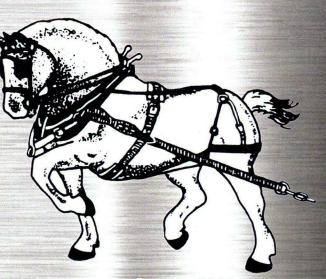


Waldemar Design & Machine LLC

900 Highland Drive Spencer, TN 38585 931-946-8474



January 2020

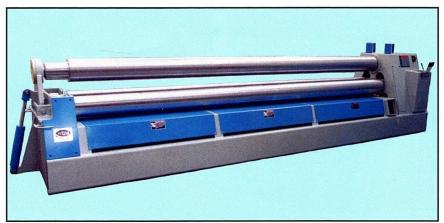
101 Series Plate Bending Machines



101-8-4 Plate Roll w/Rolling Console Control

Because of the design and arrangement of the rolls the pinch pyramid bending roll is a very versatile plate roll. Because of the large openings between the rolls symmetrical structural sections can be rolled without additional attachments, square and rectangle tubing, channel leg in/out, I-beam on flange, and fabricated panels.

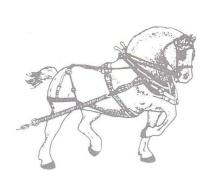
In the forming operation both the leading and trailing edges can be performed with one entry of the workpiece into the machine. This elminates the necessity of manipulating and turning the workpiece for a double entry as is required on an initial pinch type machine.



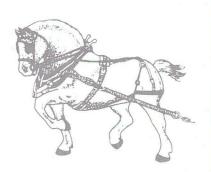
101-8-16 w/Polished Rolls, Manual Hydraulic Valves, & Long Length to Roll Architectural Components



101-6-6 Plate Roll w/Rotation Foot Switch and Manual Hydraulic Valves

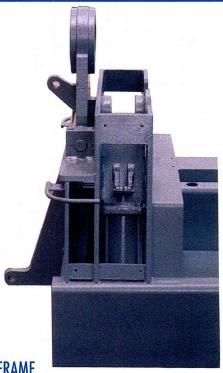






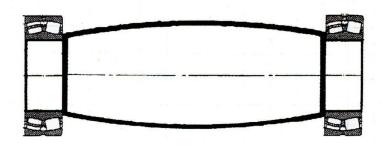
101-6-2 w/Hardened Only Rolls, Manual Hydraulic Valves and Rotation Foot Switch for rolling clutch and brake bands for Drag Lines

Standard Features



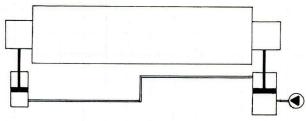
ROLLS

All the rolls are accurately machined from steel bars or forgings dependent on size. They are crowned to compensate for deflection during forming pressures, assuring accurate cylinders and workpieces. The rolls turn on sealed spherical roller bearings.



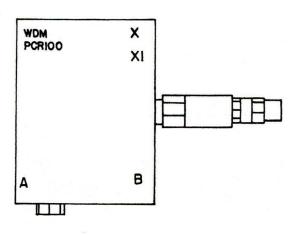
FRAME

All our machines start with a robust frame constructed from heavy structural sections and steel plates using good welding practices. They are accurately machined to support all the components. In most cases the hydraulic reservoir is integrated into the frame.



ROLL SUPPORT AND ADJUSTMENT

The bearings that hold the rolls are supported on a set of master and slave hydraulic cylinders with very effective seals and travel in a radial path. This system has a trim function to put an angle into the roll for rolling cones or dissimilar sections.



BETA 3 PENDANT CONTROL

The Beta 3 is a pendant control mounted in a fiberglass enclosure that's encircled by a stainless steel hand rail. Push buttons control near and far roll up/down position and roll rotation. Two LED readouts show the up/down position of the near and far roll. An electronic speed control dial controls the system speed. An E-stop is located on top of the enclosure. Main motor start/stop and dropend up/down are in their own enclosure, mounted on the machine housing. This control comes with a roll around stand to hold the pendant, converting it into a rolling console. This control is recommended for job shops with part batches of up to 10 pieces.

RESTORING PARALLELISM OF ROLLS

Restoring parrallelism of rolls is accomplished by a special valve arrangement designed by WDM which is activated when the roll is lowered to the bottom and held momentarily until all movement ceases. Roll is then parallel with top roll.

