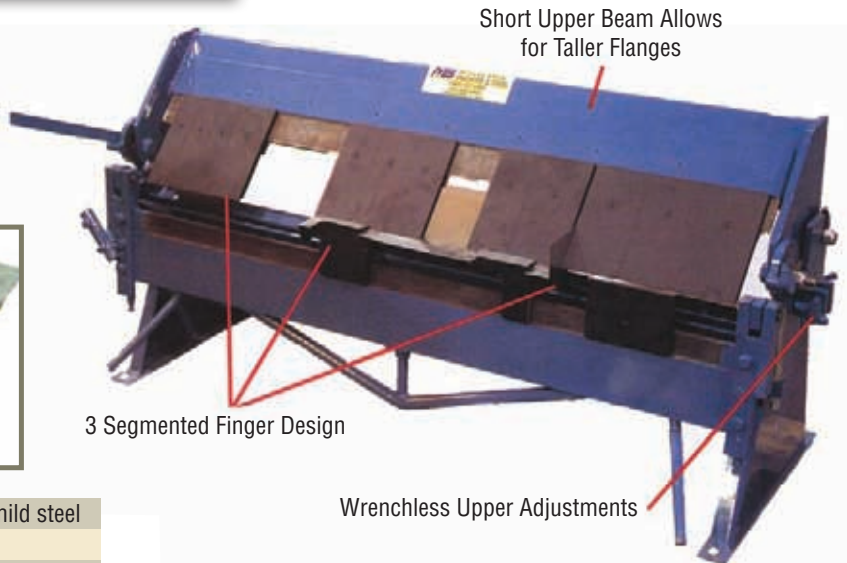
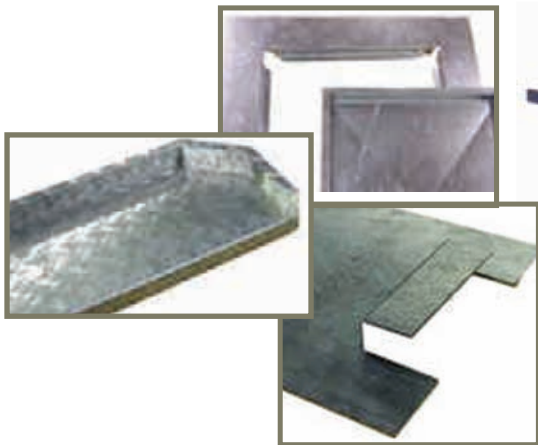
**NEW!**

### KICK SHEAR

This Tennsmith foot shear is made in the US and is considered the standard of the industry. It features ground-alloy tool steel blades. Both the upper and lower blades have a 2° edge relief and the lower blade has an additional 1° face relief for maximum material penetration with minimum effort. Cast steel construction ensures a lifetime of use.

52 Kick Shear (16 ga. 52") . . . . . \$2,660.00

## ULTIMATE BOX & PAN BRAKE



|                          |                          |
|--------------------------|--------------------------|
| Capacity                 | 16 ga / 18 ga mild steel |
| Bending Length           | 48" / 72"                |
| Maximum Depth of Box     | 3-1/2"                   |
| Maximum Lift of Beam     | 1-1/4"                   |
| Front to Rear Adjustment | 7/8"                     |
| Minimum Reverse Bend     | 1/2"                     |
| Minimum Flange Xapacity  | 1"                       |
| Shipping Weight          | 550/850 lbs.             |

**Ultimate Box & Pan Brake (48" benchtop) . . . . \$2,950.00**  
**48" Floor Stand . . . . . \$275.00**  
**Ultimate Box & Pan Brake (72" floor) . . . . . \$5,250.00**

The Ultimate Box & Pan Brake features a unique "3 Finger" design. This incorporates moveable fingers on the bed and apron, as well as the usual upper fingers. This new design allows the operator to make bend combinations that were extremely difficult, if not impossible, in the past. Unit ships standard with: 1", 2", 3", 6", 12", 24" Upper Fingers, Bed Fingers, and Apron (leaf) Angles. Contact us for optional accessories.



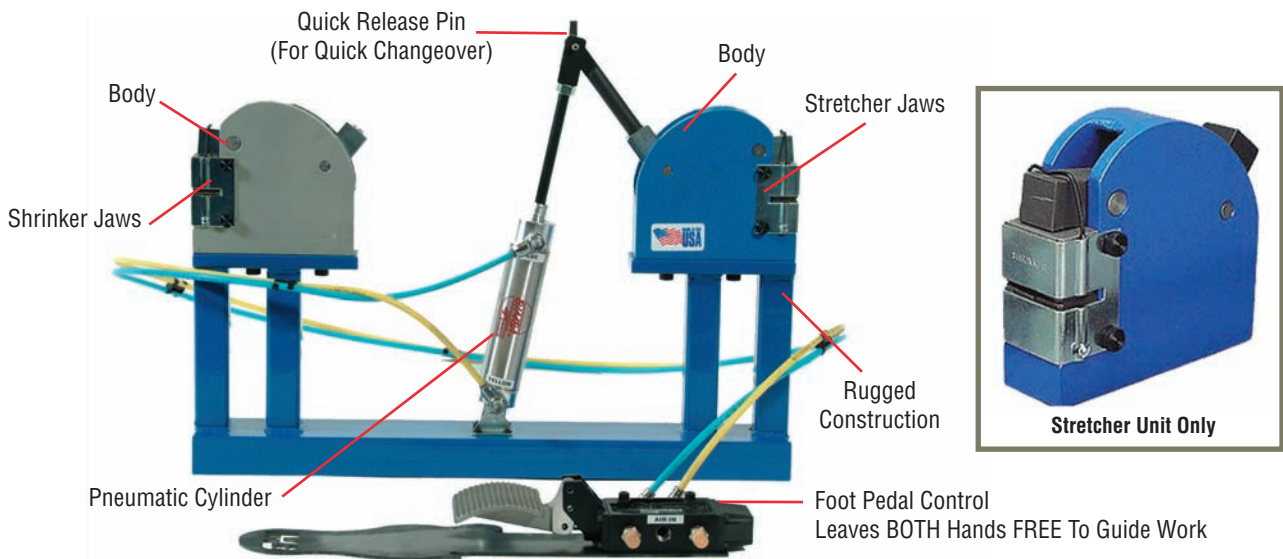
## MANUAL SLIP ROLLS

Tennsmith's slip rolls combine precision-turned, ground and polished, high carbon steel rolls with heavy-duty, cast iron end frames, and welded steel base to make an accurate and durable forming tool. Convenient operating features include large roll adjusting screws, scales for speeding repeat set-up, and a front-mounted handle to lift the upper roll for material removal. Wire grooves are standard. Tennsmith's initial pinch slip roll, Model SR48, is a heavy-duty, affordable, production tool for forming curved parts and tubes in 16 gauge and lighter sheet metal. The SR48 roll has three gear-driven rolls that ensure even starting and feeding of capacity materials. The gearing features a 4:1 reduction ratio for ease of operation of heavy materials. All gears are fully enclosed for safety and protection from the elements.

| Model Number          | SR24               | SR36               | SR42              | SR48             |
|-----------------------|--------------------|--------------------|-------------------|------------------|
| Capacity (Mild Steel) | 20 ga.             | 22 ga.             | 24 ga.            | 16 ga.           |
| Max. Forming Length   | 24"                | 36"                | 42"               | 49"              |
| Diameter of Rolls     | 2"                 | 2"                 | 2"                | 3"               |
| Min. Forming Radius   | 1"                 | 1"                 | 1"                | 1-1/2"           |
| Wire Grooves          | 3/16", 1/4", 5/16" | 3/16", 1/4", 5/16" | 1/4", 5/16", 3/8" | 3/8", 1/2", 5/8" |
| Gear Ratio            | n/a                | n/a                | n/a               | 4:1              |
| Ship Weight           | 190 lbs            | 250 lbs            | 270 lbs           | 775 lbs.         |

**SR24, 24" Slip Roll . . . . . \$740.00**  
**SR36, 36" Slip Roll . . . . . \$880.00**  
**SR42, 42" Slip Roll . . . . . \$990.00**  
**SR48, 48" Slip Roll . . . . . \$3,375.00**

## SHRINKER AND STRETCHER TOOLS



Looking to form compound curves in metal? These shrinker/stretcher tools can form curves down to a 3" radius in a variety of metals: mild steel (up to 16 gauge), stainless steel (up to 20 gauge), and aluminum (up to 17 gauge). The Shrinker forms outside radius curves and the Stretcher forms inside radius curves. They are perfect for forming complicated patch pieces for such areas as rear wheel arches, dog legs, window edges, and trunk edges.

|  |                 |
|--|-----------------|
| <b>Power Shrinker/Stretcher</b> (As Shown Above) . . . . .     | <b>\$650.00</b> |
| <b>Power Unit</b> (Less Shrinker & Stretcher) . . . . .        | <b>\$375.00</b> |
| <b>Shrinker Unit Only</b> . . . . .                            | <b>\$185.00</b> |
| <b>Stretcher Unit Only</b> . . . . .                           | <b>\$185.00</b> |
| <b>Combo Unit</b> (1 Body with both sets of Jaws) . . . . .    | <b>\$270.00</b> |
| <b>Replacement Jaws Sets</b> (Shrinker or Stretcher) . . . . . | <b>\$115.00</b> |



## SHRINKER AND STRETCHER STAND

Sensible design and powerful pedal ratio make shrinking and stretching more effective and less labor intense. Will make any standard metal shrinker or stretcher a more productive and useful machine. Hands free operation allows better control of your metal work and much faster results! Mobile unit on casters allows easy transport around the shop for access wherever needed. Sturdy construction and attractive finish makes the foot-operated Shrinker/Stretcher stand ideal for the hobbyist or professional metal shaper.

- Fabricated of 11 gauge tubing
- Heavy duty return spring means quick action and long life
- Bronze bushings at fulcrum
- Threaded tie rod allows quick and easy adjustment for initial setup
- Stand height: 42" (once tools are placed on stand overall height is approx. 47-1/2")

|   |                 |
|---|-----------------|
| <b>Shrinker/Stretcher Deluxe Kit</b> (As Shown Above) . . . . . | <b>\$739.00</b> |
| <b>Stand Only</b> . . . . .                                     | <b>\$399.00</b> |

**NEW!**

## DEEP THROAT SHRINKER/STRETCHER



- Mild steel capacity of 16 gauge
- 6" deep throat
- Quick change jaws included
- Foot operation to leave hands free to work the material
- One year warranty
- Wheeled base included to use as freestanding unit
- Height: 44"
- Width: 6.3"
- Depth: 30.3"
- Weight: 70 lbs.



|   |            |
|---|------------|
| KSM 155 Pro Shrinker/Stretcher .....      | \$2,900.00 |
| KSM 003 Shrinker Jaws for Aluminum .....  | \$490.00   |
| KSM 004 Stretcher Jaws for Aluminum ..... | \$490.00   |

**NEW!**

## HAND-HELD ENGLISH WHEEL

This small wheel is perfect for wheeling out imperfections and ideal for small metal crafting projects such as motorcycle gas tanks, hobby projects and small fillets for aircraft applications. With its lightweight frame, this wheel can be easily carried to a panel and used by hand for those tough to reach dents.

- Mild steel capacity of 16 gauge
- 11" deep throat
- 4 radius anvils included
- Can be mounted to optional stand or used by hand on the panel
- Delrin anvil wheels available



|                                    |          |
|------------------------------------|----------|
| CAH11 Portable English Wheel ..... | \$699.00 |
|------------------------------------|----------|



**NEW!**

## POWER HAMMER

The Dake Power Hammer is the perfect alternative to large and expensive Pullmax machines. Formerly marketed as the Anoka Power Hammer, this machine will accept Pullmax style tools and is equipped from the factory with thumbnail shrinking dies, making it the perfect compliment to any Planishing Hammer or English Wheel.

- Mild steel capacity is 16 gauge
- Aluminum capacity is 11 gauge (annealed 3003H14)
- 120V, 1HP motor
- 900 strokes per minute
- 18" throat
- Thumbnail shrinking dies included
- 7" Max opening with adjustable bottom die holder
- 19mm square shank holder to accept wide range of tooling
- On heavy casters for portability
- 24" x 33" x 67"
- One year warranty

|                                |            |
|--------------------------------|------------|
| Dake Power Hammer (120v) ..... | \$5,995.00 |
|--------------------------------|------------|

## QUICKSHAPER™ WORK CENTER



The QuickShaper™ is a great multitask metal working machine designed for metal work professionals and hobbyists alike. The QuickShaper™ combines a 32" throat english wheel with multiple workstations to perform a variety of essential metal shaping tasks, such as:

- Hammering to pre-form the part – wheeling and raising metal panels
- Shrinking or stretching
- Planishing – perfect for small to medium sized parts like motorcycle tanks, hood scoops, fender flares and door skins.
- Quick release cam on upper anvil
- Mobile unit on strong locking casters
- 12" shot bag (unfilled)
- 6 CNC machined & polished anvils
- Foot operated shrinker/stretcher
- 1 large forming head
- Capacity: .063 mild steel or .125 aluminum (1100 or 3003 H14)
- Made with pride in the USA
- Weight: 477 lbs.

QuickShaper™ Mark II ..... \$4,375.00

## METAL ACE ENGLISH WHEELS

Show your mettle with our go-anywhere metal crafting machine. Mounted on 3" casters, the sturdy welded frame offers on-the-go metal bending for racing needs, auto restoration and aircraft rebuilding. Large enough for monster jobs, 44F English Wheels are also perfect for smoothing a wrinkled quarter or rocker panel. Just ask the folks in professional auto racing or the owners of collision repair centers.

