

**SHEET METAL FABRICATING MACHINES**

[jmt.com.tr](http://jmt.com.tr)

JMT designs and services quality metal fabrication Machine Tools for a wide range of sheet metal and structural steel working applications that include bending, cutting, drilling, punching, shearing and welding positioning.

JMT machines are built to our stringent set of design and quality standards in state-of-the-art manufacturing facilities. Along with designing our own machines, JMT partners with manufacturers that have extensive experience building Machine Tools for some of the leading brands in the industry. JMT, a division of Jorgenson Industrial Companies, is a family owned business established in 1967. Roger Jorgenson made it his mission to build this company on the foundation of strong customer service. His five children now continue this tradition since assuming leadership of the company in 2008.

Lead by son Kyle, JMT is supported by an ever expanding team of industry professionals, which include experienced product design engineers, sales consultants and veteran service engineers. JMT also has a resourceful parts and tooling department to keep your machines working at optimal performance.

The company has a large showroom, warehouse and service center at its headquarters in Salt Lake City, Utah. A team of JMT sales and service professionals are located across the United States to service customers quickly. JMT also has a sales, service and engineering office in Bursa, Turkey which covers Europe, Asia, Middle East, Africa and Australia. A global network of select distributors trained to sell and service JMT machines are strategically located to provide the fastest response times to our customers.

JMT product designs combine accuracy, speed, flexibility, durability, reliability and advanced technology to deliver machines with the highest performance-to-price ratio in the industry.



Some of JMT's **Worldwide** Staff



### JMT JM-S SERIES PRESS BRAKE FEATURES

#### STANDARDS

- ST44 Rigid Mono Block Steel Frame
- Synchronized Dual Cylinders
- Hoerbiger Hydraulic System
- Givi Misure Linear Measurement System
- Up and Down Moveable Control Unit Arm
- Delem 66T or Cybelec Modeva 15T
- Double Guided X, R Axis
- Servo Motorized Back Gauge
- CNC Motorized Crowning System
- JMT Top & Bottom Tool Clamps
- Sliding & Height Adjustable Front Arms

#### OPTIONS

- European, American, Wila or Wilson Tools
- Laser Safety Device
- Special Strokes and Throat Depths
- Tandem Preparation
- Oil Cooling and Heating Systems
- Delem DA69T Control Unit
- (X,R,Z1-Z2), (X1-X2,R,Z1-Z2), (X1-X2,R1-R2,Z1-Z2)
- Special Finger Blocks
- Motorized Lubrication System
- Parking Area for support arms
- Pneumatic or Motorized Bottom Tool Positioning System
- Automatic Loading & Unloading
- Sheet Following Systems

DAYLIGHT  
STROKE  
THROAT  
ACCURACY  
HIGH SPEED

# High Five

F o r a p e r f e c t j o b

JM-S Series press brakes are designed to increase your productivity and decrease your per unit cost. Design innovations based on our years of experience have resulted in faster speeds on the approach, bending, return and back gauge.

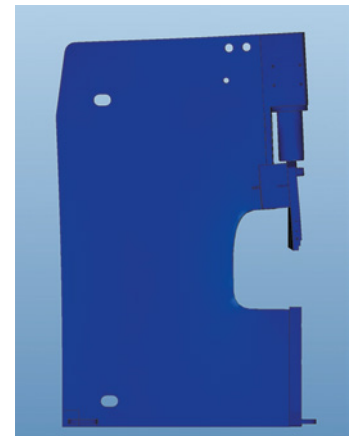
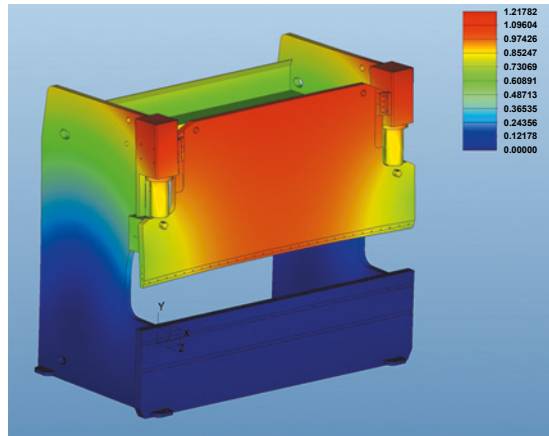
JM-S Series press brake features a rigid mono-block frame for minimum deflection under load. Synchronized dual cylinders and valves assure smooth, stable ram motion for high-quality, precision bends accurate to within 0,01 mm.

JM-S series daylight, stroke and throat depths are specially designed for long tools.

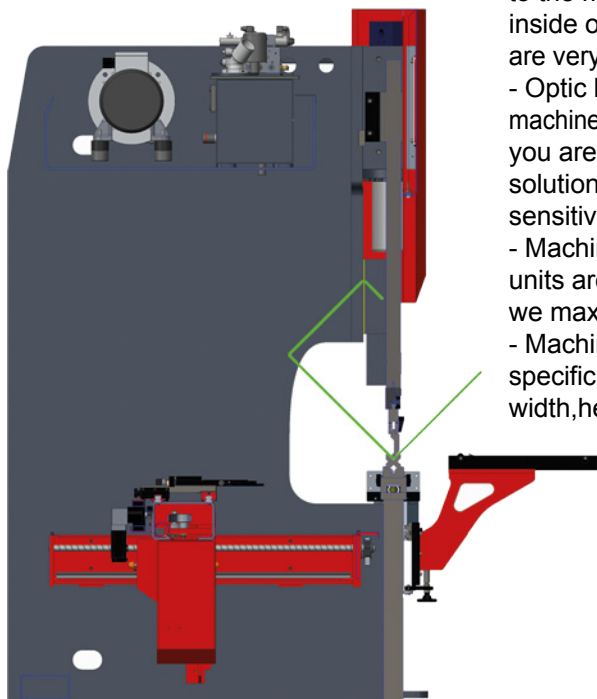


## MACHINE FRAME

JM-S & JM-R series press brake features a rigid mono-block frame for minimum deflection under the load. The frame steels are German origin, ultrasonic controlled & ST-44 material. Machine welding is made by welding apparatus & welding robots. After the welding, we make stress relief process by vibration system. After the stress relief process machine frame goes to CNC 5 axes machining centers for accuracy. All reference surfaces and connection holes are machined. By all this processes machine frame sensitivity is protected for a long life time.



## SIDE LOOKING

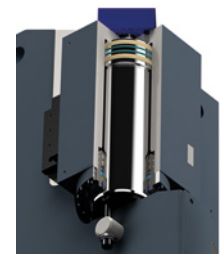


- Machine ram made from outside housing to the machine frame. There is no housing inside of the machine & by this solution you are very flexible to work at between columns.
- Optic linear guide system is fixed to the machine bed by separated arm. By this solution you are able to record all yaw values. This solution helps you to adjust your bendings sensitivities & repeatibilities.
- Machine hydraulic tank, motor & hydraulic units are compact designed on top of the machine. By our compact design, we maximised the machine for your specific bendings & collision free.
- Machine throat depth is maximised & throat design is specialised for your specific bendings. And also to make this solution we increased the machine width, height and weight.

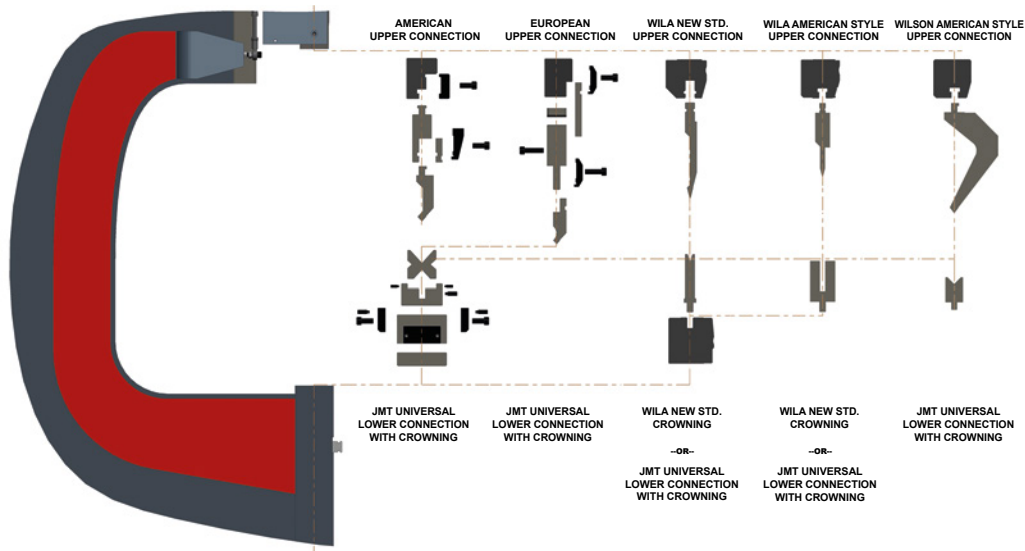


## MACHINE CYLINDERS

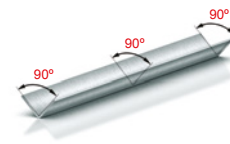
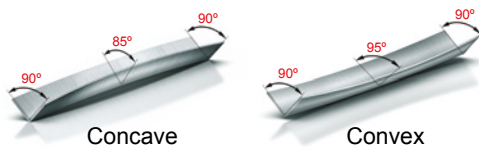
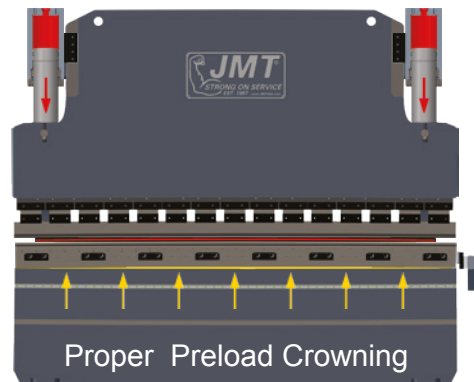
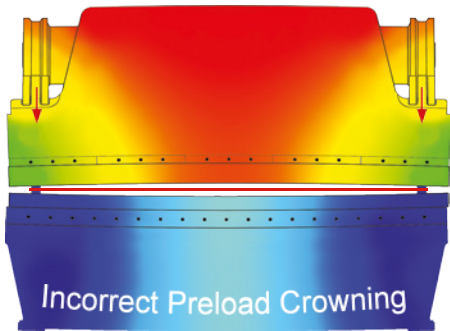
In order to allow tilting of the ram without damage, because of we use spherical connections. This type of connection also allows peak forces to be absorbed gently.



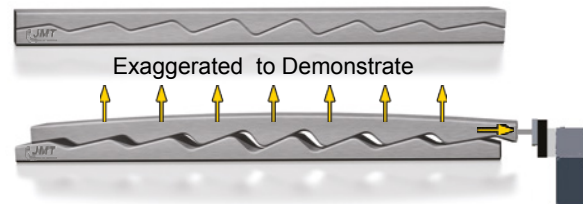
## JMT DIAGRAM CONNECTION TYPES (Most Tooling is Optional)



## JMT CNC MOTORIZED CROWNING SYSTEM



JMT offers both manual and automatic controlled crowning systems for all our press brakes. Automatic CNC crowning comes standard on our JM-S machines. The position and setting is automatically calculated and set from the normal program information via the CNC control.

