



## JMTUSA.com

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Toll Free: **855-773-7727**(855-PRESS-BRAKE)

**JMT** machines are built by the largest volume fabrication machine tool producer and the most respected manufacturer of sheet metal machinery in the world. This factory is one of the world's most contemporary production plants, with a 1.5 million square foot footprint and over 1500 dedicated employees.

**JMT** machines are built to extremely stringent standards and the factory has maintained continuous product research and development since 1956. With 75 R&D and product engineers on-staff at the plant, **JMT** products utilize the most modern techniques in design and engineering, and are equipped with proven quality components to fulfill a customer's most exacting requirements. **JMT** combines "accuracy, speed, flexibility, durability, reliability and advanced technology" with the highest performance/price ratio in the world.

A nationwide network of **JMT** distributors and technical support personnel are in place to assist you.

Our machines are built with world-renown components such as Rexroth, Siemens and Schneider, which are available off the shelf from your local supplier, your dealer, or direct from **JMT**.

For more information please visit **JMTUSA.com**.

You can also email us at **JMT@JMTUSA.com** or call toll free to **855-773-7727** (855-PRESS-BRAKE).



JMT's U.S. HEADQUARTERS







**MACHINE PARTS INVENTORY** 

PLANTS BUILDING OUR JMT MACHINES

# JMT Plate Rolls

Reliable mechanical and hydraulic systems are designed by experienced engineers at the factory by utilizing parametric 3D engineering technology as well as implementation of mechanical and kinematics analysis.

Safe and reliable electronics systems are designed by the factory's Research & Development Center. Only after extensive testing evaluations are the machines approved for production.

Robust machine bodies and construction ensure long machine life and low maintenance. User friendly control unit options are available. Precision parts are manufactured by using highly durable forged 4140 alloy steel rolls machined by a CNC lathe. Shorter cycle times are achieved by a high Torque Drive System. All high quality rolls are mounted in SKF dry lube bearings.

#### JMT HRB-4 Series Plate Rolls

Bending Lengths: 5' - 26'

Bending Thicknesses: 10 Gauge - 6"

Hydraulic 4 Roll Plate Bending Machine

Accurate, easy to operate, fast and reliable Easily maintains reference of the steel plate

#### JMT HRB-3 Series Plate Rolls

Bending Lengths: 6' - 14'

Bending Thicknesses: 1/4" - 2"

Hydraulic 3 Roll Plate Bending Machine

Flexibility of three rolls for medium sizes by JMT technology

Pre-bending of both the leading and trailing edge

#### **JMT HRB-3V** Series Plate Rolls

Bending Thicknesses: 1" - 6"

Hydraulic 3 Roll Variable Geometry Plate Bending Machine

Variable geometry of bottom rolls offers a wide rolling range



#### **JMT** IP Motorized and Manual Rolls

Bending Lengths: 3'4" - 10' • Bending Thicknesses: 18 Gauge - 5/16"

Economical Initial Pinch 3 Roll Asymmetrical Bending Machines

JMT MRB Motorized Roll Bender (Cast Iron Frame)

JMT MRB-S Motorized Roll Bender (Stress-relieved Steel Frame)

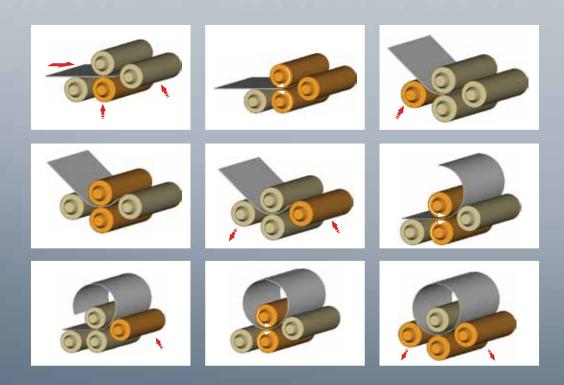
JMT MRB-e Motorized Roll Bender (Economical Light Gauge Roll)

JMT RB Manual Roll Bender



# **JMT HRB-4** SERIES PLATE ROLLS

- 5' 26' Bending Lengths
- 10 Gauge 6" Bending Thicknesses
- Accurate, easy to operate, fast and reliable
- Flat zone of the part is minimized
- Pre-bending, conical bending and ellipse bending can be done easily
- Double pre-bends (both bends) in one pass
- Hydraulic and electrical systems have been safeguarded from overloading and require minimum maintenance. Hydraulic and electrical components are modular and designed according to world standards.
- The sheet reference is maintained by tightening of top and bottom rolls
- Most desirable bending operation for CNC applications
- More efficient for cycle times
- User friendly operation with less dependence on operator competence

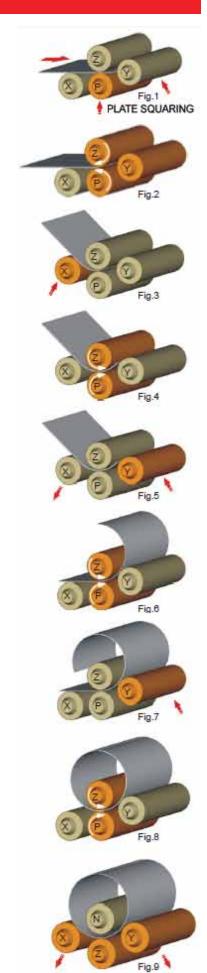




## **BENEFITS OF 4-ROLL PLATE BENDING MACHINES**

Four roll plate rolls are more precise, productive, versatile, faster, safer and easier to operate than three roll machines. They are less dependent on operator competence. They are ideal for bending plates up to 6" thick.

- The fastest and most accurate bends are made by four roll machines. The
  plate is held securely in place between the top and bottom rolls while the
  side rolls move vertically to create the bend.
- The bottom roll moves up to hold the plate edge securely against the top roll while the side roll is raised to form an accurate pre-bend, minimizing the flat zone on the plate edge. Pre-bending on a three roll machine requires that plates be tilted down as they are being fed. In contrast, plates are loaded horizontally at the feed level for pre-bending on a four roll machine, which allows the use of horizontal motorized roller tables to help feed the plate.
- Plate feeding can take place on either side of a four roll machine. If fed from only one side, they can even be placed up against a wall to save floor space.
- The side rolls are positioned to the right and left of the bottom roll and are on their own axes. The independent axis of each roll helps make a perfect bend. The "back" side roll (at the far side of the feeding point) also functions as a back gauge to square the plate for proper alignment (see Figure 1 in diagram). This eliminates the need for someone to assist the operator.
- The plate is kept square without slipping during both pre-bending and rolling because of the constant secure clamping of the top and bottom rolls.
- Four roll machines do not require the operator to remove, flip, and then
  try to square and reposition the plate a second time after pre-bending,
  as is the case with three roll IP machines. Keeping the material in the
  machine makes four rolls 50% more efficient than three roll IP machines,
  and allows a cylinder to be rolled to the required diameter immediately
  following pre-bending.
- Bending the back edge takes place after the cylinder is rolled, for a one direction, single pass operation.
- Cone rolling is easier on a four roll machine. The side rolls can be tilted
  to establish the cone angle and the bottom roll can also be tilted to clamp
  and drive the plate. (Standard feature on *JMT* rolls.)
- Four roll machines are the only type of plate rolls that can effectively
  make use of NC and CNC controls because of the constant clamping and
  driving of the material during all steps of rolling. Bending difficult shapes
  like polycentric or elliptic work pieces can be easily done with JMT CNC
  four roll machines.



## **JMT HRB-4 PLATE ROLL FEATURES**



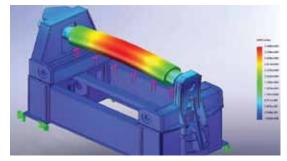
#### Stable, Robust Machine Bodies

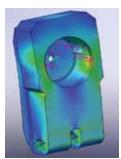
The **JMT** HRB-4 machine body is strengthened and lowered to minimize twists and deformation of the plate. This robust body is joined by steel bars to sturdy the machine frame.

