



## Project Tool & Die, Inc.

*Manufacturer of Pro Tube & Pipe Notching,  
Cutting, Piercing and Mitering Equipment*



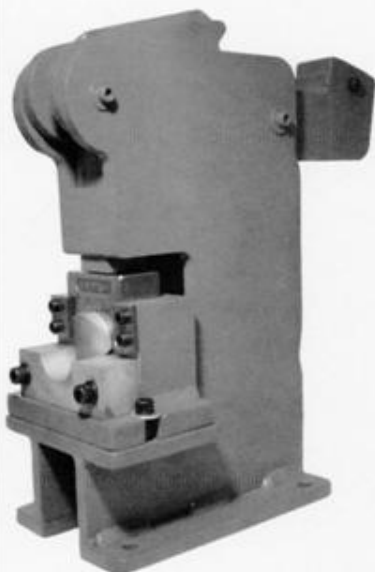
**(530) 243-8903 • Fax (530) 243-8914**

6955 Danyeur Rd. • Redding, California 96001

projecttool1@shasta.com • www.projecttoolanddie.com



**Fabricating Machinery, Inc.**  
**6315 Toronto St. Dallas, TX, 75212**  
**(214) 688-0472**  
**sales@fabmachine.com**



**Project Tool & Die, Inc.** are manufacturers of Tooling for Pipe, Tubing & Extrusions, Using Air Hardening Tool Steel, Specialty Steels For Exotic Metals, End Notching, Piercing, Trimming, Cut Off, Flattening & Mandrel Dies. Single Notch, Double Notch, Angle Notch & Picket Fence Dies. Specializing in The Design & Building of Custom Dies. Typical End Users: Furniture, Automotive, Motorcycle, Scaffolding, Livestock, Fencing, Wrought Iron, Exercise, Medical Industries & Aircraft.

# NO. 1000 SERIES SINGLE TUBE & PIPE NOTCHING UNITS

#1000 STD. HOUSING TO ACCEPT PUNCH AND DIE ASSEMBLIES UP TO AND INCLUDING 2½" OUTSIDE DIMENSIONS



APPROX. SHIPPING WEIGHT 9 LBS.

CLEVELAND STEEL TOOL



HYDRAULIC MACHINE INC.



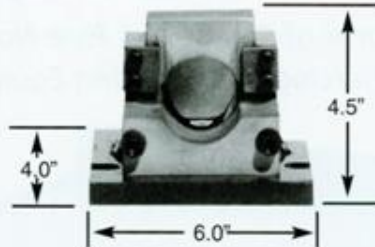
MUBEA



SPARTAN

FOR PRODUCING 90° OR T-JOINTS USED IN POWER OR #8000 HAND PRESS SEPARATE PUNCH AND DIE REQUIRED FOR EACH OUTSIDE DIMENSION

APPROX. SHIPPING WEIGHT 15 LBS.



Std, Single Notch Unit to notch 1¼" - 40 pipe fully assembled

FOR A SMALL SURCHARGE WE OFFER THE FOLLOWING BASE PLATES AS STOCK ITEMS

CLAUSING METAL MUNCHER



PIRANHA



PEDDINGHAUS



PUNCH & DIE ASSEMBLY TO NOTCH 1½" STD. PIPE. UNITS WILL NOTCH FROM INSIDE OUT.



APPROX. SHIPPING WEIGHT 6 LBS.

EDWARDS



KINGSLAND



SCOTCHMAN



UNI HYDRO



# NO. 1000 H.D. SINGLE TUBE & PIPE NOTCHING UNITS

TOOLING TO NOTCH .187x2¼" LONG SLOT INTO 1"x2"x.087 RECTANGULAR TUBING

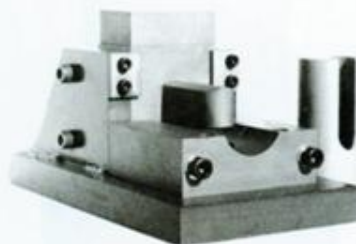


NO. 1000 H.D. HOUSING FOR APPLICATIONS EXCEEDING 8 TONS



APPROX. SHIPPING WEIGHT 13 LBS.

TOOLING TO CUT SLOT .700 WIDE x 2.250 DEEP INTO 1½"-40 PIPE



# NO. 1000-1 SINGLE TUBE & PIPE NOTCHING UNITS

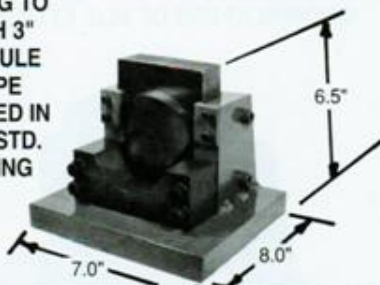
#1000-1 STD. HOUSING



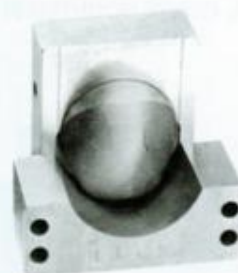
APPROX. SHIPPING WEIGHT 24 LBS.