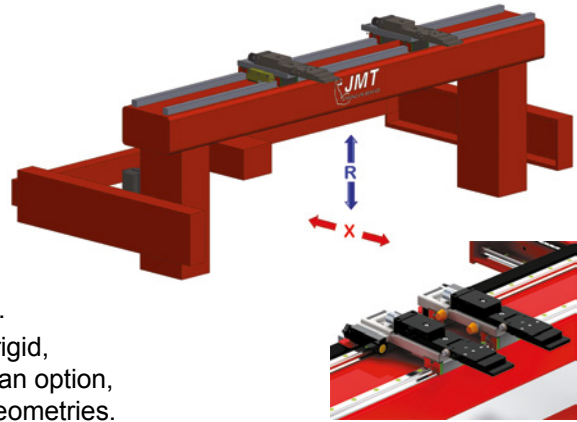


JM-R comes standard with manual or optional CNC crowning  
JM-S comes standard with CNC crowning

## STANDARD JMT X, R BACK GAUGE SYSTEM

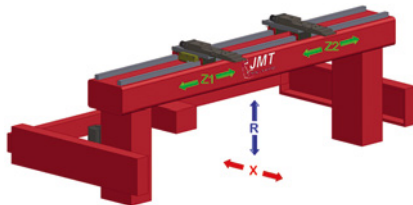
Our standard JM-S series press brake is equipped with 2-axis CNC controlled back gauge that automatically adjusts the X (depth) and R (height) axes to ensure your material is always positioned accurately, resulting in higher quality finished parts. Axes movements are driven by Mitsubishi AC Servo Motors and Mitsubishi drives. Using the best components, such as HIWIN linear guides, ball screws, our back gauge movements are fast and precise with X-axis speeds up to 800 mm/sec and accuracy to 0,01mm.

Finger blocks are mounted on double linear guide to be more rigid, which ensures accurate part positioning over a long period. As an option, we offer back gauges with 4 or 5 axes for more complex part geometries.



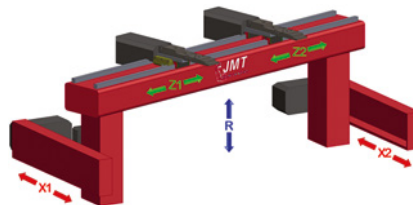
## OPTIONAL JMT BACK GAUGE SYSTEMS

4 Axis CNC



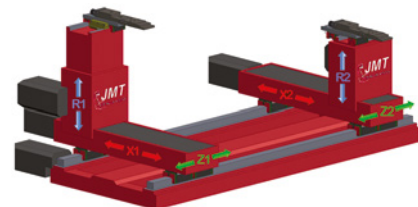
(X,R,Z1-Z2)

5 Axis CNC



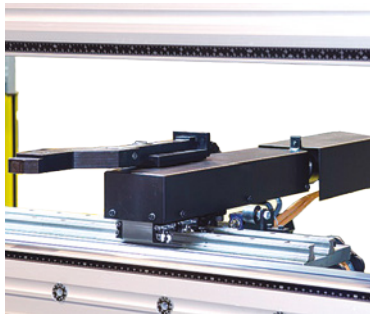
(X1-X2,R,Z1-Z2)

6 Axis CNC



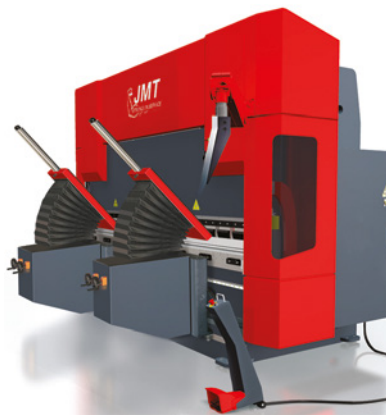
(X1-X2,R1-R2,Z1-Z2)

## DELTA X SYSTEM



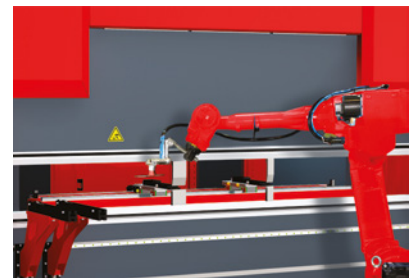
Delta X option mounted to one of finger block. By this solution this finger block, moves to front and back  $\pm 125$  mm. If this option requested it can be mounted on the finger block, for your future projects.

## CNC SHEET FOLLOWING

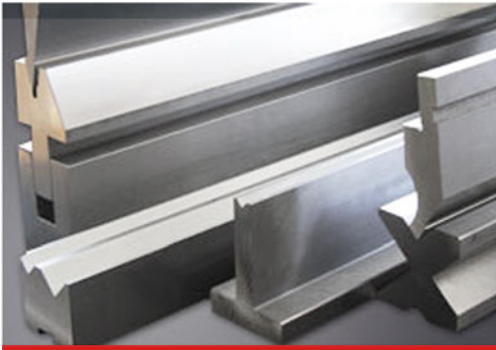


The system was designed for simplifying large part of forming. Reducing a two-man operation to one.

## ROBOT APPLICATION



Offline programming is a method decoupled from the manufacturing process. The robot can continue to work even while the operator programs a new component and the associated sequence. Its benefits are primarily shorter non-productive times when changing articles.



European Style Top and Bottom Tooling



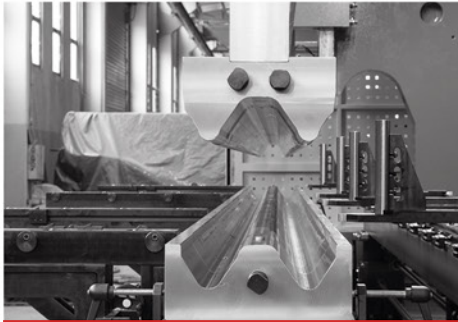
Wila Hydraulic Punch & Die Clamping



American Style Top Tooling



JMT Multi Tool



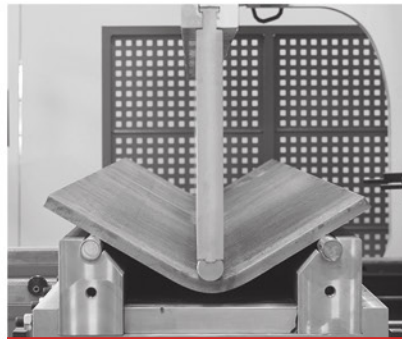
Road Barrier Tooling



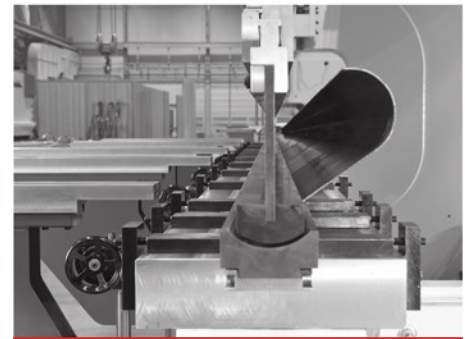
Multi-V Manual Adjustable Die



Multi-V Manual Adjustable Die



Multi-V Manual Adjustable Die



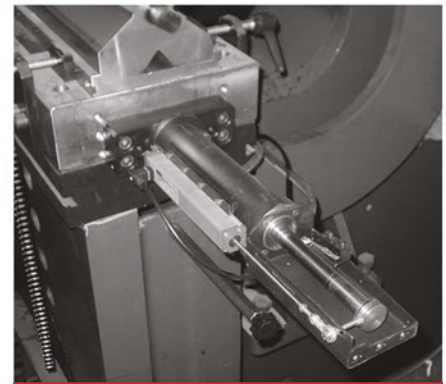
Round Light Pole Tooling



Pneumatic Die Positioning



Motorized Die Positioning



Hydro-mechanical Crowning System



### DELEM DA-66T (Standard)

Designed for ease-of-use, the Delem DA-66T touch screen provides direct navigation between programming and production. Delem's user-interface is optimized for ergonomics with functions located exactly where the operator needs them. The DA-66T provides 2D programming functionality with automatic bend sequences calculations and collision detection built into the program algorithms. The operator gets true feedback on the product feasibility and handling from the 3D machine set-up that includes multiple tool stations, helping to optimize the machine cycle time and the minimize set-up time and errors. The DA-66T makes operating your JMT press brake easy and efficient.



#### Features of the Delem DA-66T Control Unit

- 17 inch high-definition color display
- 3D visualization
- 2D graphical programming
- Windows based
- USB keyboard & mouse interface
- Integrated OEM panel
- Support of user specific applications
- Bending sensor & correction interface
- Multitasking capabilities

### Cybelec ModEva 15T (Standard)

ModEva 15T numerical control is dedicated to press brakes with a 2D or 3D graphic display. It can be therefore adapted to the simple as well as to the sophisticated press-brakes. New parts are programmed on a single page. As a result, the average time required to set-up the bending of a 3D part, ready to be used, is drastically reduced. When producing complex parts, most of today's CAD/CAM can transfer their results directly to the numerical control. ModEva 15T offers multi-simulation capability. It displays several solutions choices of optimal bending sequences, the tools and the position of the sheet between the tools, as well as collision detection according to criteria defined by the operator. Other simulation criteria for better sheet management, such as minimum length against the operator, minimum return, maximum accuracy between defined faces and minimum operator manipulation can also be defined.



#### Features of the Cybelec ModEva 15T Control Unit

- 15 inch high-definition color display
- Complete programming of a part on a single page
- Quick set-up of the machine thanks to direct access to set-up
- The numerical control comes with off-line PC 1200 software
- Very simple and convenient data transfer from most CAD/CAM systems
- Fully featured correction page
- Display of error and warning messages on the console screen
- Multi-simulation capability
- Simulation criteria for better sheet management
- Windows XP® for multitasking and file management
- EC safety-cycle management and Ethernet for Easy communication

### DELEM DA-69T 3D (Optional)

The ergonomically designed user-interface with 3D graphics and touch screen controls makes programming your press brake easy with the Delem DA-69T control unit. The program algorithms include automatic bend sequence calculation and collision detection. The 3D simulation clearly shows the full machine set-up with multiple tool stations providing the operator with true feedback on the product feasibility and handling.



#### Features of the Delem DA-69T Control Unit

- 3D and 2D graphical touch screen for programming
- 3D visualization and simulation
- 3D graphics acceleration
- 17" high-resolution color monitor
- Windows based
- USB peripheral interface

### DELEM VBEND OFFLINE SOFTWARE (Optional)

VBend CAD/CAM software from Delem helps you maximize your machine efficiency by taking the press brake programming offline. Do all the steps – part programming, post processing the programs and running simulations of the actual bending process from the comfort and convenience of your office.

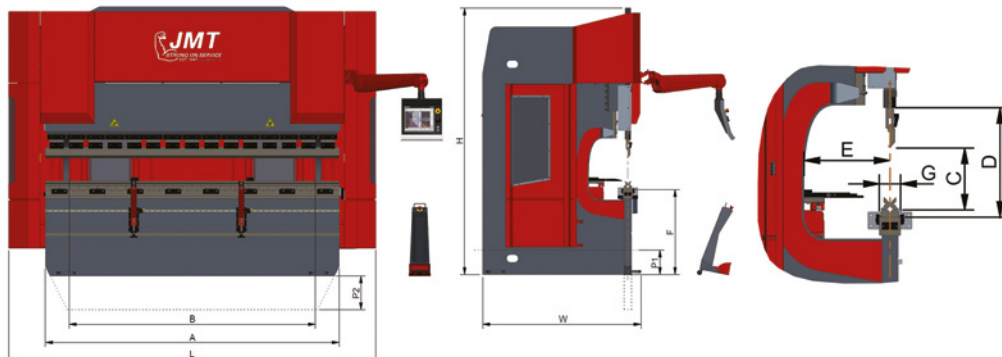
VBend software gives you the option of programming parts using the graphical interface or importing 2D or 3D CAD files from externally developed designs. VBend software makes it easy to calculate bend sequences and identify collision points. With VBend, you can optimize your production process before you send files to your press brake using the Windows networking capabilities.