The machine body, frame and steel bar connections are all stress relieved after the welding operation. The whole body is machined with 5-axis CNC machining centers, utilizing a fixed single reference point. This allows for parallelism of all axes and precision surfaces, as well as longevity and precision of the critical characteristics of the machine.





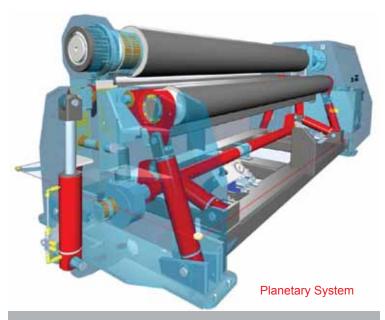




## Engineering and Product Advantage

The mechanical and hydraulic systems on *JMT* HRB-4 machines are designed by experienced engineers at our factory. These engineers design the machines utilizing parametric 3D engineering technology as well as implementation of mechanical and kinematic analysis.

All mechanical, hydraulic, and electronic systems are designed and tested by electrical and mechanical engineers. Only following lengthy tests and evaluations are the machines authorized to be manufactured in serial production.



#### Planetary Guides

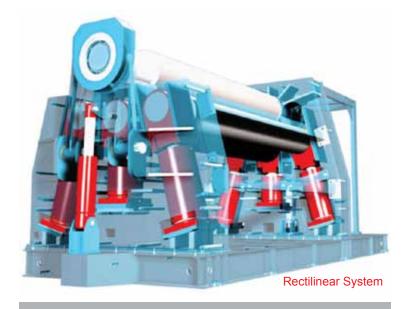
Rolls with a 17" or smaller top roll come standard with planetary guides.

On a planetary machine, the side rolls are guided by swing arms which allow them to act as two independent axes moving along a curved shape path.

This system allows bending to a minimum work piece diameter of 1.1 x the top roll diameter, dependent on the capacity of the machine.

Side rolls approach the top roll along a curved path which allows perfect prebending as well as spring back minimization.





#### **Rectilinear Guides**

On a rectilinear machine, the side rolls are guided by a rectilinear system that moves them in a straight line direction (instead of the curved path of planetary guides) giving them the strength to pre-bend and roll heavy plate.





## High Torque Drive Systems (Standard)

Because of its high torque, a *JMT* machine bends the part with fewer steps. Rolls are powered by independent high torque hydraulic motors and planetary gear boxes. The activation system is positioned on the same axis as the roll, so high torque is transferred to the sheet without any power loss. On machines with 17.72" top rolls and above (rectilinear machines) all four rolls are driven.





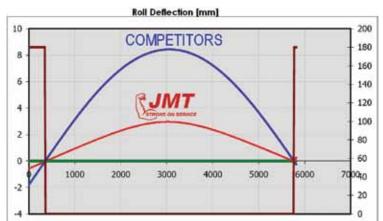
## Hydraulic System (Local Availability)

Rolls are positioned by hydraulic components. The precision of axes are maintained through the use of Bosch Rexroth valves. Pressure safety valves protect against peak pressures and overloads.



#### Electrical and Electronic System (Local Availability)

The electrical system is compatible with international safety regulations and consists of high quality electrical components manufactured by Siemens, Schneider, Phoenix and Opkon. All power supplies, electronics and motors are protected by the system from overloads.







### Hardened Rolls And Crowning System (Standard)

Highly durable forged 4140 alloy steel rolls are machined by CNC lathes to achieve optimal crown. Working surfaces of the rolls are CNC induction hardened to HRC 54+/-2. Special alloy rolls and special crown are available upon request.



### Strengthened Bearing Guidance System

The rolls are guided with spherical roller bearings. This guidance system requires less lubrication and assures long-term precision.



Tight Diameter Rolling



**Excellent Pre-bending** 

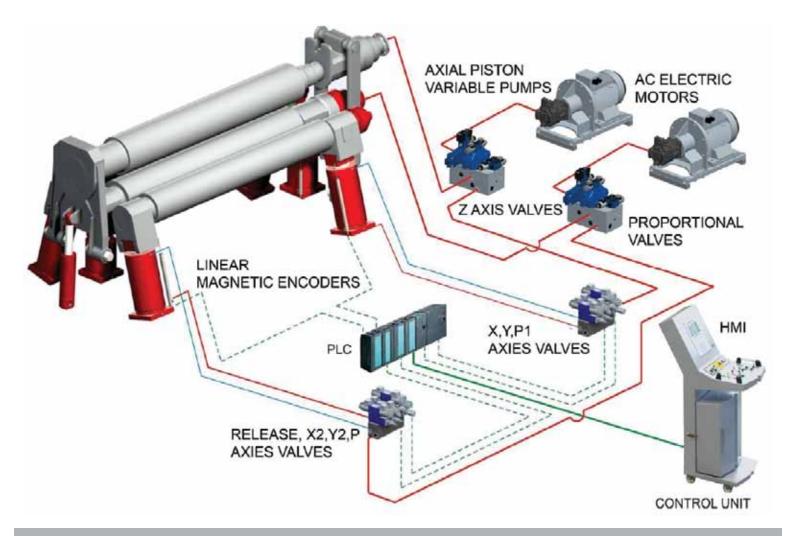


CNC Induction Hardening (Standard)

## Strong Hydraulic Brakes (Standard)

A strong hydraulic brake system helps to prevent the sheet from slipping back, especially during the pre-bending.

Pressure safety valves protect the hydraulic motors and other components from overloads and peak pressures.



## Precise Four Roll Synchronization System (Standard)

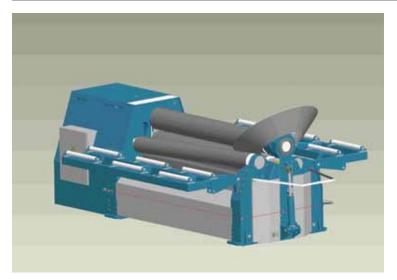
The side rolls are positioned by four different strong hydraulic cylinders.

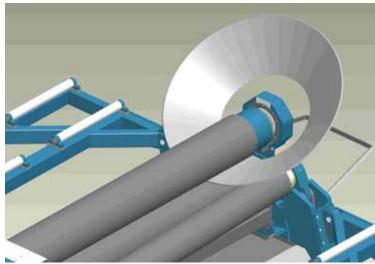
Hydraulic roll crowning compensation allows the rolling of different thicknesses of material with minimum deformation. The bottom roll maintains parallelism by a strong adjustable hydraulic torsion bar.

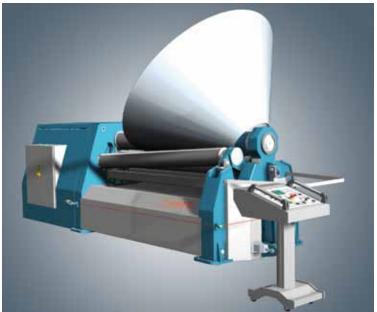
Synchronization between the rolls is acquired by Resistive Linear Position Transducer and PLCs. The PLCs respond within milliseconds due to high precision proportional load holding valves.



## Conical Bending System (Standard)





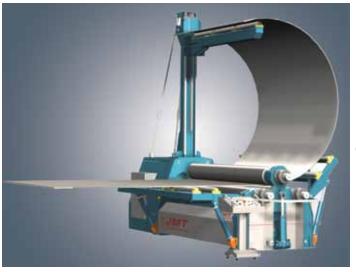




Through superior construction, a massive body and the ability to angle bottom and side rolls, the HRB-4 bends wide angle and small diameter conical parts with ease.

While most machines on the market can conically bend 3 times the diameter of the top roll, **JMT** HRB-4 machines can conically bend 1.5 times the top roll diameter (or tighter).