NO. 1000-1 HOUSING WILL ACCEPT TOOLING FROM 2½" TO 3½" OUTSIDE DIM.

TOOLING TO NOTCH 3" SCHEDULE 40 PIPE MOUNTED IN 1000-1 STD. HOUSING



1130-1 TOOLING TO NOTCH 3" SCHEDULE 40 PIPE



APPROX. SHIPPING WEIGHT 12 LBS.

TOOLING TO NOTCH 4 EQUALLY SPACED SLOTS 1"x2½" LONG. INDEXING NOT SHOWN



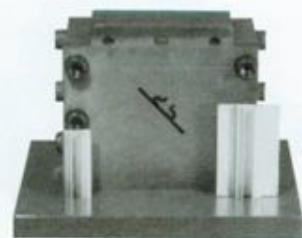
TOOLING MOUNTED IN MODIFIED 1000-1 HOUSING TO CUT OF STRIP-STOCK 3/16"x1" AT 7° ANGLE



TOOLING MOUNTED IN MODIFIED 1000-1 HOUSING TO CUT OF STRIP-STOCK .250x3" ALU. STOCK

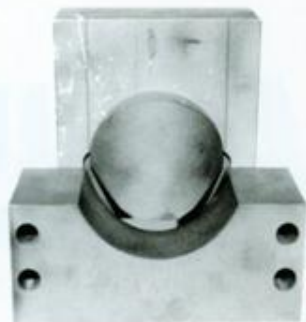


# SLUG-FREE CUT-OFF DIES



# NO. 1000-2 SINGLE TUBE & PIPE NOTCHING UNITS FOR MAKING 90° OR T-JOINTS FOR USE IN POWER PRESS ONLY

PUNCH AND DIE ASSEMBLY  
FOR 4" PIPE SCHED 40.



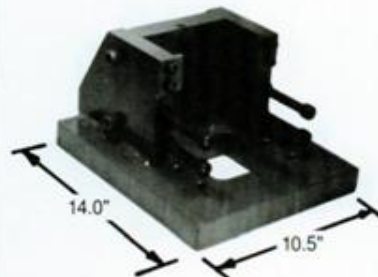
APPROX. SHIPPING WEIGHT 42 LBS.

TOOLING FOR 4" PIPE SCHED. 40 MOUNTED IN  
NO. 1000-2 STD. HOUSING.



APPROX. SHIPPING WEIGHT 100 LBS.

1000-2 STANDARD HOUSING TO  
ACCEPT PUNCH AND DIE ASSEMBLIES  
FROM 3 1/2" O.D. TO 4 1/2" O.D.



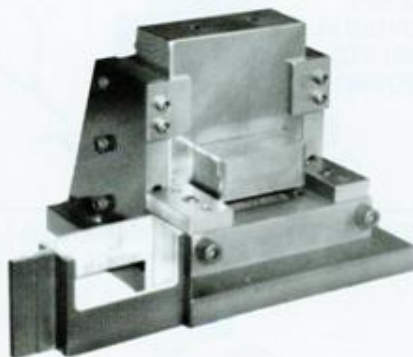
APPROX. SHIPPING WEIGHT 55 LBS.

## #1000-3 NOTCH UNITS

4 1/2" SCH. 40 PIPE MOUNTED IN 1000-3  
STD. HOUSING

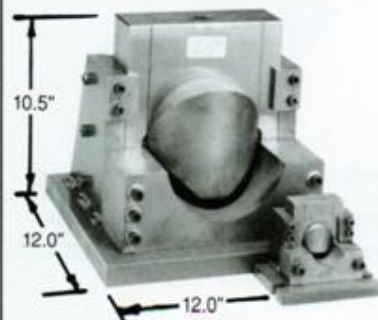


SPECIAL TOOLING MOUNTED IN 1000-3 MODI-  
FIED HOUSING TO NOTCH 2" DEEP x 4" WIDE  
OPENING AT END OF ALU. EXTRUSION



## 1000-4 NOTCH UNITS

6" SCH. 40 PIPE MOUNTED IN 1000-4.  
STD. HOUSING FOR DIM. COMPARI-  
SON 1 1/2" SCH. 40 IN FRONT



NOTCHING IS AN ACCURATE AND ECONOMICAL WAY FOR THE FAST AND SPEEDY END PREPARATION OF TUBING OR PIPE. NOTCHES WILL BE VIRTUALLY DISTORTION FREE (IDEAL FOR SILVER SOLDERING OR BRAZING.)

PUNCH WILL NOTCH FROM INSIDE OUT. TUBING OR PIPE WILL BE SUPPORTED BY ACCURATELY CONTOURED DIE-SECTIONS.

FOR FIRST CUT SLIP TUBING OR PIPE OVER PUNCH, THEN CYCLE PRESS. FOR SECOND CUT ROTATE TUBING OR PIPE 180°. LINE UP FIRST CUT WITH PUNCH AND OUTSIDE CONTOUR WITH DIE-SECTION, THEN RECYCLE PRESS. NO EXTRA FINISHING WILL BE REQUIRED.