Capacity Ratings and Specifications For WDM 101 Series Pinch Pyramid Plate Rolls

	1.5x TOP ROLL DIA.	4X TOP ROLL DIA.	TOP	HORSE	SIZE	
MODEL	PREBEND CAPACITY	RATED CAPACITY	ROLL'8	POWER	LxWxH	WEIGHT
101-5-4	0.16 X 48	0.19 X 48	5	3	88 X 35 X 37	2,700
101-6-4	0.31 X 48	0.37 X 48	6	5	91 X 35 X 40	3,900
101-7-4	0.38 X 48	0.45 X 48	7	5	91 X 35 X 40	5,300
101-8-4	0.50 X 48	0.60 X 48	8	7.5	98 X 44 X 47	6,900
101-9-4	0.63 X 48	0.75 X 48	9	10	98 X 44 X 47	8,700
101-10-4	0.72 X 48	0.86 X 48	10	10	102 X 50 X 51	10,700
101-11-4	0.88 X 48	1.05 X 48	11	15	102 X 50 X 51	13,000
101-12-4	1.06 X 48	1.26 X 48	12	20	104 X 58 X 57	16,000
A101-13-4	1.25 X 48	1.49 X 48	13	25	104 X 58 X 57	18,000
A101-14-4	1.40 X 48	1.67 X 48	14	40	125 X 70 X 65	21,000
A101-15-4	1.63 X 48	1.94 X 48	15	50	125 X 70 X 65	24,000
A101-16-4	1.75 X 48	2.08 X 48	16	50	146 X 76 X 80	27,000
A101-17-4	2.00 X 48	2.38 X 48	17	60	146 X 76 X 80	31,000
A101-18-4	2.25 X 48	2.68 X 48	18	60	152 X 86 X 91	35,000
A101-19-4	2.50 X 48	2.98 X 48	19	75	152 X 86 X 91	39,000
A101-20-4	2.75 X 48	3.27 X 48	20	75	158 X 96 X 100	43,000
101-5-5	0.14 X 60	0.17 X 60	5	3	103 X 35 X 37	3,000
101-6-5	0.27 X 60	0.32 X 60	6	5	106 X 35 X 40	4,000
101-7-5	0.33 X 60	0.39 X 60	7	5	106 X 35 X 40	6,000
101-8-5	0.44 X 60	0.52 X 60	8	7.5	118 X 44 X 47	7,000
101-9-5	0.50 X 60	0.60 X 60	9	10	118 X 44 X 47	9,000
101-10-5	0.63 X 60	0.75 X 60	10	10	124 X 50 X 51	12,000
101-11-5	0.79 X 60	0.94 X 60	11	15	124 X 50 X 51	14,000
101-12-5	0.94 X 60	1.12 X 60	12	20	126 X 58 X 57	17,000
A101-13-5	1.06 X 60	1.26 X 60	13	25	126 X 58 X 57	20,000
A101-14-5	1.25 X 60	1.49 X 60	14	40	137 X 70 X 65	23,000
A101-15-5	1.44 X 60	1.71 X 60	15	50	137 X 70 X 65	26,000
A101-16-5	1.57 X 60	1.87 X 60	16	50	158 X 76 X 80	30,000
A101-17-5	1.75 X 60	2.08 X 60	17	60	158 X 76 X 80	34,000
A101-18-5	2.00 X 60	2.38 X 60	18	60	164 X 86 X 91	38,000
A101-19-5	2.18 X 60	2.59 X 60	19	75 75	164 X 86 X 91	42,000
A101-20-5	2.32 X 60	2.76 X 60	20	75	170 X 96 X 100	47,000
101-5-6	0.10 X 72	0.12 X 72	5	3	112 X 35 X 37	3,000
101-6-6	0.22 X 72	0.26 X 72	6	5	115 X 35 X 40	5,000
101-7-6	0.28 X 72	0.33 X 72	7	5 7.5	115 X 35 X 40	6,000
101-8-6	0.38 X 72	0.45 X 72	8		122 X 44 X 47	8,000
101-9-6	0.41 X 72	0.49 X 72	9	10	122 X 44 X 47	10,000
101-10-6	0.56 X 72	0.67 X 72	10	10 15	126 X 50 X 51	13,000
101-11-6 101-12-6	0.69 X 72 0.81 X 72	0.82 X 72 0.96 X 72	11 12	20	126 X 50 X 51 128 X 58 X 57	15,000 18,000
			HAM BUBBANO			
A101-13-6	1.00 X 72	1.19 X 72 1.34 X 72	13 14	25 40	128 X 58 X 57 149 X 70 X 65	21,000 25,000
A101-14-6 A101-15-6	1.13 X 72 1.25 X 72	1.49 X 72	15	50	149 X 70 X 65	29,000
A101-15-6	1.38 X 72	1.64 X 72	16	50	170 X 76 X 80	32,000
		1.79 X 72	17	60	170 X 76 X 80	37,000
A101-17-6 A101-18-6	1.50 X 72 1.63 X 72	1.74 X 72	18	60	176 X 86 X 91	41,000
A101-10-0	1.75 X 72	2.08 X 72	19	75	176 X 86 X 91	46,000
A101-17-6	1.88 X 72	2.24 X 72	20	75	182 X 96 X 100	51,000
A101-21-6	2.00 X 72	2.38 X 72	21	75 *	182 X 96 X 100	56,000
A101-21-6	2.25 X 72	2.68 X 72	22	75*	191 X 104 X 109	62,000
A101-23-6	2.50 X 72	2.98 X 72	23	75*	191 X 104 X 109	67,000
A101-24-6	2.75 X 72	3.27 X 72	24	75*	198 X 114 X 119	73,000