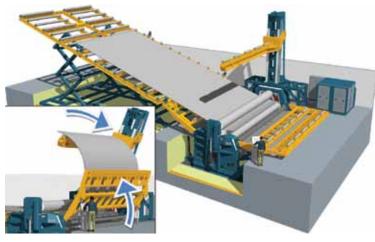




## Side and Top Support Systems (Optional)

Optional hydraulic side or vertical supports help prevent distortion of the cylinder in large shaped bends. Side supports have hydraulic double cylinders which are produced with heavy-duty steel construction. The vertical supports' capacity can be manufactured to different tonnage and height requirements.





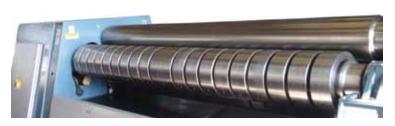
Large Custom Rolls Systems (Optional)

## Vertical Operation Configuration (Optional)

A dual horizontal/vertical operation option is available for both 3 roll and 4 roll machines.

Advantages of a vertical configuration:

- It is ideal for forming tanks, vats and other large cylinders that require the material to be supported while the bend is created.
- It eliminates back-bending of large parts.
- It can eliminate the need for extreme ceiling heights.



Above: A custom down-flange roll.



Automatic Loading Unloading System (Optional)

Many special applications are available for your requirements and customized plate rolls can be built to your specifications.

# **JMT HRB-4 PLATE ROLL CONTROL UNITS**

## PLC Digital Readout (Standard)



The PLC control system ensures synchronous operation of the machine's bottom and side rolls. The PLC is a 6-axis control with touch screen operator panel. The ability to input up to five set points gives the operator more control over consistency and saves production time.



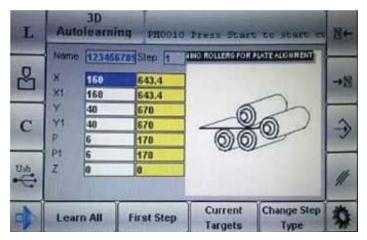
#### NC Control (Optional)



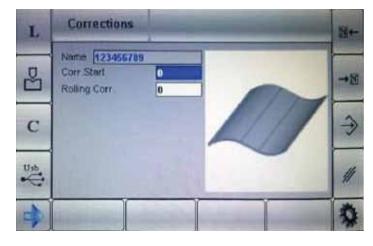
The NC control system has the ability to work in both manual and automatic modes of operation. In manual mode all functions are input by the operator. In teaching mode all the steps taken by the operator are recorded. In automatic mode all recorded movements are repeated respectively by the machine. The NC control system has the capacity to save 70 programs consisting of a maximum of 100 steps each.













**JMT**'s user-friendly, versatile CNC control has interpolation capabilities with hydraulic proportional valves in order to roll different shapes without the need to stop at curvature change points.

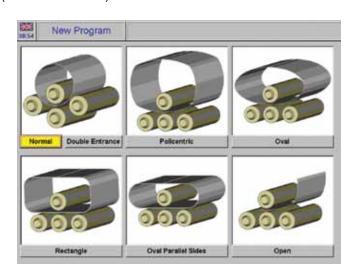
This control gives the operator the ability to efficiently produce everything from simple cylinders to complex parts with repeatability.

An extensive library of pre-programmed part shapes (with editable geometry) allows even inexperienced operators to produce quality parts. With the Autolearning Function, the operator can also create teach/record programs.

#### Features:

- 12" TFT S VGA full color display with antiglare screen
- · Ergonomic molded cabinet
- Dedicated scratch-proof, oil-proof, acid-resistant sealed membrane push button keyboard
- · Interactive graphic editor for work pieces and tool data entry
- Automatic identification of the best bending sequence(s) (with manual override)
- Programming of all axes positions with error checking (automatic or manual)
- Internal memory for up to 10,000 programs (external memory available)
- Autolearning function (teach/record mode)
- Manual mode

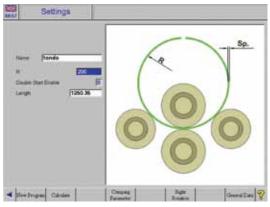
**NOTE:** As with any type of fabrication, the quality of the finished parts depends not only on the equipment and the operator, but also on the consistency of the material being used. Slight adjustments (easily done) may be required from one material lot to another in order to maintain consistency of the parts.

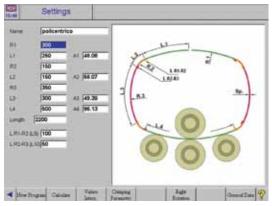


Above are some of the more established shapes in the industry, including oval, buckets, round-square, etc.







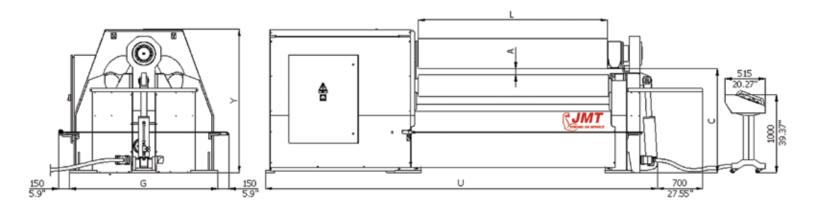


Multiple rolling profiles are already programmed in the control, making the programming of different sized profiles easy and painless.

The control will roll a part with only limited input from the console (minor adjustments can be made to adjust for material variations when necessary). Users may program any profile needed and save it to use with other similar parts by changing the parameters.

## **JMT HRB-4** PLATE ROLL STANDARD EQUIPMENT

- · Touch screen control unit with six multi-pass programmable digital readouts
- Dual speed control (fast/slow)
- · Cone bending
- Induction hardened rolls (HRC 58)
- · Highly durable forged 4140 alloy steel rolls machined by CNC Lathes with optimal crown (special crown upon request)
- · Side rolls electronically positioned and synchronized with PLC and high-end precision digital scales
- · Automatic rolls peripheral speed compensation (optimum distribution of torque)
- · Machine body constructed of stress-relieved high-yield steel
- · Rolls seated in spherical bearings
- Top roll hydraulic opening device (drop end) with easy pull out system
- · Bottom and top rolls driven with hydraulic motor and planetary gear box
- · Side rolls driven (hydraulic motor and planetary gear boxes) on machines with 17.72" top roll and above
- Rolls with an 17.72" or larger top roll come standard with rectilinear guides.
- · Safety barrier
- · Electrical and hydraulic protection against overloads
- · World standard electrical and hydraulic components (parts stocked by JMT or available off-the-shelf from your local supplier)
- · Adjustable hydraulic pressure on bottom roll (crowning compensation)
- · Permanent lubrication



# **JMT HRB-4 PLATE ROLL OPTIONAL EQUIPMENT**

- · NC Control Unit
- · CNC Control Unit with color graphical control
- · All axis positioning with adjustable speed on CNC machines
- · Polished rolls
- · Variable speed control
- · Wired or wireless remote
- · Oil Cooler
- · Side support system (both sides)
- · Preparation for vertical support system
- · Vertical overhead support system (mechanical or hydraulic)
- · NC inclusion for vertical support control
- NC inclusion for side support control
- · Changeable top roll for smaller diameters
- · Welding possibility on the machine
- · Material feeding table
- Automation
- · Special roll crowning
- · Special applications for Wind-tower production

Many options and customizations are available — please contact us for details.