BACK TO BACK  
HOUSING TO  
ACCOMMODATE TWO  
PUNCH DIE  
ASSEMBLIES OF  
SAME OR DIFFERENT  
DIM. P.O.R.



TRIPLE HOUSING TO  
ACCOMMODATE THREE  
PUNCH & DIE  
ASSEMBLIES OF  
SAME OR DIFFERENT  
DIM. P.O.R.

## NO. 1300 FLATTEN AND TRIM DIE FOR SQUARE TUBING



FLATTEN TO  
CREATE  
SPEAR POINT

PLEASE CALL WITH TUBE DIMENSION

TOOLING TO FLATTEN - TRIM AND IF REQUIRED PIERCE WITH SINGLE STROKE OF MECHANICAL OR HYDR. PRESS.



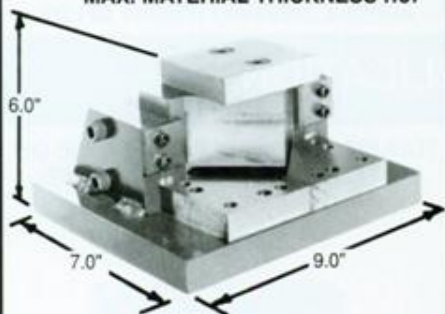
## NO. 1350 FLATTEN TRIM AND PIERCE DIE FOR ROUND TUBING



PLEASE CALL FOR QUOTATION

## NO. 1400 SERIES V-NOTCH DIES FOR FLAT STOCK

NO. 1400-2 MAX. DEPTH OF CUT 2".  
MAX. MATERIAL THICKNESS .187



APPROX. SHIPPING WEIGHT 32 LBS.

LARGER SIZES AND DIFFERENT ANGLES QUOTED ON REQUEST

NO. 1400-1 MAX. DEPTH OF CUT 1". MAX. MAT. THICKNESS .187



APPROX. SHIPPING WEIGHT 15 LBS.

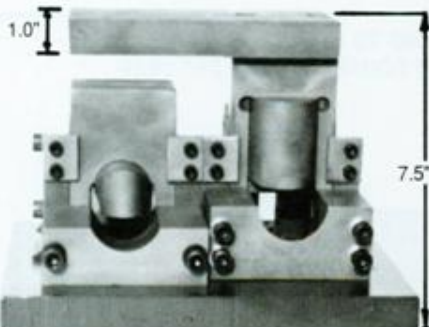
NO. 1400-3 MAX. DEPTH OF CUT 3".  
MAX. MAT. THICKNESS .125



APPROX. SHIPPING WEIGHT 63 LBS.

## NO. 1500 ANGLE NOTCH UNIT FOR USE IN POWER PRESS

NO. 1515 TOOLING FOR 1½"-SCHEDULE 40 MOUNTED INTO NO. 1500 STANDARD HOUSING



APPROX. SHIPPING WEIGHT 62 LBS.

NO. 1500 ANGLE NOTCH UNITS HAVE BEEN DESIGNED TO PRODUCE ACCURATE TRUE CONTOURED NOTCHES ON TUBING OR PIPE. THE NOTCH IS IDEALLY SUITED FOR WELDING, BRAZING OR SILVER SOLDERING.

EACH UNIT CONSISTS OF TWO PUNCH AND DIE ASSEMBLIES REQUIRING TWO OPERATIONS TO COMPLETE PART. TWO PARTS HOWEVER CAN BE INSERTED IN TOOLING TO FINISH ONE PART PER PRESS CYCLE.

IN FIRST STATION TUBING OR PIPE IS INSERTED TO PRODUCE A DEEP CUT WITH RADIUS OR ELLIPTICAL END. IN SECOND STATION TUBING OR PIPE WILL BE INSERTED AT THE REQUIRED ANGLE AND FIRST NOTCH LINED UP WITH PUNCH OF SECOND OPERATION. PUNCH THEN WILL SHAVE TWO SIDE WALLS ON DOWNSTROKE PLUS CUT BOTTOM SIDE OF TUBING OR PIPE IF REQUIRED.

NO. 1500 DOUBLE HOUSING TO ACCEPT PUNCH & DIE ASSEMBLIES UP TO 1.900 O.D.



APPROX. SHIPPING WEIGHT 35 LBS.

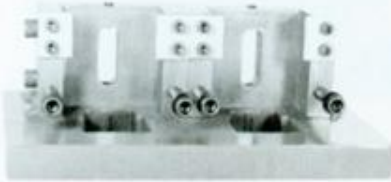
NO. 1515 ANGLE NOTCH TOOLING TO NOTCH 1½" SCHED. 40 PIPE AT 35° STAIRRAIL CONFIGURATION



# NO. 1550 ANGLE NOTCH TOOLING

## FOR USE IN POWER PRESS. 3 PRESS CYCLES REQUIRED

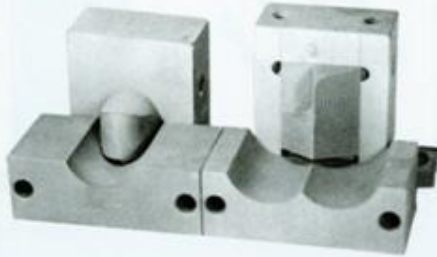
NO. 1550 DOUBLE HOUSING TO ACCEPT PUNCH AND DIE ASSEMBLIES TO 1.900 O.D. MAX.



