UNI-HYDRO

PRO

105-24

IRONWORKER

4-STATION PRO SERIES HYDRAULIC IRONWORKER

EST. 1974

UNI-HYDRO

UNI-HYDRO

For over 45 years Uni-Hydro has built the finest line of ironworkers, plate shears and punch tooling in the fabrication industry. All Uni-Hydro machines feature our patented linkage system and are engineered for exceptional performance and longevity. The result is each ironworker does exactly what an ironworker is supposed to do; cut, bend, notch and punch steel with the least amount of deformation possible.

Some people call us the best kept secret in the Machine Tool Industry. We hope you enjoy exploring our machines and decide to put a legendary Uni-Hydro on your shop floor soon!

FOR MACHINERY & TOOLING INQUIRIES CALL OUR SALES TEAM AT

(800) 328-0036

PRO 105 TON

MODEL PRO 105-24 IRONWORKER

** Shown with optional Universal Sever Housing*

If you appreciate well-built machinery, the Uni-Hydro **Model 105-25** is the ironworker for you. This machine has been overbuilt on massive scale to handle the toughest fabrication job with ease. Competitor ironworkers are not only dwarfed by the size of "The 105", most don't even offer a true integrated 4-station design. They attempt to weld on a notcher and claim a 4th, NOT us! The PRO Series of Uni-Hydro are machines designed with a **Flat Bar Shear, Power Cavity, Punch Station** and **Notching Station**.

FEATURES:

- 105 Ton Open Throat Punch with Manual punch aligner
- Full 4th Notcher Station - Choice of Square, V Coper or Pipe Notcher
- 24" low-rake Bar Shear with 4-Sided Blade
- Flat Bar Shear Table
- Fixed or adjustable flat bar shear hold down
- Magnetic starter for safety & reliability
- Variable stroke control
- 2-1/4" Stripper
- L 150 and 500 Series punch & die adaptor kit that accepts up to 2-1/4" diameter punches
- Grease bank for lubricating machine without removing covers
- Electric foot control
- Eyelet & forklift accommodations

SPECIFICATIONS

Model	PRO 105-25
Tonnage	105
Throat Depth	12"
Punch	2-5/8" hole in 1/2" mild steel 1-3/4" hole in 3/4" mild steel 1-5/16" hole in 1" mild steel
Bar Shear	1/4" x 24", 1/2" x 20", 3/4" x 12", 1" x 8"
Angle Shear 90°	Slug Type - 6" x 6" x 1/2" Sever Cut - 4" x 4" x 1/2"
Miter Angle 45°	Slug Type - 4" x 4" x 1/2" Sever Cut - 4" x 4" x 3/8"
Rod Shear	Round (Max) - 1-1/4" Square (Max) - 1-1/4"
Coper Notcher 90°	Notcher Station 3" x 3" x 1/4" Punch/Power Cavity 4" x 4" x 1/2"
Square Notcher	Notcher Station 3" x 3" x 3/8" Punch/Power Cavity 3" x 3" x 3/8"

Pipe Notcher (Sch 40 or 80)	1/2", 3/4", 1", 1-1/4", 1-1/2", 2" - Larger avail
Brake	6", 9", 14", 18", 24" capacity
Channel Shear	2", 3", 4", 5", 6"
Strokes Per Min Light Material Max Capacity	Light Material - 40 Max Capacity - 8
Hydraulics	3,000 psi
Oil Capacity	28 gallons
Motor	Standard - 7.5 HP, 220v / 3ph Optional - 7.5 HP / 1ph
Dimensions (L x W x H)	61.5" x 41" x 69.5"
Weight	4,640 lbs

TOOLING AND ACCESSORIES - PAGE 18 & 19

UNI-HYDRO IRONWORKER
PRO 105-24 FEATURES

LOAD BEARING PINS

MANUAL PUNCH ALIGNER

LIFT HOOK

OPTIONAL UNIVERSAL SEVER HOUSING

MAGNETIC STARTER

PUNCH STATION

ADJUSTABLE FLAT BAR SHEAR HOLD DOWN

FLAT BAR SHEAR

AWESOME NEW LOGO

NOTCHING STATION

MADE IN THE USA. NOT ASSEMBLED FROM IMPORTED PARTS. BUILT FROM THE GROUND UP AT OUR FACTORY IN COSMOS, MN

FORKLIFT ACCESS

Outfit your Ironworker for maximum productivity with these exceptional tooling choices, optimized for the Power Cavity, Punch and Notching Stations.