> Web: JMTUSA.com Email: JMT@JMTUSA.com

Call Toll Free: 855-773-7727

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# **JMT HRB-4 PLATE ROLL TECHNICAL DIMENSIONS**

|                          |                  | Pre-Bending        |                  |                  |                  |                 |                    |            |              |            |            |                  |          |
|--------------------------|------------------|--------------------|------------------|------------------|------------------|-----------------|--------------------|------------|--------------|------------|------------|------------------|----------|
|                          | Bending          | and Rolling        | Rolling          |                  | Bottom           | Side            | Max. Pass          | Working    | Length       | Width      | Height     |                  |          |
| Model                    | Length (L)       | (1.5 x Top Roll Ø) | (3 x Top Roll Ø) | Top Roll         | Roll             | Rolls           | Through (A)        | Height (C) | (U)          | (G)        | (Y)        | LBS              | HP       |
| HRB-4 1504               | 5' 1"            | 1/8"               | 5/32"            | 5.51"            | 5.12"            | 5.12"           | 1/2"               | 34"        | 137"         | 50"        | 45"        | 4,450            | 5        |
| HRB-4 1505               | 5' 1"            | 5/32"              | 3/16"            | 5.91"            | 5.51"            | 5.12"           | 1/2"               | 34"        | 137"         | 50"        | 45"        | 4,950            | 5        |
| HRB-4 1507               | 5' 1"            | 3/16"              | 5/16"            | 6.69"            | 5.91"            | 5.51"           | 5/8"               | 34"        | 137"         | 50"        | 45"        | 5,450            | 7        |
| HRB-4 2003               | 6' 8"            | 14 Ga              | 1/8"             | 5.51"            | 5.12"            | 5.12"           | 1/2"               | 34"        | 156"         | 50"        | 45"        | 5,200            | 5        |
| HRB-4 2004               | 6' 8"            | 1/8"               | 5/32"            | 5.91"            | 5.51"            | 5.12"           | 1/2"               | 34"        | 156"         | 50"        | 45"        | 5,700            | 5        |
| HRB-4 2006<br>HRB-4 2008 | 6' 8"            | 5/32"              | 1/4"             | 6.69"            | 5.91"            | 5.51"           | 5/8"               | 34"<br>33" | 156"         | 50"<br>58" | 45"<br>46" | 7,800            | 7        |
| HRB-4 2008               | 6' 8"<br>6' 8"   | 1/4"<br>5/16"      | 5/16"<br>3/8"    | 7.87"<br>8.27"   | 7.09"<br>7.48"   | 6.69"<br>7.09"  | 1-3/16"<br>1-3/16" | 33"        | 164"<br>164" | 58"        | 46"        | 10,600<br>13,800 | 10       |
| HRB-4 2013               | 6' 8"            | 3/8"               | 1/2"             | 9.06"            | 8.27"            | 7.48"           | 1-3/16"            | 32"        | 164"         | 58"        | 46"        | 16,900           | 15       |
| HRB-4 2016               | 6' 8"            | 1/2"               | 5/8"             | 10.63"           | 9.84"            | 8.66"           | 2"                 | 45"        | 168"         | 65"        | 55"        | 19,165           | 15       |
| HRB-4 2020               | 6' 8"            | 5/8"               | 25/32"           | 11.81"           | 10.63"           | 8.66"           | 2"                 | 45"        | 168"         | 65"        | 55"        | 22,500           | 20       |
| HRB-4 2025               | 6' 8"            | 25/32"             | 1"               | 12.99"           | 11.81"           | 9.84"           | 2"                 | 44"        | 172"         | 75"        | 67"        | 25,600           | 20       |
| HRB-4 2030               | 6' 8"            | 1"                 | 1-3/16"          | 14.17"           | 12.99"           | 9.84"           | 2-3/8"             | 59"        | 172"         | 75"        | 67"        | 35,800           | 25       |
| HRB-4 2035               | 6' 8"            | 1-3/16"            | 1-3/8"           | 15.75"           | 14.57"           | 11.81"          | 2-1/2"             | 59"        | 195"         | 83"        | 75"        | 37,900           | 30       |
| HRB-4 2040               | 6' 8"            | 1-3/8"             | 1-9/16"          | 16.93"           | 15.75"           | 12.99"          | 2-3/4"             | 58"        | 195"         | 87"        | 79"        | 43,000           | 40       |
| HRB-4 2050               | 6' 8"            | 1-9/16"            | 2"               | 18.11"           | 16.54"           | 14.17"          | 3-3/8"             | 74"        | 215"         | 91"        | 87"        | 67,400           | 50       |
| HRB-4 2065               | 6' 8"            | 2"                 | 2-1/2"           | 19.29"           | 18.11"           | 14.57"          | 3-1/2"             | 73"        | 215"         | 91"        | 79"        | 72,400           | 60       |
| HRB-4 2506               | 8' 4"            | 5/32"              | 1/4"             | 7.87"            | 7.09"            | 6.69"           | 1-3/16"            | 33"        | 172"         | 51"        | 46"        | 11,600           | 7        |
| HRB-4 2508               | 8' 4"            | 1/4"               | 5/16"            | 8.27"            | 7.48"            | 7.09"           | 1-3/16"            | 33"        | 175"         | 55"        | 46"        | 12,800           | 10       |
| HRB-4 2510               | 8' 4"            | 5/16"              | 3/8"             | 9.06"            | 8.27"            | 7.48"           | 1-3/16"            | 32"        | 175"         | 55"        | 46"        | 14,300           | 10       |
| HRB-4 2513               | 8' 4"            | 3/8"               | 1/2"             | 10.63"           | 9.84"            | 8.66"           | 2"                 | 45"        | 183"         | 65"        | 55"        | 23,800           | 15       |
| HRB-4 2516<br>HRB-4 2520 | 8' 4"<br>8' 4"   | 1/2"<br>5/8"       | 5/8"<br>25/32"   | 11.81"<br>12.99" | 10.63"<br>11.81" | 8.66"<br>9.84"  | 2"<br>2"           | 45"<br>44" | 183"<br>191" | 65"<br>75" | 55"<br>67" | 26,500<br>27,580 | 15<br>20 |
| HRB-4 2525               | 8' 4"            | 25/32"             | 1"               | 14.17"           | 12.99"           | 9.84"           | 2-3/8"             | 59"        | 191"         | 75"        | 67"        | 39,400           | 25       |
| HRB-4 2530               | 8' 4"            | 1"                 | 1-3/16"          | 15.75            | 14.57            | 11.42           | 2-3/8              | 58"        | 197"         | 81"        | 80"        | 44,000           | 40       |
| HRB-4 2535               | 8' 4"            | 1-3/16"            | 1-3/8"           | 16.93            | 15.75            | 12.56           | 2 3/4"             | 58"        | 197"         | 81"        | 84"        | 48,000           | 50       |
| HRB-4 2540               | 8' 4"            | 1-3/8"             | 1-9/16"          | 18.11            | 18.11            | 14.56           | 3 1/2"             | 74"        | 222"         | 90"        | 99"        | 69,800           | 60       |
| HRB-4 2550               | 8' 4"            | 1-9/16"            | 2"               | 19.29"           | 19.29"           | 14.56           | 4"                 | 73"        | 226"         | 90"        | 102"       | 78,900           | 70       |
| HRB-4 2565*              | 8' 4"            | 2"                 | 2-1/2"           | 20.47            | 20.47            | 16.14           | 4"                 | 76"        | 230"         | 91"        | 103"       | 120,900          | 80       |
| HRB-4 3006               | 10' 2"           | 5/32"              | 1/4"             | 8.27"            | 7.48"            | 7.09"           | 1-3/16"            | 33"        | 205"         | 58"        | 46"        | 13,700           | 10       |
| HRB-4 3008               | 10' 2"           | 1/4"               | 5/16"            | 9.06"            | 8.27"            | 7.48'           | 1-3/16"            | 32"        | 205"         | 58"        | 46"        | 14,800           | 15       |
| HRB-4 3010               | 10' 2"           | 5/16"              | 3/8"             | 10.63"           | 9.84"            | 8.66"           | 2"                 | 45"        | 209"         | 65"        | 55"        | 27,800           | 15       |
| HRB-4 3013               | 10' 2"           | 3/8"               | 1/2"             | 11.81"           | 10.63"           | 8.66"           | 2"                 | 45"        | 209"         | 65"        | 55"        | 29,500           | 20       |
| HRB-4 3016               | 10' 2"           | 1/2"               | 5/8"             | 12.99"           | 11.81"           | 9.84"           | 2"                 | 44"        | 213"         | 75"        | 67"        | 31,600           | 20       |
| HRB-4 3020               | 10' 2"           | 5/8"               | 25/32"           | 14.18"           | 12.99"           | 9.84"           | 2-3/8"             | 59"        | 213"         | 75"<br>83" | 67"        | 43,000           | 25       |
| HRB-4 3025<br>HRB-4 3030 | 10' 2"<br>10' 2" | 25/32"<br>1"       | 1"<br>1-3/16"    | 15.75"<br>16.93" | 14.57"<br>15.75" | 11.81"          | 2-1/2"             | 59"<br>58" | 237"<br>237" | 83"        | 75"<br>79" | 47,000<br>52,500 | 40       |
| HRB-4 3035               | 10'2"            | 1-3/16"            | 1-3/10           | 17.72            | 16.54"           | 14.17"          | 3-3/8"             | 74"        | 256"         | 91"        | 87"        | 76,900           |          |
| HRB-4 3040               | 10' 2"           | 1-3/8"             | 1-9/16"          | 19.29"           | 16.93"           | 14.17"          | 3-1/2"             | 73"        | 256"         | 91"        | 87"        | 94,000           | 60       |
| HRB-4 3050*              | 10' 2"           | 1-9/16"            | 2"               | 20.47"           | 19.29"           | 16.54"          | 4"                 | 72"        | 264"         | 107"       | 99"        | 118,000          |          |
| HRB-4 3065*              | 10' 2"           | 2"                 | 2-1/2"           | 25.59"           | 24.02"           | 19.69"          | 5"                 | 111"       | 288"         | 142"       | 144"       | 196,000          |          |
| HRB-4 3085*              | 10' 2"           | 2-3/4"             | 3-3/8"           | 29.92"           | 28.35"           | 23.62"          | 6-3/8"             | 118"       | 296"         | 142"       | 156"       | 232,000          | 150      |
| HRB-4 3105*              | 10' 2"           | 3-1/2"             | 4"               | 32.28"           | 30.71"           | 25.20"          | 7-3/4"             | 129"       | 296"         | 156"       | 170"       | 345,000          | 200      |
| HRB-4 3120*              | 10' 2"           | 4"                 | 4-1/2"           | 34.25"           | 32.28"           | 27.17"          | 8-3/4"             | 145"       | 296"         | 170"       | 189"       | 368,000          | 250      |
| HRB-4 3140*              | 10' 2"           | 4-1/2"             | 5-1/2"           | 38.19"           | 36.22"           | 30.31"          | 10"                | 157"       | 303"         | 185"       | 105"       | 450,000          |          |
| HRB-4 3160*              | 10' 2"           | 5-1/2"             | 6-3/8"           | 42.13"           | 40.16"           | 34.25"          | 11"                | 165"       | 335"         | 209"       | 216"       | 520,000          |          |
| HRB-4 4006               | 13' 5"           | 5/32"              | 1/4"             | 10.63"           | 9.84"            | 8.66"           | 2"                 | 45"        | 248"         | 65"        | 55"        | 31,000           |          |
| HRB-4 4008               | 13' 5"           | 1/4"               | 5/16"            | 11.81"           | 10.63"           | 8.66"           | 2"                 | 45"        | 248"         | 65"        | 55"        | 33,000           | 15       |
| HRB-4 4010               | 13' 5"           | 5/16"              | 3/8"             | 12.99"           | 11.81"           | 9.84"           | 2"                 | 44"        | 252"         | 75"        | 67"<br>67" | 35,715           | 20       |
| HRB-4 4013<br>HRB-4 4016 | 13' 5"<br>13' 5" | 3/8"<br>1/2"       | 1/2"<br>5/8"     | 14.17"<br>15.75" | 12.99"<br>14.57" | 9.84"<br>11.81" | 2-3/8"<br>2-1/2"   | 59"<br>58" | 252"<br>276" | 75"<br>83" | 75"        | 54,000<br>56,500 | 25<br>30 |
| HRB-4 4020               | 13'5"            | 5/8"               | 25/32"           | 16.93"           | 15.75"           | 12.99"          | 2-1/2              | 58"        | 276"         | 87"        | 75<br>79"  | 61,400           | 40       |
| HRB-4 4025               | 13' 5"           | 25/32"             | 1"               | 18.11"           | 16.54"           | 14.17"          | 3-3/8"             | 74"        | 296"         | 91"        | 87"        | 84,000           | 50       |
| HRB-4 4023               | 13'5"            | 1"                 | 1-3/16"          | 18.50"           | 16.93"           | 14.17"          | 3-3/8              | 73"        | 296"         | 91"        | 87"        | 105,000          |          |
| HRB-4 4035*              | 13' 5"           | 1-3/16"            | 1-3/8"           | 20.47"           | 19.29"           | 16.54"          | 4"                 | 72"        | 303"         | 107"       | 99"        | 123,800          |          |
| 11ND-44033               | 13 3             | 1 3/10             | 1 3/0            | 20.7/            | 13.23            | 10.37           |                    | , _        | 505          | 107        | ,,,        | 123,000          | ,,,      |