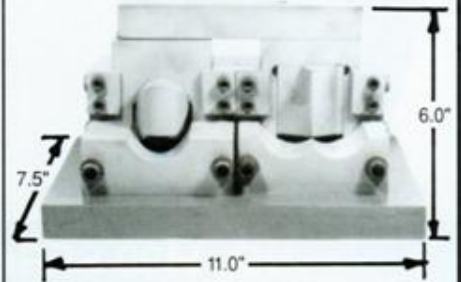
APPROX. SHIPPING WEIGHT 32 LBS.

SUITABLE FOR LONG SECTIONS OF TUBING OR PIPE. 3 HITS REQUIRED TO COMPLETE OPERATION. SEPARATE PUNCH AND DIE ASSEMBLIES REQUIRED FOR EACH O.D. AND ANGLE

NO. 1565 PUNCH & DIE ASSEMBLIES TO NOTCH 1½" SCH. 40 PIPE AT 35°



NO. 1565 TOOLING FOR 1½"-SCH. 40 MOUNTED IN NO. 1550 DOUBLE HOUSING



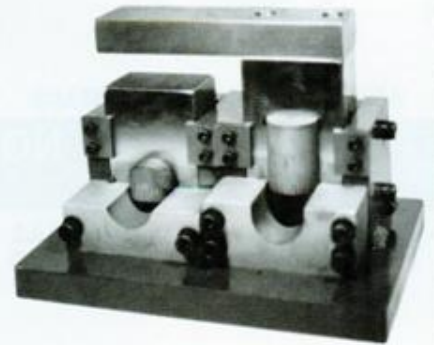
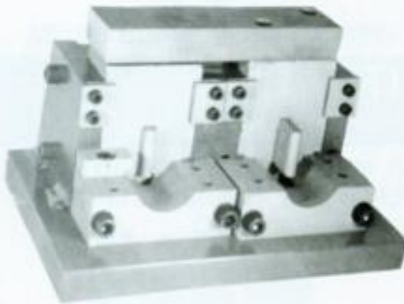
APPROX. SHIPPING WEIGHT 59 LBS.

## NO. 1500 & NO. 1550 SPECIAL APPLICATIONS

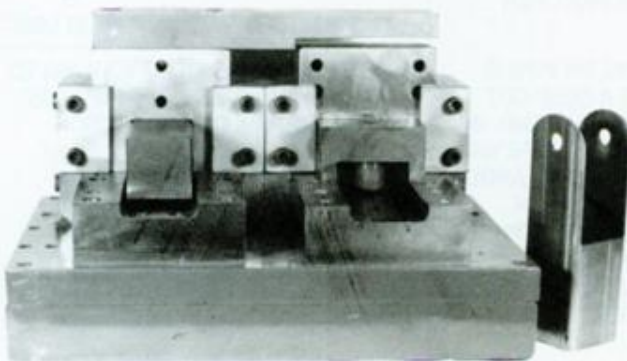
TOOLING TO PRODUCE HUB MANUFACTURED FROM SCHEDULE 80 STAINLESS

2-3 PRESS CYCLES ARE REQUIRED IN MOST CASES. HOWEVER USING OUTRIGGERS TO LOCATE PART, ONE COMPLETED PART CAN, IN MOST INSTANCES, BE OBTAINED PER PRESS CYCLE

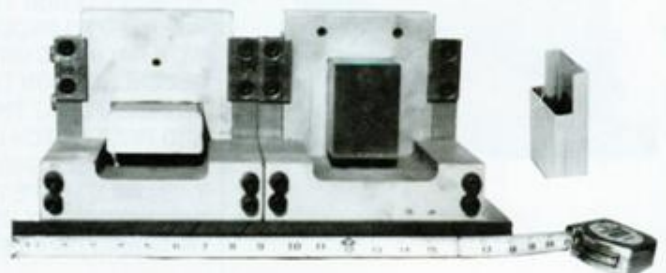
TOOLING TO PRODUCE KNIFE EDGE ON 1½" SCHEDULE 40 STAINLESS STEEL



TOOLING TO PRODUCE PART AS SHOWN. 4 PRESS CYCLES ARE REQUIRED

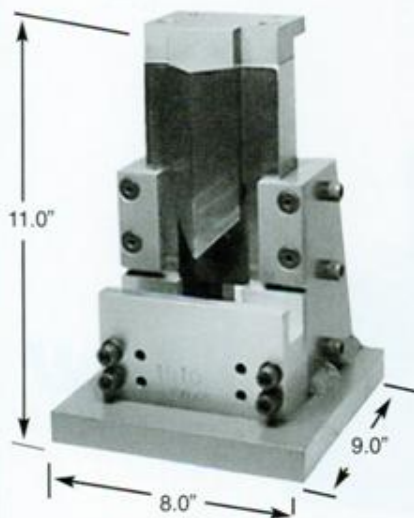


TOOLING TO REMOVE HALF OF 4"x4"x.125 SQUARE TUBING 2½" DEEP



# NO. 1800 VEE-NOTCH DIE

NO. 1810 FOR 1.00 X 1.00 SQUARE TUBING FRONT LOAD UNIT



APPROX. SHIPPING WEIGHT 56 LBS.