Although the MetalAce™ 44F is portable, it's sturdy and large enough to handle almost any metal crafting need, whether your job requires aggressive bending or smoothing a wrinkled surface.



- Height: 73" • Width: 59"
- Standard working height: 48"
- Base: 32-3/4" x 38" • Throat: 44"
- Weight: approx. 450 lbs.
- Upper wheel: 8" dia. x 3" wide 1045 alloy steel billet, polished to a smooth 63 finish
- Anvil wheels: six wheels made from 1045 alloy steel 3" wide x 3" diameter
- Capacity of 16 gauge steel and 1/8" aluminum
- Includes anvil wheel storage rack
- Features can be rolled into the center of an 88" panel
- Screw lift assembly has a quick-release cam mechanism that lowers the anvil yoke with a 90° rotation of the control handle. When rotated back to operating position, the original pressure setting is re-established
- Anvil yoke is adjustable on both sides of the axle support with thumb screws so the anvil wheel can be trued with the upper wheel

44F Assembled English Wheel (includes 2.375", 3.25", 5.0", 8.5", 12.0" radius and flat anvil wheels) ..... \$2,646.00  
 44F U-Weld English Wheel Kit ..... \$1,626.00



22B  
(Shown with  
Optional Floor Stand)

## BENCHTOP ENGLISH WHEEL

Clearly, this is the most popular of in-home English Wheels. Trick out your custom-built bike or complete hobby projects without breaking the bank. Provides outstanding performance on small jobs like motorcycle tanks, tank covers, seat cowls and aircraft fillets. Versatile use: mount on bench, clamp in vise or use with optional welded stand.

- Height: 29" • Width: 27"
- Standard working height (from bench): 16-1/2"
- Standard working height (with opt stand): 42-3/4"
- Base: 6" x 19" • Throat: 22"
- Weight: approx. 73 lbs.
- Upper wheel: 8" dia. x 2" wide 1045 alloy steel billet, polished to a smooth 63 finish
- 2.375" radius anvil wheel standard
- Can be mounted to a bench, clamped in a vice or used with the optional welded floor stand
- Anvil yoke is adjustable on both sides of the axle support with thumb screws so the anvil wheel can be trued with the upper wheel

22B Benchtop English Wheel (includes 2.375" R anvil wheel) ..... \$539.00  
 Discovery Kit (includes 22B, 8.50" R, 2.375" R and flat anvil wheels, plus shot bag, mallet, radius gauge and instruction DVD) . . . \$849.00  
 22B Floor Stand ..... \$200.00

## PROLINE PLANISHING HAMMERS



This portable planishing hammer is designed for forming or planishing light gauge sheetmetal. The yoke is 22" tall and 12-3/8" from the bottom die to the bottom of the yoke. It comes with one top die and one each 3", 12" and 36" radii bottom die, a die extraction tool, oil and special oil bottle, stainless steel engraved die rack with grommets and regulator. The frame is powder coated. The unit is shipped with some assembly required.

**Portable Planishing Hammer** ..... **\$3,950.00**

The lower arm on these cast iron floor models can be lowered to accommodate an optional bottom anvil for deep parts. Other special anvils are available, which allow the operator to move the lower arm off-center without losing position. They feature heavy duty pneumatic motors and sturdy cast iron frames.

**24" Cast Iron Floor Model Planishing Hammer** ..... **\$6,900.00**  
**36" Cast Iron Floor Model Planishing Hammer** ..... **\$8,900.00**



24"  
(Shown with optional die rack)

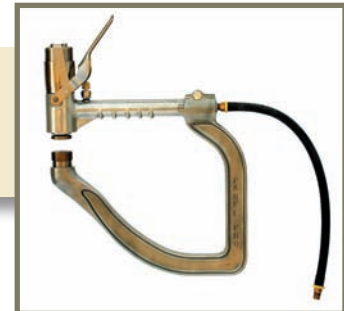


This hand-held unit with the optional PPHH-5110 tubular yoke is 16" tall x 22-3/4" deep. It comes with one top die and one each 3", 12" and 36" radii bottom die, a die extraction tool, oil and special oil bottle.

**Hand-Held Planishing Hammer (with tubular yoke)** ..... **\$2,095.00**

This hand-held unit features a cast aluminum yoke PPHH-4021. It is 10-1/2" tall x 11-1/2" deep. It comes with one top die and one each 3", 12" and 36" radii bottom die, a die extraction tool, oil and special oil bottle.

**Hand-Held Planishing Hammer (with cast aluminum yoke)** ..... **\$1,995.00**



## BENCHTOP PLANISHING HAMMERS



- Speed up custom sheet metal fabrication
- 12" or 24" throat
- Rear adjuster sets load force and allows for fast die changes
- Rugged tubular construction
- 9 radius dies included: Flat, 3/4", 1-1/2", 2", 3", 4", 6", 8", and 12"
- 4,600 hits per minute @ 100 psi
- Foot control allows for fine dual hand control

**12" Planishing Hammer (w/9 radius anvils)** ..... **\$800.00**  
**24" Planishing Hammer (w/9 radius anvils)** ..... **\$999.00**

## METAL SHAPING STATION



This brand new Proline metal shaping station is built for the professional metal shaper with the ultimate quality in mind. The powder coated base and upright stand are 29" tall for a comfortable working height once a tool is installed. A variety of tools can be utilized with the included adapters which fit into a Morse taper for a very solid feel. A quick release lever eliminates struggling during tool changes. The deluxe model features a nickel plated tool rack to keep things close at hand as well as an angle adapter for 90° and 45° mounting.

- Metal Shaping Station** (includes stand and 3 tooling adapters) . . . . . \$649.00
- Deluxe Shaping Station** (includes stand, tool rack, angle adapter, and 3 tooling adapters) . . . . . \$849.00
- ProLine Package Shaping Station**  
(includes stand, tool rack, angle adapter, 3 tooling adapters, set of 6 body hammers, shot bag plate, 12" shot bag, set of 3 Tapered T-Dollies, & Bike Builder Forming Head) . . . . . \$1,999.00

## SLAPPERS AND T-DOLLIES



These T-Dollies and Slappers are a few pieces from the great selection of shaping tools we offer. We recommend these tools daily for their quality and usefulness for a variety of metal shaping and fabricating applications.



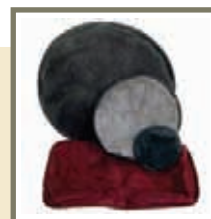
- FFS01 Flat Face Slapper . . . . . \$64.00
- CFS01 Curved Face Slapper . . . . . \$64.00
- GFS01 Gentle Face Slapper . . . . . \$64.00
- TPA5518 Small T-Dolly . . . . . \$23.00
- TPA5519 Medium T-Dolly . . . . . \$26.00
- TPA5520 Large T-Dolly . . . . . \$28.00

*Check out our website for Forming Heads, Post Dollies, Barrel Mallets, and more!*

## MALLETS AND SHOT BAGS



These custom Bossing Mallets were built to Ron Fournier's specifications and offer a variety of shapes so that you can select a hammer perfectly suited to the job at hand. An extra deep reach from the face of each mallet to the handle makes forming deep bowl shapes quick & easy.



- FBM01 Bossing Mallet (right) . . . . . \$40.00
- FBM02 Bossing Mallet (middle) . . . . . \$42.00
- FBM03 Bossing Mallet (left) . . . . . \$45.00
- LSB06 6" Round Shot Bag . . . . . \$20.00
- LSB12 12" Round Shot Bag . . . . . \$33.00
- LSB18 18" Round Shot Bag . . . . . \$53.00
- LSB18R 18" Rectangle Shot Bag . . . . . \$65.00

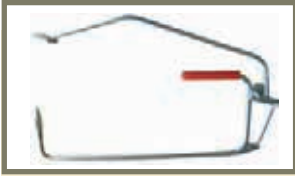
## TAPERED AND CURVED T-DOLLIES



Custom metal workers know that you can never have enough dollies. These Tapered and Curved T-Dollies allow for a variety of custom shapes to be created with consistency. Use them by hand, in a vice or in a metal shaping station. These T-Dollies will help to make your next project go together faster & more easily.



- TTD-S Small Tapered Dolly . . . . . \$95.00
- TTD-M Medium Tapered Dolly . . . . . \$105.00
- TTD-L Large Tapered Dolly . . . . . \$115.00
- FCTD01 Gentle Curve T-Dolly (left) . . . . . \$49.50
- FCTD02 Crescent Curve T-Dolly (right) . . . . . \$46.50
- FCTD03 Slope Curve T-Dolly (middle) . . . . . \$47.50



## BULLSEYE PICKS

Originally designed for the collision/dent repair trade, bullseye picks also work very well for restoration projects. In our trade, custom metal shaping & fabrication, they are ideal for the fabricator who needs to metal finish the area surrounding a weld seam on fabricated body work.

- Metal Finishing: Bullseye picks make it easy to accurately repair dents like a professional. The open sight (similar to a gun sight) allows the user to strike a series of very accurate, light blows to raise low areas.
- Return Spring: Allows you to hit quickly, with the advantage of knowing where the pick (or blunt tip) will strike.
- Designed for use in hard-to-reach areas: such as around braces, gussets and other blind areas.

|  |         |
|--|---------|
| 12" Mini Reach Bullseye Pick . . . . . | \$74.95 |
| 15" Reach Bullseye Pick . . . . .      | \$78.95 |
| 20" Reach Bullseye Pick . . . . .      | \$84.95 |
| 30" Reach Bullseye Pick . . . . .      | \$89.95 |
| Blunt Tip . . . . .                    | \$9.50  |

## EDUCATIONAL BOOKS

### Metal Fabricator's Handbook by Ron & Sue Fournier

Sections include: Tool selection and use, MIG, TIG, arc and gas-welding, fuel and oil tanks, exhaust headers, roll bars and roll cages, sheet metal interiors and basic metal shaping, with step-by-step photo sequences.



|   |         |
|---|---------|
| Metal Fabricator's Handbook (175 pages) . . . . . | \$19.95 |
|---|---------|



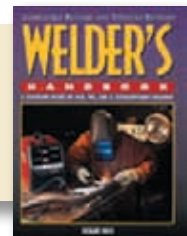
### Sheet Metal Handbook by Ron & Sue Fournier

Inside you'll find tips on: Setting up your own shop, proper use of the English wheel, basic metal shaping techniques, the art of hammerforming, proper riveting techniques, and tips on restoring original sheet metal, with step-by-step photos & illustrations

|  |         |
|--|---------|
| Sheet Metal Handbook (144 pages) . . . . . | \$19.95 |
|--|---------|

### Welder's Handbook by Richard Finch

Learn how to weld like a pro! This book covers a variety of welding techniques: oxyacetylene welding and cutting to MIG, TIG and plasma-arc welding. Includes tips on building simple or complex welding jigs and fixtures. Learn how to weld everything from mild steel and chrome-moly to magnesium and titanium, with many illustrations & clear photos.



|   |         |
|---|---------|
| Welder's Handbook (160 pages) . . . . . | \$19.95 |
|---|---------|

## EDUCATIONAL VIDEOS



Ron Fournier brings his extensive metal working experience to his viewers in these videos. Ron Covell joins him in the Hammerform techniques video, and you will see how their individual styles of working with metal compliment each other. These videos cover a variety of topics ranging from gas welding techniques and hammer forming to the tools required to do the job.

|   |         |
|---|---------|
| Covell English Wheel Techniques DVD (86 min) . . . . .              | \$40.00 |
| Hammerform Techniques DVD (76 min) . . . . .                        | \$40.00 |
| Metal Shaping: Blocking and Smoothing DVD (90 min) . . . . .        | \$35.00 |
| Bucks, Patterns, and Forms DVD (60 min) . . . . .                   | \$30.00 |
| How To Gas Weld Aluminum DVD (60 min) . . . . .                     | \$30.00 |
| Metal Work Basics: Hand Tools DVD (90 min) . . . . .                | \$35.00 |
| Metal Work Basics: Large Equipment DVD (90 min) . . . . .           | \$35.00 |
| Motorcycle Metal Fabrication, Sheet to Street (2 DVD Set) . . . . . | \$60.00 |

## NEW! MULTITOOL BELT & DISC GRINDERS

### "The Ultimate Finishing Tool"

The Multitool belt and disc grinding attachments for your bench grinder are must-have tools for any fabricator! These versatile tools remove material up to 5 times faster than with the equivalent grit grinding wheel. Belts change in seconds from grinding, to sand deburr or polish. Quality construction is backed by a 3-year warranty. The attachments are all available with motor options to suit the hobbyist or the professional. Includes 1 belt and 1 disc.