# **JMT HRB-3** SERIES PLATE ROLLS



- 1/4" 2" Bending Thicknesses
- Flexible machine for medium to thick material
- Cost effective solutions for large diameters
- Wide working range
- Excellent for rolling cones
- Great value for precision and reliability
- All rolls are driven with superior torque and speed

# **JMT HRB-3 PLATE ROLL FEATURES**



All Rolls Driven (Standard)



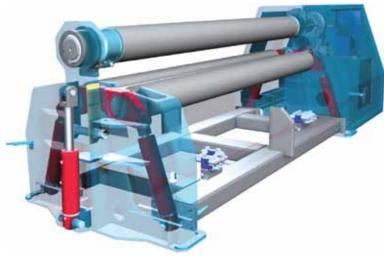
Conical Bending System (Standard)



PLC Control System (Standard)



High End Hydraulic and Electrical System



## Other Standard Features of the HRB-3

- Strengthened Machine Body
- Strengthened Bearing Guidance System
- · Induction Hardened Roll Surface
- · Rolls Machined with an Optimum Crown
- · Strong Hydraulic Brakes



## Many Options Available for the HRB-3

- · Vertical Plate Roll Configuration
- · Extended Rolls for Profile Bending
- · Optional Side, Vertical or Special Sheet Support System

## **JMT HRB-3** PLATE ROLL STANDARD EQUIPMENT

- · Touch screen control unit with four multi-pass programmable digital readouts
- Dual speed control (fast/slow)
- · Cone bending
- Induction hardened rolls (HRC 58)
- · Highly durable forged 4140 alloy steel rolls machined by CNC Lathes with optimal crown (special crown upon request)
- · Machine body constructed of stress-relieved high-yield steel
- · Side rolls electronically positioned and synchronized with PLC and high-end precision digital scales
- · Automatic rolls peripheral speed compensation (optimum distribution of torque)
- · Rolls seated in spherical bearings
- · Top roll hydraulic opening device (drop end) with easy pull out system
- · All three rolls driven:
  - · Top roll driven with hydraulic motor and planetary gear box
  - · Side rolls up to 14.17" are hydraulic motor driven
  - · Side rolls 14.17" and above are driven with a combination of hydraulic motors and planetary gear boxes
- Rolls with an 17.72" or larger top roll come standard with rectilinear guides.
- · Safety barrier
- · Electrical and hydraulic protection against overloads
- · World standard electrical and hydraulic components (parts stocked by JMT or available off-the-shelf from your local supplier)
- · Permanent lubrication



JMT Planetary Rolls



**JMT** Rectilinear Rolls

## **JMT HRB-3** PLATE ROLL OPTIONAL EQUIPMENT

- · Polished Rolls
- · Variable speed control
- · Wired or wireless remote
- · Oil Cooler
- · Side support system (both sides)
- · Preparation for vertical support system
- Vertical overhead support system (mechanical or hydraulic)
- · Material feeding table
- · Changeable top roll for smaller diameters
- · Extended rolls for section/profile bending
- · Welding possibility on the machine

Many options and customizations are available — please contact us for details.