FOR SQUARE OR RECTANGULAR TUBING. LIGHT DISTORTION ON SIDE OF ENTRY. DIFFERENT INSERTS FOR EACH SIZE AND ANGLE

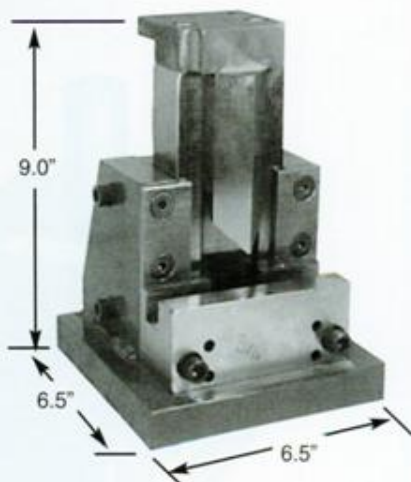


TOOLING LINED UP TO MANUFACTURE FRAME USING 3/4"x3/4"x.065 SQUARE TUBING



STROKE REQUIREMENT FOR FRONT LOAD UNIT MATERIAL - DIM X3

NO. 1807 FOR 3/4"x3/4" SQUARE TUBING. FRONT LOAD UNIT.

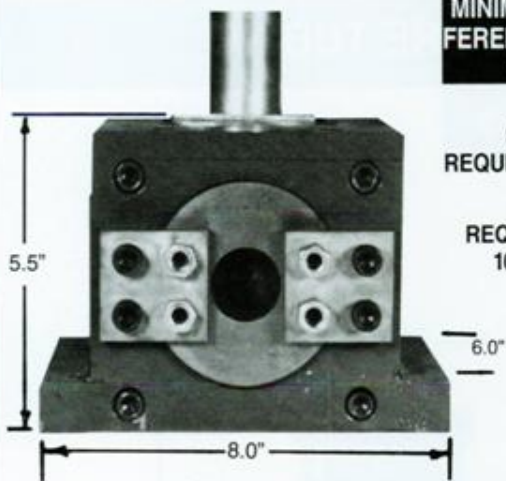


APPROX. SHIPPING WEIGHT 38 LBS.

# NO. 2000 DOUBLE NOTCH UNITS

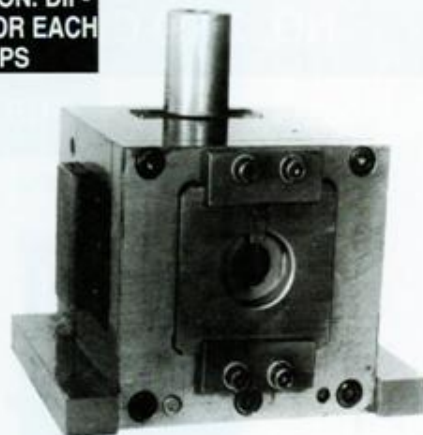
DOUBLE NOTCH DIES CUT BOTH SIDES OF TUBING WITH SINGLE STROKE OF PRESS ASSURING ACCURACY WITH MINIMUM BURR AND DISTORTION. DIFFERENT INSERTS REQUIRED FOR EACH O.D. OR DIFFERENT FIT-UPS

SPECIAL APPLICATION. PLEASE CALL FOR FREE ESTIMATE



APPROX. SHIPPING WEIGHT 52 LBS.

STROKE REQUIREMENT 2"-3"  
PRESS REQUIREMENTS 10-15 TONS

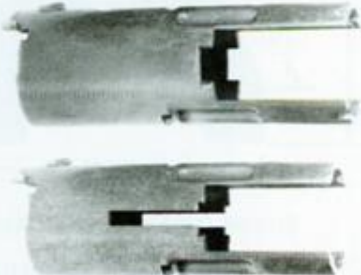


2 OPERATIONS REQUIRED TO FINISH PART ILLUSTRATED ON BOTTOM. 1ST OPERATION NOTCHES OUT SLOT. .600 WIDE X .800 DEEP ON BOTH SIDES OF PUNCH PRESS PRODUCED PART. WITH CHANGEOVER OF TOOLING .090 BY 1.450 TOTAL LENGTH SLOT PART IS COMPLETED.

No. 2000 INSERTS FOR 1 1/4" O.D. x .049 WALL



APPROX. SHIPPING WEIGHT 12 LBS.