SLUG TYPE ANGLE SHEAR

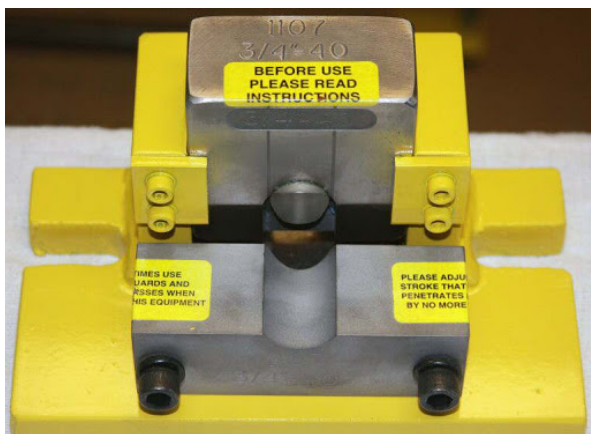
UNIVERSAL SEVER HOUSING FRONT

UNIVERSAL SEVER HOUSING BACK

UNIVERSAL SEVER HOUSING

SPEING RETURN BRAKE

2-PART BRAKE

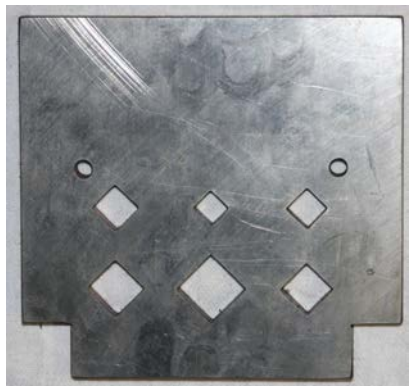


PIPE NOTCHER

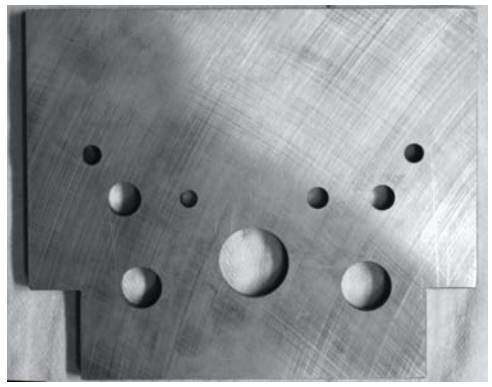
SQUARE NOTCHER

V-COPER NOTCHER

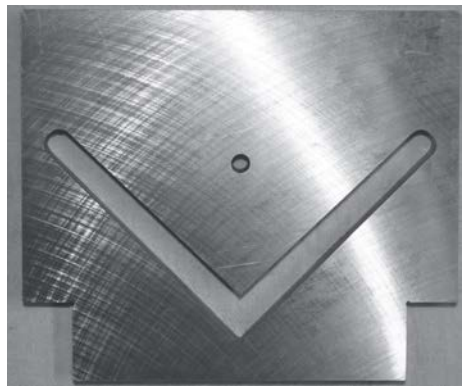
CHANNEL SEVER PLATE



ROD SEVER PLATE



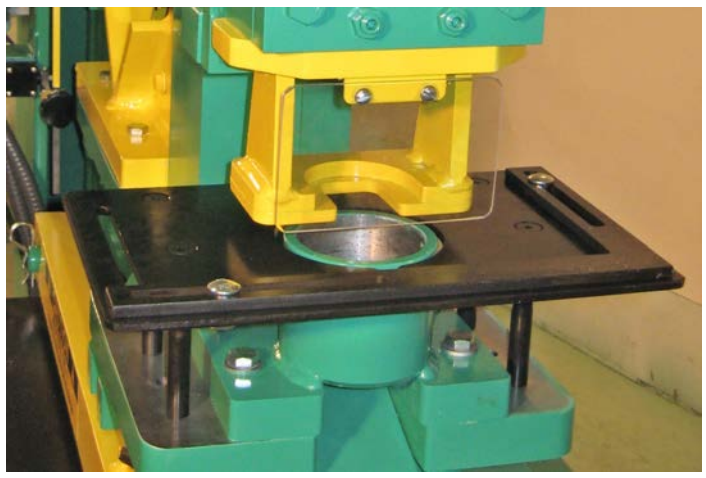
BAR SEVER PLATE



ANGLE SEVER PLATE

ACCESSORIES

OPTIMIZED FOR PRODUCTIVITY



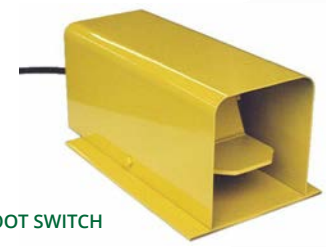
PUNCH TABLE WITH ADJUSTABLE JIG

BAR SHEAR TABLE

STEEL BIN CATCHER

PUNCH & DIE RACK

PUNCH NUT WRENCHES

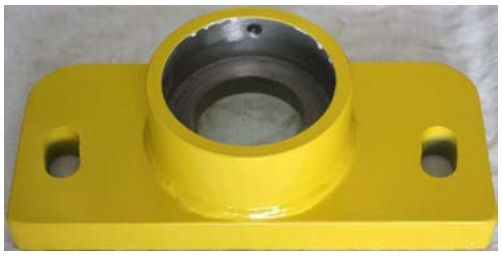


REMOTE FOOT SWITCH

