



## IW 110D/2 & IW 110DX/2 SPARTAN IRONWORKER

STANDARD SPARTAN IW110D/2 / IW110DX/2 HEAVY-DUTY, DUAL CYLINDER, COMPLETELY INTEGRATED IRONWORKER WITH 110 TON CAPACITY, 10 H.P., 12" THROAT (D), 20" THROAT (DX), 5 WORK STATIONS AND SIMULTANEOUS DUAL OPERATION.

Capacities & Specifications Rated on 65,000 PSI Tensile

### PUNCHING

**Punch Pressure:** 110 Tons  
**Quick Change Punch Holder and Jog Mode.**  
**Punch Work Table With Back Gauge and Adjustable Stops.**  
**Adjustable See-Through Punch Stripper:** For fast and easy setup.  
**Die Holder:** Adjustable in machined T-slots for quick punch and die alignment.  
**Standard Tooling:** 1-1/2" in 7/8" material.  
CPD Series 26 punch, 62 die  
CST Series 228 punch, 419 die  
**Large Tooling:** 2" in 5/8" material.  
CPD Series SP51P punch, SP80D die  
CST Series 51P punch, 80D die  
**Optional Oversize Tooling:** 8" in 11/64" material.  
**Maximum Channel Flange:** 7"  
**Throat Depth:** 12" (D/2), 20" (DX/2)  
**Stroke Length:** 3-15/16"  
**Cycles per Minute in 3/4":** 24  
**Punching Station Work Height:** 41-1/4"

### FLAT BAR SHEARING

**Flat Bar Shear Capacity:** 24" in 5/8"  
**Maximum Width x Thickness:** 12" in 1"  
**Lower Blade:** Four (4) usable edges.  
**Support Table:** Includes guides for accurate positioning and indicator lines at 30 and 45 degrees left and right.  
**Adjustable Hold-Down:** Holds work piece securely in position when shearing.  
**Upper Shear Blade:** Provides for minimum distortion.  
Two  
(2) usable edges.  
**Blade Length:** 24-3/8"  
**Angle Flange Trim:** 4"  
**Flat Bar Shear Work Height:** 38"

### ANGLE SHEARING

**Maximum Capacity – 90 degrees:** 6" x 6" x 1/2"  
**Maximum Capacity – 45 degrees:** 3-1/8" x 3-1/8" x 3/8"  
**Shearing with no material loss and minimum deformity.**  
**Shear Blades:** Four (4) usable edges.  
**Angle Shear Work Height:** 48-1/4"

### BAR SHEARING

**Round Bar Capacity:** 1-3/4"  
**Square Bar Capacity:** 1-3/4" x 1-3/4"  
**Six Cavity Round and Square Bar Shear Sizes:**  
Round 1/2", 3/4", 1", 1-1/2"  
Square 3/4", 1-1/2"  
**Channel Shear Max. (optional):** 6"  
**I-Beam Shear Max. (optional):** 6"  
**Bar Shear Work Height:** 52-3/4"

### NOTCHING

**Rectangular Notcher:** 2-1/2" x 3-1/2" x 1/2"  
**Electrical Interlock Safety Guard.**  
**Gauge Table with Stops:** For precise positioning.  
**Notcher Work Height:** 38"

### OTHER STANDARD EQUIPMENT

**Five (5) Sets of Punches and Dies:**  
Punches: 9/16", 11/16", 13/16", 15/16", 1-1/16"  
Dies: 19/32", 23/32", 27/32", 31/32", 1-3/32"  
CPD Series 26 punch, 62 die  
CST Series 228 punch, 419 die  
**Magnetic Base Work Light**  
**Adjustable Electrical Back Gauge (39")**  
**24 Volt DC Control Voltage**  
**Scrap Boxes at Punching and Notching Stations**  
**Adjustable Stroke Depth at Punch**  
**Two (2) Full-Control Foot Pedals**  
**Two (2) Hole Die Holder**  
**Two (2) Piece Gauging Table at Punch Station**  
**Keyed Punch Holder, for Shaped Tooling**  
**Standard Voltage 230/460 Volt, 3 Phase, 60Hz**  
**208 or 575 Volt requires Buck Boost:** Call for pricing.  
**Single Phase Machines:** Not Available.  
**Machine Net Weight:** 6,505 lbs. (D/2) 7,608 lbs. (DX)  
**Machine Dimensions:** 74" H x 33" W x 69" L (D/2)  
83"H x 33"W x 71"L (DX/2)

### **Base Price, IW 110D/2**

Complete machine ready to operate.....**\$25,500**

### **Base Price, IW 110DX/2**

Complete machine ready to operate.....**\$29,295**



# AR Tools & Machinery, Inc.

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## OPTIONAL TOOLING AND ACCESSORIES