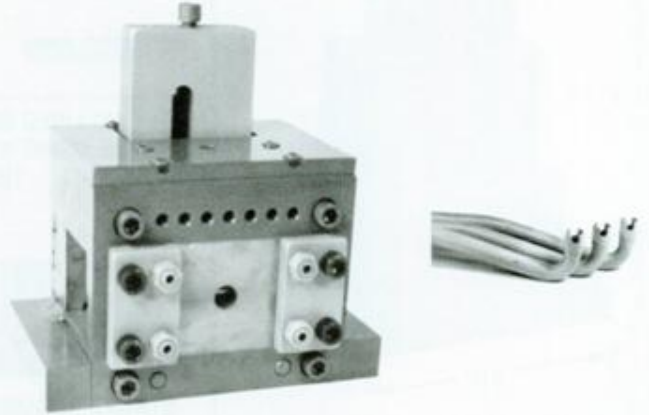
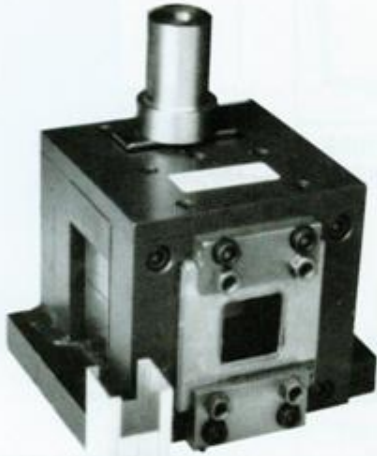


# NO. 2000 DOUBLE NOTCH DIE

DOUBLE UNIT TO NOTCH BOTH SIDES  
1.000 WIDE BY 1.000 DEEP WITH ONE  
PRESS CYCLE

SPECIAL APPLICATIONS PLEASE CALL  
FOR FREE ESTIMATE

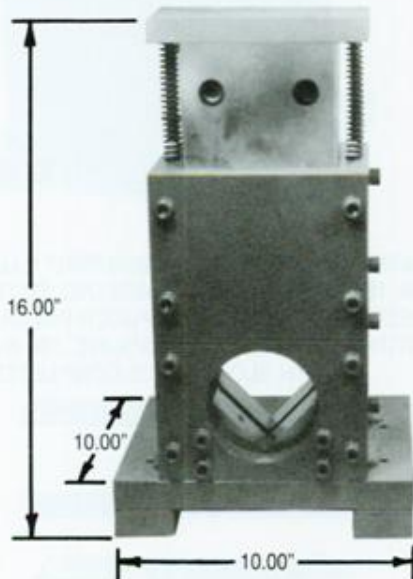
DOUBLE UNIT TO NOTCH TWO SLOTS  
5MM WIDE X 6.1MM DEEP. 180° OPPOSED  
IN ONE PRESS CYCLE



# NO. 3000 CUT OFF DIE FOR SQUARE TUBING

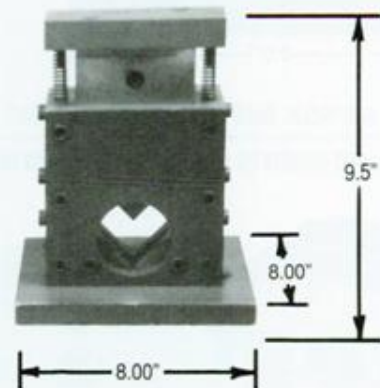
FOR USE IN POWER PRESS

MAX. CAPACITY 2 1/2"



SHIPPING WEIGHT APPR. 150 LBS

MAX. CAPACITY 1 1/2"



SHIPPING WEIGHT APPR. 55 LBS

STROKE REQUIREMENT TUBING TO BE CUT x 1.5"