#### VBendFeatures

- Windows XP|Vista compatible
- Fast graphical interface for programming
- Ability to import 2D or 3D CAD files (DXF|SAT|IGES|STEP)
- 3D automatic bend sequence calculation
- Static and dynamic collision detection
- Tools import and export
- Special tool operations (hemming, radius, etc.)
- Automatic tool set-up (type, heels, position)
- Printout of CNC program and machine set-up

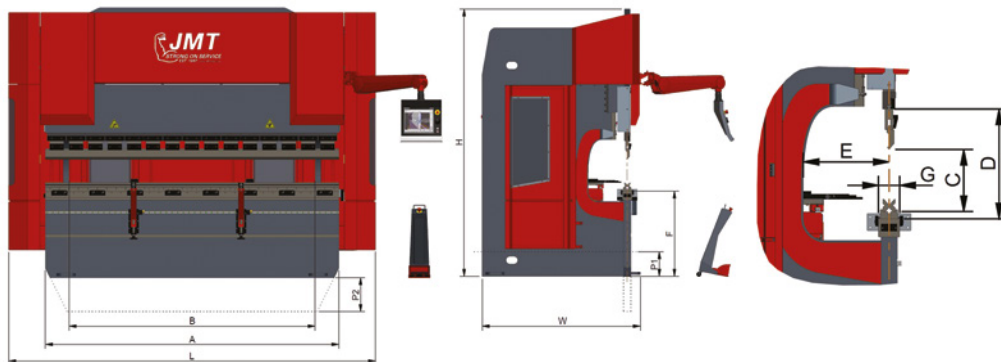
JM-S SERIES Model	Standard Machine Characteristics									Below Grade		Ram Speeds Programmable		
	Bending Force Metric	Bending Length [A]	Distance Between Frames [B]	Length of Ram Stroke [C]	Daylight [D]	Throat Depth [E]	Bed Height [F]	Standard Bed Cap Width [G]	Optional (Common) Bed Cap Width [G+]	Depth of Pit P1	Depth of Pit P2	Y-Axis Approach Speed	Y-Axis Forming Speed (+) Depends on Application	Y-Axis Return Speed
(units)	Tonnes(M)	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm/sec	mm/sec	mm/sec
JM-S 2063	63	2100	1700	280	530	420	905	104	180	-	-	200	10	200
JM-S 25100	100	2600	2200	280	530	420	905	104	180	-	-	200	10	200
JM-S 30100	100	3100	2600	280	530	420	905	104	180	-	-	200	10	200
JM-S 30135	135	3100	2600	280	530	420	905	104	180	-	-	200	10	200
JM-S 30180	180	3100	2600	280	530	420	905	104	255	-	-	160	10	160
JM-S 37180	180	3700	3100	280	530	420	905	104	255	-	-	160	10	160
JM-S 40180	180	4100	3600	280	530	420	905	104	255	-	-	160	10	160
JM-S 43180	180	4300	3800	280	530	420	905	104	255	-	-	160	10	160
JM-S 30225	225	3100	2600	280	530	420	905	104	255	-	-	160	10	160
JM-S 37225	225	3700	3100	280	530	420	905	104	255	-	-	160	10	160
JM-S 40225	225	4100	3600	280	530	420	905	104	255	-	-	160	10	160
JM-S 43225	225	4300	3800	280	530	420	905	104	255	-	-	160	10	160
JM-S 60225	225	6100	5100	280	530	420	1100	154	305	-	-	125	10	125
JM-S 30320	320	3100	2600	385	630	510	905	154	305	-	-	125	10	125
JM-S 37320	320	3700	3100	385	630	510	905	154	305	-	-	125	10	125
JM-S 40320	320	4100	3600	385	630	510	905	154	305	-	-	125	10	125
JM-S 43320	320	4300	3800	385	630	510	905	154	305	-	-	125	10	125
JM-S 60320	320	6100	5100	385	630	510	1100	154	305	-	-	125	10	125
JM-S 37380	380	3700	3100	385	630	510	1050	154	305	-	-	125	8	125
JM-S 43380	380	4300	3800	385	630	510	1050	154	305	-	-	125	8	125
JM-S 40450	450	4100	3600	385	630	510	1050	154	305	-	-	110	8	110
JM-S 43450	450	4300	3800	385	630	510	1050	154	305	-	-	110	8	110
JM-S 60450	450	6100	5100	385	630	510	1200	154	305	-	-	110	8	110
JM-S 43600	600	4300	3760	360	620	510	1200	305	500	-	-	90	8	90
JM-S 60600	600	6100	5100	360	620	510	1050	305	500	370	1150	90	8	90
JM-S 60800	800	6100	5100	500	750	750	1050	305	500	600	1200	70	6	60
JM-S 70800	800	7100	5100	500	750	750	1050	305	500	600	1200	70	6	60
JM-S 80800	800	8100	6050	500	750	750	1050	305	500	700	1700	70	6	60
JM-S 601000	1000	6100	5100	500	750	750	800	500	Request	700	1500	70	6	60
JM-S 701000	1000	7100	5100	500	750	750	800	500	Request	700	1500	70	6	60
JM-S 801000	1000	8100	6050	500	750	750	800	500	Request	700	1900	70	6	60
JM-S 701200	1200	7100	5100	500	750	750	800	500	Request	700	1900	70	5	60
JM-S 801200	1200	8100	6050	500	750	750	800	500	Request	700	2200	70	5	60
JM-S 801600	1600	8100	6100	600	850	750	1000	500	Request	1000	1600	70	5	60
JM-S 802000	2000	8100	6100	600	850	750	1050	500	Request	1000	2000	70	5	60

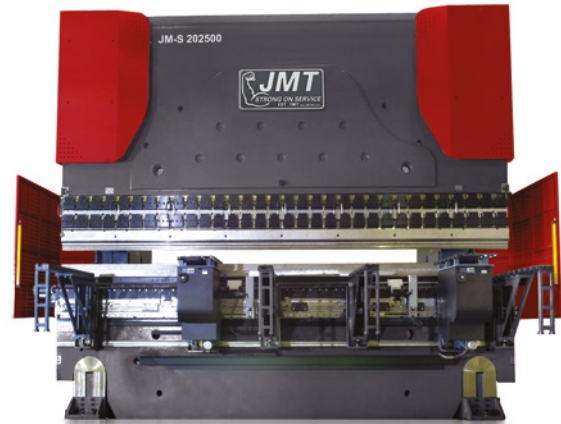
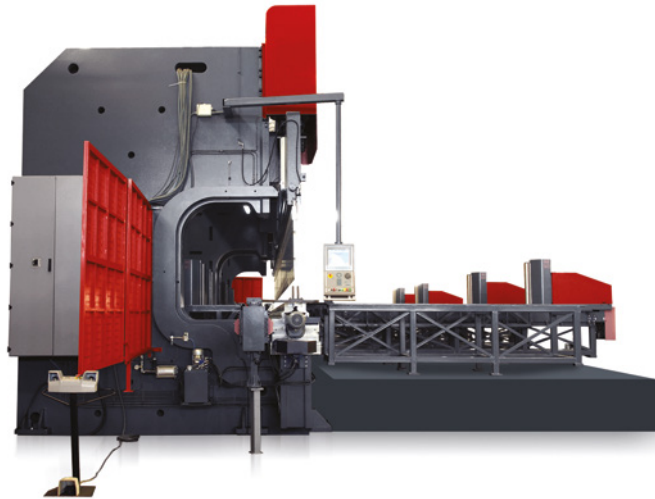


# JM-S SERIES PRESS BRAKE TECHNICAL DIMENSIONS

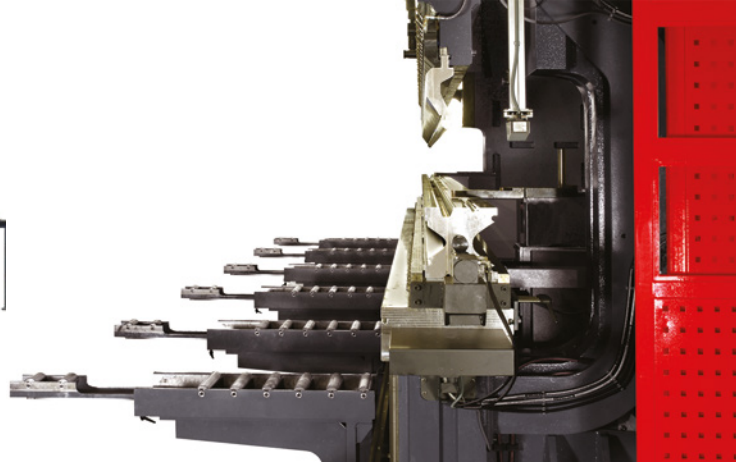
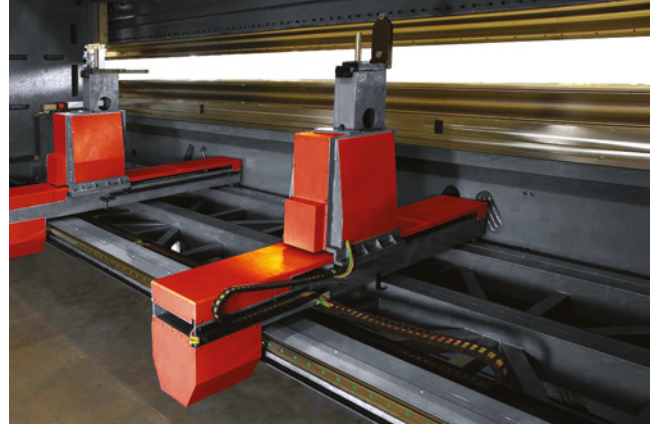


JM-S SERIES Model	Back Gauge System						Machine Dimensions						
	X Axis Speed	X Axis Travel	Gaugeable with 3rd Backgauge Finger Position	Optional CNC R-Axis Max. Speed	Optional CNC R-Axis Travel	Backgauge Finger Block	Length L	Width W	Height H	Sliding Front Support Arms	Motor Power	Oil Tank Capacity	Approx. Weight
(units)	mm/sec	mm	mm	mm/sec	mm		mm	mm	mm		kW	Lt.	kg.
JM-S 2063	800	800	1050	125	250	2	3200	1200	2400	2	7.5	140	3550
JM-S 25100	800	800	1050	125	250	2	3376	1678	2840	2	11	140	8900
JM-S 30100	800	800	1050	125	250	2	3876	1678	2840	2	11	140	9750
JM-S 30135	800	800	1050	125	250	2	3876	1688	2840	2	15	210	11150
JM-S 30180	800	800	1050	125	250	2	3926	1700	2840	2	18.5	210	11900
JM-S 37180	800	800	1050	125	250	2	4526	1700	2920	2	18.5	210	13500
JM-S 40180	800	800	1050	125	250	2	4926	1708	2840	2	18.5	210	13600
JM-S 43180	800	800	1050	125	250	2	5126	1708	2840	2	18.5	210	14200
JM-S 30225	800	800	1050	125	250	2	3926	1780	2920	2	22	280	13000
JM-S 37225	800	800	1050	125	250	2	4526	1780	2920	2	22	280	14900
JM-S 40225	800	800	1050	125	250	2	4926	1780	2920	2	22	280	15600
JM-S 43225	800	800	1050	125	250	2	5126	1780	2920	2	22	280	15800
JM-S 60225	400	800	1050	125	250	4	6926	1780	3250	4	22	300	21650
JM-S 30320	400	800	1050	125	250	2	3950	1830	3250	2	37	300	18300
JM-S 37320	400	800	1050	125	250	2	4550	1830	3250	2	37	300	20600
JM-S 40320	400	800	1050	125	250	2	4950	1920	3250	2	37	300	21950
JM-S 43320	400	800	1050	125	250	2	5150	1920	3250	2	37	300	22720
JM-S 60320	400	800	1050	125	250	4	6950	1920	3450	4	37	300	29850
JM-S 37380	400	800	1050	125	250	2	4750	2120	3580	2	37	450	25350
JM-S 43380	400	800	1050	125	250	2	5350	2120	3580	2	37	450	28150
JM-S 40450	400	1000	1250	125	250	2	5150	2250	3700	2	37	450	28860
JM-S 43450	400	1000	1250	125	250	2	5350	2250	3700	2	37	450	30000
JM-S 60450	400	1000	1250	125	250	4	7200	2250	3850	4	37	500	40800
JM-S 43600	300	1000	1250	80	250	2	5400	2400	4000	2	45	500	42000
JM-S 60600	300	1000	1250	80	250	4	7200	2400	4150	4	45	500	55000
JM-S 60800	300	1000	1250	80	250	4	7200	2800	4750	4	45	700	70000
JM-S 70800	300	1000	1250	80	250	4	8200	2800	4750	4	45	700	73000
JM-S 80800	300	1000	1250	80	250	4	9200	2800	5000	4	45	700	86000
JM-S 601000	300	1250	1500	80	250	4	7200	2900	4900	4	55	900	80000
JM-S 701000	300	1250	1500	80	250	4	8200	2900	4900	4	55	900	84000
JM-S 801000	300	1250	1500	80	250	4	9200	3000	5000	4	55	900	96000
JM-S 701200	300	1250	1500	80	250	4	8200	3200	5000	4	75	1000	95000
JM-S 801200	300	1250	1500	80	250	4	9200	3200	5200	4	75	1000	130000
JM-S 801600	80	1500	2000	25	400	4	9200	3350	5600	4	90	1250	155000
JM-S 802000	80	1500	1750	25	400	4	9200	3700	5800	4	132	1500	179000





# JMT GIANT PRESS BRAKES DETAILS





You may not wish higher specification machine, but no doubt, this doesn't mean, you can't have accuracy and precision. We designed JM-R Series press brake for simple to use, performance and precision. Also for high quality bend accuracy and repeatability at least five-fold higher than conventional press brake. JM-R Series press brake daylight, stroke & throat depth designs are specially for deep bends & long tools.