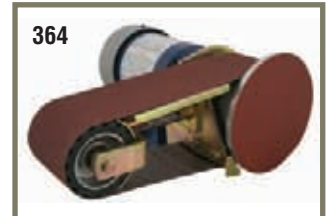
|  |                 |
|--|-----------------|
| <b>MT362 Multitool Grinder Attachment</b> (2"x36" belt) . . . . .                            | <b>\$199.95</b> |
| <b>MT362-075 Multitool Grinder Attachment</b> (2"x36" belt, w/ industrial motor) . . . . .   | <b>\$349.95</b> |
| <b>MT482 Multitool Grinder Attachment</b> (2"x48" belt) . . . . .                            | <b>\$285.95</b> |
| <b>MT482-075 Multitool Grinder Attachment</b> (2"x48" belt, w/ industrial motor) . . . . .   | <b>\$419.95</b> |
| <b>MT364 Multitool Grinder Attachment</b> (4"x36" belt) . . . . .                            | <b>\$299.95</b> |
| <b>MT364-075 Multitool Grinder Attachment</b> (4"x36" belt, w/ industrial motor) . . . . .   | <b>\$435.95</b> |
| <b>MT8CW Multitool Grinder Attachment</b> (2"x48" belt) . . . . .                            | <b>\$385.00</b> |
| <b>MT8CW-075 Multitool Grinder Attachment</b> (2"x48" belt, w/ industrial motor) . . . . .   | <b>\$499.00</b> |
| <b>MT484 Multitool Grinder Attachment</b> (4"x48" belt) . . . . .                            | <b>\$339.95</b> |
| <b>MT484-100 Bundle Multitool Grinder Attachment</b> (4"x48" belt, w/ jet grinder) . . . . . | <b>\$508.95</b> |



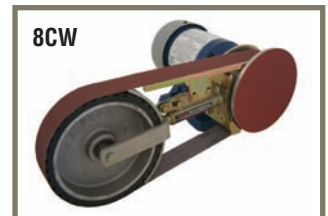
362



482



364



8CW



484



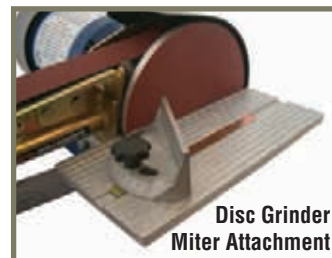
Floor Pedestal

### OPTIONS

|  |                 |
|--|-----------------|
| <b>Grinder Floor Pedestal</b> . . . . .        | <b>\$77.25</b>  |
| <b>Wall Mount Grinder Pedestal</b> . . . . .   | <b>\$145.00</b> |
| <b>Disc Grinder Miter Attachment</b> . . . . . | <b>\$49.95</b>  |



Wall Mount Pedestal



Disc Grinder Miter Attachment



## RADIUSMASTER

The RadiusMaster is a patented belt grinding machine that outperforms all other general purpose belt grinders. It offers higher performance, more convenience, plus greater versatility and durability than general purpose machines. The RadiusMaster offers a combination of features never seen before on one tool! No accessory tools required to change wheels, tilt, swing away guards or change belts. Small wheel selection can run continuously unlike the competition!

- 5 contact wheels, 3/4", 1", 1-1/2", 3-1/2", and 8"
- Polyurethane wheels ground flat for precision finishing
- Tilts on the side to be used as a bobbin grinder, also great for pipe notching
- Fully sealed bearings
- Belt size: 48" x 2"
- Belt speed: 3600 feet per minute
- 1.5 hp, 110v (overload protected)
- Operator lock-out switch

**RadiusMaster** (includes 5 belts & pedestal) . . . . . **\$2,195.00**

## BELT AND DISC GRINDERS

These two combination belt grinder / disc grinders are easy to operate and versatile. Each unit gives fast, efficient grinding and finishing. Both items are 115v for maximum portability. Backed by an excellent warranty from Wilton, it will become a highly used machine in any shop.

### 4200A Industrial

- 6" x 48" belt operates at any angle
- 12" disc w/ tilting table
- 1.5 hp UL/CSA approved motor
- Aluminum miter gauge
- Adjustable cast iron platen
- Removeable upper guard for contour finishing
- Variable position locking, from vertical to horizontal and all angles in between
- Adjustable dust deflector and chute
- Enclosed drums and guarded belt
- One piece steel stand

### 4210K

- 6" x 48" belt
- 10" disc w/ tilting table
- 1 hp motor
- Miter gauge
- Adjustable cast iron platen
- Quick release belt tension
- Dust collection shrouds on belt and disc
- One piece steel stand protects motor
- Removeable safety key switch



**WILTON**

**4210K Combination Grinder (115v)** ..... See Website for Promo Pricing! ~~\$899.00~~  
**4200A Industrial Combination Grinder (115v 1ph)** (other voltage available, call for details) . . See Website for Promo Pricing! ~~\$2,009.00~~

## BURR KING



482

The Burr King name speaks for itself! These popular 3-Wheel grinders feature slack contour belt grinding as well as contact wheel and workrest grinding. Standard units are wired for 110v, also available in 220v power and a host of options. Best quality and widest range of options!

If you are looking for a particular durometer contact wheel, variable speed, or special voltage application, call us! We will be glad to accommodate your needs.

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Cast frame</li> <li>• Precision machined components</li> <li>• Belt guard</li> <li>• Quick belt change &amp; tracking</li> <li>• Cord and switch included</li> </ul> | <p><b>OPTIONS</b></p> <ul style="list-style-type: none"> <li>• Variable speed</li> <li>• 220v configurations</li> <li>• Dust collection</li> <li>• Pedestal</li> </ul> |
|---|--|

**482 Belt Grinder (120v)** ..... \$1,663.00  
**760 Belt Grinder (120v)** ..... \$2,055.00

Burr King's family of two wheel grinders provide vigorous contact wheel, workrest, and platen grinding in a frame design that pivots to ideal work positions. These machines are ideal for tool post grinders, roll grinders, and for fixturing into centerless grinding applications. Available in easily adjusted variable speed and aggressive single speed, plus two different belt widths. Like other Burr King models, you get the best quality and widest range of options!

If you are looking for a particular durometer contact wheel, variable speed, or special voltage application, call us! We will be glad to accommodate your needs.

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Contact wheel, platen, and work support grinding</li> <li>• Precision machined components</li> <li>• Positive belt tracking</li> <li>• Quick belt change</li> <li>• Up to 8000 SFPM belt speed standard</li> <li>• Cord and switch included</li> <li>• OSHA compliant, enclosed guarding</li> </ul> | <p><b>OPTIONS</b></p> <ul style="list-style-type: none"> <li>• Variable speed</li> <li>• 220v configurations</li> <li>• Mag starter</li> <li>• Dust collection</li> <li>• Pedestal</li> </ul> |
|--|---|



960-250

**960-250, 2.5" x 60" Belt Grinder (120v)** ..... \$2,140.00  
**960-400, 4" x 60" Belt Grinder (220v 1ph)** ..... \$2,990.00

**NEW!**

## ADJUST-O ANGLE MAGNET



The Adjust-O Angle Magnet by StrongHand Tools is a must-have for any fabricator's shop. The tool is designed to hold flat, square, and round work pieces in any position from 30 to 275 degrees in 1 degree increments. The tool's 90 lbs. of force magnets feature an easily switchable on/off feature to make repositioning a breeze.

- V-Shape top and bottom to hold round and flat stock
- 30-275 degree rotation
- 90 lbs of force magnet with on/off switch
- Built in bubble vial level
- Dimensions: 4-1/2" x 7-1/2" x 1-1/2"

**MAV120 Adjust-O Angle Magnet . . . . . \$128.40**

**NEW!**

## ADJUST-O DUAL SWITCH MAGNETS

These small but powerful positioning magnets from StrongHand are the perfect accessory for any welder's or fabricator's shop. They feature durable steel construction, incredible holding capacity, and convenient on/off switches to make repositioning a breeze.

Constructed from steel, these tools feature a 90 degree square and convenient handle for repositioning material.

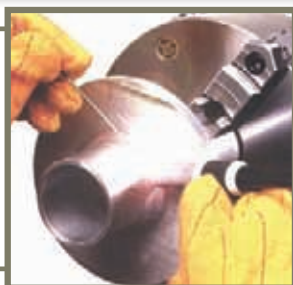


**MS2-80 6" Dual Switch Magnet (78 lbs. of force) . . . . . \$65.00**

**MS2-90 8" Dual Switch Magnet (150 lbs. of force) . . . . . \$128.40**

## ROTARY WELDING POSITIONERS

The Roto Star welding positioners are a must for precision welding. These heavy duty units were designed to increase productivity and improve quality for a variety of applications. They can be ordered with a standard 3 jaw chuck with thru-hole and 250 lbs. of capacity, or a surface plate for fixturing work pieces. They are adjustable from 0° to 90° by 15° increments and feature a 300 amp double grounding system which eliminates feedback during high frequency welding. A reversible variable speed control unit and foot pedal allow hands free operation. Optional accessories include variable speed foot pedal, adjustable idler roller assembly and arm rest.



**Roto1 (with 6" chuck) . . . . . \$2,195.00**

**Roto1-P (with 12" surface plate) . . . . . \$1,795.00**  
(add \$300 for variable speed foot pedal)

**Roto3 (with 8" chuck) . . . . . \$2,795.00**

**Roto3-P (with 16" surface plate) . . . . . \$2,395.00**  
(add \$400 for variable speed foot pedal)

| Specifications        | Roto Star 1    | Roto Star 3    |
|-----------------------|----------------|----------------|
| Chuck                 | 6" 3 Jaw       | 8" 3 Jaw       |
| Max. Swing @ 0°       | 16"            | 20"            |
| Vertical Weight Cap   | 200 lbs.       | 250 lbs.       |
| Horizontal Weight Cap | 100 lbs.       | 150 lbs.       |
| Thru Spindle Cap      | 1-1/2"         | 2-1/2"         |
| Spindle Rotation      | 360°           | 360°           |
| Spindle Speed         | 0-15 rpm       | 0-16 rpm       |
| Angle Adjustment      | 15° increments | 15° increments |
| Grounding Cap         | 300 amp        | 300 amp        |
| Voltage               | 110 or 200 v   | 110 or 200 v   |
| Shipping Weight       | 60 lbs.        | 90 lbs.        |
| Optional Table        | 12" dia.       | 16" dia.       |

\* Deluxe models include quick acting screw adjustment

## TUBE WELDING POSITIONERS



(shown with AL2 dial level)

This tube welding positioner is a great tool for race car builders and tube fabricators. It can be adjusted to any angle and will securely hold your parts for tack welding without magnetizing.

This simple tool can save hours of frustration when working with coped tubes. (Actual tool has black oxide coating)

- TC1 Tube Welding Positioner (1"-2" OD) . . . . . \$38.95
- TC1 Tube Welding Positioner **Buy two and save!!** . . . . . \$69.90
- TC2 Tube Welding Positioner (2"-3" OD) . . . . . \$45.95
- TC90 90° Fixed Tube Welding Positioner (1"-2" OD) . . . . . \$26.00
- TCKit Tube Welding Positioner Kit  
(Set of 4 includes 2-TC1s, 1-TC90, and 1-TBH) . . . . . \$119.95

## TAB AND BRACKET HOLDER

This tab and bracket holder is a great tool for race car builders and tube fabricators. Modeled after our popular TC1 Tube welding positioners, this tool will hold your weld-on tabs and brackets in place while you weld. It assures proper alignment with the tube and works with a wide variety of brackets.

TBH Tab and Bracket Holder . . . . . \$27.50



## VARIABLE ANGLE CLAMPS



- Ratcheting angle adjustment with detents every 15°
- Hold rounds or flats
- Super lightweight
- Precision machined from 6061 bar stock aluminum
- Easy to read engraved angle scale
- Satin anodized finish

| Model  | Max. Opening | Jaw Height | Length | Width | Weight | Price    |
|--------|--------------|------------|--------|-------|--------|----------|
| C1-100 | .875"        | 1.25"      | 6.50"  | 2.50" | 2 lbs. | \$139.00 |
| C2-200 | 2.00"        | 2.25"      | 14.00" | 2.50" | 5 lbs. | \$199.00 |

## NEW! CAST IRON CLAMPS

- Heavy cast iron construction
- Copper plated ACME thread spindle
- Machined jaws and bases
- Slotted holes for bench mounting
- Rear jaw swivels and is self centering for holding different size work pieces

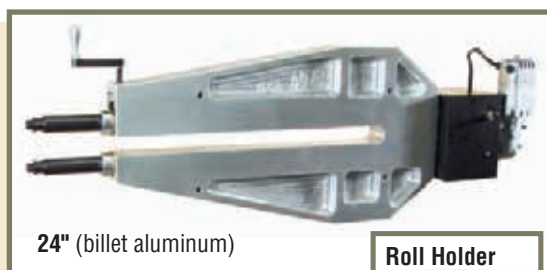


| Model  | Max. Opening | Jaw Height | Length | Weight    | Price    |
|--------|--------------|------------|--------|-----------|----------|
| WAC22  | 2.21"        | 1.28"      | 3.54"  | 8.8 lbs.  | \$48.15  |
| WAC34  | 3.75"        | 1.38"      | 4.80"  | 11 lbs.   | \$58.85  |
| WAC35D | 3.75"        | 1.38"      | 4.80"  | 11 lbs.   | \$84.53  |
| WAC45  | 4.75"        | 1.38"      | 5.32"  | 23.2 lbs. | \$117.70 |

## POWER DRIVE BEAD ROLLER



- Designed to handle .040" mild steel (20 ga.), .050" aluminum (18 ga.)
- Available in 24", 36" & 42" throats
- Largest selection of heat treated rolls to choose from
- Adjustable depth of bead
- Variable speed foot control for hands free operation
- Oilite bushings at all rotation points for long life
- Forward and reverse switch for left or right side operation
- Heat treated gears for years of trouble free operation
- 1-1/8" throat opening for "Bend, then Bead" operation
- Upgraded motor available for 16 ga. applications
- Industrial finish for good looks and durability



24" (billet aluminum)

Roll Holder



Stand

|                                       |          |                                    |          |
|---------------------------------------|----------|------------------------------------|----------|
| 24" Deep Throat Power Roll . . . . .  | \$650.00 | Shear Rolls (per set) . . . . .    | \$75.00  |
| 36" Deep Throat Power Roll . . . . .  | \$795.00 | Crimp Rolls (per set) . . . . .    | \$75.00  |
| 42" Deep Throat Power Roll . . . . .  | \$995.00 | Blank Rolls (per set) . . . . .    | \$30.00  |
| Industrial Motor Upgrade . . . . .    | \$575.00 | Hem Rolls (set of three) . . . . . | \$150.00 |
| 24" Bead Roller Stand . . . . .       | \$80.00  | Louver Rolls . . . . .             | \$110.00 |
| 36" & 42" Bead Roller Stand . . . . . | \$100.00 | Roll Holder . . . . .              | \$75.00  |
| Standard Shape Rolls . . . . .        | \$60.00  | Depth Stop . . . . .               | \$75.00  |
| 1" Bead (per set) . . . . .           | \$80.00  | Edge Bead Rolls . . . . .          | \$60.00  |

