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*Supplying the Aerospace, Defense & Metal Working Industries Since 1951!*

**Minimum Order**

\$100.00 List Price

**Terms**

Net 30 days on approved credit only.  
Approved credit cards.  
Prepaid via check or wire transfer.

**No C.O.D. shipments.**

**Returns**

Return authorization is required.  
Merchandise must be sent freight prepaid to the facility from which it was purchased.  
A 20% restocking charge is applicable.

**All claims must be made within 7 days of receipt of goods.**

**Freight**

F.O.B. shipping point.

**Special Orders**

All special orders may require prepayment.

**Currency**

All prices are in US dollars.

**Overseas Customer Terms**

Same as above, only **prepayment via bank wire transfer (all fees for buyers account) or by bank check.**

US Air Tool Company (also known as USATCO) has been a family owned and operated business since 1951. We are now a US manufacturer and worldwide distributor of high quality tools for the aviation industry with offices in New York & California. In addition, from the beginning of the homebuilder era in the 1970's, USATCO has been providing tools and equipment to craftsmen around the world who build and fly their own aircraft. These "sheet-metal artists" are now flying thousands of planes built and maintained with USATCO tools.

USATCO offers the highest quality products at competitive prices, with the knowledge and experience necessary for expert advice in product selection. Our courteous staff will be pleased to assist you. And of course, all the products we offer are fully guaranteed. If you don't see what you are looking for, please don't hesitate to contact us. We work hard to provide our customers with straightforward & reliable business. Try us & see!

**USATCO.com**

Don't forget to check out USATCO Online, with monthly sales, homebuilder specials, surplus items & an easy to use interface its a great place to shop for tools on the web. **www.USATCO.com**

**Government IMPAC Cards Accepted**

**USATCO Tool Repair**

We repair all major brand pneumatic tools on our premises. We are an official repair station for Cherry Textron<sup>®</sup>, Chicago Pneumatic<sup>®</sup>, and Cooper<sup>®</sup> Power Tools (including Dotco<sup>®</sup>, Gardener Denver<sup>®</sup>, Buckeye<sup>®</sup> and Doler<sup>®</sup>). In addition, we have our own manufacturing and modification facilities. We are riveting and product assembly specialists!

We will be happy to examine your tools free of charge and give you an estimate of repair cost. Ship prepaid to any of our facilities. Please send tensiometers to our New York Lab only.

**Please ask about our tool rental policy!**

**Limited Warranty**

*If for any reason you are not completely satisfied with any item purchased from us you may request a return authorization within seven (7) days of receipt of goods. When obtained, send us the item (transportation prepaid) for replacement, repair or refund. Tools manufactured by USATCO are warrantied for one (1) year from date of purchase. We cannot assume liability for abuse, misuse or alteration of goods. Any tampering with tools or attempted repairs of same will nullify this warranty. Warranties from other manufacturers available upon request.*

**Heavy-Duty Bending Brakes**



- Unit will also bend 12 gauge in narrower widths.
- Maximum 2000 lbs hold down force.
- Maximum 40" width stock with 2-1/2" throat depth.

18 Gauge Capacity Bending Brake			
Part Number	Maximum Bend Length*	Minimum Reverse Bend	Shipping Weight
1824	24"	5/8"	50 lbs (23 kgs)
1840	40"	5/8"	90 lbs (41 kgs)

\* With unlimited throat.

Floor Stands	
Part Number	Shipping Weight
1824S	40 lbs (18 kgs)
1840S	50 lbs (23 kgs)

**Light Duty Bench Brake**

F.O.B. FACTORY



- For light forming jobs - ideal for small, precise box & pan work.
- 135° maximum bending angle & 3" maximum box depth.

16 Gauge Capacity Bending Brake			
Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
PX24	24"	1/4"	270 lbs (122 kgs)

Floor Stand	
Part Number	Shipping Weight
37-PX24	160 lbs (73 kgs)

**Economy Bending Brakes**



- Ideal for production runs etc. - one year limited warranty.
- Mounting holes in base for stationary or portable applications.