### JMT JM-R SERIES PRESS BRAKE FEATURES

#### STANDARDS

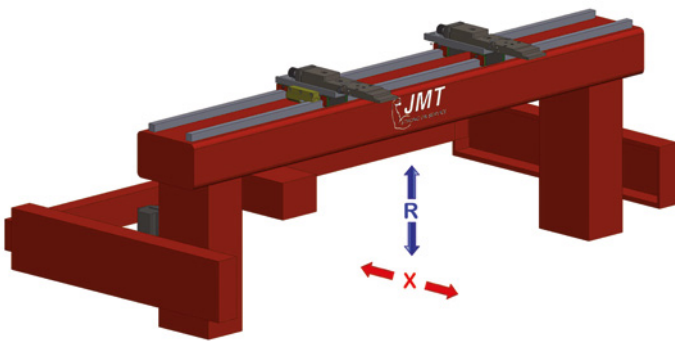
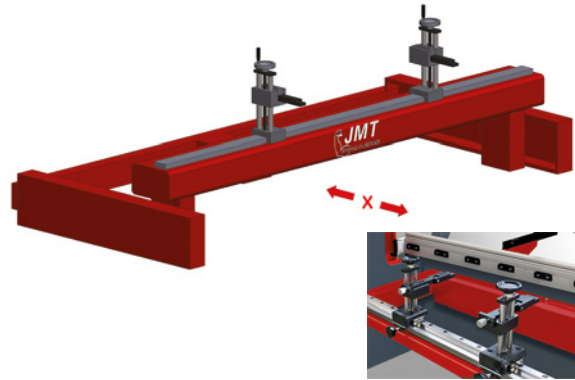
- ST 44 Rigid Mono Block Steel Frame
- Synchronized Dual Cylinders
- Hoerbiger Hydraulic System
- Givi Misure Linear Measurement System
- Up and Down Moveable Control Unit Arm
- Delem DA 52 Control Unit
- X Axis Servo Motorized Back Gauge
- Manual Crowning
- JMT Top & Bottom Tool Clamping System
- Sliding & Height Adjustable Front Arms

#### OPTIONS

- Wila Hydraulic Clamping Systems
- European, American, Wila or Wilson Tools
- Laser Safety Device
- Special Throat Depths
- Tandem Preparation
- Oil Cooling & Heating Systems
- Delem DA 56 or Cybelec DNC 15
- CNC Motorized Crowning System
- X,R (with all control units) or X,R,Z1-Z2 Axes Back Gauge (with Delem DA 56 or Cybelec DNC 15)
- Special Finger Blocks
- Special Stroke & Open Heights

## STANDARD JMT X AXIS BACK GAUGE

Our standard JM-R series press brake is equipped with CNC controlled back gauge that automatically adjusts the X (depth) and R (manual) axes to ensure your material is always positioned accurately, resulting in higher quality finished parts. Axis movements are driven by Mitsubishi AC Servo Motors and Mitsubishi drives. Using the best components, such as HIWIN linear guides, ball screws, our back gauge movements are fast and precise, with X-axis speeds.

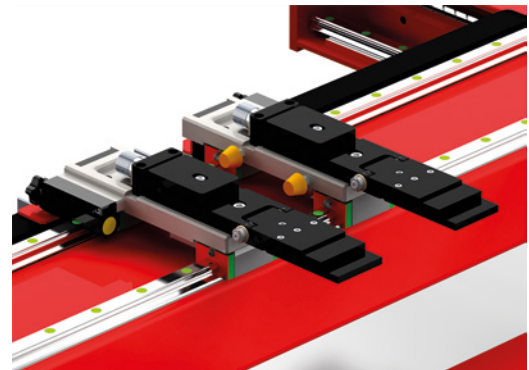


## OPTIONAL X, R AXES BACK GAUGE SYSTEMS

2-axes CNC controlled back gauge that automatically adjusts the X (depth) and R (height) axes to ensure your material is always positioned accurately, resulting in higher quality finished parts. Using the best components, such as HIWIN linear guides, ball screws, our back gauge movements are fast and precise.

## BACK GAUGE FINGER BLOCKS

Finger blocks are mounted on double linear guides to be more rigid, which ensures accurate part positioning over a long period. You can extend X Axis capacity with measurable 3rd position of finger blocks. Finger blocks are able to adjust manually, at the bottom of housing. Optionally you can add finger blocks to your back gauge system.



## TOOLING (OPTIONAL)



European Style Top and Bottom Tooling



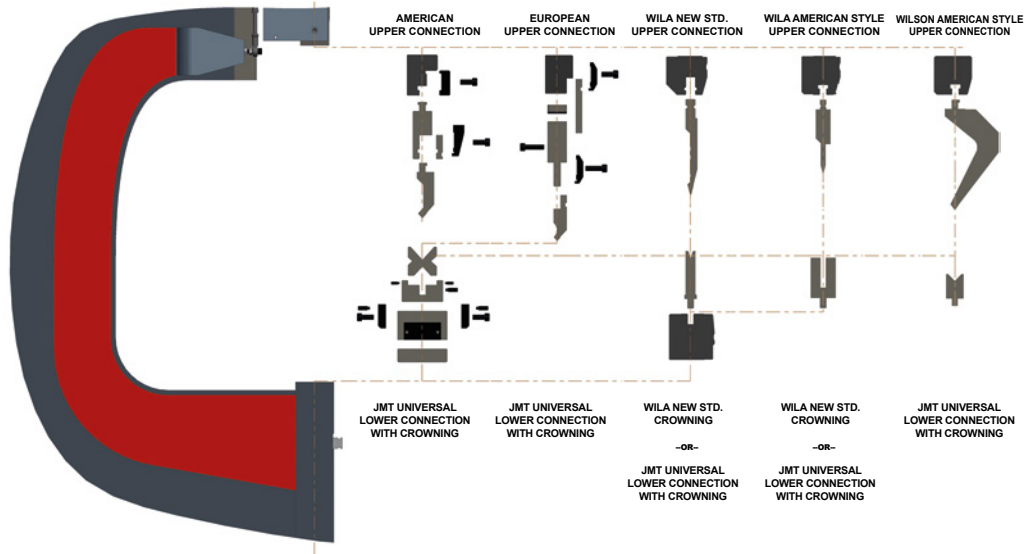
Wila Hydraulic Punch & Die Clamping



American Style Top Tooling

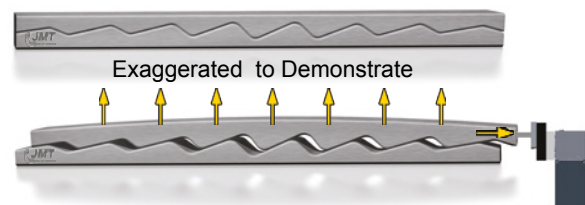
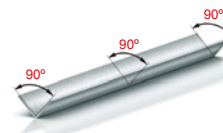
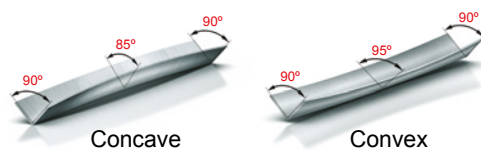
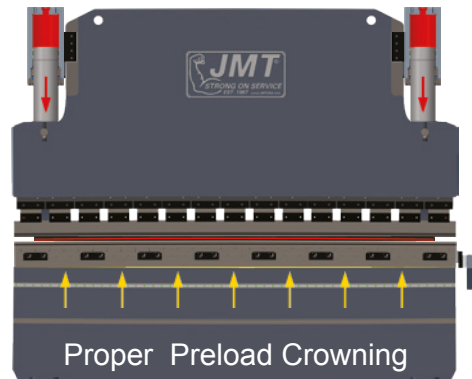
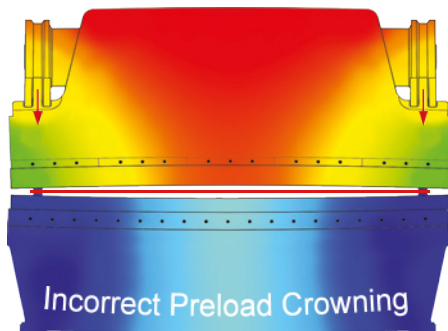


## JMT DIAGRAM CONNECTION TYPES (Tooling is Optional)



## CROWNING SYSTEM

Manual crowning system is standard and cnc motorized crowning system is optional



JM-R comes standard with manual or optional CNC crowning  
JM-S comes standard with CNC crowning

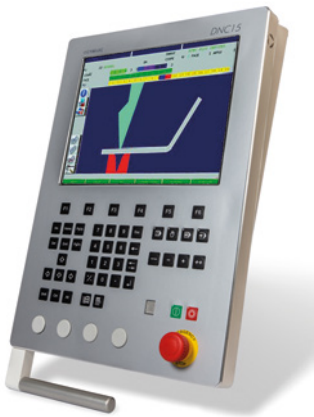
**DELEM DA-52 (Standard)**



**DELEM DA-52 Features**

- Quick, one page programming
- Hotkey navigation
- 6,4" VGA colour TFT
- Up to 4 axes (Y1, Y2, and 2 auxiliary axes)
- Crowning control
- Tool/material/product library
- USB, peripheral interfacing

**CYBELEC DNC 15 (Optional)**



**CYBELEC DNC 15 Features**

- 15" touch screen for intuitive and interactive programming, drastically increasing data input and productivity.
- Complete programming of parts on a single page.
- Quick set-up of the machine thanks to direct access to set-up parameters.
- Main machine commands (push buttons, switches) ideally located at bottom of the housing.
- Numerical control comes with off-line 2D software.
- Higher productivity and rapid modifications of existing products.
- Extensive machine parameters set.
- Error and warning messages shown on the console screen.