*Rolls Available In Heat Treated Steel or Nylatron (Used for scratch resistance)*

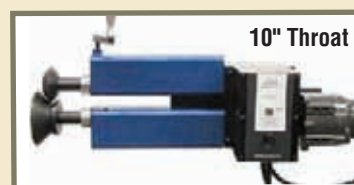
## POWER DRIVE ROTARY MACHINES

### 10" Throat

- Large 1-1/8" throat height
- Magnetic disc brake
- Forward & reverse switch
- 3/16" wall construction
- Oilite bushings
- Keyed shafts
- Heat treated gears for long life
- Variable speed
- .060 mild steel capacity

### 14" Throat

- 7/8" throat height
- Forward & reverse switch
- 3/8" fabricated construction
- Needle bearings
- Keyed shafts
- Variable speed
- Heat treated gears for long life
- Fully welded
- .075 mild steel capacity



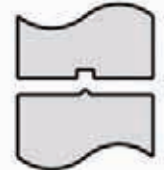
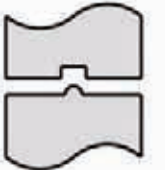
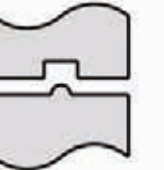

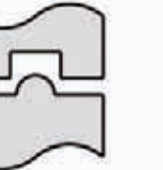


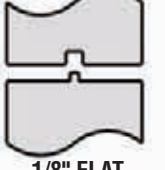
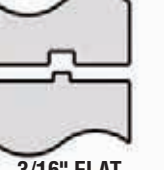

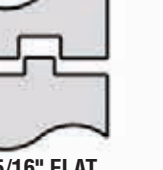

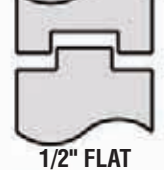
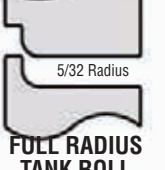




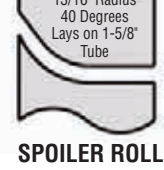
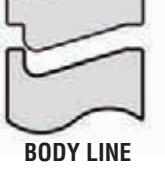



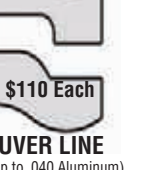
10" Throat



14" Throat







|  |            |
|--|------------|
| 10" Deep Throat Industrial Power Roll (variable speed) . . . . . | \$2,500.00 |
| 14" Deep Throat Industrial Power Roll (variable speed) . . . . . | \$3,200.00 |

## LARGEST SELECTION OF ROLLS TO CHOOSE FROM

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|   |   |   |   |   |   |
| 1/8" BEAD  | 3/16" BEAD   | 1/4" BEAD  | 5/16" BEAD   | 3/8" BEAD  | 1/2" BEAD  |
|   |   |   |   |   |   |
| \$75 Each  | 1" BEAD  | 1/8" FLAT  | 3/16" FLAT   | 1/4" FLAT  | 5/16" FLAT   |
|   |   |   |   |   |   |
| 1/2" FLAT  | 5/32 Radius  | 15/32 Radius   | TANK ROLL  | STEP ROLL  | 1/8" STEP ROLL   |
|  |  |  |  |  |  |
| 13/16" Radius<br>40 Degrees<br>Lays on 1-5/8"<br>Tube                              | FULL RADIUS<br>TANK ROLL   | \$75 Each  | ADJUSTABLE<br>DEPTH STOP   | 1/8" PIN STRIPE<br>(7/8" Center to Center Bead)                                      | 45 STEP  |
| SPOILER ROLL   | BODY LINE  | SHEAR  | \$75 Each  | \$110 Each   | \$110 Each   |
|  |  |  |  |  | LOUVER LINE<br>(Form Up to .040 Aluminum)  |

### EDGE BEAD ROLLS

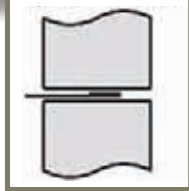
Built in edge guide makes a tough job easier. Designed to roll a strengthening bead around the edge of the panel, also works good for wheel well openings!

|   |   |   |   |  |   |
|---|---|---|---|--|---|
|  |  |  |  |  |  |
| 1/8" BEAD   | 3/16" BEAD  | 1/4" BEAD   | 5/16" BEAD  | 3/8" BEAD  | 1/2" BEAD   |

### HEM ROLLS

Hem Rolls (set of three) . . . . . \$300.00

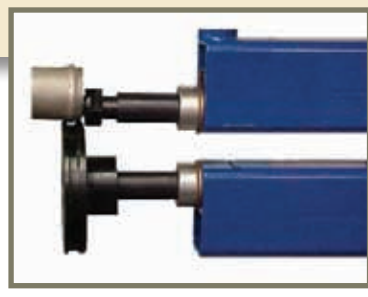
Make edges on rounded wheel-well openings as well as straight edges stronger, safer and more professional in appearance with Hem Rolls. This easy, three-step process creates hem rolls approximately 1/4" deep on steel or aluminum up to .040" without marring pre-painted aluminum. All rolls are heat-treated for lifetime service.

|   |   |   |
|---|---|---|
|  |  |  |
| Step 1<br>Metal is formed 90°   | Step 2<br>Metal is formed 140°  | Step 3<br>Metal is rolled flat  |

### TUBE BEAD ROLLS

- Rolls a bead so hoses won't slip off
- Ideal addition to the bead roller
- Rolls down to 1" OD x .050" wall

Standard Tube Bead Rolls . . . \$110.00



## PORTABLE EXPANDERS



Expand, bead or end form anywhere you want. The Huth 1690 machine is a compact design allowing it to fit on your bench-top, while the foot pedal gives you hands-free operation. The 1691 model gives you the added flexibility of a rolling cart. For those jobs that require fitting tubing under a vehicle or in a remote area, ask us about the 1685 hand-held unit that only requires shop air. Each unit is equipped with tooling as shown for expanding 1-1/2" to 3-1/2" material. Optional tools allow expansions in 1" to 5-1/2" tubing. Each equips you to form ball joints, slip joints, flanges and more with optional tools, anywhere in your shop. We also have a larger rolling version with swager box.

- 1690 Benchtop Expander . . . . . \$2,605.00
- 1691 Portable Expander on cart. . . . . \$2,665.00

## EXPANDER/REDUCER/SWAGER

Swage, reduce, end form, flare, or expand tubing anywhere you want. Mounted on its own easy-wheeling cart, Huth's portable pipe expander/reducer/swager equips you to reduce, flare, or expand tube or pipe ends.

- Portable design includes heavy duty wheels and front swivel caster with brake
- Clear safety guards for increased protection during all operations
- Includes a 20' power cord
- Great for end forming mild steel, aluminum, stainless steel, black pipe, tubing, and tube
- Huth's tube end forming and pipe expander/reducer/swager is made in America
- Powerful 5 hp motor, 240v 1ph (30 amp), or 3ph (20 amp)
- This tubing expander / steel pipe reducer has 25,000 lbs. of expanding power
- Automatic preset expanding system allows precise expanding every time
- Open cart area provides a convenient work surface
- Tubing expanding capacity is from 1" up to 5-1/2" ID
- Tube swaging, reducing, and flaring capacity is up to 3" OD
- Includes collet holder for 1" up to 2-1/2" OD tubing, and adjustable collar for expanding 1" to 3-1/2" tube



- 1673 Expander/Reducer/Swager . . . . . \$4,275.00

## BEAD FORM BOSS



The Bead Form Boss is designed for heavy hose beading such as turbo, cold air intake, exhaust and other large diameter hose applications. This machine will form adequate hose beads in round tubing as thick as .065" stainless. The Bead Form Boss utilizes a Pexto 622LR rotary machine and Bead Form rolls.

- Rotary machine with 3 roller bead forming set for multiple bead and tube sizes
- Designed for up to .065" wall steel tubing
- Produces a bead height of approximately .080" on 1-1/2" thru 6" OD tube
- 7" throat depth for double beading pressure hoses when required
- 622 Roller can work on sheet metal too

- Bead Form Boss . . . . . \$999.00
- Bead Form Boss Roll Set Only (fits Pexto 622 or Tennsmith R22 machines) . . . . . \$179.00



## BEAD FORM TOOLS

Bead Form quickly forms hose beads on all types of tubing. Positive action gear drive and 8620 steel form rollers make this tool very durable. It works on steel, aluminum, copper, or brass up to .050" wall thickness. The hand crank can be removed and replaced with a ratchet and 1/4" square socket. Can be vice or bench mounted with the included bracket and even comes with a handy carrying case. Great for fuel and radiator lines.

|  |                 |
|--|-----------------|
| <b>Bead Form Jr</b> (5/16"–1/2" OD) is designed for .028" wall tubing (produces a bead approximately .025" tall) . . . . . | <b>\$489.00</b> |
| <b>Bead Form 1/2</b> (1/2" OD) popular with refrigeration and vacuum fabricators . . . . .                                 | <b>\$489.00</b> |
| <b>Bead Form I</b> (5/8"–2" OD) (produces a bead approx. .050" tall x .185" wide) . . . . .                                | <b>\$419.00</b> |
| <b>Bead Form I HD</b> (same as above with replaceable bushings and heat treated shaft) . . . . .                           | <b>\$469.00</b> |
| <b>Bead Form II</b> (1-1/2"–4" OD) (produces a bead approx. .080" tall x .270" wide) . . . . .                             | <b>\$419.00</b> |
| <b>Bead Form II HD</b> (same as above with replaceable bushings and heat treated shaft) . . . . .                          | <b>\$469.00</b> |

## BEAD FORM ELECTRIC

New electric model features a high quality 1/6 hp gear motor and is mounted on a rubber isolated aluminum plate. A foot pedal control makes production work much quicker and easier. The electric option is available as a complete unit or as an upgrade to an existing bead form tool.



|  |                   |
|--|-------------------|
| <b>Bead Form Electric Upgrade</b> (utilize your existing bead form tool) . . . . . | <b>\$1,270.00</b> |
| <b>Electric Bead Form I</b> (5/8"–2" OD). . . . .                                  | <b>\$1,670.00</b> |
| <b>Electric Bead Form II</b> (1-1/2"–4" OD). . . . .                               | <b>\$1,670.00</b> |

## INDUSTRIAL TUBE BEADING MACHINE

Designed with the 16 gauge tubing application in mind, this machine will bead the end of your mild steel, aluminum, and stainless applications. Great for cold air intakes, turbo, and large diameter hose applications.

- Produces approx. .250" wide bead x .090" tall
- .065" stainless, 4130, and aluminum capacity
- Standard bead depth of 5/8" from edge of tube (up to 1-1/4" deep)
- Forward & reverse switch
- 3/8" fabricated construction
- 14" throat for optional sheet metal work
- Needle bearings
- Keyed shafts
- Heat treated gears for long life
- Variable speed
- Fully welded
- Includes stand



|  |                   |
|--|-------------------|
| <b>Industrial Tube Bead Roller, Stand, and Complete Roll Set</b> . . . . . | <b>\$3,420.00</b> |
|--|-------------------|

## ULTIMATE TUBING NOTCHER

**V-Block Vise Design Means Minimum Set-up Time**

**1 HP Standard (1.5 HP Variable Speed Optional)**

**115v Operation (220v Optional)**

**Rugged Construction 350 lbs.**

**New Heavy Duty Swivel Base**

**Calibrated Swivel Vise Allows ANY Angle Setting. Does NOT Clog with Chips!**

**Lifetime Sealed Bearings**

**Don't Be Fooled By Look Alikes!**

**130 RPM Standard 75-250 RPM Variable Speed**

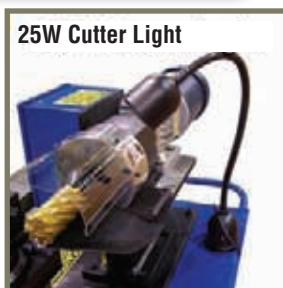
**End Mill Design Allows Fast Metal Removal**

**Notches up to 2-1/2" Diameter Tubing**

The MB Ultimate Tubing Notcher has been a favorite in fabrication shops for many years. Operation is simple; just clamp your tube in the calibrated swivel vise that allows for accurate and repeatable positioning at any angle. A compound feed table advances tubing into the milling cutter, producing a perfect notch and a perfect fit—every time.