Part Number	Capacity (aluminum)	Maximum Bend Length	Shipping Weight
18B	16 ga	18"	3.5 lbs (1.6 kgs)
30B	16 ga	30"	11 lbs (5 kgs)

**Tennsmith® Bench Brakes**

F.O.B. FACTORY



Made In The USA

Welded Steel Plate Construction

- Heavy truss rods & braces provide strength & rigidity.
- Roller type thrust bearing to prevent upper leaf creep.
- Dual position apron angle with removable apron insert.

12 Gauge Capacity Bench Brake			
Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
HBU48-12*	48-1/4"	1/4"	1,330 lbs (603 kgs)

16 Gauge Capacity Bench Brakes***			
Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
HBU48-16*	48-1/4"	1/4"	495 lbs (225 kgs)
HBS48-16	48-1/4"	1/4"	460 lbs (209 kgs)

22 Gauge Capacity Bench Brakes***			
Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
U48-22**	48-1/4"	5/16"	280 lbs (127 kgs)
S48-22	48-1/4"	5/16"	220 lbs (100 kgs)

\* With 4" max. box depth. \*\* With 3" max. box depth. \*\*\* Optional floor stands available, please inquire.

# SHEET METAL FORMING EQUIPMENT

## Tennsmith® Heavy-Duty Bench Brakes

F.O.B. FACTORY

*Made In The USA*



HB97-16

### Welded Steel Plate Construction

- Heavy truss rods & braces provide strength & rigidity.
- Roller type thrust bearing to prevent upper leaf creep.
- Dual position apron angle with removable apron insert.
- Heavy counterweights & apron stop rod.

#### 16 Gauge Mild Steel Capacity Bench Brakes

Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
HB97-16	97"	1/4"	1675 lbs (760 kgs)
HB121-16	121"	1/4"	2875 lbs (1304 kgs)

#### 18 Gauge Mild Steel Capacity Bench Brakes

Part Number	Maximum Bend Length	Minimum Reverse Bend	Shipping Weight
HB97-18	97"	1/4"	1385 lbs (628 kgs)
HB121-18	121"	1/4"	2300 lbs (1043 kgs)

## Jet® Slip Rolls

F.O.B. FACTORY

*Quality Import*



SR2024

- Suitable for many industrial, educational & vocational shop uses.
- Precision tuned carbon steel rolls are ground & polished.
- Dual position apron angle with removable apron insert.
- Large roll adjusting screws & front mounted handle.

Note: Optional floor stands available, please inquire.

Note: Includes 3/16", 1/4" & 5/16" wire grooves (except SR1650: 1/4", 5/16" & 3/8").

#### 20 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR2024	24"	1"	216 lbs (98 kgs)

#### 22 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR2236	36"	1"	256 lbs (116 kgs)

#### 16 Gauge Mild Steel Capacity - 3" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR1650	50"	2"	573 lbs (260 kgs)

## Tennsmith® Slip Rolls

F.O.B. FACTORY

SR24



*An Affordable Heavy-Duty Production Tool*

*Made In The USA*

- Three full length rear starting grooves are standard.
- Front mounted handle to lift upper roll for material removal.
- Oilite bearings eliminate the need for lubrication.

Note: Shown with optional stand (stands available, please inquire).

Note: Includes 3/16", 1/4" & 5/16" wire grooves (except SR48: 3/8", 1/2" & 5/8").