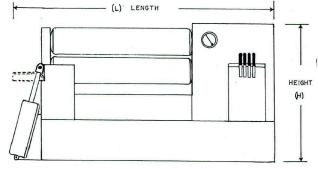
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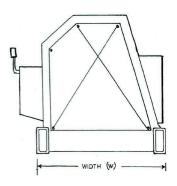
Capacity is based on 40,000 p.s.i. yield strength material. These machines are also available in 2, 3, 18, and 20 feet and longer lengths. Please inquire for price and availability and to verify dimensions and specifications.

We reserve the right to make changes in design and specifications without obligation or notification.

WARNING

We have incorporated safety features into this machine. It is the responsibility of the owner / employer to provide point-of-operation guards or operating procedures necessary to adequately protect operator and ensure that it is only operated by qualified personnel in a safe manner.





^{* =} THESE UNITS LIMITED TO 75 HP AT REDUCED ROLLING SPEED. LARGER HP AVAILABLE IF DESIRED.

A = These models manufactured by Athens / Wildcat Gear (See back page)

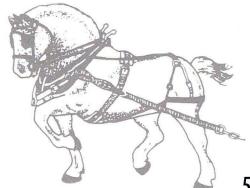
Capacity Ratings and Specifications For WDM 101 Series Pinch Pyramid Plate Rolls