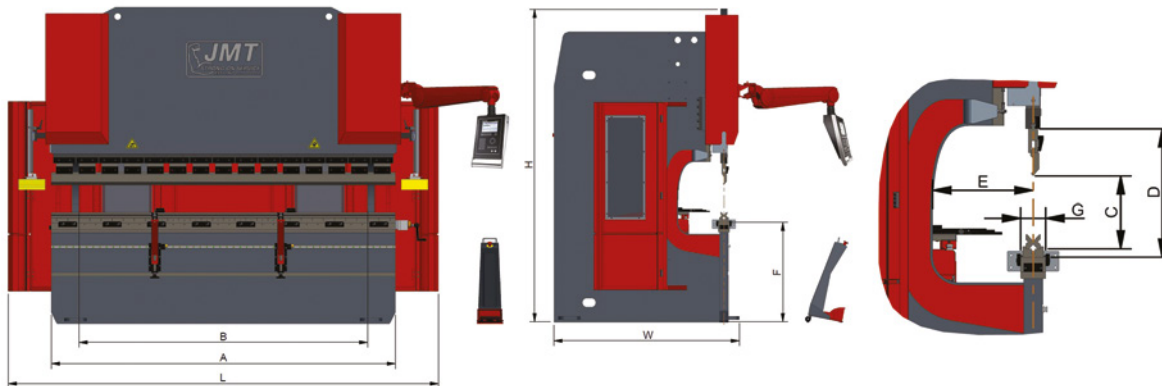
**DELEM DA 56 (Optional)**



**DELEM DA-56 Features**

- Color LCD display
- 10.4" TFT, 800 x 600
- 500 MHz processor
- Memory capacity 128 MB
- Product memory 32 MB
- Tool library:30 punches,60 dies
- Data back-up / restore via USB
- Power-down memorization
- 2D graphical programming
- Bend sequence determination
- USB peripheral interfacing

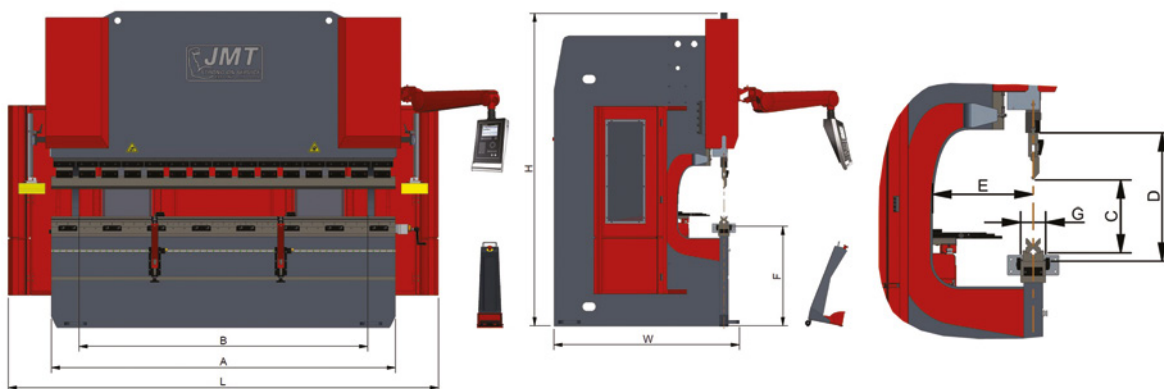
JM-R SERIES Model	Standard Machine Characteristics									Below Grade		Ram Speeds Programmable		
	Bending Force Metric	Bending Length [A]	Distance Between Frames [B]	Length of Ram Stroke [C]	Daylight [D]	Throat Depth [E]	Bed Height [F]	Standard Bed Cap Width [G]	Optional (Common) Bed Cap Width [G+]	Depth of Pit P1	Depth of Pit P2	Y-Axis Approach Speed	Y-Axis Forming Speed (+) Depends on Application	Y-Axis Return Speed
(units)	Tonnes(M)	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm/sec	mm/sec	mm/sec
JM-R 2063	63	2100	1700	280	530	420	905	104	180	-	-	200	10	110
JM-R 25100	100	2600	2200	280	530	420	905	104	180	-	-	180	10	120
JM-R 30100	100	3100	2600	280	530	420	905	104	180	-	-	180	10	120
JM-R 30135	135	3100	2600	280	530	420	905	104	180	-	-	160	10	120
JM-R 30180	180	3100	2600	280	530	420	905	104	255	-	-	120	10	100
JM-R 37180	180	3700	3100	280	530	420	905	104	255	-	-	120	10	100
JM-R 40180	180	4100	3600	280	530	420	905	104	255	-	-	120	10	100
JM-R 43180	180	4300	3800	280	530	420	905	104	255	-	-	120	10	100
JM-R 30225	225	3100	2600	280	530	420	905	104	255	-	-	120	10	100
JM-R 37225	225	3700	3100	280	530	420	905	104	255	-	-	120	10	100
JM-R 40225	225	4100	3600	280	530	420	905	104	255	-	-	120	10	100
JM-R 43225	225	4300	3800	280	530	420	905	104	255	-	-	120	10	100
JM-R 60225	225	6100	5100	280	530	420	1100	154	305	-	-	100	10	100
JM-R 30320	320	3100	2600	385	630	510	905	154	305	-	-	100	9	100
JM-R 37320	320	3700	3100	385	630	510	905	154	305	-	-	100	9	100
JM-R 40320	320	4100	3600	385	630	510	905	154	305	-	-	100	9	100
JM-R 43320	320	4300	3800	385	630	510	905	154	305	-	-	100	9	100
JM-R 60320	320	6100	5100	385	630	510	1100	154	305	-	-	100	9	100
JM-R 37380	380	3700	3100	385	630	510	1050	154	305	-	-	100	8	80
JM-R 43380	380	4300	3800	385	630	510	1050	154	305	-	-	100	8	80
JM-R 40450	450	4100	3600	385	630	510	1050	154	305	-	-	90	8	70
JM-R 43450	450	4300	3800	385	630	510	1050	154	305	-	-	90	8	70
JM-R 60450	450	6100	5100	385	630	510	1220	154	305	-	-	90	8	70



# JM-R SERIES PRESS BRAKE TECHNICAL DIMENSIONS



JM-R SERIES Model	Back Gauge System						Machine Dimensions						
	X Axis Speed	X Axis Travel	Gaugeable with 3rd Backgauge Finger Position	Optional CNC R-Axis Max. Speed	Optional CNC R-Axis Travel	Backgauge Finger Block	Length L	Width W	Height H	Sliding Front Support Arms	Motor Power	Oil Tank Capacity	Approx. Weight
(units)	mm/sec	mm	mm	mm/sec	mm		mm	mm	mm		kW	Lt.	kg.
JM-R 2063	800	800	1050	125	250	2	3200	1200	2400	2	7.5	140	3300
JM-R 25100	800	800	1050	125	250	2	3376	1678	2840	2	11	140	8650
JM-R 30100	800	800	1050	125	250	2	3876	1678	2840	2	11	140	9500
JM-R 30135	800	800	1050	125	250	2	3876	1688	2840	2	15	210	10900
JM-R 30180	800	800	1050	125	250	2	3926	1700	2840	2	18.5	210	11650
JM-R 37180	800	800	1050	125	250	2	4526	1700	2920	2	18.5	210	13250
JM-R 40180	800	800	1050	125	250	2	4926	1708	2840	2	18.5	210	13350
JM-R 43180	800	800	1050	125	250	2	5126	1708	2840	2	18.5	210	13950
JM-R 30225	800	800	1050	125	250	2	3926	1780	2920	2	22	280	12750
JM-R 37225	800	800	1050	125	250	2	4526	1780	2920	2	22	280	14650
JM-R 40225	800	800	1050	125	250	2	4926	1780	2920	2	22	280	15350
JM-R 43225	800	800	1050	125	250	2	5126	1780	2920	2	22	280	15550
JM-R 60225	400	800	1050	125	250	4	6926	1780	3250	4	22	300	21400
JM-R 30320	800	800	1050	125	250	2	3976	1830	3250	2	30	300	18000
JM-R 37320	400	800	1050	125	250	2	4576	1830	3250	2	30	300	20300
JM-R 40320	400	800	1050	125	250	2	4976	1920	3250	2	30	300	21650
JM-R 43320	400	800	1050	125	250	2	5176	1920	3250	2	30	300	22420
JM-R 60320	400	800	1050	125	250	4	6976	1920	3450	4	30	300	29550
JM-R 37380	400	800	1050	125	250	2	4776	2120	3580	2	37	450	25000
JM-R 43380	400	800	1050	125	250	2	5376	2120	3580	2	37	450	27800
JM-R 40450	300	1000	1250	80	250	2	5150	2250	3700	2	37	450	28460
JM-R 43450	300	1000	1250	80	250	2	5350	2250	3700	2	37	450	29600
JM-R 60450	300	1000	1250	80	250	4	7200	2250	3850	4	37	500	40400



## JM-V CNC SERIES PRESS BRAKE

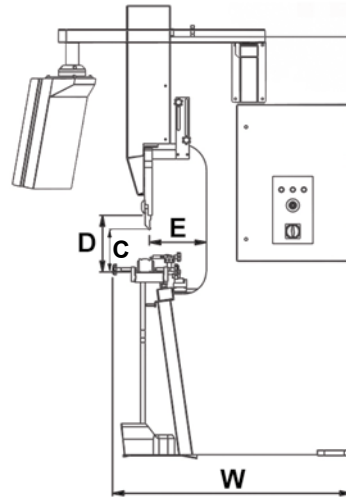


### STANDARDS

- Steel welded frame
- Synchronized Dual Cylinder
- Hoerbiger Hydraulic System
- CYBELEC DNC 600S 2D Control Unit
- X Axis Servo Motorized Back Gauge
- JMT Top & Bottom Tool Clamping System

### OPTIONS

- 300 mm Stroke
- X,R Axes Back Gauge
- CE Norms & Front Safety Barrier
- Height Adjustable Front Arms



## JM-V NC SERIES PRESS BRAKE

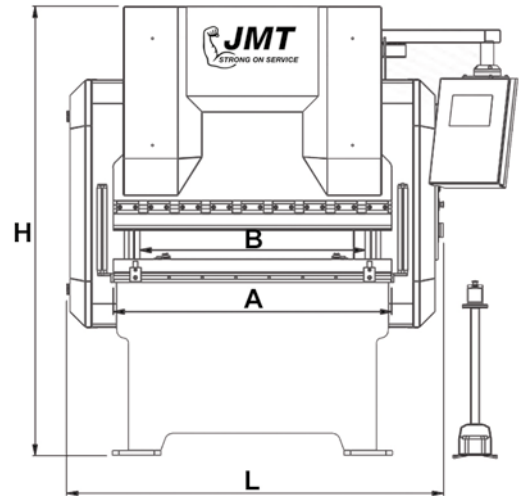


### STANDARDS

- Ram Depth Adjustment
- Double hydraulic cylinder
- Right, left angle reset system
- Steel welded frame
- NC Control Unit
- Linear sideway X Axis back gauge
- JMT Top & Bottom Tool Clamping System
- Foot Pedal

### OPTIONS

- 300 mm Stroke
- CE Norms & Front Safety Barrier
- Height Adjustable Front Arms

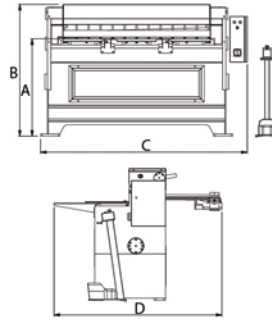


MODELS	Bending Force	Bending Length [A]	Between Frames [B]	Stroke [C]	Daylight [D]	Throat Depth [E]	Bed Height [F]	Bed Cap Width [G]	Y Axis Rapid Speed	Y Axis Working Speed	Y Axis Return Speed	X Axis Speed	X Axis Travel	R-Axis Max. Speed	R-Axis Travel	Sliding Support Arms	Backgauge Finger Block	Motor Power	Oil Tank Capacity	Length [L]	Width [W]	Height [H]	Approx. Weight
	Tonnes(M)	mm	mm																				
JM-V 1230 CNC	30	1250	1010	150	255	255	820	130	100	8,5	100	120	500	80	100	2	2	3	48	1690	1070	2020	1850
JM-V 1260 CNC	60	1250	1010	150	255	255	820	150	100	8,5	100	120	600	80	100	2	2	5,5	64	1690	1200	2020	2500
JM-V 1540 CNC	40	1550	1260	150	255	255	820	130	100	7,5	100	120	500	80	100	2	2	4	64	1940	1070	2020	2000
JM-V 1580 CNC	80	1550	1260	150	255	255	820	150	100	7,5	100	120	600	80	100	2	2	5,5	80	1940	1200	2020	3000
JM-V 1230 NC	30	1250	1010	150	255	255	820	130	44	8,5	33	85	500	-	-	2	2	3	48	1690	1070	2020	1850
JM-V 1260 NC	60	1250	1010	150	255	255	820	150	44	8,5	33	85	600	-	-	2	2	5,5	64	1690	1200	2020	2500
JM-V 1540 NC	40	1550	1260	150	255	255	820	130	40	7,5	33	85	500	-	-	2	2	4	64	1940	1070	2020	2000
JM-V 1580 NC	80	1550	1260	150	255	255	820	150	40	7,5	33	85	600	-	-	2	2	5,5	80	1940	1200	2020	3000

## RMS SERIES MOTORIZED SHEAR MACHINES



### RMS 1203 & RMS 1504



#### STANDARDS

- Movement mechanism with reductor
- Easy adjustable blade gap adjustment
- Programmable Digital Readout
- Manual back gauge adjustment
- Foot pedal