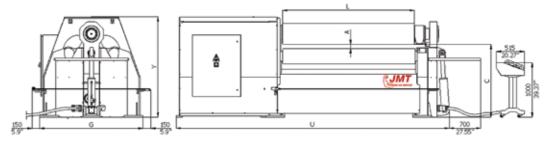
Web: **JMTUSA.com** 

Email: JMT@JMTUSA.com

Call Toll Free: **855-773-7727** (855-PRESS-BRAKE)

# **JMT HRB-3 PLATE ROLL TECHNICAL DIMENSIONS**

|             | Bending    | Pre-Bending<br>and Rolling | Bending          |          | Side   | Max. Pass   | Working    | Length | Width | Height |         |    |
|-------------|------------|----------------------------|------------------|----------|--------|-------------|------------|--------|-------|--------|---------|----|
| Model       | Length (L) | (1.5 x Top Roll Ø)         | (3 x Top Roll Ø) | Top Roll | Rolls  | Through (A) | Height (C) | (U)    | (G)   | (Y)    | LBS     | HP |
| HRB-3 2006  | 6' 8"      | 5/32"                      | 1/4"             | 7.28"    | 6.50"  | 2-3/4"      | 31.89      | 152"   | 52"   | 46"    | 5,512   | 5  |
| HRB-3 2008  | 6' 8"      | 1/4"                       | 5/16"            | 7.87"    | 7.09"  | 2-3/4"      | 32.28      | 152"   | 52"   | 46"    | 7,276   | 7  |
| HRB-3 2010  | 6' 8"      | 5/16"                      | 3/8"             | 8.66"    | 7.87"  | 2-3/16"     | 32.28      | 156"   | 56"   | 46"    | 8,819   | 10 |
| HRB-3 2013  | 6' 8"      | 3/8"                       | 1/2"             | 9.06"    | 8.27"  | 3-3/16"     | 35.43      | 156"   | 56"   | 56"    | 10,583  | 10 |
| HRB-3 2016  | 6' 8"      | 1/2"                       | 5/8"             | 10.63"   | 9.84"  | 4"          | 38.58      | 164"   | 65"   | 56"    | 13,228  | 15 |
| HRB-3 2020  | 6' 8"      | 5/8"                       | 25/32"           | 11.81"   | 10.63" | 4"          | 40.55      | 164"   | 65"   | 56"    | 15,874  | 15 |
| HRB-3 2025  | 6' 8"      | 25/32"                     | 1"               | 12.99"   | 11.42" | 4"          | 42.32      | 172"   | 75"   | 67"    | 20,503  | 20 |
| HRB-3 2030  | 6' 8"      | 1"                         | 1-3/16"          | 14.17"   | 12.60" | 4"          | 48.62      | 172"   | 75"   | 67"    | 22,047  | 25 |
| HRB-3 2035  | 6' 8"      | 1-3/16"                    | 1-3/8"           | 16.14"   | 14.96" | 2-3/4"      | 48.82      | 195"   | 83"   | 75"    | 28,661  | 40 |
| HRB-3 2040  | 6' 8"      | 1-3/8"                     | 1-9/16"          | 16.93"   | 15.35" | 4"          | 56.30      | 195"   | 87"   | 79"    | 35,274  | 40 |
| HRB-3 2050  | 6' 8"      | 1-9/16"                    | 2"               | 17.72"   | 16.54" | 4"          | 62.60      | 215"   | 91"   | 87"    | 41,888  | 50 |
| HRB-3 2506  | 8' 4"      | 5/32"                      | 1/4"             | 7.87"    | 7.09"  | 2-3/4"      | 32.28      | 152"   | 52"   | 46"    | 9,500   | 7  |
| HRB-3 2508  | 8' 4"      | 1/4"                       | 5/16"            | 8.66"    | 7.87"  | 2-3/16"     | 32.28      | 176"   | 56"   | 46"    | 10,800  | 10 |
| HRB-3 2510  | 8' 4"      | 5/16"                      | 3/8"             | 9.06"    | 8.27"  | 3-3/16"     | 35.43      | 176"   | 56"   | 56"    | 12,126  | 10 |
| HRB-3 2513  | 8' 4"      | 3/8"                       | 1/2"             | 10.63"   | 9.84"  | 4"          | 38.58      | 184"   | 65"   | 56"    | 14,771  | 15 |
| HRB-3 2516  | 8' 4"      | 1/2"                       | 5/8"             | 11.81"   | 10.63" | 4"          | 40.55      | 184"   | 65"   | 56"    | 17,637  | 15 |
| HRB-3 2520  | 8' 4"      | 5/8"                       | 25/32"           | 12.99"   | 11.42" | 4"          | 42.32      | 191"   | 75"   | 67"    | 22,929  | 20 |
| HRB-3 2525  | 8' 4"      | 25/32"                     | 1"               | 14.17"   | 12.60" | 4"          | 48.62      | 191"   | 75"   | 67"    | 25,354  | 25 |
| HRB-3 2530  | 8' 4"      | 1"                         | 1-3/16"          | 16.14"   | 14.96" | 2-3/4"      | 48.82      | 215"   | 83"   | 75"    | 33,070  | 40 |
| HRB-3 2535  | 8' 4"      | 1-3/16"                    | 1-3/8"           | 16.93"   | 15.35" | 4"          | 56.30      | 215"   | 87"   | 79"    | 41,888  | 40 |
| HRB-3 2540  | 8' 4"      | 1-3/8"                     | 1-9/16"          | 17.72"   | 16.54" | 4"          | 62.60      | 235"   | 91"   | 87"    | 50,707  | 50 |
| HRB-3 3006  | 10' 2"     | 5/32"                      | 1/4"             | 8.66"    | 7.87"  | 2-3/16"     | 32.28      | 197"   | 56"   | 46"    | 11,024  | 10 |
| HRB-3 3008  | 10' 2"     | 1/4"                       | 5/16"            | 9.06"    | 8.27"  | 3-3/16"     | 35.43      | 197"   | 56"   | 56"    | 13,228  | 10 |
| HRB-3 3010  | 10' 2"     | 5/16"                      | 3/8"             | 10.63"   | 9.84"  | 4"          | 38.58      | 205"   | 65"   | 56"    | 16,535  | 15 |
| HRB-3 3013  | 10' 2"     | 3/8"                       | 1/2"             | 11.81"   | 10.63" | 4"          | 40.55      | 205"   | 65"   | 56"    | 19,842  | 15 |
| HRB-3 3016  | 10' 2"     | 1/2"                       | 5/8"             | 12.99"   | 11.42" | 4"          | 42.32      | 213"   | 75"   | 67"    | 26,015  | 20 |
| HRB-3 3020  | 10' 2"     | 5/8"                       | 25/32"           | 14.17"   | 12.60" | 4"          | 48.62      | 213"   | 75"   | 67"    | 33,500  | 25 |
| HRB-3 3025  | 10' 2"     | 25/32"                     | 1"               | 16.14"   | 14.96" | 2-3/4"      | 48.82      | 237"   | 83"   | 75"    | 37,479  | 40 |
| HRB-3 3030  | 10' 2"     | 1"                         | 1-3/16"          | 16.93"   | 15.35" | 4"          | 56.30      | 237"   | 87"   | 79"    | 46,298  | 40 |
| HRB-3 3035  | 10' 2"     | 1-3/16"                    | 1-3/8"           | 17.72"   | 16.54" | 4"          | 62.60      | 256"   | 91"   | 87"    | 55,116  | 50 |
| HRB-3 3040  | 10' 2"     | 1-3/8"                     | 1-9/16"          | 18.50"   | 17.72" | 4"          | 68.90      | 256"   | 91"   | 87"    | 66,139  | 60 |
| HRB-3 3050* | 10' 2"     | 1-9/16"                    | 2"               | 20.47"   | 19.29" | 6"          | 74.80      | 264"   | 107"  | 99"    | 83,776  | 70 |
| HRB-3 4006  | 13' 5"     | 5/32"                      | 1/4"             | 10.63"   | 9.84"  | 4"          | 38.58      | 245"   | 65"   | 56"    | 19,842  | 15 |
| HRB-3 4008  | 13' 5"     | 1/4"                       | 5/16"            | 11.81"   | 10.63" | 4"          | 40.55      | 245"   | 65"   | 56"    | 24,251  | 15 |
| HRB-3 4010  | 13' 5"     | 5/16"                      | 3/8"             | 12.99"   | 11.42" | 4"          | 42.32      | 252"   | 75"   | 67"    | 30,865  |    |
| HRB-3 4013  | 13' 5"     | 3/8"                       | 1/2"             | 14.17"   | 12.60" | 4"          | 48.62      | 252"   | 75"   | 67"    | 39,684  | 25 |
| HRB-3 4016  | 13' 5"     | 1/2"                       | 5/8"             | 16.14"   | 14.96" | 2-3/4"      | 48.82      | 276"   | 83"   | 75"    | 48,502  | 40 |
| HRB-3 4020  | 13' 5"     | 5/8"                       | 25/32"           | 16.93"   | 15.35" | 4"          | 56.30      | 276"   | 87"   | 79"    | 55,116  | 40 |
| HRB-3 4025  | 13' 5"     | 25/32"                     | 1"               | 17.72"   | 16.54" | 4"          | 62.60      | 296"   | 91"   | 87"    | 66,139  | 50 |
| HRB-3 4030  | 13' 5"     | 1"                         | 1-3/16"          | 18.50"   | 17.72" | 4"          | 68.90      | 296"   | 91"   | 87"    | 74,958  | 60 |
| HRB-3 4035* | 13' 5"     | 1-3/16"                    | 1-3/8"           | 20.47"   | 18.50" | 6"          | 74.80      | 304"   | 107"  | 99"    | 103,618 | 70 |