## No. 4000 SWAGING DIE

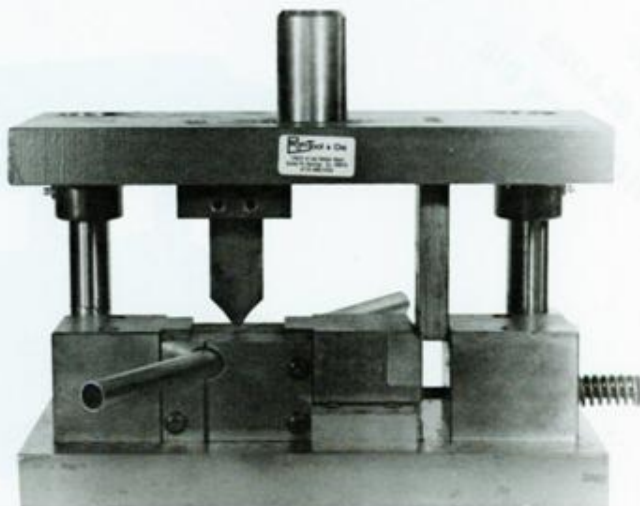
FOR USE IN POWER PRESS  
CALL FOR FREE ESTIMATE



## NO. 4500 ANGULAR TUBE CUT OFF DIE

ONE SET OF  
INSERTS and BLADES  
INCLUDED WITH EACH DIE

AVAILABLE WITH HORIZONTAL  
CROSS CUT  
ROUND TUBING ONLY - 60° MAX.  
DETAILS ON REQUEST



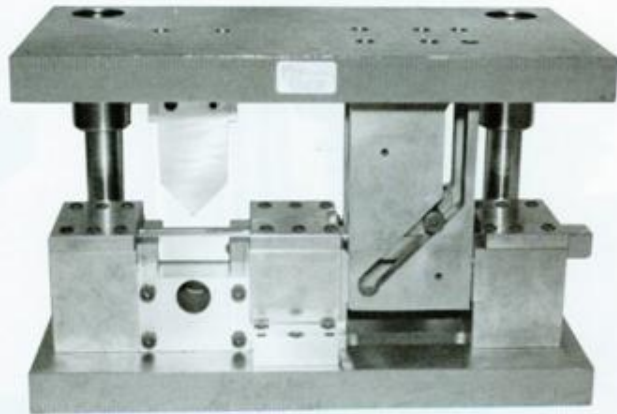
PLEASE CALL FOR DETAILS

# NO. 5000 STD. TUBE CUT OFF DIE

FOR USE IN POWER PRESS,

Tube Cut Off Die cuts off tubing to required length, leaving ends clean with minimum burr or distortion.

ONE SET OF  
INSERTS and BLADES  
INCLUDED WITH EACH DIE



Set of inserts needed for each O.D.

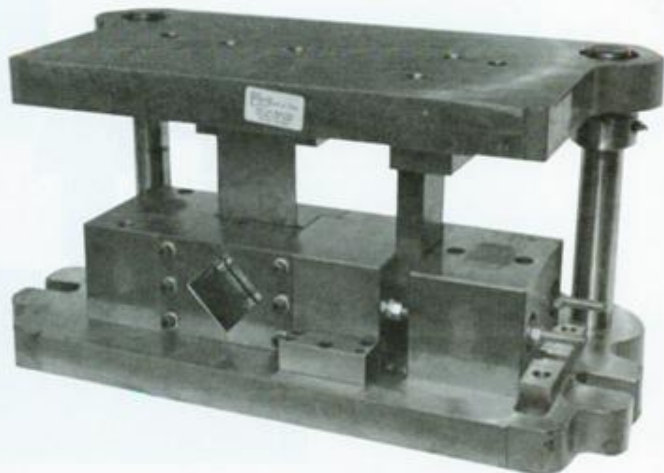
MAXIMUM CAPACITY				SHUT HEIGHT	STROKE
5000 - 1	1" Round		1/2 x 1 1/4 Rectang.	7"	4"
5000 - 2	2" Round	1 1/2 Square	3/4 x 2 Rectang.	9"	6"
5000 - 3	3" Round	2" Square	1 1/4 x 2 1/2 Rectang.	11"	8"

# NO. 6000 STD. ECONO TUBE CUT OFF DIE

FOR USE IN POWER PRESS, 7" SHUT HEIGHT, 3" MINIMUM STROKE 35 TONS

Ends of tubing will be sheared square. Will give light distortion on top of thin wall round tubing (dimple effect).