## END MILL CUTTERS – 1-1/4" SHANK

| Tubing | Pipe Size  | Tin Coated |
|--------|------------|------------|
| 2-3/8" | 2"         | \$495.00   |
| 2"     |            | \$280.00   |
| 1.90"  | 1-1/2"     | \$265.00   |
| 1-3/4" |            | \$260.00   |
| 1.66"  | 1-1/4"     | \$240.00   |
| 1-5/8" |            | \$215.00   |
| 1-1/2" |            | \$185.00   |
| 1-3/8" |            | \$175.00   |
| 1-1/4" | 1"         | \$150.00   |
| 1-1/8" |            | \$135.00   |
| 1"     |            | \$110.00   |
| 1"     | High Helix | \$165.00   |
| 7/8"   |            | \$90.00    |
| 7/8"   | High Helix | \$150.00   |
| 3/4"   |            | \$65.00    |
| 3/4"   | High Helix | \$115.00   |



\* (Requires 1" Bushing)

\* (Requires 1" Bushing)

\* (Requires 1" Bushing)

\* (Requires 3/4" Bushing)

\* (Requires 3/4" Bushing)

\* (Requires 3/4" Bushing)

\* (Requires 3/4" Bushing)

\* Adapter Bushings \$45.00 Each



Photo courtesy of Mittler Brothers

|   |            |
|---|------------|
| <b>Standard Ultimate Tubing Notcher</b> (max capacity 3/4" to 2" tubing, 115v)                          | \$3,895.00 |
| <b>Variable Speed Ultimate Tubing Notcher</b> (max capacity 3/4" to 2" tubing, 115v)                    | \$4,360.00 |
| <b>Offset Vise Option</b> (allows offset notching of tubes)   | \$325.00   |
| <b>Upgrade Vise Option</b> (allows notching of tubes up to 2-1/2" OD)                                   | \$325.00   |
| <b>Ultimate Tubing Notcher Stand</b> (cabinet provides space for safe storage of spare cutters)         | \$350.00   |
| <b>Ultimate Tubing Notcher Work Light</b> (magnetic base, 25W halogen focused light, 25" flexible neck) | \$125.00   |

## ABRASIVE NOTCHING MACHINE



**NJYAL 100**

This high speed abrasive notching machine is a fast and cost effective method to fit tubes together prior to welding. The high speed grinding belt provides a smooth polished surface at any angle from 0° to 60° in tubing from 3/4" up to 4.5" OD. There is a guarded belt surface on top ideal for grinding or deburring. Belt life is generally around 100–200 copes per belt depending on material. Three mandrels of your choice and ten belts are included and change out in seconds with no tools required.



The standard machine is built with a slightly lighter frame and uses hand levers (*shown right*) for vice positioning rather than a cross feed table and hand wheels on the Heavy Duty model (*shown above left*).



| Technical Data | Standard           | Heavy Duty         | 6" Heavy Duty        |
|----------------|--------------------|--------------------|----------------------|
| Belt Size      | 4" x 78-3/4"       | 4" x 78-3/4"       | 6" x 78-3/4"         |
| Motor          | 4.0 hp             | 4.0 hp             | 5.5 hp               |
| Speed          | 3420 rpm           | 3420 rpm           | 3420 rpm             |
| Capacity       | 3/4"–3"            | 3/4"–3"            | 3/4"–4-1/2"          |
| Belt Speed     | 98.4 fps           | 98.4 fps           | 98.4 fps             |
| Weight         | 430 lbs.           | 517 lbs.           | 625 lbs.             |
| Size           | 59"l x 47"h x 19"w | 59"l x 47"h x 19"w | 59"l x 47"h x 26.5"w |

- NJYAL100U Standard Notching Machine (220v 1ph) . . . . . **\$4,395.00**
- NJYAL100U Standard Notching Machine (220v 3ph) . . . . . **\$4,095.00**
- NJYAL100 Heavy Duty Notching Machine (220v 3ph) . . . . . **\$5,995.00**
- NJYAL150 6" Width Heavy Duty Notching Machine (220v 3ph) . . . . . **\$6,695.00**
- (Machines include three mandrels of your choice and a box of 10 standard belts)
- 4" 24 grit Premium Grinding Belts for NJYAL100 (sold in box of 10) . . . . . **\$17.99 ea.**
- 6" 24 grit Premium Grinding Belts for NJYAL150 (sold in box of 10) . . . . . **\$35.00 ea.**

## TN-800 NOTCHER

The TN-800 tubing notcher has an operator adjusted eccentric path that requires only one cutter to notch weld joints on tubing, pipe, or solids with outside diameters of 1" to 3". This unique feature means the TN-800 tooling cost savings are on going. Notching under 1" is achieved by installing an optional 1/2" cutter and adapter bushing.

- Create perfect weld joints in chrome moly, mild steel, stainless steel, and aluminum pipe or tubing
- Does not contaminate the weld joint, offering more strength in the weld
- Unmatched versatility, mobility, and easy operation. Our pipe notcher is capable of notching up to 60° in either direction
- Cross slide table, angle vise, and V-Jaws can be independently calibrated allowing accurate positioning of straight, angled, or offset notches
- Quick changeover for different diameters of tube
- Ruggedly built stand with large wheels and casters allows for easy mobility



- TN-800 Tubing Notcher (110v, 1ph, 15 amp) . . . . . **\$7,495.00**

## HOLE SAW TUBE NOTCHERS

TN1000



JMR

The JMR Tubing and Pipe Notcher is the highest quality and most versatile hole saw notcher on the market. It is manufactured from bar stock, not plate, to increase strength and has a 1.125" induction hardened shaft supported by Timken™ bearings. The custom designed shaft seals prevent bearing and shaft damage and the shaft accepts replaceable hole saw mounting threads.

Angle changes can be made easy due to a Timken™ thrust bearing at the pivot point to increase clamping force while reducing wrench pressure. Use it for prototyping or production work.

- TN1000 High Capacity Hole Saw Tubing Notcher** (includes shim kit for offset notching) . . . . . \$595.00
- TN1000 Notcher Stand** . . . . . \$99.00
- TN1000 Vise Mounting Block** (use for mounting in a vise or making your own stand, comes with mounting bolts) . . . . . \$19.99

JD SQUARED

- The JD2 TN-100 notches 3/4" through 2" OD tubing at angles up to 50°.
- Easy to use — it may be mounted in a drill press or simply clamped in a vise and used with a 1/2" hand drill.
- Heavy duty frame — Entirely CNC machined, the frame is made from 1/2" thick 6061-T6 aluminum and its face has been milled flat. The degree increments are then machined directly into the frame so they can't wear off. An all position swivel base ensures easy setup.
- Rigid bearing block — The TN-100's bearing block uses twin needle bearings and separate grease seals for maximum rigidity and reliability. A 3/4" ground and polished stainless steel shaft eliminates flex and vibration.
- Strong, accurate tube cradle — The entire cradle and clamp assembly have been CNC machined out of a solid steel block. The adjustable V block allows the tube to be notched exactly in the middle. So the tube will be notched exactly in the middle. This eliminates the problems of tube walk in notchers that use a U-strap.

TN-100

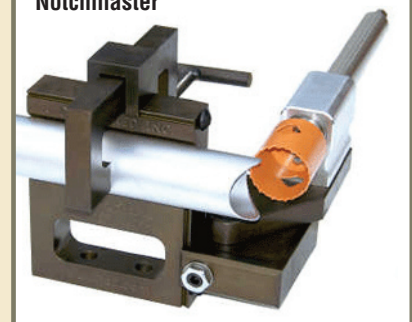


- TN100 Tube Notcher** . . . . . \$215.00

The Notchmaster is for the builder who needs quick offset copes in tubing up to 3" OD! This design from JD2 is a large capacity, offset-capable addition to the popular JD2 TN-100 tube notcher. The heavy duty steel frame holds a two-axis adjustable tubing clamp, and the ground and polished stainless shaft can be easily adjusted for offset coping. As with the TN-100 unit, the Notchmaster shaft is supported by sealed needle bearings. Using bi-metal hole saws to make the cut, this is an economical way to cope those tough applications!

- Capacity of 3/4" to 3" OD
- Angles up to 50°
- All CNC machined
- Heavy duty 1-1/4" thick steel frame
- 2-axis adjustable tubing clamp
- Can offset notch up to 1-1/2" vertically
- 1" ground & polished stainless steel shaft
- Double sealed needle bearings
- Easy mounting: bolt or clamp it to a table or simply clamp it in a vise
- Uses inexpensive bi-metal hole saws
- Requires an ordinary 1/2" hand drill

Notchmaster



- JD2 Notchmaster Tubing Notcher** . . . . . \$279.00



- AV05M 7 piece Hole Saw Kit in plastic case** . . . . . \$59.95  
(includes 7/8", 1", 1-1/8", 1-1/4", 1-1/2", arbor and adapter)

- AV08I 15 piece Hole Saw Deluxe Kit** . . . . . \$174.95  
(includes sizes 3/4", 7/8", 1", 1-1/4", 1-3/8", 1-1/2", 1-3/4", 2", 2-1/4", 2-1/2", 3" with two arbors, ejector spring, extension, and carrying case)

## MORE NOTCHING OPTIONS

These notching methods are useful when repetitive simple operations are required. Manual and automatic notchers are available in pipe sizes and for a 90° notch.

- Low cost
- Quick and easy
- Portable
- Mounts to any stationary surface
- Notches up to schedule 40



|  |                 |
|--|-----------------|
| <b>NJYAL3</b> (1-1/4" and 1-1/2" pipe sizes) . . . . .   | <b>\$895.00</b> |
| <b>NJYAL2</b> (1-1/2" and 2" pipe sizes) . . . . .       | <b>\$895.00</b> |
| <b>NJYAL1</b> (3/4", 1" and 1-1/4" pipe sizes) . . . . . | <b>\$695.00</b> |
| <b>NJYALU</b> (manual vent notcher) . . . . .            | <b>\$795.00</b> |

## NOTCH TOOLING



- Built to fit in a press or ironworker (pg 10)
- Angle notch units available, call with application
- Larger sizes available as well as punching, slotting or shearing

|  |                              |
|--|------------------------------|
| <b>1000 Series Tooling Set</b> (housing) . . . . . | <b>\$269.00</b>              |
| <b>1000 Series Die Sets</b> . . . . .              | <b>\$338.00-\$464.00 ea.</b> |

## PIPEMASTERS



PipeMasters are the perfect companion to any of our notchers. These timesavers will easily pay for themselves when fitting tube or pipe together. Individual sizes will slip over the tube with a .020" clearance or can be used free hand. The steel pins contour to the shape desired which can be transferred to the work piece. Kits come in a foam lined carrying case. Call for sizes not listed.

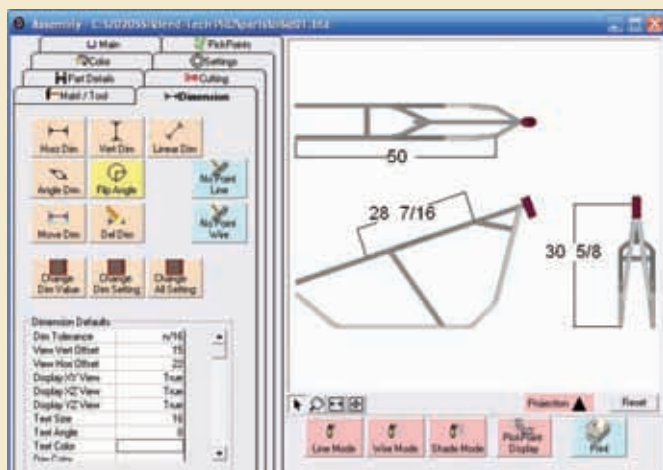


| P/N    | Tube Size | Price    |
|--------|-----------|----------|
| PT075  | 3/4"      | \$36.95  |
| PT0875 | 7/8"      | \$37.95  |
| PT100  | 1"        | \$38.95  |
| PT1125 | 1-1/8"    | \$39.95  |
| PT125  | 1-1/4"    | \$40.95  |
| PT1375 | 1-3/8"    | \$45.95  |
| PT150  | 1-1/2"    | \$46.95  |
| P125   | 1-5/8"    | \$45.95  |
| PT175  | 1-3/4"    | \$50.95  |
| PT200  | 2"        | \$52.95  |
| PT250  | 2-1/2"    | \$117.95 |
| PT300  | 3"        | \$122.95 |

| P/N  | Nominal Pipe Size | Pipe OD | Price    |
|------|-------------------|---------|----------|
| P100 | 1"                | 1.315"  | \$39.95  |
| P125 | 1-1/4"            | 1.660"  | \$45.95  |
| P150 | 1-1/2"            | 1.900"  | \$52.95  |
| P200 | 2"                | 2.375"  | \$53.95  |
| P250 | 2-1/2"            | 2.875"  | \$99.95  |
| P300 | 3"                | 3.500"  | \$104.95 |
| P400 | 4"                | 4.500"  | \$161.95 |
| P500 | 5"                | 5.563"  | \$189.95 |
| P600 | 6"                | 6.625"  | \$291.95 |

|  |                 |
|--|-----------------|
| <b>P-SC PipeMaster Stock Car Kit</b> (1-1/2", 1-3/4") . . . . .                                | <b>\$104.00</b> |
| <b>P-TJ PipeMaster Truck &amp; Jeep Kit</b> (1-3/4", 2") . . . . .                             | <b>\$106.00</b> |
| <b>P-DR PipeMaster Dragster Kit</b> (1-1/2", 1-5/8") . . . . .                                 | <b>\$101.00</b> |
| <b>P-PRKit PipeMaster Pro Racer Kit</b> (1", 1-1/4", 1-1/2", 1-3/4", 2") . . . . .             | <b>\$246.00</b> |
| <b>PT-2Kit PipeMaster Master Builder Kit</b> (11 sizes, 1/8" increments, 3/4"-2" OD) . . . . . | <b>\$499.95</b> |
| <b>P-1Kit Nominal Pipe Size Kit</b> (1", 1-1/4", 1-1/2", 2" pipe) . . . . .                    | <b>\$224.95</b> |

## TUBE BENDING DESIGN & LAYOUT SOFTWARE



Bend-Tech offers tube bending software solutions for everyone from the hobbyist to the professional fabricator. Using the finished part dimensions, this software calculates how long to cut your tube as well as where to start each bend regardless of your bender type. This can save hours of calculating and reduce wasted material. Each version contains several common templates for nearly any application.