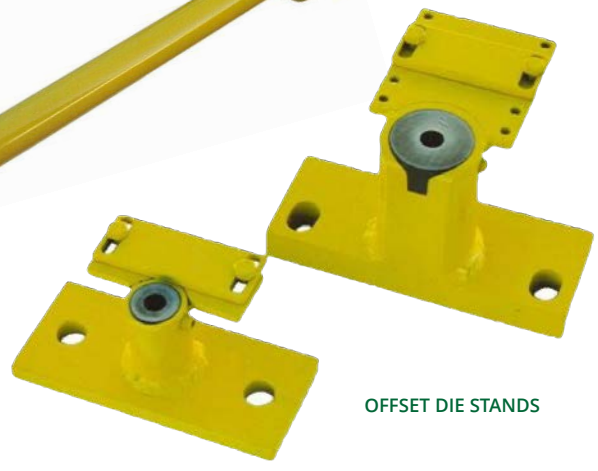
OVERSIZE DIE STANDS

BAR SHEAR STOP

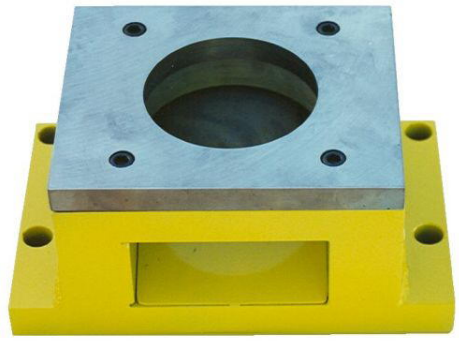
DELUXE BACK GAUGE



OVERSIZE DIE STAND

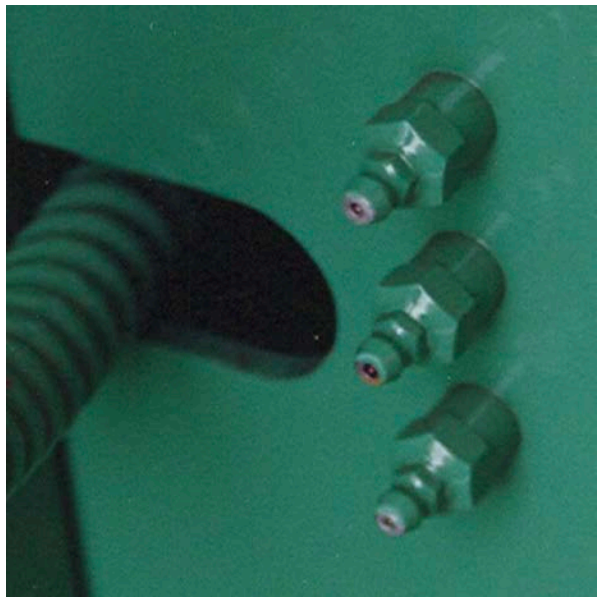


OFFSET DIE STANDS



SPECIAL DIE STAND WITH 7x7 PLATE DIE

OVERSIZE DIE SETS



GREASE BANK

OFFSET DIE STANDS

WHY INVEST IN A UNI-HYDRO?

1

WE HAVE A LONG HISTORY BUILDING IRONWORKERS IN AMERICA

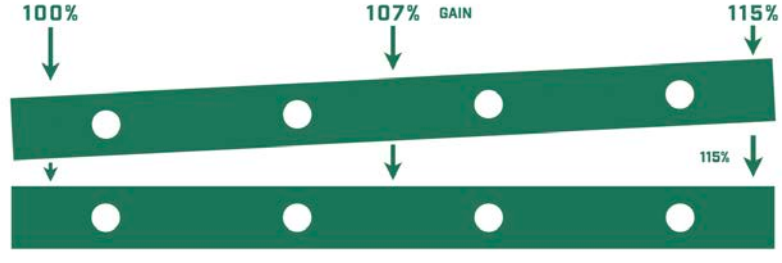
The Dvorak family has been producing hydraulic ironworkers since 1949, with the Uni-Hydro brand in business for over 45 years. Jim Dvorak holds 30 international and 6 stateside patents on ironworkers, with no other ironworker manufacturer or individual coming close to as many patents held by Jim.