Standard machine specifications.

Custom machines available upon request.

Due to ongoing product development,
specifications are subject to change.

\* For models marked with an asterisk:

Ø Dmin= Ødx2 (prebending); Ødx4 (bending).

Above info for Class 2 material (mild steel).

For different materials, please consult your sales representative. Bending capacities may need to be reduced for conical bending.

# **JMT** HRB-3V SERIES

## Bending Thicknesses: 1" - 6"

Variable geometry plate rolls are more versatile than single or double pinch 3 rolls because of the way they are built. They are suitable for medium and thick plate bending.

Unlike the standard 3-roll, the lower rolls move horizontally to right and left and the upper roll moves up and down.

Similar to 4-roll machines, the material is loaded parallel to the floor, so putting the machine in a pit is an option.

The current system design allows the roll to be used as a traditional pressing roll in addition to standard rolling.



## **JMT HRB-3V PLATE ROLL FEATURES**



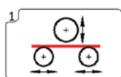
# BENEFITS OF 3-ROLL VARIABLE GEOMETRY PLATE ROLL BENDING MACHINES

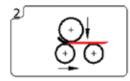
Three-roll variable geometry plate roll bending machines are more precise, productive and safer plate roll benders because of their user-friendly operation with less dependence on operator competence.

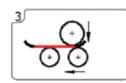
**JMT** HRB-3Vs are suitable for medium and thick plate bending. Unlike the usual cylinder machines, the lower rolls move horizontally to the right and left while the upper roll moves up and down.

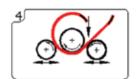
As with four-roll machines, the material is introduced in a parallel fashion so the machine pit can be at working level.

Because of its unique design, the upper roll can be used as a traditional press.







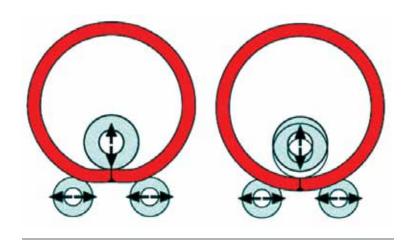




### Stable, Robust Machine Bodies (Standard)

The **JMT** HRB-3V machine body is strengthened and lowered to minimize twists and deformation of the plate. This robust body is joined by steel bars to sturdy the machine frame.

The machine body, frame and steel bar connections are all stress relieved after the welding operation. The whole body is machined with 5-axis CNC machining centers, utilizing a fixed single reference point. This allows for parallelism of all axes and precise surfaces, as well as longevity and precision of the critical characteristics of the machine.

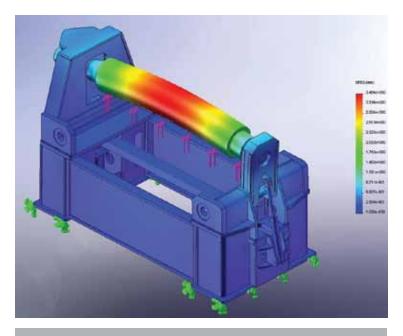


Pressing Out the Flat Spot in Rolled Material



High Torque Roll Drive System (Standard)

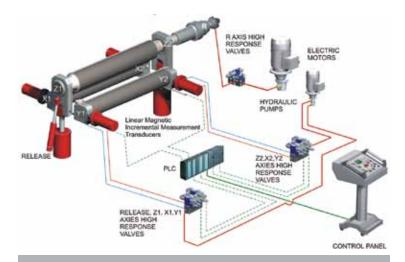
Machine Installed in a Pit Style Configuration



### **Engineering and Product Advantage**

The mechanical and hydraulic systems on *JMT* HRB-3V machines are designed by experienced engineers at our factory. These engineers design the machines utilizing parametric 3D engineering technology as well as implementation of mechanical and kinematic analysis.

All mechanical, hydraulic, and electronic systems are designed and tested by electrical and mechanical engineers. Only following lengthy tests and evaluations are the machines authorized to be manufactured in serial production.



## Precise Roll Positioning System (Standard)

The side rolls on a *JMT* HRB-3V are positioned by four strong hydraulic cylinders. The top roll is positioned by two strong hydraulic cylinders with adjustable pinching pressure. Synchronization between the rolls is acquired by linear magnetic incremental measurement transducers and the PLC's millisecond response.

### Hardened Rolls And Crowning System (Standard)

Highly durable forged 4140 alloy steel rolls are machined by CNC lathes to achieve optimal crown. Working surfaces of the rolls are CNC induction hardened to HRC 54+/-2. Special alloy rolls and special crown available upon request.



#### **JMT HRB-3V STANDARD EQUIPMENT**

- PLC control system
- Dual cone rolling device
- Induction hardened rolls
- Rolls positioning from electronic synchronized by PLC
- Rolls translations and rotation movement hydraulic systems are independent in dual rolling speed.
- Stress relieved steel construction body
- Rolls housed in sealed spherical roller bearings
- High stroke top roll and hydraulic drop end
- Top roll drive has planetary gear box and hydraulic motor
- Braking system on side rolls
- Protected slide surfaces
- Hydraulic protection from overloads and it is monitored on the screen.
- Centralized lubrication system
- Portable control panel
- Safety wire around the machine
- Triple speed for rolling
- Dual speed for rolls positioning
- Top roll press and rotation pressure gauges are monitored on the screen.