With Bend-Tech SE, users have the option of sketch mode for drawing custom parts as well as X,Y,Z dimensional input. You can even view and rotate a three dimensional model of the finished part and watch a simulation of how it will bend on your specific bender. Whether you are a first time fabricator or a seasoned pro, Bend-Tech Software can easily pay for itself in the first use.

| Features  | EZ            | EZ-3D         | Bend-Tech Pro                | Bend-Tech SE                        |
|---|---------------|---------------|------------------------------|-------------------------------------|
| Designed for:   | home hobbyist | home hobbyist | small business/manual bender | commercial use /programmable bender |
| Customizable Tooling Library                              | ✓             | ✓             | ✓                            | ✓                                   |
| Customizable Material Library                             | ✓             | ✓             | ✓                            | ✓                                   |
| Standard Predefined Templates                             | ✓             | ✓             | ✓                            | ✓                                   |
| Additional Templates Available for Download               | ✓             | ✓             | ✓                            | ✓                                   |
| 2D Custom Part Template                                   | ✓             | ✓             | ✓                            | ✓                                   |
| Shaded Part Diagram                                       | ✓             | ✓             | ✓                            | ✓                                   |
| Cut Length & Weight Results                               | ✓             | ✓             | ✓                            | ✓                                   |
| Bend Angle Results  | ✓             | ✓             | ✓                            | ✓                                   |
| Start, End, or Center Bend Results                        | ✓             | ✓             | ✓                            | ✓                                   |
| Easy to Follow Printed Setup Sheet                        | ✓             | ✓             | ✓                            | ✓                                   |
| Save Part Files to the Hard Drive                         | ✓             | ✓             | ✓                            | ✓                                   |
| On-line Help w/ Index and Search                          | ✓             | ✓             | ✓                            | ✓                                   |
| Telephone and Email Support                               | ✓             | ✓             | ✓                            | ✓                                   |
| Support Forum   | ✓             | ✓             | ✓                            | ✓                                   |
| Bend Limit (per part)                                     | 6             | 6             | 10                           | 50                                  |
| 3D Custom Part Template                                   |               | ✓             | ✓                            | ✓                                   |
| Tri-Star Input Window                                     |               | ✓             | ✓                            | ✓                                   |
| Zooming, Panning & Rotating of 3D Shaded Model            |               | ✓             | ✓                            | ✓                                   |
| Rotation of Results                                       |               | ✓             | ✓                            | ✓                                   |
| Reverse Bending Order                                     |               | ✓             | ✓                            | ✓                                   |
| Flip Tube in Mid Production                               |               | ✓             | ✓                            | ✓                                   |
| Bending Simulation  |               | ✓             | ✓                            | ✓                                   |
| Movement Transition Setup Sheet                           |               | ✓             | ✓                            | ✓                                   |
| Trig Calculator   |               | ✓             | ✓                            | ✓                                   |
| Advanced Calibration Wizard                               |               | ✓             | ✓                            | ✓                                   |
| Assembly Design   |               |               | ✓                            | ✓                                   |
| Notching Module   |               |               | ✓                            | ✓                                   |
| Assembly Dimensioning                                     |               |               | ✓                            | ✓                                   |
| Millimeters and Inches                                    |               |               | ✓                            | ✓                                   |
| XYZ Interface   |               |               | ✓                            | ✓                                   |
| Sketch Interface  |               |               | ✓                            | ✓                                   |
| Multiple Radii for Single Part                            |               |               | ✓                            | ✓                                   |
| Crowning (for roll bending)                               |               |               | ✓                            | ✓                                   |
| Graphical Layout for Results                              |               |               | ✓                            | ✓                                   |
| Fraction Chart  |               |               | ✓                            | ✓                                   |
| Angle & Rotation Output Tolerances up to 3 decimal places |               |               | ✓                            | ✓                                   |
| LRA Output  |               |               | ✓                            | ✓                                   |

- Bend-Tech EZ** ..... \$69.00
- Bend-Tech EZ 3D** ..... \$149.00
- Bend-Tech Pro** ..... \$275.00
- Bend-Tech SE** ..... \$399.00

## HAND BENDING MACHINE



Deluxe Hand Bender Kit

Introducing the HB1 Hand Bending Machine for up to 5/8" OD tubing. The HB1 features heavy duty steel construction for bending custom fuel, brake or hydraulic lines or even small diameter chassis tubing. Quick setup and simple operation make this bender the right choice for light production, repair, and prototype work. Each standard die set is reversible for bending three-times or five-times the diameter of the tube radii and the adjustable bend die allows for easy repositioning and removal of the tube. The HB1 hand bender produces quality bends in a variety of materials and wall thicknesses with the flexibility required for any project.



- Rugged CNC machined steel construction
- Replaceable parts for long service life
- 3D and 5D bends from each die set
- Adjustable bend die on lead screw
- Close bend-to-bend distances
- Simple set up and operation
- Pedestal or vice mount

| Part Number   | Description  | Price    |
|---------------|--|----------|
| VS250         | 1/4" OD x .75" & 1.25" CLR die set                                   | \$45.00  |
| VS312         | 5/16" OD x .93" & 1.56" CLR die set                                  | \$55.00  |
| VS375         | 3/8" OD x 1.12" & 1.87" CLR die set                                  | \$60.00  |
| VS500         | 1/2" OD x 1.5" & 2.5" CLR die set                                    | \$85.00  |
| VS625         | 5/8" OD x 1.87" & 3.12" CLR die set                                  | \$90.00  |
| HB1           | Hand Bender only   | \$419.98 |
| HB1KIT        | Hand Bender Kit, includes bender and 5 die sets                      | \$699.98 |
| DELUXE HB1KIT | Deluxe Hand Bender Kit, includes 5 die sets and pedestal w/ die rack | \$799.98 |

## BEND RADIUS EXAMPLES

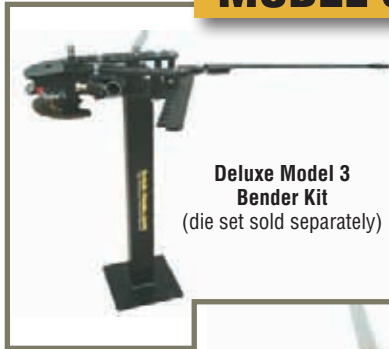


*Bend radius (CLR) is measured from the tangent point of the bend to the center line of the tube.*



Photo courtesy of Van Sant Racing

## MODEL 3 BENDER

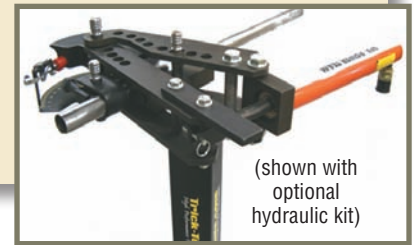


**Deluxe Model 3 Bender Kit**  
(die set sold separately)

The Original Model 3 Bender by JD2 is designed for the professional fabricator or hobbyist who requires a dependable, accurate and affordable tube and pipe bender. This machine can bend from 1/2" to 2" OD tubing manually because of the compound leverage from the ratcheting arm, and can be upgraded to hydraulic at any time. (For manual operation the Model 3 must be solidly attached to a fixture such as our Floor Pedestal) The Model 3's excellent bend quality is guaranteed to be as good or better than any bender on the market in the \$3,000 and under range. The Model 3 is the #1 selling bender in the USA to racecar fabricators. Die sets sold separately.



- Large 2" capacity
- Mechanical or hydraulic
- Accurate bends to 180°
- Round & square tubing
- Easy operation
- Affordable



(shown with optional hydraulic kit)

- Model 3 Tubing Bender** (with degree ring) . . . . . **\$295.00**
- Deluxe Model 3 Tube Bender Kit**  
(includes Bender w/ degree ring, floor pedestal, magnetic base pointer, and CNC machined handle) . . . . . **\$429.95**
- Model 3 Air/Hydraulic Conversion Package** (A great addition to the model 3 includes hydraulic adapter kit, cylinder, hose, and 10,000 psi SPX PowerTeam air/hydraulic pump. Bender not included.) . . . . . **\$953.00**
- Model 3 Electric/Hydraulic Conversion Package** (A great addition to the model 3 includes hydraulic adapter kit, cylinder, hose, and 4,000 psi electric/hydraulic pump w/ hand remote. Bender not included.) . . . . . **\$1,682.00**
- Model 3 Bender **Floor Pedestal** (1/2" plate steel top and bottom with machined edges, rectangular tube upright, bolts to floor) . . . . **\$98.00**
- Model 3 Bender **Rolling Pedestal** for use with hydraulic conversion  
(with die rack and hydraulic pump mount) . . . . . **\$224.00**
- Model 3 **CNC Machined Handle** (machined grip, precise fit for manual bending) . . . . . **\$29.95**

| ROUND TUBE DIE SETS |           |        |       |
|---------------------|-----------|--------|-------|
| OD                  | Min. Wall | Radius | Price |
| 1/2"                | .035"     | 2.25"  | \$135 |
| 1/2"                | .035"     | 3"     | \$145 |
| 5/8"                | .049"     | 2.25"  | \$135 |
| 5/8"                | .049"     | 3"     | \$145 |
| 3/4"                | .058"     | 2.25"  | \$135 |
| 3/4"                | .058"     | 3"     | \$145 |
| 3/4"                | .049"     | 4.5"   | \$255 |
| 7/8"                | .058"     | 3"     | \$145 |
| 7/8"                | .049"     | 4.5"   | \$225 |
| 1"                  | .058"     | 3"     | \$155 |
| 1"                  | .058"     | 3.5"   | \$175 |
| 1"                  | .058"     | 4.5"   | \$235 |
| 1-1/8"              | .083"     | 3.5"   | \$180 |
| 1-1/8"              | .058"     | 4.5"   | \$245 |
| 1-1/4"              | .083"     | 3.5"   | \$180 |
| 1-1/4"              | .058"     | 4.5"   | \$245 |
| 1-1/4"              | .058"     | 5.5"   | \$270 |
| 1-3/8"              | .095"     | 4.5"   | \$265 |
| 1-3/8"              | .083"     | 5.5"   | \$280 |
| 1-3/8"              | .058"     | 6.5"   | \$290 |
| 1-1/2"              | .095"     | 4.5"   | \$265 |

| ROUND TUBE DIE SETS (cont.) |           |        |       |
|-----------------------------|-----------|--------|-------|
| OD                          | Min. Wall | Radius | Price |
| 1-1/2"                      | .083"     | 5.5"   | \$280 |
| 1-1/2"                      | .058"     | 6.5"   | \$290 |
| 1-5/8"                      | .083"     | 5.5"   | \$290 |
| 1-5/8"                      | .083"     | 6.5"   | \$300 |
| 1-3/4"                      | .095"     | 5.5"   | \$300 |
| 1-3/4"                      | .083"     | 6.5"   | \$315 |
| 1-7/8"                      | .095"     | 6.5"   | \$345 |
| 2"                          | .095"     | 6.5"   | \$345 |

| SQUARE TUBE DIE SETS |           |        |       |
|----------------------|-----------|--------|-------|
| Size                 | Min. Wall | Radius | Price |
| 1/2"                 | .065"     | 3"     | \$160 |
| 1/2"                 | .049"     | 4.5"   | \$255 |
| 3/4"                 | .065"     | 3"     | \$165 |
| 3/4"                 | .065"     | 3.5"   | \$190 |
| 3/4"                 | .058"     | 4.5"   | \$265 |
| 1"                   | .083"     | 3.5"   | \$195 |
| 1"                   | .065"     | 4.5"   | \$280 |
| 1"                   | .065"     | 5.5"   | \$300 |
| 1"                   | .065"     | 6.5"   | \$320 |
| 1-1/4"               | .065"     | 4.5"   | \$285 |

| SQUARE TUBE DIE SETS (cont.) |           |        |       |
|------------------------------|-----------|--------|-------|
| Size                         | Min. Wall | Radius | Price |
| 1-1/4"                       | .065"     | 5.5"   | \$300 |
| 1-1/4"                       | .065"     | 6.5"   | \$320 |
| 1-1/2"                       | .083"     | 5.5"   | \$320 |
| 1-1/2"                       | .065"     | 6.5"   | \$335 |

| NOMINAL PIPE DIE SETS |        |        |       |
|-----------------------|--------|--------|-------|
| Pipe Size             | OD     | Radius | Price |
| 1/2"                  | .840"  | 3"     | \$150 |
| 3/4"                  | 1.050" | 3.5"   | \$175 |
| 3/4"                  |        | 4.5"   | \$240 |
| 1"                    | 1.315" | 3.5"   | \$185 |
| 1"                    |        | 4.5"   | \$250 |
| 1"                    |        | 5.5"   | \$270 |
| 1"                    |        | 6.5"   | \$280 |
| 1-1/4"                | 1.660" | 4.5"   | \$285 |
| 1-1/4"                |        | 5.5"   | \$290 |
| 1-1/4"                |        | 6.5"   | \$305 |
| 1-1/2"                | 1.900" | 5.5"   | \$330 |
| 1-1/2"                |        | 6.5"   | \$345 |

## MODEL 4 BENDER

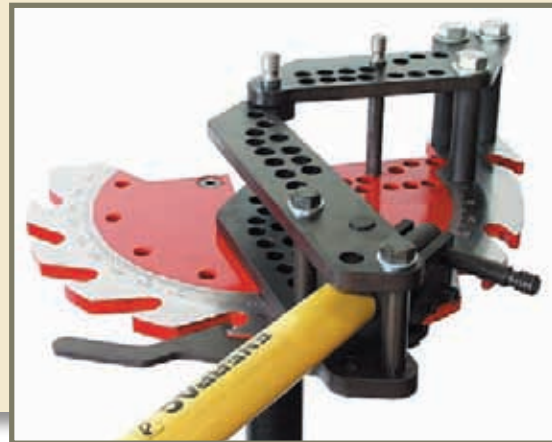


- Capacity up to 2-1/2"
- Easy setup and operation
- Hydraulic powered
- Durable heavy duty steel construction
- Self locking ratchet prevents material springback
- Large radius degree wheel
- Quick change dies
- High bending torque over 60,000 in./lbs.