#### OPTION

- Pneumatic Thin Sheet Support System
- Automatic back gauge with NC Control Unit
- CE certificated barriers for safety
- Squaring arm and front support arms other than standard length
- Angle gauge
- Work table with filler plates and ball transfer

### RMS 2004 & RMS 2504



MODEL	Capacity	Cutting Length	Cutting Angle	Motor Output	Number of Strokes per min.	Back Gauge Distance	A	B	C	D	Weight
	mm	mm		kW		mm	mm	mm	mm	mm	kg
RMS 1303	3	1350	1.5°	3	34	750	850	1150	1910	1670	1000
RMS 1504	4	1570	1.5°	5,5	42	750	850	1150	2130	1670	1230
RMS 2004	4	2040	1.8°	7.5	38	600	860	1250	2610	1900	2320
RMS 2504	4	2540	1.8°	7.5	38	600	860	1250	3110	1900	2820



#### **STANDARDS**

- Variable rake design
- Cybelec DNC60 CNC Controller
- Motorized blade gap adjustment
- 1000mm powered ball screw back gauge
- 350mm throat depth with side guards
- Adjustable stroke length & digital counter
- Powerful material holddowns to prevent sheets sliding during cutting action
- Front squaring arm with scale & support arms
- Front finger guards
- Cutting line illumination
- Ball transfer table and T-slots

#### **OPTIONS**

- Siemens OP7 S7-200 CNC Controller
- Hydraulic swing up back gauge
- Pneumatic rear support systems
- CNC Front Feeding System
- Anti twist system
- Front and rear sheet conveyor and stacking system
- Oil cooling or heating system
- Bigger throat gaps
- Angle gauge (X1-X2)

## HIGH PRODUCTIVITY and EFFICIENCY

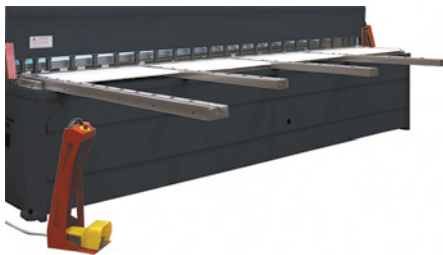
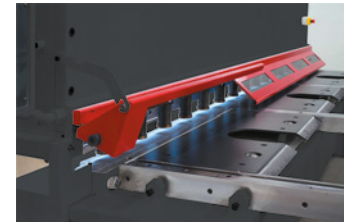
Production time and after cutting the edge's surface precision are mostly important points for shear machine users. Therefore JMT VRS Series CNC Shear Machines are heavy duty strong machine designs for a long working life. The machine is easily programable CNC controller automatically calculates and adjust the blade gap, backgauge position, cutting angle and stroke length simultaneously once data entered, by this solution stroke/per min. is significantly increased.

The cutting angle automatically adjusts according to material & thickness up to 2,3 degrees to minimize twisting and after cutting the edge's surface precision.



High quality stainless grade top and bottom blades. Top blade with two cutting edges and bottom blade with four cutting edges.

1 Meter flip up finger guards are combined with glass windows to adjust the plate before cutting.



Extention squaring arm & support  
Arms with ball transfer (Optional)



T-slotted front support arms  
with scale and flip-stop



Angle Gauge  
(Optional)



- CYBELEC DNC 60  
CONTROL UNIT (Standard)
- Rapid data input through an ergonomic keyboard
  - Complete programming of a part from a single page
  - Automatic calculations of the shear functions
  - Complicated cutting sequences (programs) can be memorized
  - Connection to your PC / notebook via RS 232

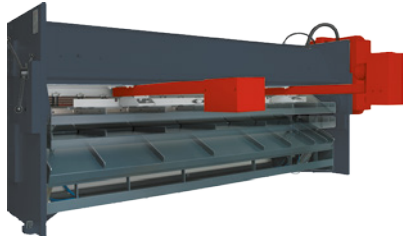


- SIEMENS OP7 S7-200  
CONTROL UNIT (Optional)
- Numerical keyboard
  - High contrast screen
  - Ready to use programmed material types
  - Over 10 languages available
  - Automatic calculation of blade gap, blade angle for your program
  - Flying cut
  - Flash memory



### Pneumatic Sheet Support Systems

Pneumatic sheet support system function is to prevent curving of the plate at the rear and holding the plate before cutting. When you complete the cutting pneumatic sheet support arms go down to discharge the cut segment by this solution we get exact backgauging dimensions precisely.



**UNIVERSAL TYPE**  
from 3mx6mm to 13mm  
from 4mx6mm to 13mm

**TYPE A**  
from 6mm to 13mm &  
Anti Twist Option Possible

**TYPE D**  
from 6mm to 20mm &  
Anti Twist Option Possible

### Anti Twist Device

Anti twist system is designed for narrow cutting, without deformations. Hold down cylinders, fix the plate from top and anti twist system fix the plate from down for cutting. After the cutting, the result is perfect as expected. The right photo shows advantage of anti twist device, against without anti twist.



### Front Feeding System

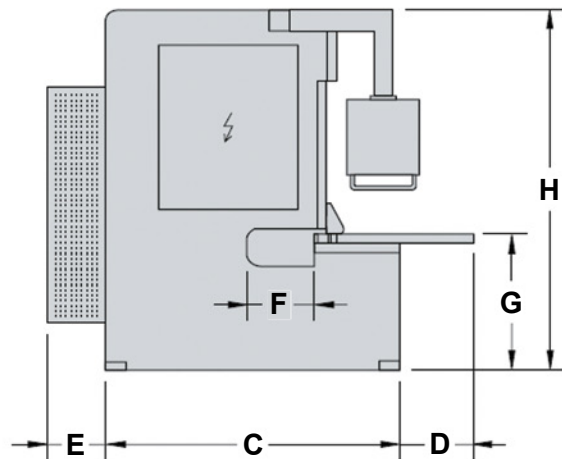
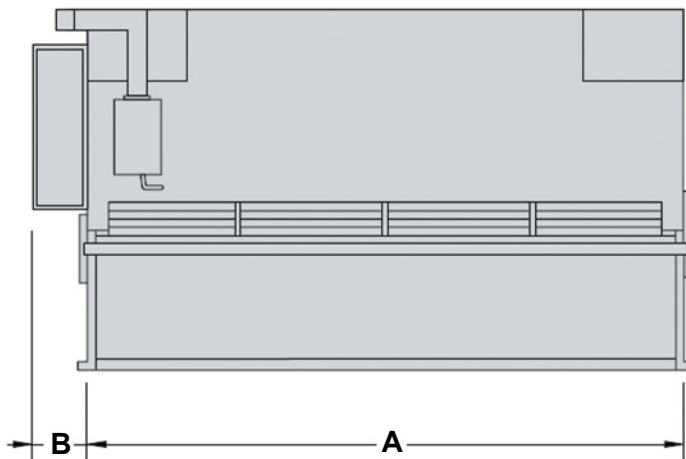
Front feeding system's length capacity is from 3 meters up to 6 meters length. This system is the CNC programmable for your requested cutting results. You can add different steps for your programs and save into your control unit.

# JMT VRS SERIES CNC SHEAR MACHINES OPTIONS



TYPES	CAPACITY		Cutting Length	Rake Angle	Main Motor	Working Pressure	Number of Holddowns	Strokes per Minute	Capacity of Oil Tank	Back Gauge Range	Back Gauge Motor	Approx. Weight	A	B	C	D	E	F	G	H
	≤450 N/mm <sup>2</sup>	≤700 N/mm <sup>2</sup>																		
	mm	mm																		
VRS 3006	6	4	3070	0.5° - 1.5°	11	260	16	20-32	240	1000	0.37	7.8	3450	430	1650	490	1050	350	800	2100
VRS 3010	10	6	3070	0.5° - 2.0°	22	260	15	12-18	360	1000	0.37	11	3480	430	1800	450	1050	350	800	2200
VRS 3013	13	8	3070	0.5° - 2.5°	30	260	15	9-14	360	1000	0.37	13	3520	430	1920	415	1050	350	800	2300
VRS 3016	16	10	3070	0.5° - 3.0°	30	260	15	8-14	400	1000	0.55	16.5	3540	430	1965	365	1050	350	900	2480
VRS 3020	20	13	3070	0.5° - 3.0°	37	260	16	6-10	400	1000	0.55	21	3580	430	2350	220	1050	350	1000	2700
VRS 3025	25	16	3070	0.5° - 3.5°	45	260	15	4-6	600	1000	0.55	24	3560	430	2280	275	1050	350	1100	3220
VRS 4006	6	4	4070	0.5° - 1.5°	11	260	21	16-25	360	1000	0.55	12	4460	430	2000	400	1050	350	900	2250
VRS 4010	10	6	4070	0.5° - 2.0°	22	260	21	9-14	360	1000	0.55	15	4500	430	1920	410	1050	350	900	2360
VRS 4013	13	8	4070	0.5° - 2.5°	30	260	21	7-14	400	1000	0.55	18	4520	430	2280	315	1050	350	1000	2630
VRS 4016	16	10	4070	0.5° - 3.0°	30	260	21	7-12	400	1000	0.55	23.5	4540	430	2300	280	1050	350	1000	2800
VRS 4020	20	13	4070	0.5° - 3.0°	37	260	21	6-9	400	1000	0.55	26	4570	430	2350	230	1050	350	1100	2900
VRS 6006	6	4	6070	0.5° - 2.0°	18.5	260	30	12-18	360	1000	0.55	22	6460	430	2200	880	1050	350	1000	2690
VRS 6010	10	6	6070	0.5° - 2.0°	22	260	30	6-10	400	1000	0.55	30	6480	430	2200	795	1050	350	1000	2750
VRS 6013	13	8	6070	0.5° - 2.5°	30	260	30	6-10	400	1000	0.75	38	6520	430	2350	800	1050	350	1200	3090
VRS 6016	16	10	6070	0.5° - 3.0°	37	260	30	5-9	400	1000	0.75	42	6540	430	2500	870	1050	350	1200	3250
VRS 6020	20	13	6070	1° - 3.0°	37	260	30	5-9	600	1000	0.75	46	6560	430	2500	730	1050	350	1200	3330

Design and specifications are subject to change without notice.





With CE Norm

### STANDARDS

- Swing beam design
- Digital readout controller
- Manual blade gap adjustment
- 1000 mm powered ball screw back gauge
- Adjustable stroke length & digital counter
- Powerful material holddowns to prevent sheets sliding during cutting action
- Front squaring arm with scale & support arms
- Front finger guards
- Cutting line illumination

### OPTIONS

- Delem DAC310 or Cybelelec CYBTOUCH
- Power blade gap adjustment
- Pneumatic rear support system
- Motorized blade gap adjustment
- Angle gauge
- Extended squaring arm & support arms with ball transfer
- Digital counter
- CE norm

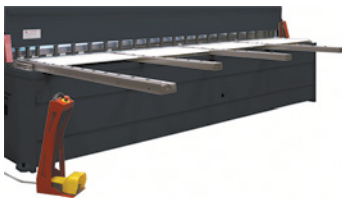


High quality stainless grade top and bottom blades. Top blade with two cutting edges and bottom blade with four cutting edges.

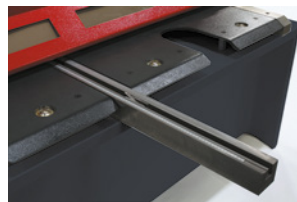
1 Meter flip up finger guards are combined with glass windows to adjust the plate before cutting.



Optional



Extended squaring arm & support arms with ball transfer (Optional)



T-slotted front support arms with scale and flip-stop



Angle Gauge (Optional)

## ECONOMIC and RELIABLE

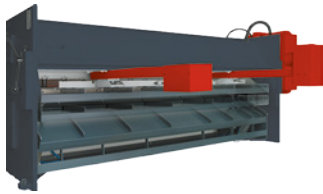
SBS Shear Machines upper beam movements are wheeling in the middle of bedding. For this reason these machines are called swing beam shear machines. SBS Shear machines are very simple to use and can work in severe conditions and its chosen by semi-finished plates traders, steel construction productions and inelastic mass manufacturing companies. SBS Shear machines constitution allows you to use at dusty place or rigors of the weather. SBS Shear machines blade gap adjustment is manual depends on your plate thickness and blade angle is fixed for each model of SBS series shear machines top reach precision cutting results.