#### 20 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR24	24"	1"	190 lbs (86 kgs)

#### 22 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR36	36"	1"	250 lbs (113 kgs)

#### 24 Gauge Mild Steel Capacity - 2" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR42	42"	1"	270 lbs (122 kgs)

#### 16 Gauge Mild Steel Capacity - 3" Roll Diameter

Part Number	Maximum Form Length	Minimum Form Radius	Shipping Weight
SR48	48"	1-1/2"	1100 lbs (500 kgs)

**Tennsmith® Squaring Shears**

F.O.B. FACTORY



*Made In The USA*

52

*High-Carbon High-Chromium Blades*

- Comes standard with tool steel blades & front arm extensions.
- Units also shear plastic, lead, zinc aluminum, brass & copper.

**Foot Powered**

- Includes protractor & graduated slide gauges, front squaring arm.

16 Gauge Mild Steel Capacity (20 gauge stainless)			
Part Number	Maximum Cut Length	Gauge Ranges (back / front)	Shipping Weight
36	37"	30" / 37"	700 lbs (318 kgs)
52	52-1/4"	30" / 37"	950 lbs (431 kgs)



*Neoprene Padded Hold-Down Feet*

52H-1 PH

**Air Powered**

- Includes bevel gauges, graduated slide gauges, foot control, stroke counter, pressure regulator & oiler/condenser cups.

16 Gauge Mild Steel Capacity (20 gauge stainless) - 40 SPM			
Part Number	Maximum Cut Length	Gauge Ranges (back / front)	Shipping Weight
36A	37"	30" / 37"	800 lbs (363 kgs)
52A	52-1/4"	30" / 37"	1085 lbs (492 kgs)

Note: 75 PSI maximum operating pressure.

**Hydraulic Powered**

- Includes bevel gauges, graduated slide gauges, foot control, stroke counter, sight gauge, thermometer & 10g oil reservoir.

16 Gauge Mild Steel Capacity (20 gauge stainless) - 45 SPM				
Part Number	Power Supply	Max. Cut Length	Gauge Ranges	Shipping Weight
52H-1 PH	1 Phase, 220V, 60Hz	52-1/4"	30" Back 37" Front	1300 lbs (590 kgs)
52H-3 PH	3 Phase, 220V*, 60Hz			(590 kgs)

Note: 1450 PSI maximum operating pressure. \* 400V available, please inquire.

**Jet® Foot Shear**

F.O.B. FACTORY



1652

*Quality Import*



- Shear comes standard with hardened stainless steel blades.
- High quality cast-iron grade frame to eliminate deflection across the blade-span and blade frame work.
- Four-way upper and two-way lower blades for longer life.
- Micro adjustment rear depth gauges for precise measurements.

16 Gauge Mild Steel Capacity			
Part Number	Maximum Cut Length	Gauge Ranges (back / front)	Shipping Weight
1652	52"	28" / 22"	1220 lbs (554 kgs)

**Jet® Shear, Brake & Roll Combo**

F.O.B. FACTORY

*Quality Import*

*Right Or Left Hand Operation*



SBR30

- Brake includes removable fingers for complex bending operations.
- Includes applicable dies, dual edge shear blade & back gauge.
- Shown with optional stand (please inquire).

**Note:**

SBR30: Upper die 4-3/4" height, 1", 2", 3", 4", 6" & 10" widths.  
SBR40: Upper die 4-3/4" height, 1", 2", 2", 4", 6", 7", 8" & 12" widths.

20 Gauge Mild Steel Capacity @ 30" Wide			
Part Number	Slip Roll Size	Minimum Form Radius	Shipping Weight
SBR30	30" x 1-1/2"	3/4"	332 lbs (151 kgs)

20 Gauge Mild Steel Capacity @ 40" Wide			
Part Number	Slip Roll Size	Minimum Form Radius	Shipping Weight
SBR40	40" x 1-5/8"	1"	561 lbs (255 kgs)

# SHEET METAL FORMING EQUIPMENT

## Beverly® Throatless Shears

- Ideal all-purpose metal cutting tools.
- Shoulder design permits turning work to any shape or position.
- Units allow any cut in heavy gauges, yet handle lighter metals without distortion.
- Alloy steel rack & pinion for great power with little effort.
- Removable handle for easy portability.
- Two-point lower blade adjustment.
- Slitting shear also available, please inq.