The JD2 Model 4 bends up to 2" schedule 40 pipe, 2-1/2" outside diameter round tubing, solid hot rolled steel to 1-1/2" (38 mm) diameter, flats up to 3" (75 mm) wide x 3/4" (18 mm) thick hot rolled steel. It weighs 170 lbs. with the hydraulic cylinder. All links and frame are precision CNC machined from 3/4" and 1" thick steel. All pins are high strength steel.

The Model 4 employs a 10 ton single acting spring return cylinder with a stroke of 14".

It will typically bend 90° in two complete strokes and 180° bends require only four.



Deluxe Model 4 Electric

- Model 4 Tube Bender** (with hydraulic cylinder, no pump or hose) . . . . . **\$1,095.00**
- Deluxe Model 4 Air/Hydraulic Tube Bender Kit** (includes bender, cylinder, hose, SPX PowerTeam air/hydraulic pump, and rolling pedestal w/ die rack) . . . . . **\$1,749.00**
- Deluxe Model 4 Electric/Hydraulic Tube Bender Kit** (includes bender, cylinder, hose, 4000 psi electric/hydraulic pump w/ hand remote, and rolling pedestal w/ die rack) . . . . . **\$2,499.00**
- Model 4 Bender Rolling Pedestal** (with die rack and hydraulic pump mount) . . . . . **\$224.00**

| ROUND TUBE DIE SETS |           |        |       |
|---------------------|-----------|--------|-------|
| OD                  | Min. Wall | Radius | Price |
| 1/2"                | .035"     | 2.25"  | \$135 |
| 5/8"                | .049"     | 2.25"  | \$135 |
| 3/4"                | .058"     | 2.25"  | \$135 |
| 3/4"                | .058"     | 3"     | \$145 |
| 7/8"                | .058"     | 3"     | \$145 |
| 1"                  | .058"     | 3"     | \$155 |
| 1"                  | .058"     | 3.5"   | \$175 |
| 1"                  | .058"     | 4.5"   | \$235 |
| 1-1/8"              | .083"     | 3.5"   | \$180 |
| 1-1/8"              | .058"     | 4.5"   | \$245 |
| 1-1/4"              | .083"     | 3.5"   | \$180 |
| 1-1/4"              | .058"     | 4.5"   | \$245 |
| 1-1/4"              | .058"     | 5.5"   | \$270 |
| 1-3/8"              | .095"     | 4.5"   | \$265 |
| 1-3/8"              | .083"     | 5.5"   | \$280 |
| 1-3/8"              | .058"     | 6.5"   | \$290 |
| 1-1/2"              | .095"     | 4.5"   | \$265 |
| 1-1/2"              | .083"     | 5.5"   | \$280 |
| 1-1/2"              | .058"     | 6.5"   | \$290 |

| ROUND TUBE DIE SETS (cont.) |           |        |       |
|-----------------------------|-----------|--------|-------|
| OD                          | Min. Wall | Radius | Price |
| 1-5/8"                      | .083"     | 5.5"   | \$290 |
| 1-5/8"                      | .083"     | 6.5"   | \$300 |
| 1-3/4"                      | .095"     | 5.5"   | \$300 |
| 1-3/4"                      | .083"     | 6.5"   | \$315 |
| 1-7/8"                      | .095"     | 6.5"   | \$345 |
| 2"                          | .095"     | 6.5"   | \$345 |
| 2-1/4"                      | .120"     | 6.5"   | \$425 |
| 2-1/2"                      | .120"     | 6.5"   | \$475 |

| SQUARE TUBE DIE SETS |           |        |       |
|----------------------|-----------|--------|-------|
| Size                 | Min. Wall | Radius | Price |
| 1/2"                 | .065"     | 3"     | \$160 |
| 1/2"                 | .049"     | 4.5"   | \$225 |
| 3/4"                 | .065"     | 3"     | \$165 |
| 3/4"                 | .065"     | 3.5"   | \$190 |
| 3/4"                 | .058"     | 4.5"   | \$265 |
| 1"                   | .083"     | 3.5"   | \$195 |
| 1"                   | .065"     | 4.5"   | \$280 |
| 1-1/4"               | .065"     | 4.5"   | \$285 |

| SQUARE TUBE DIE SETS (cont.) |           |        |       |
|------------------------------|-----------|--------|-------|
| Size                         | Min. Wall | Radius | Price |
| 1-1/4"                       | .065"     | 5.5"   | \$300 |
| 1-1/2"                       | .083"     | 5.5"   | \$320 |
| 1-1/2"                       | .065"     | 6.5"   | \$335 |

| Nominal PIPE DIE SETS |        |        |       |
|-----------------------|--------|--------|-------|
| Pipe Size             | OD     | Radius | Price |
| 1/2"                  | .840"  | 3"     | \$150 |
| 3/4"                  | 1.050" | 3"     | \$155 |
| 3/4"                  |        | 4.5"   | \$240 |
| 1"                    | 1.315" | 3.5"   | \$185 |
| 1"                    |        | 4.5"   | \$250 |
| 1-1/4"                | 1.660" | 4.5"   | \$285 |
| 1-1/4"                |        | 5.5"   | \$290 |
| 1-1/4"                |        | 6.5"   | \$305 |
| 1-1/2"                | 1.900" | 5.5"   | \$330 |
| 1-1/2"                |        | 6.5"   | \$345 |
| 2"                    |        | 6.5"   | \$450 |

## 90° HYDRAULIC BENDER

- Self-contained does NOT need to be anchored
- 25 tons of power
- Reference scale for repeatable bends
- 3/4" to 2" OD standard sizes
- Bends steel, stainless, aluminum and pipe up to 90°
- Optional digital read out for maximum repeatability
- Also bends square tubing 3/4" to 2"



| ROUND TUBE DIE SETS |        |          |
|---------------------|--------|----------|
| OD                  | Radius | Price    |
| 2"                  | 8"     | \$450.00 |
| 2"                  | 7"     | \$450.00 |
| 1-3/4"              | 8"     | \$410.00 |
| 1-3/4"              | 7"     | \$410.00 |
| 1-5/8"              | 7"     | \$380.00 |
| 1-5/8"              | 6"     | \$380.00 |
| 1-1/2"              | 7"     | \$380.00 |
| 1-1/2"              | 6"     | \$380.00 |
| 1-3/8"              | 5"     | \$310.00 |
| 1-1/4"              | 5"     | \$310.00 |
| 1-1/8"              | 4"     | \$225.00 |
| 1"                  | 4"     | \$225.00 |
| 3/4"                | 4"     | \$225.00 |

| NOMINAL PIPE DIE SETS |        |          |
|-----------------------|--------|----------|
| Pipe Size             | Radius | Price    |
| 1-1/2"                | 8"     | \$495.00 |
| 1-1/4"                | 6"     | \$430.00 |
| 1"                    | 5"     | \$395.00 |
| 3/4"                  | 4"     | \$285.00 |
| 1/2"                  | 4"     | \$285.00 |

| SQUARE TUBE DIE SETS |        |          |
|----------------------|--------|----------|
| Size                 | Radius | Price    |
| 2"                   | 8"     | \$545.00 |
| 1-1/2"               | 7"     | \$455.00 |
| 1-1/4"               | 5"     | \$375.00 |
| 1"                   | 4"     | \$290.00 |
| 3/4"                 | 4"     | \$290.00 |

900 Bender (1 hr. video, with 1 set of dies up to 1-3/4" OD) . . . . . **\$1,475.00**  
 SPX Power Team Air/Hydraulic Pump, Hose & Fitting. . . . . **\$470.00**  
 Digital Read Out . . . . . **\$365.00**  
 1 Hour Tube Bending Video. . . . . **\$40.00**

## 2500 BENDER

- Hydraulic powered, 25 ton ram
- Digital readout for max repeatability
- Free standing - self contained
- Shipping weight 450 lbs.
- Rugged rack & pinion drive
- Billet aluminum dies
- Precision CNC machined
- 48"w x 48"l x 28"h



| ROUND TUBE DIE SETS |        |          |
|---------------------|--------|----------|
| OD                  | Radius | Price    |
| 1"                  | 4"     | \$290.00 |
| 1-1/8"              | 4"     | \$290.00 |
| 1-1/4"              | 5"     | \$320.00 |
| 1-3/8"              | 5"     | \$320.00 |
| 1-1/2"              | 6"     | \$370.00 |
| 1-5/8"              | 7"     | \$415.00 |
| 1-3/4"              | 7"     | \$415.00 |
| 1-3/4"              | 8"     | \$475.00 |
| 2"                  | 8"     | \$515.00 |

2500 Bender (with 1 set of dies up to 1-3/4" OD) . . . . . **\$3,895.00**  
 SPX Power Team Air/Hydraulic Pump & Hose . . . . . **\$470.00**  
 SPX Power Team Electric/Hydraulic Pump & Hose . . . . . **\$1,580.00**

| NOMINAL PIPE DIE SETS |      |        |          |
|-----------------------|------|--------|----------|
| Pipe Size             | OD   | Radius | Price    |
| 1"                    | 1.31 | 5"     | \$430.00 |
| 1-1/4"                | 1.66 | 6"     | \$485.00 |
| 1-1/2"                | 1.9  | 8"     | \$585.00 |

| SQUARE TUBE DIE SETS |        |          |
|----------------------|--------|----------|
| Size                 | Radius | Price    |
| 3/4"                 | 4"     | \$365.00 |
| 1"                   | 4"     | \$365.00 |
| 1-1/8"               | 4"     | \$365.00 |
| 1-1/4"               | 5"     | \$395.00 |
| 1-1/2"               | 6"     | \$455.00 |
| 1-3/4"               | 7"     | \$500.00 |
| 1-3/4"               | 8"     | \$545.00 |
| 2"                   | 8"     | \$625.00 |

**NEW!** **RDB-125 TUBING BENDER**

The RDB 125 tubing and pipe bender is the newest machine in the Baileigh/RMD lineup. This bender features big capacity for the money, it is able to bend 2.5" round tube or 2" Sch 40 pipe. Using a single hydraulic cylinder, the machine is capable of 180 degrees of bend without any repositioning of the tooling. The cylinder can be reset and restroked by using the foot pedal control. It also features a quick release counterbend die for easy positioning/removal of the tubing. Using industrial grade hydraulics and heavy steel construction, this machine is built to withstand tough industrial jobs.

- 180 degree capable (multiple strokes of cylinder)
- 2-1/2" round .125" wall mild steel capacity
- 2" schedule 40 pipe capacity
- 2" round .120" wall chrome moly capacity
- 2" square .125" wall mild steel capacity
- 7" CLR maximum
- 110v
- Made in the USA



**RDB-125 Bender (110v) . . . . . \$3,895.00**

**RDB-175 TUBING BENDER**



The RDB 175 tube and pipe bender has a one bend-angle control that can bend up to 2-1/2" tubing and 2" schedule 40 pipe. The large 9" Center Line Radius (CLR) maximum accommodates a wide variety of bending applications.

This rotary draw tube bender can bend 180° in 30 seconds and returns in only 12 seconds! Complex serpentine bends can be done with ease. A quick counter die release allows for easy removal of bends, and is adjustable in 1/4" increments for easy tool changeovers.

- 180 degrees in one shot
- Quick adjust counter bend die
- Industrial hydraulic cylinders
- 2-1/2" round .125" wall mild steel capacity
- 2" schedule 40 pipe capacity
- 2" round .120" wall chrome moly capacity
- 2" square .125" wall mild steel capacity
- 9" CLR maximum
- No tooling required to change forming and pressure dies
- Bends pipe, round & square tubing
- On casters for portability
- 110v
- Made in the USA

**RDB-175 Bender (110v) . . . . . \$7,195.00**  
**RT-1B Tubing Kit (OD) Save \$371!** (includes 3/4" x 2.5R, 7/8" x 3R, 1" x 3R, 1-1/4" x 4R, and 1-1/2" x 5R) . . . . . **\$2,425.00**  
**Racer's Tubing Kit (OD) Save \$360!** (includes 1" x 3R, 1-1/4" x 4R, 1-1/2" x 5R, 1-5/8" x 6R, and 1-3/4" x 7R) . . . . . **\$3,375.00**  
**RP-1B Pipe Kit (Nominal Pipe size) Save \$260!** (includes 1/2" x 2.5R, 3/4" x 3R, 1" x 3R, 1-1/4" x 4R, 1-1/2" x 5R) . . . . . **\$2,478.00**  
**Handrail Kit (Nominal Pipe size) Save \$125!** (includes 1-1/4" x 3R, 1-1/2" x 3.75R) . . . . . **\$1,125.00**  
**ST-1B Square Kit (OD) Save \$463!** (includes 1/2" x 3R, 3/4" x 3.5R, 1" x 4.5R, 1-1/4" x 5.5R, and 1-1/2" x 6.5R) . . . . . **\$4,305.00**

## RDB-250 TUBING BENDER

The RDB-250 tubing bender is a programmable control machine that can bend up to 2-1/2" tubing and 2" schedule 40 pipe. The standard control allows up to 170 programs with 10 bends per program. Optional indexing tables give repeatability for both rotation points and length measurements between bends. Tables up to 20' long are available.

This rotary draw tube bender can bend at speeds up to 9 seconds for a 180° bend and can be programmed to bend up to 360°, great for solid rod applications. Complex serpentine bends can be done with ease. A quick counter die release allows for easy removal of bends.