Without CE Norm

## Pneumatic Sheet Support Systems (Optional)

Pneumatic sheet support system function is to prevent curving of the plate at the rear and holding the plate before cutting. When you complete the cutting pneumatic sheet support arms goes down to discharge the cut segment. by this solution we get exact backgauging dimensions precisely.



**TYPE A**  
from 6mm to 13mm

**TYPE D**  
from 6mm to 20mm



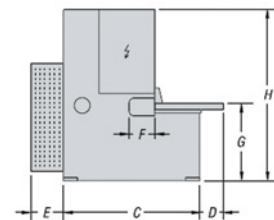
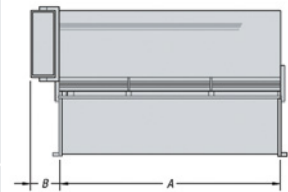
- CYBELEC CYBTOUCH 6 (Optional)**
- High-contrast fully touch screen.
  - Very simple single cuts with EasyCut page.
  - Comfortable wireless software updating and data backup using PC
  - Various automatic calculations of shear functions for materials.



- DELEM DAC 310 (Optional)**
- Absolute/incremental measures
  - Power down position memorization
  - Retract function
  - Stroke length limitation
  - Force control
  - Various automatic calculations of shear functions for materials

## Technical Characteristic

TYPES	CAPACITY		Cutting Length	Rake Angle	Motor Power	Number of Holddowns	Strokes per min.	Capacity of Oil Tank	Back Gauge Range	Back Gauge Motor	Approx.Weight	A	B	C	D	E	F	G	H
	≤450	≤700																	
	N/mm <sup>2</sup>	N/mm <sup>2</sup>																	
SBS 3006	6	4	3060	1.5°	11	17	18	170	1000	0.37	7000	3340	430	1600	500	1000	250	800	1825
SBS 3010	10	6	3060	2.0°	22	17	12	170	1000	0.37	8900	3420	430	1775	500	1000	250	800	1850
SBS 3013	13	8	3060	2.4°	30	17	12	220	1000	0.37	11500	3450	430	1985	500	1000	250	900	2060
SBS 3016	16	10	3060	2.7°	30	17	8	220	1000	0.55	15500	3410	430	2150	400	1000	250	900	2230
SBS 3020	20	13	3060	3.0°	37	18	7	280	1000	0.55	19600	3470	430	2140	400	1000	250	900	2440
SBS 4010	10	6	4060	2.0°	22	23	10	170	1000	0.37	13000	4370	430	1975	400	1000	250	800	1910
SBS 4013	13	8	4060	2.2°	30	23	8	220	1000	0.37	16100	4400	430	1975	400	1000	250	900	2160





With CE Norm

### STANDARDS

- Swing beam design
- Digital readout controller
- Manual blade gap adjustment
- 750 mm powered ball screw back gauge
- Adjustable stroke length & digital counter
- Powerful material holddowns to prevent sheets sliding during cutting action
- Front squaring arm with scale & support arms
- Front finger guards
- Cutting line illumination

### OPTIONS

- Delem DAC310 or Cybelelec CYBTOUCH
- Power blade gap adjustment
- Pneumatic rear support system
- Motorized blade gap adjustment
- Angle gauge
- Extended squaring arm & support arms with ball transfer
- Digital counter
- CE norm



High quality stainless grade top and bottom blades. Top blade with two cutting edges and bottom blade with four cutting edges.

1 Meter flip up finger guards are combined with glass windows to adjust the plate before cutting.



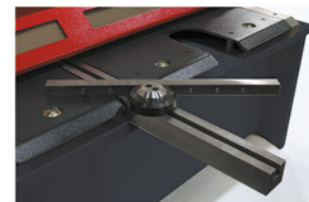
Optional



Extended squaring arm & support arms with ball transfer (Optional)



T-slotted front support arms with scale and flip-stop



Angle Gauge (Optional)

## COMPETITIVE and EFFECTIVE

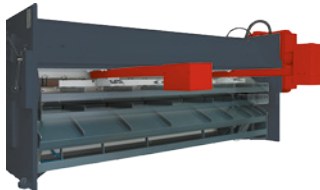
SBV Series Shear machines are designed for high performance and best price ratio. SBV Shear machine working principle is same like SBS series shear machine. The SBV machine's difference is limited cutting thickness capacity & cutting length that mentioned on below.



Without CE Norm

## Pneumatic Sheet Support Systems (Optional)

Pneumatic sheet support system function is to prevent curving of the plate at the rear and holding the plate before cutting. When you complete the cutting pneumatic sheet support arms goes down to discharge the cut segment. by this solution we get exact backgauging dimensions precisely.



**TYPE A**  
from 2,5m to 4m  
from 6mm to 8mm



**CYBELEC CYBTOUCH 6 (Optional)**

- High-contrast fully touch screen.
- Very simple single cuts with EasyCut page.
- Comfortable wireless software updating and data backup using PC
- Various automatic calculations of shear functions for materials.

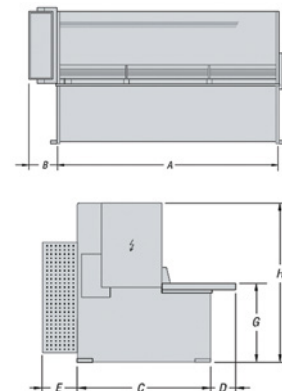


**DELEM DAC 310 (Optional)**

- Absolute/incremental measures
- Power down position memorization
- Retract function
- Stroke length limitation
- Force control
- Various automatic calculations of shear functions for materials

## Technical Characteristic

TYPES	CAPACITY		Cutting Length	Rake Angle	Motor Power	Number of Holddowns	Strokes per min.	Capacity of Oil Tank	Back Gauge Range	Back Gauge Motor	Approx.Weight	A	B	C	D	E	G	H
	≤450 N/mm <sup>2</sup>	≤700 N/mm <sup>2</sup>																
	mm	mm	mm	degree	kW	pcs.	cuts/min.	Lt	mm	kW	kg	mm	mm	mm	mm	mm	mm	mm
SBV 2506	6	4	2560	1.6°	11	15	24	160	750	0.37	4700	2760	430	1260	480	1200	800	1570
SBV 3006	6	4	3060	1.6°	11	17	20	160	750	0.37	5500	3260	430	1320	480	1200	800	1570
SBV 3008	8	5	3060	1.8°	15	17	13	160	750	0.37	6450	3305	430	1450	480	1200	800	1650
SBV 3706	6	4	3660	1.2°	11	20	18	160	750	0.37	7300	3965	430	1450	480	1200	800	1650
SBV 4006	6	4	4060	1.2°	11	23	12	160	750	0.37	9400	4305	430	1560	430	1200	900	1750





## STANDARDS

- Welded Steel Construction
- X,Y axis travel on precision linear rail guides
- Axis speed 30m/min with AC Servo motors
- High accuracy 0,01mm
- High precision plasma cutting technology
- Cutting plate Alignment by laser
- Tecnos PC12 Control Unit
- Lantek Expert Cut II Software
- Plasma Torch
- Ignition Console
- Torch Height with ball screws on linear guides
- Torch Breakaway System

## OPTIONS

- Hyperterm XD Plasma Models (from 130amp to 800amp)
- Ce Norm
- Automatic Gas Console
- Manual Gas Console
- Oxy Torch
- Filter Systems
- True Hole Technology
- CNC Beveling
- Manual Beveling
- Drilling Head(Single or Multi)
- Tube Cutting
- Sectional Cutting Table with fume extraction system
- Water table
- Remote Control on large tables
- MICRO EDGE Pro Control Unit  
(When true hole chosen with drilling, bevel head, tube cutting)



CNC Beveling



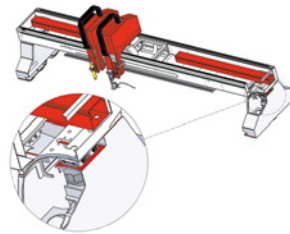
Drilling Head



Tube Cutting

## MASSIVE & MOST PRECISE CUTS

PS Series Plasma Machines are designed with fast and accurate positioning, with AC Brushless servo motors, to reach 30m/min axis positioning speeds, which is combined with hyperterm high definition plasma sources, to get high cut quality, excellent cutting speed, perfect surfaces for welding, medium heat input and low hardening on cutting surface. PS Series Plasma Machines are designed for most medium fabrication shops and small service centres to large production plants. PS Series capabilities are availability of multi torch applications which are up to 4 pieces x plasma cutting heads.up to 8 pieces x oxy cutting heads. PS Series Plasmas are also able for specific optional equipments.



## HIGH PRECISION DRIVE SYSTEM

The double sided drives are fitted with AC servos and very high precision (3 arc minute) planetary gearboxes. This ensures that the drive system is equal to or better than the highest precision systems available in the market. The unique floating drive arrangement allows constant pinion/rack mesh without the excessive wear or compliance associated with spring or pneumatically loaded backlash compensation systems. Particular attention has been given to minimizing runout, backlash and compliance in the drive train which means that we can run with higher gains and higher acceleration without overshoot or vibration. While many drive systems are selected for torque capacity, the JMT system is designed to minimize total lost motion by having high precision components, very high resolution (better than 1 micron) and stiff mechanical components.



PS series plasma machine with its special designed bridge construction have unlimited feature as multitorch and multi process application.



## HyPerformance Hyperterm Plasma Systems

HyPerformance plasma systems deliver HyDefinition cut quality at half the operating costs. By incorporating Hypertherm's proven HyDefinition, LongLife and patented PowerPierce and True Hole technologies, HyPerformance Plasma boosts overall performance, productivity and profitability. The systems offer unmatched process flexibility to cut, bevel and mark metals up to 160 mm (6-1/4") thick.



### Hyperterm Manual Gas Consoles



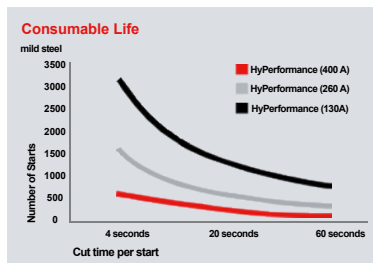
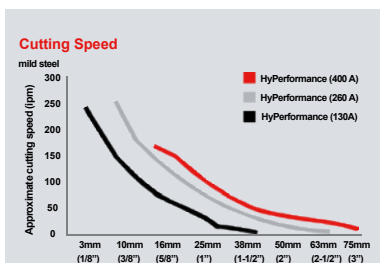
- Provides an intuitive and easy to use operator interface for the system
- Operators manually select gas types and set gas flows.
- Automatically adjusts for variations in incoming gas pressure to produce consistent cutting performance.

### Hyperterm Automatic Gas Consoles



- Controls all of the plasma system settings from the CNC.
- Automatically changes processes on the fly to enable rapid switching.
- Automatically adjusts for variations in incoming gas pressure to produce the most consistent cutting performance.