	<u>Part #</u>	<u>Call for pricing.</u>
208 or 575 Volt requires Buck Boost		
V-Notcher at Notcher Station, (4" x 4" in 1/2")	IWA/3421000	\$1,445.00
V-Notcher at Punch Station, ( 5-3/4" x 5-3/4" in 1/2")	IWA/9021300W	\$2,285.00
Press Brake Single V (2" wide V x 10" long)	IWA/9023491	\$1,340.00
Press Brake Single V (3" wide V x 10" long) (Special Order)	IWA/PB0310	\$1,560.00
Press Brake Single V (4" wide V x 10" long) (Special Order)	IWA/PB0410	\$1,775.00
Press Brake Multi V (3/8", 7/16", 5/8", 15/16" wide V's x 27-1/2" long)	IWA/9023690	\$2,235.00
Angle Bending (4" x 1/2")	IWA/ABL	\$1,390.00
Flat Bar Shear Hydraulic Hold-Down (Special Order w/ machine only)	IWA/340308	\$2,730.00
Hydraulic Punch Stripper (Special Order)	IWA/STBH	\$2,730.00
Electric Back Gauge - 6 ft. (in place of standard 3 ft.)	IWA/1311400	\$ 465.00
Copy Table (IW110D/2) Max. Area 30" x 10-5/8"	IWA/CT34000	\$7,260.00
Copy Table (IW110DX/2) Max. Area 30" x 18-1/2"	IWA/CT35000	\$8,295.00
Copy Table with Hydraulic Punch Stripper (IW110D/2)	IWA/HSCT34000	\$11,570.00
Copy Table with Hydraulic Punch Stripper (IW110DX/2)	IWA/HSCT35000	\$12,600.00
Hydraulic Clamp for Copy Table	IWA/CT90900	\$3,440.00
Channel Web Die Holder (CPD Series 55 Dies): Used with 3" channel and larger	IWA/A1DW	\$ 520.00
Channel Web Die Holder (CPD Series 62 Dies): Used with 4" channel and larger		
Oversize Punching Kit 2-1/64" to 4" Diameter Holes	IWA/A2DW	\$ 590.00
Oversize Punching Kit 4-1/64" to 6" Diameter Holes	IWA/110DDXS	\$2,620.00
Oversize Punching Kit 6-1/64" to 8" Diameter Holes	IWA/110DDXM	\$2,235.00
Multi-Stop Table, pre-set stops on both X and Y axis for repeated multiple-hole punching	IWA/110DDX	\$2,895.00
	IWA/MTT (for IW110D)	\$2,780.00
	IWA-MTA35000 (for IW110DX)	\$3,370.00
<b><u>Channel Shear</u></b>		
2" x 1 lb. x 1/8" and 3" x 4.1 lb. per foot	IWA/CS88D23A	\$2,260.00
3" x 4.1 lb. and 4" x 5.4 lb. per foot	IWA/CS88D34A	\$2,365.00
4" x 5.4 lb. and 5" x 6.7 lb. per foot	IWA/CS88D45A	\$2,470.00
6" x 8.2 lb. per foot	IWA/CS88D60A	\$2,110.00

**Note: Other weights and combinations are possible but must be ordered as specials.**

## Pipe Notcher

3/4"	IWA/PN.75+100Q	\$ 685.00
1"	IWA/PN1.00+100 Q	\$ 685.00
1-1/4"	IWA/PN1.25+100 Q	\$ 685.00
1-1/2"	IWA/PN1.50+100 Q	\$ 685.00
2"	IWA/PN2.00+100 Q	\$1,240.00
2-1/2"	IWA/PN2.50+100 Q	\$1,240.00
3" to 6-1/2" available upon request		<b>Call for pricing.</b>

**Note: All notchers are for schedule 40 pipe unless otherwise indicated.**

**WARRANTY:** Marvel Manufacturing Company, Inc. warrants to the original user for a period of (2) years on replacement parts and (1) year labor from the date of factory shipment, that every new Spartan Ironworker is free from defect in material and workmanship. During that period, we will, at our option, repair or replace any part which, upon examination, we find defective. This warranty will not apply to alterations or modifications made upon Spartan Ironworkers without our written consent, or to machines which have been subject to willful abuse.

**Prices:** NET F.O.B. Factory. All prices contained herein are subject to change without notice and are further subject to an increase in price equal to the amount of any Federal, State, or Local Tax that may be imposed. A 10% down payment is due with purchase order. A 35% restocking charge will be assessed for all cancelled orders.

Marvel Manufacturing Company, Inc. also reserves the right to make design changes and/or modifications on machines without prior notice.

No officer, employee, representative, or agent is authorized to bind the company to acceptance of any order in the field. All orders are subject to acceptance by the company at its home office in Oshkosh, Wisconsin. Delivery dates given are estimates only, based on prevailing conditions and available information, and any special requirements that may affect the order are subject to conditions and contingencies beyond our control.