	1.5x TOP ROLL DIA.	4X TOP ROLL DIA.	TOP	HORSE	SIZE	
MODEL	PREBEND CAPACITY	RATED CAPACITY	ROLL®	POWER	LxWxH	WEIGHT
101-5-8	0.06 X 96	0.07 X 96	5	3	136 X 35 X 37	4,000
101-6-8	0.14 X 96	0.17 X 96	6	5	139 X 35 X 40	5,000
101-7-8	0.18 X 96	0.21 X 96	7	5	139 X 35 X 40	7,000
101-8-8	0.25 X 96	0.30 X 96	8	7.5	146 X 44 X 47	9,000
101-9-8	0.31 X 96	0.37 X 96	9	10	146 X 44 X 47	12,000
101-10-8	0.41 X 96	0.49 X 96	10	10	150 X 50 X 51	15,000
101-11-8	0.52 X 96	0.62 X 96	11	15	150 X 50 X 51	18,000
101-12-8	0.63 X 96	0.75 X 96	12	20	152 X 58 X 57	21,000
A101-13-8	0.73 X 96	0.87 X 96	13	25	152 X 58 X 57	25,000
A101-14-8	0.86 X 96	1.02 X 96	14	40	173 X 70 X 65	29,000
A101-15-8	0.98 X 96	1.17 X 96	15	50	173 X 70 X 65	33,000
A101-16-8	1.06 X 96	1.26 X 96	16	50	194 X 76 X 80	38,000
A101-17-8	1.27 X 96	1.51 X 96	17	60	194 X 76 X 80	43,000
A101-18-8	1.42 X 96	1.69 X 96	18	60	200 X 86 X 91	48,000
A101-19-8	1.58 X 96	1.88 X 96	19	75	200 X 86 X 91	53,000
A101-20-8	1.77 X 96	2.11 X 96	20	75	206 X 96 X 100	59,000
A101-21-8	1.97 X 96	2.34 X 96	21	75*	206 X 96 X 100	65,000
A101-22-8	2.16 X 96	2.57 X 96	22	75 *	215 X 104 X 109	71,000
A101-23-8	2.31 X 96	2.75 X 96	23	75 *	215 X 104 X 109	78,000
A101-24-8	2.55 X 96	3.03 X 96	24	75 *	222 X 114 X 119	85,000
101-5-10	0.05 X 120	0.06 X 120	5	3	160 X 35 X 37	4,000
101-6-10	0.09 X 120	0.11 X 120	6	5	163 X 35 X 40	6,000
101-7-10	0.13 X 120	0.15 X 120	7	5	163 X 35 X 40	8,000
101-8-10	0.17 X 120	0.20 X 120	8	7.5	170 X 44 X 47	11,000
101-9-10	0.23 X 120	0.27 X 120	9	10	170 X 44 X 47	14,000
101-10-10	0.31 X 120	0.37 X 120	10	10	174 X 50 X 51	17,000
101-11-10	0.39 X 120	0.46 X 120	11	15	174 X 50 X 51	20,000
101-12-10	0.50 X 120	0.60 X 120	12	20	176 X 58 X 57	24,000
A101-13-10	0.59 X 120	0.70 X 120	13	25	176 X 58 X 57	28,000
A101-14-10	0.69 X 120	0.82 X 120	14	40	197 X 70 X 65	33,000
A101-15-10	0.80 X 120	0.95 X 120	15	50	197 X 70 X 65	38,000
A101-16-10	0.89 X 120	1.06 X 120	16	50	218 X 76 X 80	43,000
A101-17-10	1.03 X 120	1.23 X 120	17	60	218 X 76 X 80	48,000
A101-18-10	1.16 X 120	1.38 X 120	18	60	224 X 86 X 91	54,000
A101-19-10	1.28 X 120	1.52 X 120	19	75	224 X 86 X 91	60,000
A101-20-10	1.42 X 120	1.69 X 120	20	75	230 X 96 X 100	67,000
A101-21-10	1.51 X 120	1.80 X 120	21	75*	230 X 96 X 100	74,000
A101-22-10	1.73 X 120	2.06 X 120	22	75 *	239 X 104 X 109	81,000
A101-23-10	1.89 X 120	2.25 X 120	23	75 *	239 X 104 X 109	89,000
A101-24-10	2.05 X 120	2.44 X 120	24	75 *	246 X 114 X 119	96,000

^{* =} THESE UNITS LIMITED TO 75 HP AT REDUCED ROLLING SPEED. LARGER HP AVAILABLE IF DESIRED.

STANDARD FEATURES

- 1045 Steel rolls machined to 63 micro inches
- Total hydraulic operation
- Instant start-stop-reverse
- Roll speed infinitely variable 0 22 FPM (smaller machine), 0 - 12 FPM (larger machine)
- 3 Roll drive
- Electrics to NFPA-79 specifications 12/24 VDC or 120 VAC control circuit
- 3 Phase 230/460 Volts, 60 HZ
- Overload protected
- TEFC motor
- Quiet hydraulic system
- Haze gray epoxy and blue enamel finish (V.O.C. compliant)
- Athens units (Prefix "A") are tan epoxy and brown enamel finish (V.O.C. compliant)
- Sealed spherical roller bearings on all main points
- 1 Squaring Groove in far roll
- Rolls tilt for cone rolling
- Rolls driven through efficient spur gear drives or planetary speed reducers
- Dial pointer type roll position indicators
- Hydraulically actuated drop-end
- Accurately machined, compact, streamlined, all welded steel frame
- 1 year warranty
- Made in Spencer, TN, USA using components from American and worldwide companies



A = These models manufactured by Athens / Wildcat Gear (See back page)