ONE SET OF  
INSERTS and BLADES  
INCLUDED WITH EACH DIE

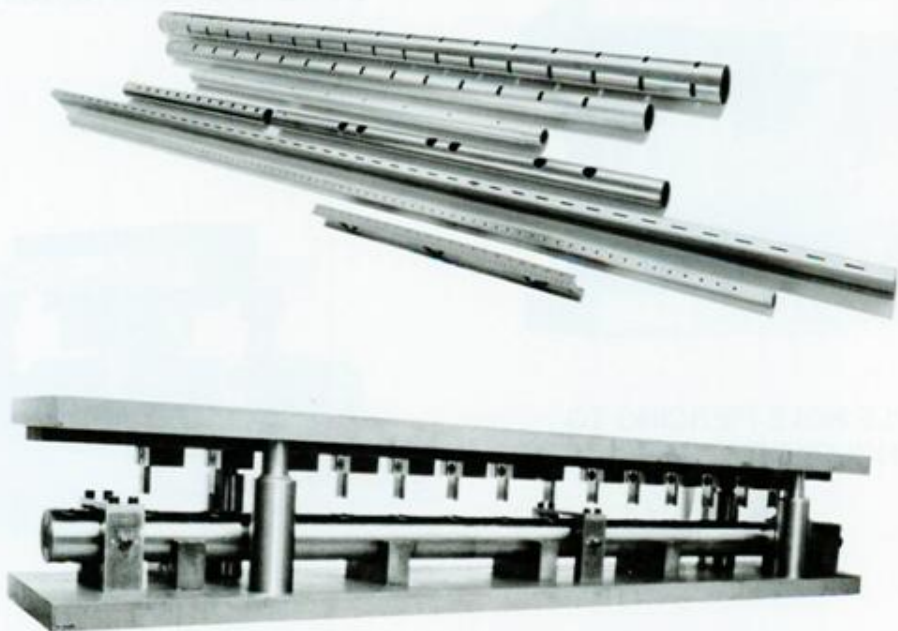


**INSERTS:**

Same as #5000 - 2 unit

## PIERCE TOOLING, MANDREL TYPE

TOOLING TO PUNCH 18 SLOTS .375 x 1.125 ON 4" CENTERS INTO 3" ROUND 089 TUBING

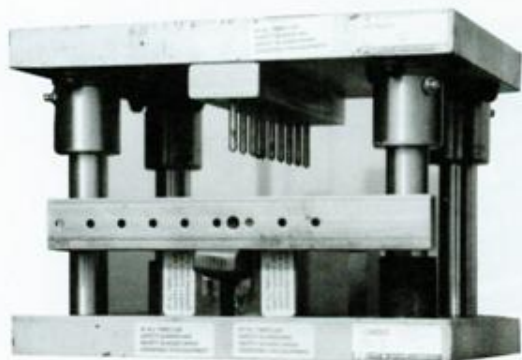


To pierce square, round or rectangular tubing or pipe with minimum burr or distortion. 1 side only or 2 sides. 96" maximum length.

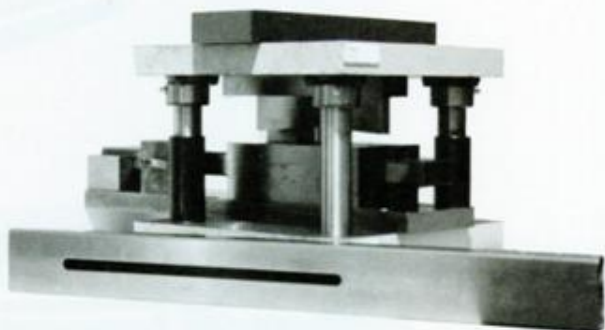


PRICE AND DETAILS QUOTED ON REQUEST

$\frac{3}{8}$  X 9" LONG SLOT PUNCHED INTO  
1 $\frac{1}{4}$  X 2" X 120 WALL RECTANGULAR TUBING.  
2 PRESS CYCLES REQUIRED



MULTIPLE HOLE PIERCING TO  
PIERCE 10 HOLES PER PRESS CYCLE

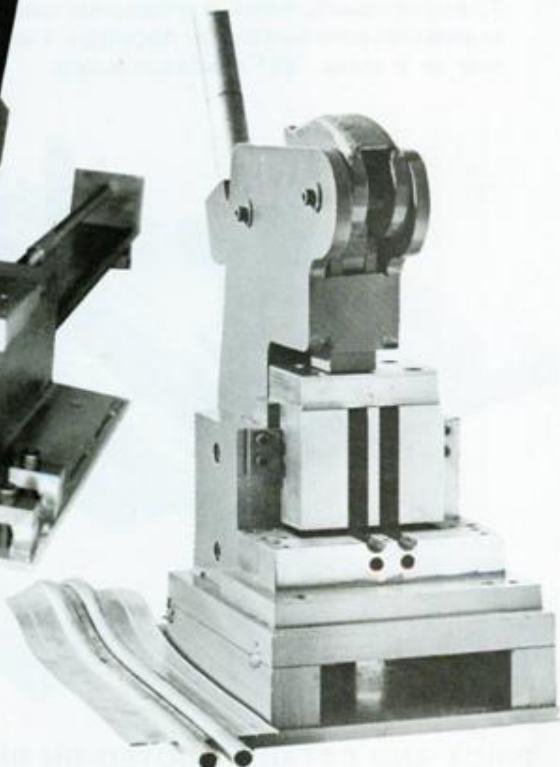
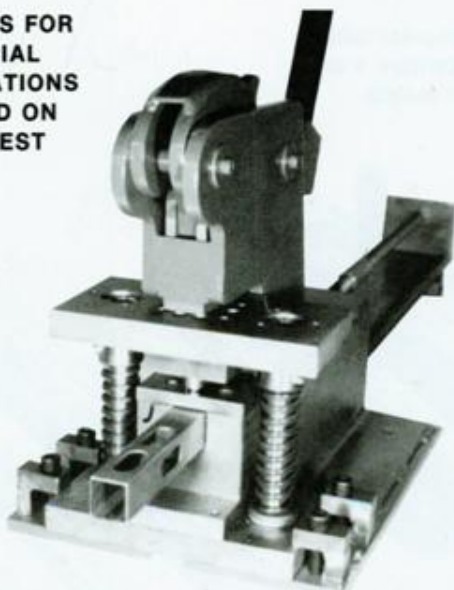


## NO. 8000 PRO HAND PRESSES

PRESSES FOR  
SPECIAL  
APPLICATIONS  
QUOTED ON  
REQUEST



UNIT NOT INCLUDED  
SOLD SEPARATELY



Will accommodate our #1000 series housing  
notch up to 2" std. pipe or tubing to 2-1/2"  
O.D. will be shipped completely assembled  
HANDLE (1" PIPE) NOT INCLUDED