2

PATENTED POWER

The patented mechanical linkage system designed by Jim Dvorak moves the working center plate downward with a slight movement which breaks the molecules of steel in multiple directions in a slicing motion. This ensures the cleanest cuts available in the industry. The design methods found on a Uni-Hydro ironworker have incorporated the tooling stations to push in a non-attached or non-binding method. This ensures our punch stations and power cavity stations operate tooling in a vertical position.

UNI-HYDRO SHEARS GAIN POWER UP TO 115% THROUGH THE CUT!



3

ENGINEERED FOR A TIGHT FIT AND FINISH

Our rigorous manufacturing process ensures the primary plates are 100% accurate. Each machine has almost 70% more load bearing pin surface than a competitor's machine. This creates a more efficient working cycle throughout the machine's working process. Coupled with this is our world famous mechanical linkage system, that ensures each guillotine cut on our bar shear is as accurate as is possible.

4

EXCEPTIONAL PUNCHES AND TOOLING

Our tooling doesn't wear out like other machines. Our four-side bar shear blades come with an unconditional 3-Year warranty on the original edge. No other manufacturer offers this guarantee. Our punches and dies are purchased in pairs of the exact same size, not mismatched like the rest of the industry. Each punch and die is coated with oil with a next-level bluing process to prevent oxidation and reduce slag build up. With our punches and dies sitting on the shelf and not rusting you are ensured of getting the best punches & dies for your money.

5

DESIGNED WITH YOUR SAFETY IN MIND

Uni-Hydro machines are designed for safety of an operator, with shields and pedals in exactly the right place. Uni-Hydro Inc is an American based manufacturing company that **protects our company AND customers** with appropriate product Liability Insurance. Even UNI-HYDRO MANUFACTURED Punches, Dies and Tooling are covered by Uni-Hydro's Product Liability Certification when used in a Uni-Hydro ironworker. With Foreign importers depending on liability pass-through to off-shore manufacturers, who do trust more with your valuable purchase dollars?

UNI-HYDRO

IRONWORKER
PUNCH TONNAGE CHART

HOLE DIAMETER	3/16"	5/16"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16'	1"	1-1/8"	1-1/4"	1-1/2"
THICKNESS	PRESSURE IN TONS														
18 GA	0.5	0.7	1.6	1.9	2.1	2.4	2.6	2.8	3.1	3.3	3.5	3.8	4	4.2	5.6
16 GA	0.6	0.9	2.1	2.3	2.6	2.9	3.2	3.5	3.8	4.1	4.4	4.7	4.8	6	7
14 GA	0.7	1.2	2.6	2.9	3.3	3.7	4	4.4	4.8	5.1	5.5	5.9	5	7.2	10
12 GA	1	1.5	3.6	4.1	4.6	5.1	5.7	6.2	6.7	7.2	7.7	8.2	7	10	12
10 GA	1.3	2	4.6	5.3	5.9	6.6	7.3	7.9	8.6	9.2	9.9	10.6	10	13	15
5/32"	-	2.3	5.4	6.1	6.9	7.7	8.4	9.2	10	10.7	11.5	12.3	11	16	19
3/16"	-	2.8	6.4	7.4	8.3	9.2	10.1	11	12	12.9	13.8	14.8	17	19	23
1/4"	-	-	8.6	9.8	11.1	12.3	13.5	14.7	16	17.2	18.4	19.7	23	25	30
3/8"	-	-	12.8	14.8	16.5	18.5	20.2	22.1	23.8	25.8	27.5	29.5	33	38	45
1/2"	-	-	-	19.7	22	24.6	26.9	29.5	31.8	34.4	36.8	39.4	45	50	60
5/8"	-	-	-	-	-	30.8	33.7	36.9	39.9	43	46	49.2	56	63	75
3/4"	-	-	-	-	-	-	-	44.3	47.7	51.7	55.2	59	68	75	90
1"	-	-	-	-	-	-	-	-	-	-	-	80	90	100	120

OVER 20,000 PUNCH & DIE SETS IN STOCK!

CALL TODAY!

UNI-HYDRO INC. - 310 EAST GEMINI AVE. COSMOS, MN 56228. USA

(800) 328-0036

UNI-HYDRO

BUILT IN COSMOS, MN

FOR MORE INFORMATION VISIT

WWW.UNIHYDRO.COM

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