Capacity Ratings and Specifications For WDM 101 Series Pinch Pyramid Plate Rolls

	1.5x TOP ROLL DIA.	4X TOP ROLL DIA.	TOP	HORSE	SIZE	
MODEL	PREBEND CAPACITY	RATED CAPACITY	ROLL®	POWER	LxWxH	WEIGHT
101-5-12	0.04 X 144	0.05 X 144	5	3	184 X 35 X 37	5,000
101-6-12	0.06 X 144	0.07 X 144	6	5	187 X 35 X 40	7,000
101-7-12	0.09 X 144	0.11 X 144	7	5	187 X 35 X 40	8,000
101-8-12	0.14 X 144	0.17 X 144	8	7.5	194 X 44 X 47	12,000
101-9-12	0.17 X 144	0.20 X 144	9	10	194 X 44 X 47	15,000
101-10-12	0.23 X 144	0.27 X 144	10	10	198 X 50 X 51	19,000
101-11-12	0.28 X 144	0.33 X 144	- 11	15	198 X 50 X 51	23,000
101-12-12	0.38 X 144	0.45 X 144	12	20	200 X 58 X 57	27,000
A101-13-12	0.41 X 144	0.49 X 144	13	25	200 X 58 X 57	32,000
A101-14-12	0.55 X 144	0.65 X 144	14	40	221 X 70 X 65	37,000
A101-15-12	0.63 X 144	0.75 X 144	15	50	221 X 70 X 65	42,000
A101-16-12	0.75 X 144	0.89 X 144	16	50	242 X 76 X 80	48,000
A101-17-12	0.81 X 144	0.96 X 144	17	60	242 X 76 X 80	54,000
A101-18-12	0.94 X 144	1.12 X 144	18	60	248 X 86 X 91	61,000
A101-19-12	1.00 X 144	1.19 X 144	19	75	248 X 86 X 91	68,000
A101-20-12	1.09 X 144	1.30 X 144	20	75	254 X 96 X 100	75,000
A101-21-12	1.28 X 144	1.52 X 144	21	75*	254 X 96 X 100	83,000
A101-22-12	1.41 X 144	1.68 X 144	22	75 *	263 X 104 X 109	91,000
A101-23-12	1.53 X 144	1.82 X 144	23	75*	263 X 104 X 109	99,000
A101-24-12	1.66 X 144	1.98 X 144	24	75 *	272 X 114 X 119	108,000
A101-9-16	0.13 X 192	0.15 X 192	9	10	239 X 44 X 47	18,000
A101-10-16	0.16 X 192	0.19 X 192	10	10	246 X 50 X 51	23,000
A101-11-16	0.20 X 192	0.24 X 192	11	15	246 X 50 X 51	28,000
A101-12-16	0.25 X 192	0.30 X 192	12	20	248 X 58 X 57	33,000
A101-13-16	0.30 X 192	0.36 X 192	13	25	248 X 58 X 57	39,000
A101-14-16	0.36 X 192	0.43 X 192	14	40	269 X 70 X 65	45,000
A101-15-16	0.42 X 192	0.50 X 192	15	50	269 X 70 X 65	51,000
A101-16-16	0.50 X 192	0.60 X 192	16	50	290 X 76 X 80	58,000
A101-17-16	0.58 X 192	0.69 X 192	17	60	290 X 76 X 80	66,000
A101-18-16	0.67 X 192	0.80 X 192	18	60	296 X 86 X 91	74,000
A101-19-16	0.78 X 192	0.93 X 192	19	75	296 X 86 X 91	82,000
A101-20-16	0.86 X 192	1.02 X 192	20	75	302 X 96 X 100	91,000
A101-21-16	0.94 X 192	1.12 X 192	21	75 *	302 X 96 X 100	101,000
A101-22-16	1.06 X 192	1.26 X 192	22	75*	311 X 104 X 109	110,000
A101-23-16	1.16 X 192	1.38 X 192	23	75*	311 X 104 X 109	130,000
A101-24-16	1.25 X 192	1.49 X 192	24	75*	320 X 114 X 119	150,000

^{* =} THESE UNITS LIMITED TO 75 HP AT REDUCED ROLLING SPEED. LARGER HP AVAILABLE IF DESIRED.