B-2



Part No.	Cap. (mild, stain.)	Blade Length	Height Less Handle	Weight
B-1	14 ga., 18 ga.	4-1/2"	14" (36 cm)	18 lbs (8.1 kgs)
B-2	10 ga., 14 ga.	4-3/8"	14" (36 cm)	35 lbs (15.8 kgs)
B-3*	3/16", 10 ga.	5-5/8"	15" (38 cm)	58 lbs (26.3 kgs)

\* B-3 equipped with high carbon, high chrome blades.

Replacement Blades		
For B-1	For B-2	For B-3
B-1-1	B-2-1	B-3-1

## Tennsmith® Notchers

F.O.B. FACTORY

*Made In The USA*

- Front gauges & large surface ground work table standard.
- Straight shearing; notches over 90° are accomplished in two operations.
- Especially useful where box, chassis & panel blanks are to be made.
- Reversible upper blades.

16-18RB



Replacement Blades	
Part Number	Description
16-18B1	Regular Set of 4
16-18B2	Tab Set of 4

Floor Stand	
Part Number	Shipping Weight
37-16-18	170 lbs (77 kgs)

Notchers			
Part Number	Mild Steel Cap. (notch / pierce)	Blades Included	Shipping Weight
16-18RB	16 / 18 Gauge	Regular	170 lbs (77 kgs)
16-18TB	16 / 18 Gauge	Tab	170 lbs (77 kgs)

## USATCO Bench Model Shrinker & Stretcher

- Work and form common metals.
- Shrink & stretch down to a 2" radius.
- High 45 to 1 leverage provides fast & powerful working action.
- Unit mounts in a vice or on a bench or stand (offered below).

*Made In The USA*



04-135

16 Gauge Mild Steel Capacity Shrinker & Stretcher		
Part Number	Description	Weight
04-135	Metal Shrinker	11 lbs (4.9 kgs)
04-136	Metal Stretcher	11 lbs (4.9 kgs)
53-137	Both Units	22 lbs (9.9 kgs)

Accessories	
Part Number	Description
04-12	Conversion Assembly (stretcher to shrinker)
04-18	Conversion Assembly (shrinker to stretcher)
38-9300	Replacement Shrinker Jaws (4 Piece Set)
38-9301	Replacement Stretcher Jaws (4 Piece Set)

## USATCO Dual Head Shrinker & Stretcher Stand

*Made In The USA*

- Dual head configuration allows two users at the same time.
- Wheeled base for easy movement.
- For use with USATCO Bench Model Shrinker & Stretcher shown above.



36" Dual Head Floor Stand	
Part Number	Weight
37-70127	26 lbs (11.7 kgs)

Note: Shrinker & Stretcher units not included.

**Extended Reach Bench Model Shrinker/Stretchers**

*High Quality  
Machined Finish*



*Reversible  
Jaw Faces*

*Ductile Cast  
Iron Body*

- Large frame opening allows complex forms to be worked.
- Works on all metals effectively.
- Ductile cast iron body & high quality machined finish.
- Handles both angles in the 2" wide range or flat sheets.
- Unit comes complete with one shrinking jaw assembly.
- 5/8" maximum metal insertion gap.
- Lighter design for low cost shipping & handling.

14 Gauge Aluminum Capacity (16 Gauge Steel)			
Part Number	Inside Reach	Inside Height	Weight
04-138	8-1/8"	6"	44 lbs (20 kgs)

Replacement Jaw Assemblies	
Part Number	Description
38-138-1	Shrinker Jaw Assembly
38-138-2	Stretcher Jaw Assembly

**Air Operated Floor Model Shrinker & Stretcher**

F.O.B. FACTORY

*Convenient Remote  
Control Position*

- Handwheel screw and indicator adjustment for accurate control.
- Adjustable air blow-off safety valve with air gauge.
- Small footprint: Only 1-1/2' by 1-1/2' at floor.
- Conforms to military spec MIL-S-45860B.