The counter die positioner has a numerical counter so repositioning of the counter die is a breeze when recalling bend programs. Engaging bends is as simple as pressing the forward foot pedal, and reverse pedal when complete.

- 180 degrees in one shot
- 2-1/2" OD .125" wall mild steel capacity
- 2" schedule 40 pipe capacity
- 2" square .125" wall mild steel capacity
- 170 program control standard
- 9" CLR maximum
- Optional positioning table
- No tools required for die changes
- Bends pipe, round & square tubing
- On casters for portability
- 220v 1ph
- Made in the USA



(shown with optional IDX table)

|  |            |
|--|------------|
| RDB-250 Bender (220v 1ph) . . . . .  | \$9,695.00 |
| 10' Indexing Table (5' to 20' lengths available) . . . . .   | \$4,095.00 |
| RT-1B Tubing Kit (OD) <b>Save \$371!</b> (includes 3/4" x 2.5R, 7/8" x 3R, 1" x 3R, 1-1/4" x 4R, and 1-1/2" x 5R) . . . . .          | \$2,425.00 |
| Racer's Tubing Kit (OD) <b>Save \$360!</b> (includes 1" x 3R, 1-1/4" x 4R, 1-1/2" x 5R, 1-5/8" x 6R, and 1-3/4" x 7R) . . . . .      | \$3,375.00 |
| RP-1B Pipe Kit (Nominal Pipe size) <b>Save \$260!</b> (includes 1/2" x 2.5R, 3/4" x 3R, 1" x 3R, 1-1/4" x 4R, 1-1/2" x 5R) . . . . . | \$2,478.00 |
| Handrail Kit (Nominal Pipe size) <b>Save \$125!</b> (includes 1-1/4" x 3R, 1-1/2" x 3.75R) . . . . .                                 | \$1,125.00 |
| ST-1B Square Kit (OD) <b>Save \$463!</b> (includes 1/2" x 3R, 3/4" x 3.5R, 1" x 4.5R, 1-1/4" x 5.5R, and 1-1/2" x 6.5R) . . . . .    | \$4,305.00 |

## *NEW!* MANUAL ROLL BENDER



This manual roll bender by Pro Tools is capable of rolling tube, pipe, channel, flats, and various box tubing. The unit's small size makes it highly portable and versatile. Top roll position is adjusted by means of a lever handle and the lower rolls are fixed. Bottom rolls can be dropped in quickly, and the top roll is fixed in place using the keyed shaft on the handle. With its sturdy dual side plate design, this machine can handle surprisingly large material for large radius work. Excellent machine for the ornamental, racing, and handrail industry with die sets available for up to 2" OD.

|  |            |
|--|------------|
| M3RB Manual Roll Bender (includes one roll of your choice) . . . . . | \$1,195.00 |
| Additional Roll Sets . . . . .                                       | \$295.00   |

## ROLL BENDING MACHINES

These machines are used for bending tube, angle, or shapes into coils, circles or large arcs using a wide variety of materials. Simply adjusting the third roll changes the size of the arc or circle. A digital read out allows repeatability for production runs. Machines come complete with a universal roll set. Tube sizes require specific rolls for each OD. We have rolls for any application including CNC controlled. Please call for special applications.

- Lower rolls knurled for optimal traction
- Manual or hydraulic adjustment of top roll
- Rugged frame and heavy duty wide base
- Hardened steel shafts
- Horizontal or vertical operation options
- Drive components supported in roller bearings
- Heavy duty adjustable lateral material guides
- Compact, low maintenance design
- Hardened universal standard rolls
- Motor overload protection



CP20



CP30



CP40

| Model | Display | Motor   | Speed | Weight    |
|-------|---------|---------|-------|-----------|
| CP20  | LED     | .44 hp  | 10    | 240 lbs.  |
| Z302  | Scale   | 1 hp    | 9     | 450 lbs.  |
| CP30  | LED     | 1.25 hp | 10.5  | 550 lbs.  |
| Z402  | LED     | 2.25 hp | 14    | 870 lbs.  |
| CP40  | LED     | 2.5 hp  | 14    | 1400 lbs. |

| Capacity | Tube           | Square         | Solid  | Angle          |
|----------|----------------|----------------|--------|----------------|
| CP20     | 1-1/4" x .065" | 3/4" x .065"   | 1/2"   | 3/4" x 1/8"    |
| Z302     | 2-3/8" x .065" | 1-1/2" x .120" | 1-1/4" | 1-1/2" x 3/16" |
| CP30     | 2-3/8" x .065" | 1-1/2" x .120" | 1-1/4" | 1-1/2" x 3/16" |
| Z402     | 2-3/4" x .065" | 2" x .120"     | 1-1/4" | 1-1/2" x 1/4"  |
| CP40     | 2-3/4" x .083" | 2" x .125"     | 1-3/8" | 2" x 1/4"      |

- CP20** (bench top model, manual adjustment w/LED, 220v 3ph) . . . . . **\$3,850.00**
- CPS20** (hydraulic positioning with LED, auto 9 position repeat, 220v 3ph) . . . . . **\$9,500.00**
- CP30R-2V** (includes stand with horizontal/vertical operation, manual adjustment w/LED, two speed, 220v 3ph) . . . . . **\$6,400.00**
- CP30PR-2V** (includes stand with horizontal/vertical operation, manual adjustment w/LED, two speed, foot pedals, 220v 3ph) . . . . . **\$6,990.00**
- CP30-PRM** (includes stand with horizontal/vertical operation, manual adjustment w/LED, foot pedals, 220v 1ph) . . . . . **\$6,990.00**
- ZM-402** (manual adjustment w/LED, foot pedal control, 220v 3ph) . . . . . **\$9,300.00**
- ZH-402** (hydraulic adjustment w/LED, foot pedal control, 220v 3ph) . . . . . **\$10,300.00**
- CP40-M** (manual adjustment w/LED, foot pedal control, 220v 3ph) . . . . . **\$11,400.00**
- CP40-H2** (hydraulic adjustment w/LED, foot pedal control, 220v 3ph) . . . . . **\$13,600.00**
- CP40-H** (hydraulic adjustment w/LED, 3 driven rolls, foot pedal control, 220v 3ph) . . . . . **\$15,950.00**

*Larger Models Available • Call For Pricing*

## COMPACT MANDREL BENDERS

The K Series mandrel benders are designed for the custom exhaust market and built with space in mind. These portable machines offer hydraulic muscle with digital accuracy offering a tolerance of +/- .1 degree. With capacity up to 4 inch stainless and bend radii as tight as 1.5 x diameter in their standard configuration, these machines are as versatile as they are economical. Optional accessories include mandrel lubrication, length and rotational stops with the Plane of Bend device, and 500 part storage with the SPS touch screen control. We also offer a new following pressure die option for even tighter bend to bend distances or tighter CLR. Please call our expert sales staff with all of your bending needs.

**2060K**



- Mild steel tubing from 1/4" to 3", maximum wall thickness 0.109"
- Stainless steel tubing from 1/4" to 3", maximum wall thickness 0.065"
- Bending angle up to 1800 plus 100 springback
- Bending head speed 00-900: 8 seconds
- Standard load length 10' (extensions available)
- Maximum centerline radius 6" (extensions available)
- Minimum centerline radius 1.5D (optional boosted pressure die for <1.5D)
- Manual or semi automatic operation (with optional SPS control)
- Removable shaft for small bend radius
- Made in Germany
- Machine weight: approx. 2,200 lbs.
- Prices start at \$38,170.00

- Mild steel tubing from 1/4" to 4", maximum wall thickness 0.134"
- Stainless steel tubing from 1/4" to 4", maximum wall thickness 0.078"
- Bending angle up to 1800 plus 100 springback
- Bending head speed 00-900: 9 seconds
- Standard load length 10'
- Maximum centerline radius 8"
- Minimum centerline radius 1.5D (optional boosted pressure die for <1.5D)
- Manual or semi automatic operation (with optional SPS control)
- Removable shaft for small bend radius
- Made in Germany
- Machine weight: approx. 5,500 lbs.
- Prices start at \$75,455.00

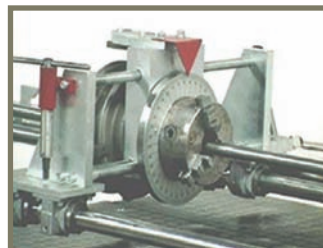
**20101K**



## OPTIONAL ACCESSORIES



**Mandrel Tooling**



**Plane of Bend Device**

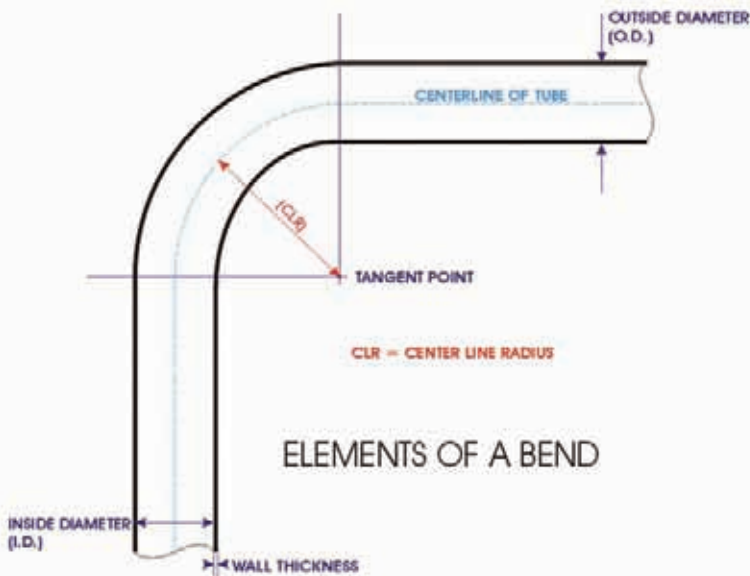


**SPS Control**



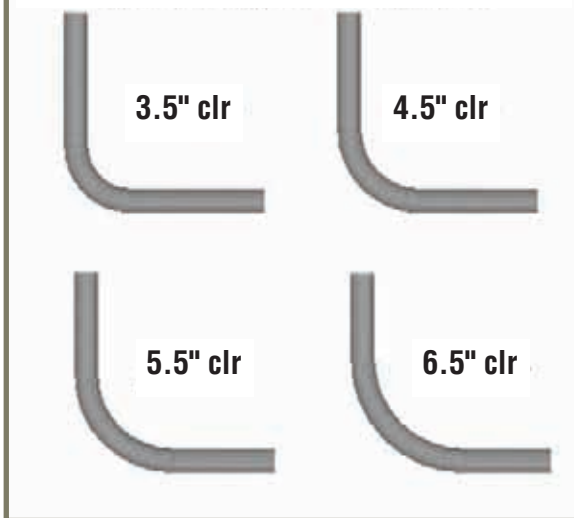
**Mandrel Lubrication**

## USEFUL CALCULATIONS



- Length of tube consumed in a bend = CLR (center line radius) x DOB (degree of bend) x .01745
- Circumference of a circle = 3.14 x Diameter
- Weight of steel tubing in lbs per foot = 10.6802 x wall thickness x (diameter – wall thickness)
- Yield strength comparison (approximate psi)  
 Mild steel tube = 40,000  
 Black iron pipe = 47,000  
 Stainless steel = 65,000  
 DOM = 80,000  
 4130 Chromoly = 101,000
- Multiply inches x 25.4 to get millimeters
- Multiply millimeters x .03937 to get inches

**Bend Radius Examples  
Created Using Bend-Tech Software**



| Gauge | Wall thickness (based on 1" tube) |
|-------|-----------------------------------|
| 22    | .0312"                            |
| 21    | .0344"                            |
| 20    | .0375"                            |
| 19    | .0437"                            |
| 18    | .0500"                            |
| 17    | .0562"                            |
| 16    | .0625"                            |
| 15    | .0703"                            |
| 14    | .0781"                            |
| 13    | .0937"                            |
| 12    | .1094"                            |
| 11    | .1250"                            |
| 10    | .1406"                            |
| 9     | .1562"                            |
| 8     | .1719"                            |
| 7     | .1875"                            |
| 6     | .2031"                            |
| 5     | .2187"                            |
| 4     | .2344"                            |
| 3     | .2500"                            |

| Nom. Pipe Size | Outside Diameter | NOMINAL PIPE SIZES WALL THICKNESS |         |         |         |          |       |
|----------------|------------------|-----------------------------------|---------|---------|---------|----------|-------|
|                |                  | Sch. 5                            | Sch. 10 | Sch. 40 | Sch. 80 | Sch. 160 | XXS   |
| 1/4"           | 0.540"           | N/A                               | .065"   | .088"   | .119"   | N/A      | N/A   |
| 3/8"           | 0.675"           | N/A                               | .065"   | .091"   | .126"   | N/A      | N/A   |
| 1/2"           | 0.840"           | .065"                             | .083"   | .109"   | .147"   | .187"    | .294" |
| 3/4"           | 1.050"           | .065"                             | .083"   | .113"   | .154"   | .218"    | .308" |
| 1"             | 1.315"           | .065"                             | .109"   | .133"   | .179"   | .250"    | .358" |
| 1-1/4"         | 1.660"           | .065"                             | .109"   | .140"   | .191"   | .250"    | .382" |
| 1-1/2"         | 1.900"           | .065"                             | .109"   | .145"   | .200"   | .281"    | .400" |
| 2"             | 2.375"           | .066"                             | .109"   | .164"   | .218"   | .343"    | .436" |
| 2-1/2"         | 2.875"           | .083"                             | .120"   | .203"   | .276"   | .375"    | .552" |



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