

Hydraulic Tubing Notcher Female Die Assembly Instructions

CAUTION: Read and Understand

These Instructions, Before Using This Machine.

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WHEN NOTCHING 0.120" OR THICKER WALL THICKNESS PIPE OR TUBING

Install Additional 0.005" Thick Brass Shim

plus the standard 0.015" shim between female die & notcher frame = 0.020" total shim thickness

See item 20 (Drwg. 100) or item 21 (Drwg. 100-U)

#100-104 0.005" Thick Brass Shim - Qty. 2

Punch To Die Rule Of Thumb

Aluminum = 10% Material Thickness

Mild Steel = 10% Material Thickness

Stainless Steel = 15% Material Thickness

Blade Clearances For Mild Steel		
Mittler Brothers Machine & Tool		
Gauge or	Decimal	Overall Clearance
Thickness	Thickness	To Add To Punch Size
30	.0120	Slip Fit
28	.0149	Slip Fit
26	.0179	.002
24	.0239	.003
22	.0299	.003
20	.0359	.004
18	.0478	.005
16	.0598	.006
14	.0747	.007
13	.0897	.009
12	.1046	.010
11	.1196	.012
1/8	.125	.012
10	.1345	.013
9	.156	.015
8	.164	.017
7	.1793	.021
3/16	.1875	.023
1/4	.250	.037
5/16	.3125	.047
3/8	.375	.057
1/2	.500	.075
5/8	.625	.125
3/4	.750	.150

100 Hydraulic Tubing Notcher Set-Up

Female Die (#7) to Main Frame (#3):

- 1. Insert 3/8-16 x 2-1/2" Socket Head Cap Screws (gty. 4) (#13) through low frame holes.
- 2. Install 0.015" thick Brass Shims (#20) over thread on SHCS one per side.

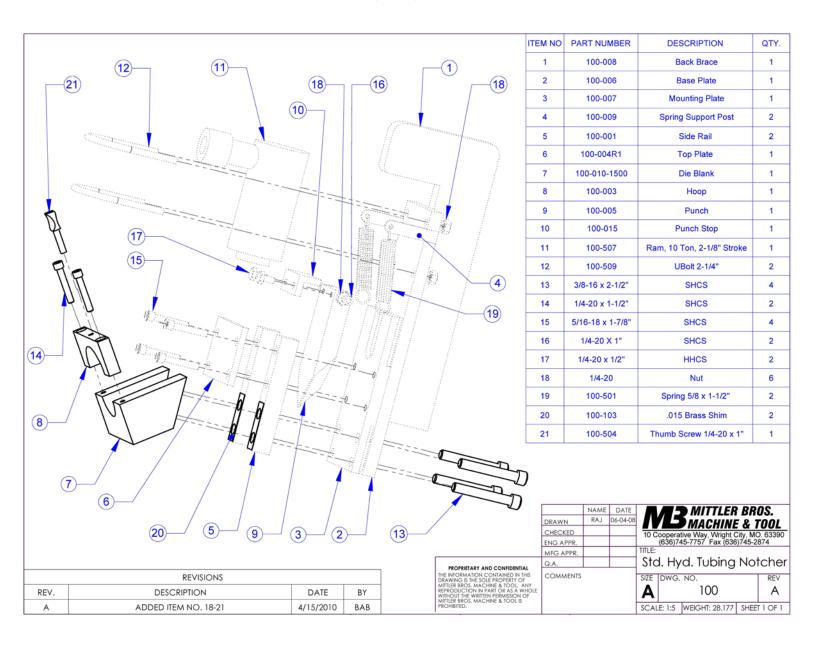
WHEN NOTCHING 0.120" OR THICKER WALL THICKNESS PIPE OR TUBING

Install Additional 0.005" Thick Brass Shim plus the standard 0.015" shim between female die & notcher frame = 0.020" total shim thickness

- 3. Thread SHCS into Female Die (#7).
- 4. Tighten SHCS.

Tube Hold Down Clamp Assembly:

- Install ¼-20 x 1-1/2" Socket Head Cap Screws (#14) (qty. 2) through Clamp Hoop (#8).
- 2. Thread SHCS (#14) into Female Die (#7).
- Tighten SHCS.
- 4. Install 1/4-20 x 1" Thumb Screw (#21) into Clamp Hoop (#8).



100-U Heavy Duty Hydraulic Tubing Notcher Set-Up

Female Die (#5) to Main Frame (#3):

- 1. Insert 3/8-16 x 2-1/2" Socket Head Cap Screws (gty. 4) (#12) through low frame holes.
- 2. Install 0.015" thick Brass Shims (#21) over thread on SHCS one per side.

WHEN NOTCHING 0.120" OR THICKER WALL THICKNESS PIPE OR TUBING

Install Additional 0.005" Thick Brass Shim plus the standard 0.015" shim between female die & notcher frame = 0.020" total shim thickness

- Thread SHCS into Female Die (#5).
- 4. Tighten SHCS.

Tube Hold Down Clamp Assembly:

- 1. Install ¼-20 x 1-1/2" Socket Head Cap Screws (#15) (qty. 2) through Clamp Hoop (#9).
- 2. Thread SHCS (#15) into Female Die (#5).
- 3. Tighten SHCS.
- 4. Install 1/4-20 x 1" Thumb Screw (#20) into Clamp Hoop (#9).