6A-1

*Made In The USA*

Part Number	Model	Capacity*	Reach	Floor To Jaw	Shipping Weight
6A-1	Shrinker	1/4" Thick 1-1/2" Wide	6"	42" (107 cm)	575 lbs (261 kgs)
6A-2	Stretcher				

\* Aluminum 2024, 1/4" x 1-1/2"; Aluminum 5052, 1/4" x 2"; Titanium, 5/32" x 1".

Part Number	Model	Capacity**	Reach	Floor To Jaw	Shipping Weight
12A-1	Shrinker	3/32" Thick 1" Wide	12"	42" (107 cm)	650 lbs (295 kgs)
12A-2	Stretcher				

\*\* Aluminum 2024, 5/32" x 1"; Aluminum 5052, 3/16" x 1"; Titanium, 3/32" x 3/4".

Accessories	
Part Number	Description
T3A1	Conversion Assembly (stretcher to shrinker)
T3B1	Conversion Assembly (shrinker to stretcher)
HD1A3	Replacement Shrinker Jaws (4 piece set)
HD1B3	Replacement Stretcher Jaws (4 piece set)

**Foot Operated Floor Model Shrinker & Stretcher**

F.O.B. FACTORY



6F-1

*Made In The USA*

- Form unusual shapes without dies.
- Small footprint: Only 2' x 2' at floor.
- Restippling service available for worn jaws, please inquire.
- Special jaw configurations also available, please inquire.

*Low Cost &  
High Quality*

Part Number	Model	Capacity*	Reach	Floor To Jaw	Shipping Weight
6F-1	Shrinker	5/64"	6"	43-1/2" (110 cm)	400 lbs (181 kgs)
6F-2	Stretcher				

\* Based on a tensile strength of 70,000 PSI.

Accessories	
Part Number	Description
6F-A-7	Conversion Assembly (stretcher to shrinker)
6F-B-7	Conversion Assembly (shrinker to stretcher)
38-1447-10	Conversion Assembly (ERCO to Marchant)**
6F-A-3	Replacement Shrinker Jaws (4 piece set)
6F-B-3	Replacement Stretcher Jaws (4 piece set)

\*\* Convert your obsolete ERCO model 1447 to accept Marchant 6F tooling.

# SHEET METAL FORMING EQUIPMENT

## Bench Model English Wheeling Machines

F.O.B. FACTORY

*Upper Adjuster  
For Easy Use*

*Stiff Steel  
Frame With  
Modular  
Lower Arm*



45-23EWB

*Rotating  
Yokes For  
Flexible  
Wheeling*

- Innovative upper adjuster for easier use & better precision.
- Upper wheel is heat treated to 52 Rockwell C (lower anvils are also available heat treated, please inquire).
- Modular lower tool arm allows the owner to build special tool arms to meet specific or unusual shaping requirements.
- Versatile lower yoke adjusts side to side, fore & aft.
- Included anvils provide various profiles from flat to very tight.

### 16" Bench Model - Stub Axle

- Stub axle to work very small pieces without pinching fingers.
- Stable tripod legs allow unit to bolt securely to a workbench.

#### Includes:

Wheeling Machine, 5-1/2" x 2" Upper Wheel & Six 2" x 2" Anvils In Various Profiles

Part Number	Capacity Stainless	Weight
45-16EWB	16 Gauge	105 lbs (47.6 kgs)

### 23" Bench Model

- Includes tripod mount bolt on legs.
- Free standing conversion kit also available, please inquire.

#### Includes:

Wheeling Machine, 8" x 2" Upper Wheel & Six 3" x 2" Anvils In Various Profiles

Part Number	Capacity Stainless	Weight
45-23EWB	16 Gauge	250 lbs (113 kgs)

Note: Replacement & other style anvils available for all models, please inquire.