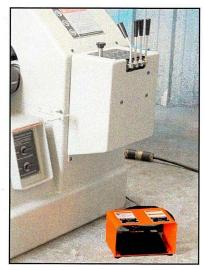
STANDARD OPTIONS

- Hardened and polished rolls 28-32 Rc 32 RMS
- Hardened and polished rolls 55-60 Rc (case hardened) 32 RMS
- Other alloys, chrome plating and other finishes are available, inquire
- Additional squaring grooves in lower rolls
- Circular grooves in rolls for rolling rods or sheets with wire edges 3/8, 1/2, and 5/8
- Other special circular grooves for extrusions, etc.
- Forward & reverse guarded foot pedal for roll rotation
- Cone attachment
- Heavy duty cone attachment
- Side supports
- Overhead supports
- Ejectors
- DRO for roll position instead of dial pointer indicator
- Same as above on both ends of rolls
- DRO with 2-preset stops for roll position indicators and control
- Same as above with an additional DRO to show position of outboard end of roll; useful for cone rolling
- DRO length indicator to show length rolled to facilitate forming of flat-radius-flat, ect. type workpiece
- Same as above with 2 presets
- Same as above with 6 presets
- Electric roving pendant control to replace manual valves on machine housing
- Movable console electric control to replace manual valves on machine housing

A = These models manufactured by Athens / Wildcat Gear (See back page)

Controls

WDM offers a wide range of controls tailored for your unique requirements.



FOOT SWITCH

This feature is available for forward and reverse rotation of the rolls, allowing operator to use both hands to manipulate workpiece and can be used on all control styles.

OTHER FEATURES AND VARIATIONS **AVAILABLE TO SUIT YOUR** INDIVIDUAL NEEDS . . . PLEASE INQUIRE.



PRE 3 SEMI-AUTOMATIC FREE STANDING CONTROL

The Pre 3 semi-automatic free standing rolling console provides digital readouts and 2 presets for each axis (near & far roll). Also included is the LP2 (length position) with readout and 2 presets for the roll rotation. All machine functions are controlled via joystick or push button on the control panel. Motor start/stop, dropend up/down, speed control dial and E-stop is mounted in the panel for easy access. The controls are housed in a heavy duty Nema 12 enclosure with stainless steel guard rail. This popular control provides just enough automation to greatly speed through put, performance, and accuracy. It is easily programmed and can be used as standard or preset type control. In many cases this control increases roll performance 500% or more and is usually all the automation that is required. This control is recommended for part batch sizes from 3 to 100 pieces or more.



CONE 3 - CONE ROLLING FREE STANDING CONTROL

The Cone 3 free standing rolling console provides 2 digital readouts showing the position of each end of the 2 lower adjustable rolls.

All machine functions; roll rotation forward and reverse, near and far roll up and down, near and far roll trim up and down, drop end up and down, main electric motor start and stop, emergency stop, and system speed, are controlled from the console.

The controls are housed in a heavy duty Nema 12 enclosure with a stainless steel hand rail.

This control along with an optional cone attachment and hardened and polished rolls make a great cone rolling machine.

WDM Users and Suppliers

SOME WDM USERS

AEROQUIP CORPORATION - AERO SPACE DIVISION AMERICAN YARD PRODUCTS - LAWN & GARDEN EQUIPMENT APPALACHIAN BOILERS - BOILERS **ASTEC - ASPHALT PLANTS BETTS INDUSTRIES - TANK COMPONENTS CARRIER CORPORATION - AIR CONDITIONING** CHIEF AGR INDUSTRIAL - AGRICULTURAL EQUIPMENT **COOPER LIGHTING - LIGHTING PRODUCTS CORNELL UNIVERSITY** DONALDSON/TORIT - AIR FILTRATION DRESSER INDUSTRIES - TURBINE MFG FELDMIER EQUIPMENT - FOOD PROCESSING EQUIPMENT FORD MOTOR - AUTOMOTIVE

HOFFMAN - ELECTRICAL ENCLOSURES

KURT - HYDRAULIC HOSE & FITTINGS

LOCTITE - SEALANTS & ADHESIVES

LOVEJOY - COUPLINGS

HYDRA FORCE - HYDRAULIC COMPONENTS

MC GILL - BEARINGS AND CAM FOLLOWERS

ALLEN BRADLEY - ELECTRICS AUBURN GEAR - PLANETARY DRIVES BALDOR - MOTORS CHAR-LYNN/EATON CORP. - LSHT HYDRAULIC MOTORS C-3 CONTROL - ELECTRICAL COMPONENTS CONTINENTAL - HYDRAULIC COMPONENTS **EARLE M. JORGENSON - STEEL SUPPLIER**