#### **JMT HRB-3V OPTIONAL EQUIPMENT**

- NC control system
- Side supports at both side
- Vertical support crane system
- · Changeable top roll for smaller diameters
- Polished rolls
- Oil coolant
- Oil heating
- Welding possibility on the machine
- Preparation for vertical support crane system and side supports
- Plate Feeding table
- Plate alignment unit
- Separated power cabin
- Special applications for wind-tower production

# **JMT** IP MOTORIZED & MANUAL ROLLS









#### **JMT** RB Manual Roll Bender

#### **RB Standard Specifications**

- Conical bending
- Cast frame
- SAE 1050 steel rolls
- Bottom and pinch rolls manually adjusted
- Bottom and pinch rolls with wire grooves

#### **Optional Accessories**

- Hardened rolls
- Ground rolls

### **JMT** MRB-e Motorized Initial Pinch Bending Rolls

#### **MRB-e Standard Specifications**

- Conical bending
- Cast frame
- SAE 1050 steel rolls
- Portable foot pedal
- Emergency stop
- Bottom and pinch rolls manually adjusted
- Bottom and pinch rolls with wire grooves
- Top and bottom rolls are driven

#### Optional Accessories

- Digital Readout(s)
- Hardened rolls
- Ground rolls

Economical Light Gauge Roll

### **JMT** MRB Motorized Initial Pinch Bending Rolls

#### **MRB Standard Specifications**

- Conical bending
- Back roll has motorized adjustment
- · Bottom roll is manually adjusted
- Top and bottom rolls powered by electrical motor, gearbox and gear drive
- · Portable control console
- Hardened, SAE 1050 steel rolls
- · Cast iron frame
- Precise bending with motor brake

#### **Optional Accessories**

- Digital readout(s)
- Remote (wired or wireless)
- Bottom roll motorized for clamping
- · Ground rolls
- Extended rolls for section bending
- Section rolls

Cast Iron Frame

### **JMT** MRB-S Motorized Initial Pinch Bending Rolls

#### **MRB-S Standard Specifications**

- Conical bending
- Back roll has motorized adjustment
- Bottom roll is manually adjusted
- Top and bottom rolls powered by electrical motor and gearbox
- Portable control console
- Hardened, SAE 1050 steel rolls
- Stress-relieved steel construction frame
- MRB-S 2500 and 3000 series machines feature a bottom roll support system to increase bending
- Precise bending with motor brake

#### **Optional Accessories**

- Digital readout(s)
- Remote (wired or wireless)
- Bottom roll motorized for clamping
- Ground rolls
- Extended rolls for section bending
- Section rolls

Stress-Relieved Steel Frame

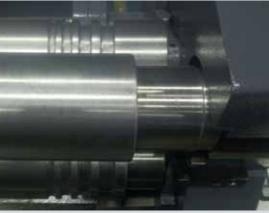
# **JMT** IP MOTORIZED & MANUAL ROLLS TECHNICAL DIMENSIONS

| Manual<br>Model | Bending<br>Length | Capacity* | Top Roll Ø | Length | Height | Width | LBS   | НР |
|-----------------|-------------------|-----------|------------|--------|--------|-------|-------|----|
| RB 1001         | 3' 4"             | 18 Ga.    | 2.20"      | 60"    | 44"    | 21"   | 485   | -  |
| RB 1002         | 3' 4"             | 14 Ga.    | 2.95"      | 69"    | 45"    | 21"   | 816   | -  |
| RB 1003         | 3' 4"             | 1/8"      | 3.54"      | 69"    | 45"    | 21"   | 904   |    |
| RB 1202         | 4' 2"             | 14 Ga.    | 2.95"      | 79"    | 45"    | 21"   | 948   | -  |
| RB 1203         | 4' 2"             | 1/8"      | 3.74"      | 79"    | 45"    | 21"   | 1,136 | -  |
| RB 1525         | 5'                | 12 Ga.    | 3.74"      | 89"    | 45"    | 21"   | 1,312 | _  |
| RB 2015         | 6' 7"             | 16 Ga.    | 3.54"      | 109"   | 45"    | 21"   | 1,422 | -  |

| Motorized<br>Model | Bending<br>Length | Capacity* | Top Roll Ø | Length | Height | Width | LBS   | НР  |
|--------------------|-------------------|-----------|------------|--------|--------|-------|-------|-----|
| MRB-e 1001         | 3' 4"             | 18 Ga.    | 2.20"      | 69"    | 44"    | 34"   | 618   | 1   |
| MRB-e 1002         | 3' 4"             | 14 Ga.    | 2.95"      | 69"    | 45"    | 34"   | 849   | 1   |
| MRB-e 1003         | 3' 4"             | 1/8"      | 3.54"      | 79"    | 45"    | 34"   | 970   | 1.5 |
| MRB-e 1202         | 4' 2"             | 14 Ga.    | 2.95"      | 79"    | 45"    | 34"   | 1,004 | 2   |
| MRB-e 1203         | 4' 2"             | 1/8"      | 3.74"      | 89"    | 45"    | 34"   | 1,224 | 2   |
| MRB-e 1525         | 5'                | 12 Ga.    | 3.74"      | 89"    | 45     | 34"   | 1,389 | 2   |
| MRB-e 2015         | 6' 7"             | 16 Ga.    | 3.54"      | 109"   | 45"    | 34"   | 1,500 | 2   |

| MRB 1004 | 3' 4" | 10 Ga. | 4.33" | 75"  | 45" | 38" | 3,635 | 3 |
|----------|-------|--------|-------|------|-----|-----|-------|---|
| MRB 1204 | 4' 2" | 10 Ga. | 4.72" | 85"  | 45" | 38" | 3,966 | 3 |
| MRB 1503 | 5'    | 12 Ga. | 4.33" | 95"  | 45" | 38" | 4,060 | 3 |
| MRB 1504 | 5'    | 10 Ga. | 5.12" | 95"  | 45" | 38" | 4,142 | 3 |
| MRB 2004 | 6' 7" | 10 Ga. | 5.51" | 115" | 45" | 38" | 4,451 | 3 |

| MRB-S 1506 | 5'    | 1/4"   | 5.91" | 123" | 45" | 41" | 5,630  | 4 |
|------------|-------|--------|-------|------|-----|-----|--------|---|
| MRB-S 2005 | 6' 7" | 3/16"  | 5.91" | 142" | 45" | 41" | 6,571  | 4 |
| MRB-S 2006 | 6' 7" | 1/4"   | 6.69" | 142" | 48" | 46" | 6,992  | 5 |
| MRB-S 2504 | 8' 3" | 10 Ga. | 5.91" | 162" | 45" | 41" | 7,453  | 5 |
| MRB-S 2506 | 8' 3" | 1/4"   | 7.48" | 168" | 48" | 46" | 8,268  | 7 |
| MRB-S 2508 | 8' 3" | 5/16"  | 8.66" | 168" | 48" | 46" | 9,767  | 7 |
| MRB-S 3004 | 10'   | 10 Ga. | 7.09" | 182" | 45" | 41" | 9,370  | 5 |
| MRB-S 3006 | 10'   | 1/4"   | 8.66" | 188" | 48" | 46" | 10,847 | 7 |



Roll Grooves on an MRB-e Bender



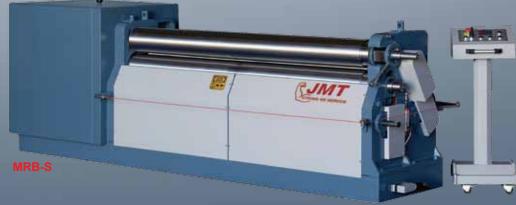
Bottom Roll Support System on MRB-S 2500 and 3000 Series Machines

Standard machine specifications. *Custom machines available upon request.*Due to ongoing product development, specifications are subject to change.

For different materials, please consult your sales representative.

\*Machines have greater capacity on shorter bending widths.







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