*For Metal Seamers & Crimpers See Pages 159-160*

## Floor Model English Wheeling Machines

F.O.B. FACTORY

*Upper Adjuster  
For Easy Use*

45-35EWF

*Stiff Steel  
Frame With  
Modular  
Lower Arm*



*Rotating  
Yokes For  
Flexible  
Wheeling*

- Innovative upper adjuster for easier use & better precision.
- Includes tripod mount bolt on legs - 1/4" steel construction.
- Upper wheel is heat treated to 52 Rockwell C (lower anvils are also available heat treated, please inquire).
- Modular lower tool arm allows the owner to build special tool arms to meet specific or unusual shaping requirements.
- Versatile lower yoke adjusts side to side, fore & aft.
- Included anvils provide various profiles from flat to very tight.

### 26" Floor Model

- A superb smaller machine, very stable and solid.

#### Includes:

Wheeling Machine, 8" x 2" Upper Wheel & Six 3" x 2" Anvils In Various Profiles

Part Number	Capacity Stainless	Weight
45-26EWF	14 Gauge	350 lbs (159 kgs)

### 35" Floor Model

- Includes new quick release & dovetail adjuster which provides very smooth action with no movement.
- Axle is quickly removed for changing wheel configurations.

#### Includes:

Wheeling Machine, 9" x 4" Upper Wheel & Six 3" x 3" Anvils In Various Profiles

Part Number	Capacity Stainless	Weight
45-35EWF	14 Gauge	850 lbs (386 kgs)

Note: Replacement & other style anvils available for all models, please inquire.

**Jet® 45" English Wheeling Machine**

F.O.B. FACTORY



*Quick Release Lever*



*Both Wheels Swivel 90 Degrees To Accommodate Larger Work Pieces*

*Includes 4 Rolling Wheels & 10 Anvils In Various Profiles*

*Heavy-Duty Frame*

*Retractable Base Wheels For Easy Movement*

English wheel gets its name from the two steel wheels between which metal is formed. The wheels - one above and one below - are rolled against one another with a piece of sheet metal between, under a pre-adjusted pressure setting. The wheels roll as the sheet metal is moved back and forth. Shaping results as the lower wheel is forced under pressure into the metal, stretching and forming it.

- Quick and easy, tooling-free wheel change.
- Convenient wheel storage brackets attached to unit.

Part Number	Capacity	Throat	Head Opening	O.A. Height	Shipping Weight
45-373-45	1/8" Alum. 16 ga. Mild	45" (114 cm)	6" (15 cm)	63" (160 cm)	575 lbs (261 kgs)



*For Hammers & Mallets See Pages 165*

**Jet® Planishing Hammer**

F.O.B. FACTORY



*Large 24" Throat*

*Includes 2 Die Set Brackets*

*Quick Change Upper Dies*

*Comfortable Foot Control Operation*

- Smooths beads and forms steel sheet metal up to 16 gauge, alum. & copper up to 1/8" thick.
- Supplied with two pair of upper & anvil die sets.
- Three position airflow regulates speed of pneumatic hammer\*.

Part No.	Throat	Head Opening	Shipping Weight
PH-24	24"	2-1/2"	250 lbs (113 kgs)

\* 1800-2000, 3200-3500 & 4400-4600 BPM ranges. Required air pressure 90-120 PSI.

**Tennsmith® Hand Rotary Machine**

*Smooth, Fast & Precise Operation*



*Made In The USA*

- Includes six rolls: beading, turning, closing, jogging, flanging & crimping.
- Adjustable roll pressure.
- Table mount with clamp.
- Unit can be used in both forward & reverse.

22 Gauge Mild Steel Capacity			
Part Number	Throat	Height	Ship Weight
R22	7" (178 mm)	16" (41 cm)	67 lbs (30 kgs)