GENERAL MOTORS - AUTOMOTIVE GREAT DANE - TRAILERS GREINER ADVANCED MFG. - CUSTOM FAB GSI GROUP - AGRICULTURAL EQUIPMENT HARTZELL FAN - VENTILATION HUTCHINSON MAYRATH - GRAIN HANDLING EQUIPMENT JR METAL PRODUCTS - MANHOLE RISERS **JUMP KING - TRAMPOLINES** MN DOT DISTRICT 6 - ROAD DEPARTMENT NASA - AEROSPACE NATIONAL STEEL AND SHIPBUILDING - SHIPYARD **OLSON INDUSTRIES - AIRPORT LIGHTING PRODUCTS**

> SKF - BEARINGS AND SEALS **SWEDGELOCK- VALVES** TNEMEC - PAINTS AND COATINGS **TOMPKINS - HYDRAULIC FITTINGS**

OXMASTER - CHEMICAL EQUIPMENT

PORVAIR FILTRATION - FILTRATION

QUALITY STEEL - PROPANE TANKS

SWECO - FILTRATION SYSTEMS

US STEEL - MINE

TROXEL TANK - SEMI TRUCK TRAILERS

UTICA BOILER - RESIDENTIAL HEATING

UNION ELETRIC - NUCLEAR GENERATION PLANT

WORTHINGTON CYLINDERS - PRESSURE VESSELS

PAUL'S FANS - MINE VENTILATION EQUIPMENT

PEOBODY TECHTANK - PLASTIC STORAGE EQUIPMENT

SAMUEL PRESSURE VESSEL GROUP - PRESSURE VESSELS

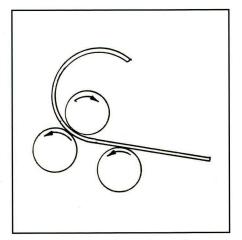
WALKER STAINLESS - FOOD PROCESSING & TRANSPORT

SOME WDM SUPPLIERS

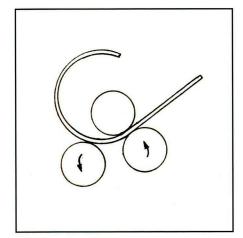
PRINCE MANUFACTURING - HYDRAULIC COMPONENTS TRADEMARK DESIGNS - NAME PLATES WILDCAT GEAR - GEARS, SPROCKETS, AND DRIVES

Rolling Procedure

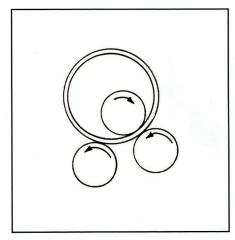
The normal procedure for forming a workpiece on a pinch pyramid roll is illustrated below.



Workpiece is entered into the machine. Far roll is raised to pinch the material. Near roll is raised to the proper position for the radius being performed. Workpiece is rolled to near completion.



Far roll is lowered. Near roll is raised to pinch the material. Far roll is raised to the proper position for the radius being performed.



The workpiece is rolled to completion.

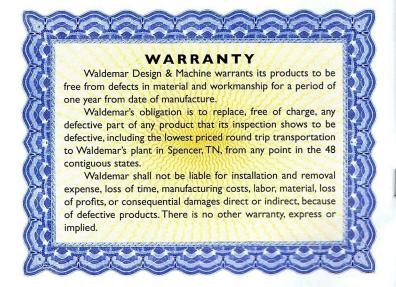
The above procedure produces the least amount of flat on the leading and trailing edges. However, to obtain maximum machine capacity, the rolls must be operated in the true pyramid configuration producing a flat on the leading and trailing edges of the workpiece which may be cut off just prior to finish rolling.

WORKPIECE ACCURACY

In the final analysis, the proof of performance is the acceptability of the finished workpiece. With uniform quality of the workpiece blanks, our machines have historically rolled workpieces within 1/2 of 1% of perfect concentricity.

There are many variables that can affect the accuracy and repeatability either minimally or drastically. These include, but are not limited to, the following: varying material thickness; varying material temper; uneven cross section of material, i.e. wide and narrow profile of workpiece or a workpiece with holes or cutouts; and direction of grain of material.

Many of these variables can be overcome by various means. An important element for success is a knowledgeable operator who understands the characteristics of the material being formed and the various functions of the machine. If the workpiece being formed is anything other than uniform material and cylinders, and you are unsure if your pieces can be rolled practically, please provide us with a drawing or sketch and we will be happy to evaluate it.



TRAINING

Waldemar Design & Machine strongly encourages the dealer and/or customer to visit our plant upon completion of the machine to receive free training on the machine's operation and maintenance.

Some Optional Features

Cones can be readily formed using the standard roll tilt feature and one of the optional cone attachments. The cone rolling capacity is 1/3 of the plate capacity (1/3 of the width or 1/3 of the thickness). This attachment consists of a steel sleeve that has composite sleeve bearings which slides onto the reduced diameter portion of the top roll next to the dropend.



This style has an indexable and replaceable hardened steel nose. It is locked into position by the dropend and is easily removed when not rolling cones. This style is recommended for occasional cone jobs.



This style has a hardened roller nose and is fastened to the top roll with a nut to take the end pressure. It is not easily removed when not needed, but can be rotated 180° to provide unrestricted removal of the work piece. This cone attachment along with hardened and polished rolls and inboard/outboard readouts are recommended for production cone rolling.

We offer a Wide Range of Work Supports



403-7-8 with standard style side supports.

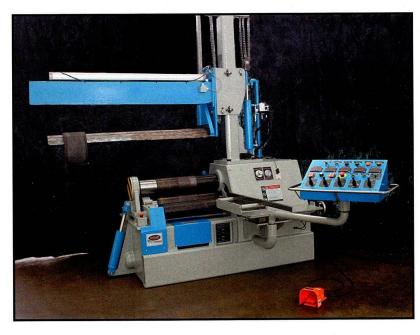


403-12-12 with custom side supports.

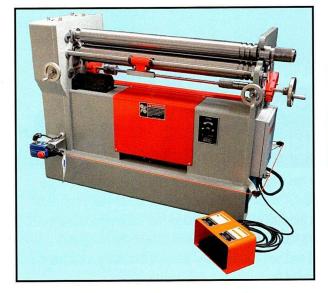
More Machines by WDM



403-10-12 rolling cell for rolling natural gas tanks for vehicles



403-8(6)-2 with infeed table and overhead/ejector rolling manhole cover risers



B3.5-36 sheet metal roller with custom color paint



KRR-3.5-120 rigidified top roll initial pinch rolling gutter down spouts





FA-7 flange forming machine making firepit ring inserts

Some Machines by Athens/Wildcat



For three generations the family business of Waldemar Design and Machine has been designing and manufacturing metal forming machines for industry small and large. We build these machines in a simple setting exercising serious craftsmanship and integrity. Many of the high quality components are manufactured in our shops in Tennessee, USA, or purchased from domestic or world wide suppliers. Special attention is paid to quality, availability, and durability.

Your satisfaction and the performance of our machines is held in highest regard.

-Owners

PUBLIC NOTICE

We will gladly accept

courier charges.

Some distributors sell WDM and Athens products via the Internet. WDM and Athens do not, nor do we have a website, FAX or e-mail service. For direct, personal service and help in solving problems, please contact us at one of the phone numbers below or send inquiries or drawings by mail or courier-collect, FedEx, UPS Red, or other.

FOR INFORMATION AND HELP

FOR:

- Standard Machines
- Plate Rolls 12" and smaller rolls
- Angle Rolls to 6 X 6 X 3/4
- Manufacturing Cells
- Other Similar Machines

FOR:

- Cone Rolls
- Special Machines
- Plate Rolls larger than 12" rolls
- Special Forming Systems and Manufacturing cells
- Flange and Head Forming Machines
- Other Similar Machines

 * If you are unsure which company to contact, contact WDM, they will guide your inquiry.





MACHINE TOOL BUILDERS

MULTI-ROLL PLATE & ANGEL BENDING ROLLS & SYSTEMS 900 HIGHLAND DRIVE SPENCER, TN 38585

Main Office (931) 946-8474





A WILDCAT GEAR COMPANY

600 Eagle Way • Spencer, TN 38585 Phone: 931-946-1650 7:00 - 8:00AM & 1:00 - 1:30PM Central Time