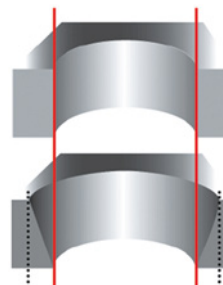
HPR Specifications	Unit	HPR130XD	HPR260XD	HPR400XD
Plasma power source		Hyperterm	Hyperterm	Hyperterm
Max High Quality Cutting capacity (MS) (edge start)	mm	38	64	80
Max High Quality Cutting capacity (MS) (pierce capacity)	mm	16	38	50
Maximum Positioning Speed X/ Y	m/min	35	35	35
Maximum Cutting Speed	m/min	12	12	12
Positioning Accuracy	mm	+/- 0,1	+/- 0,1	+/- 0,1
Repeatability	mm	0,1	0,1	0,1
Output Current	A	130	260	400
Current Regulation Range	A	30-130	30-260	30-400
Gas Console - Automatic	-	O <sub>2</sub> ,N <sub>2</sub> ,H <sub>35</sub> ,F <sub>5</sub> ,Air	O <sub>2</sub> ,N <sub>2</sub> ,H <sub>35</sub> ,F <sub>5</sub> ,Air	O <sub>2</sub> ,N <sub>2</sub> ,H <sub>35</sub> ,F <sub>5</sub> ,Air
Cutting Angle	degree	2 - 4	2 - 4	2 - 4
Plasma Gas	-	O <sub>2</sub> ,N <sub>2</sub> ,H <sub>35</sub> ,F <sub>5</sub> ,Air	O <sub>2</sub> ,N <sub>2</sub> ,H <sub>35</sub> ,F <sub>5</sub> ,Air	O <sub>2</sub> ,N <sub>2</sub> ,H <sub>35</sub> ,F <sub>5</sub> ,Air
Plasma Shield Gas	-	O <sub>2</sub> ,N <sub>2</sub> ,Air,H <sub>35</sub>	O <sub>2</sub> ,N <sub>2</sub> ,Air,H <sub>35</sub>	O <sub>2</sub> ,N <sub>2</sub> ,Air,H <sub>35</sub>



Operating Data					
Material	Current (amps)	Thickness (mm)	Approximate Cutting Speed (mm/min)	Thickness (Inches)	Approximate Cutting Speed (ipm)
Mild Steel	30	0,5	5355	.018	215
O <sub>2</sub> Plasma	3	3	1160	.135	40
O <sub>2</sub> Shield	6	6	665	.14	25
O <sub>2</sub> Plasma	80	3	6145	.135	180
Air Shield	6	6	3045	.14	110
Air Shield	20	20	545	.34	25
O <sub>2</sub> Plasma	130	6	4035	.14	150
Air Shield	10	10	2680	.11	110
Air Shield	25	25	550	.2	20
O <sub>2</sub> Plasma	200	6	5248	.14	200
Air Shield	12	12	3081	.14	115
Air Shield	25	25	1167	.1	45
Air Shield	30	30	254	.2	10
O <sub>2</sub> Plasma	260	10	4440	.38	180
Air Shield	20	20	2170	.34	90
Air Shield	64	64	195	2.1/2	8
O <sub>2</sub> Plasma	400	12	4430	.12	170
Air Shield	25	25	2210	.1	85
Air Shield	50	50	785	.2	38
Air Shield	80	80	180	.3	10
Stainless Steel	45	1	5740	.036	240
F5 Plasma	2,5	2,5	2510	.105	90
N <sub>2</sub> Shield	8	8	945	.14	30
F5 Plasma	80	4	2180	.135	105
N <sub>2</sub> Shield	6	6	1225	.14	45
N <sub>2</sub> Shield	10	10	560	.38	25
H35 Plasma	130	10	860	.38	40
N <sub>2</sub> Shield	12	12	820	.1/2	30
N <sub>2</sub> Shield	25	25	260	.1	10
H35 Plasma	260	12	1710	.1/2	65
N <sub>2</sub> Shield	20	20	1085	.34	45
N <sub>2</sub> Shield	25	25	785	.3	30
N <sub>2</sub> Shield	30	30	270	.1	10
H35 and N <sub>2</sub>	400	20	1810	.38	75
Plasma	40	40	720	1.1/2	30
N <sub>2</sub> Shield	80	80	190	.3	10
N <sub>2</sub> Plasma	600	40	970	1.1/2	40
N <sub>2</sub> Shield	60	60	434	2.1/2	16
N <sub>2</sub> Shield	80	80	305	.3	12
H35 Plasma	800	75	464	.3	18
N <sub>2</sub> Shield	125	125	155	.5	6
N <sub>2</sub> Shield	160	160	100	6.1/4	4
Aluminium	45	1,5	4420	.048	220
Air Plasma	4	4	2575	.135	110
Air Shield	6	6	1690	.14	60
H35 Plasma	130	12	1455	.1/2	55
N <sub>2</sub> Shield	20	20	940	.34	40
N <sub>2</sub> Shield	25	25	540	.1	20
H35 Plasma	260	12	5160	.1/2	190
N <sub>2</sub> Shield	20	20	2230	.34	90
N <sub>2</sub> Shield	50	50	390	.2	14
H35 Plasma	400	20	2420	.34	100
N <sub>2</sub> Shield	40	40	1190	1.1/2	50
N <sub>2</sub> Shield	80	80	210	.3	10
H35 Plasma	800	75	907	.3	35
N <sub>2</sub> Shield	160	160	175	6.1/4	7

## Hyperterm True Hole Technology

Patented True Hole® technology for mild steel produces significantly better hole quality than what has been previously possible using plasma. True Hole technology is delivered automatically without operator intervention, to produce unmatched hole quality. True Hole cutting technology for mild steel is exclusively available for use on Hypertherm's HPRXD auto gas plasma systems and is automatically applied by our cutting optimization and nesting software and CNC software to holes up to 1" with hole diameter to thickness ratios as low as 1:1.



With true hole



Without true hole

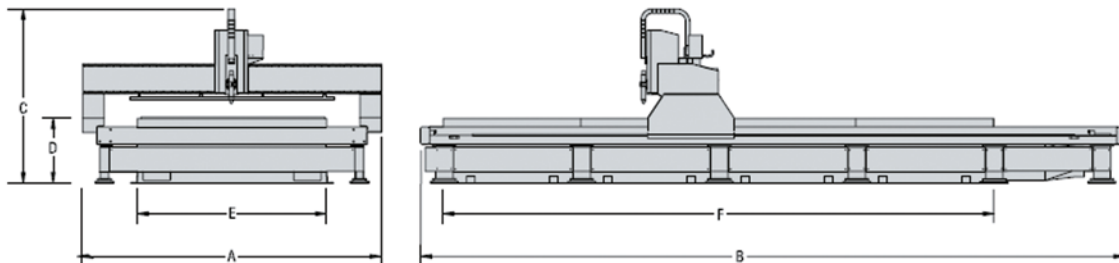
# PS SERIES PLASMA MACHINES DIMENSIONS



## Technical Data

TYPES	CUTTING TABLE (mm)	WIDTH (A)(mm)	LENGTH (B)(mm)	HEIGHT (C)(mm)	TABLE HEIGHT (D)(mm)	TABLE WIDTH (mm)	TABLE LENGTH (mm)	X AXIS STROKE (E)(mm)	Y AXIS STROKE (F)(mm)	WEIGHT (kg)
PS 2006	2200 x 6400	4250	8200	2200	750	2200	6400	2800	6200	8000
PS 2008	2200 x 8800	4250	10200	2200	750	2200	8800	2800	8200	8500
PS 2010	2200 x 11200	4250	12200	2200	750	2200	11200	2800	10200	11000
PS 2012	2200 x 12800	4250	14200	2200	750	2200	12800	2800	12200	13000
PS 2014	2200 x 14400	4250	16200	2200	750	2200	14400	2800	14200	15000
PS 2016	2200 x 16800	4250	18200	2200	750	2200	16800	2800	16200	17000
PS 2018	2200 x 19200	4250	20200	2200	750	2200	19200	2800	18200	19000
PS 2020	2200 x 20800	4250	22200	2200	750	2200	20800	2800	20200	21000
PS 2022	2200 x 22400	4250	24200	2200	750	2200	22400	2800	22200	23000
PS 2024	2200 x 24800	4250	26200	2200	750	2200	25600	2800	24200	25000
PS 2026	2200 x 27200	4250	28200	2200	750	2200	27200	2800	26200	27000
PS 2028	2200 x 28800	4250	30200	2200	750	2200	28800	2800	28200	29000
PS 2506	2700 x 6400	4750	8200	2200	750	2700	6400	3300	6200	9000
PS 2508	2700 x 8800	4750	10200	2200	750	2700	8800	3300	8200	9500
PS 2510	2700 x 11200	4750	12200	2200	750	2700	11200	3300	10200	12000
PS 2512	2700 x 12800	4750	14200	2200	750	2700	12800	3300	12200	14000
PS 2514	2700 x 14400	4750	16200	2200	750	2700	14400	3300	14200	16000
PS 2516	2700 x 16800	4750	18200	2200	750	2700	16800	3300	16200	18000
PS 2518	2700 x 19200	4750	20200	2200	750	2700	19200	3300	18200	20000
PS 2520	2700 x 20800	4750	22200	2200	750	2700	20800	3300	20200	22000
PS 2522	2700 x 22400	4750	24200	2200	750	2700	22400	3300	22200	24000
PS 2524	2700 x 24800	4750	26200	2200	750	2700	25600	3300	24200	26000
PS 2526	2700 x 27200	4750	28200	2200	750	2700	27200	3300	26200	28000
PS 2528	2700 x 28800	4750	30200	2200	750	2700	28800	3300	28200	30000
PS 3006	3200 x 6400	5250	8200	2200	750	3200	6400	3800	6200	10000
PS 3008	3200 x 8800	5250	10200	2200	750	3200	8800	3800	8200	10500
PS 3010	3200 x 11200	5250	12200	2200	750	3200	11200	3800	10200	13000
PS 3012	3200 x 12800	5250	14200	2200	750	3200	12800	3800	12200	15000
PS 3014	3200 x 14400	5250	16200	2200	750	3200	14400	3800	14200	17000
PS 3016	3200 x 16800	5250	18200	2200	750	3200	16800	3800	16200	19000
PS 3018	3200 x 19200	5250	20200	2200	750	3200	19200	3800	18200	21000
PS 3020	3200 x 20800	5250	22200	2200	750	3200	20800	3800	20200	23000
PS 3022	3200 x 22400	5250	24200	2200	750	3200	22400	3800	22200	25000
PS 3024	3200 x 24800	5250	26200	2200	750	3200	25600	3800	24200	27000
PS 3026	3200 x 27200	5250	28200	2200	750	3200	27200	3800	26200	29000
PS 3028	3200 x 28800	5250	30200	2200	750	3200	28800	3800	28200	31000
PS 3506	3200 x 6400	5750	8200	2200	750	3700	6400	4300	6200	11000
PS 3508	3700 x 8800	5750	10200	2200	750	3700	8800	4300	8200	11500
PS 3510	3700 x 11200	5750	12200	2200	750	3700	11200	4300	10200	14000
PS 3512	3700 x 12800	5750	14200	2200	750	3700	12800	4300	12200	16000
PS 3514	3700 x 14400	5750	16200	2200	750	3700	14400	4300	14200	18000
PS 3516	3700 x 16800	5750	18200	2200	750	3700	16800	4300	16200	20000
PS 3518	3700 x 19200	5750	20200	2200	750	3700	19200	4300	18200	22000
PS 3520	3700 x 20800	5750	22200	2200	750	3700	20800	4300	20200	24000
PS 3522	3700 x 22400	5750	24200	2200	750	3700	22400	4300	22200	26000
PS 3524	3700 x 24800	5750	26200	2200	750	3700	25600	4300	24200	28000
PS 3526	3700 x 27200	5750	28200	2200	750	3700	27200	4300	26200	30000
PS 3528	3700 x 28800	5750	30200	2200	750	3700	28800	4300	28200	32000
PS 4006	4200 x 6400	6250	8200	2200	750	4200	6400	4800	6200	12000
PS 4008	4200 x 8800	6250	10200	2200	750	4200	8800	4800	8200	12500
PS 4010	4200 x 11200	6250	12200	2200	750	4200	11200	4800	10200	15000
PS 4012	4200 x 12800	6250	14200	2200	750	4200	12800	4800	12200	17000
PS 4014	4200 x 14400	6250	16200	2200	750	4200	14400	4800	14200	19000
PS 4016	4200 x 16800	6250	18200	2200	750	4200	16800	4800	16200	21000
PS 4018	4200 x 19200	6250	20200	2200	750	4200	19200	4800	18200	23000
PS 4020	4200 x 20800	6250	22200	2200	750	4200	20800	4800	20200	25000
PS 4022	4200 x 22400	6250	24200	2200	750	4200	22400	4800	22200	27000
PS 4024	4200 x 24800	6250	26200	2200	750	4200	25600	4800	24200	29000
PS 4026	4200 x 27200	6250	28200	2200	750	4200	27200	4800	26200	31000
PS 4028	4200 x 28800	6250	30200	2200	750	4200	28800	4800	28200	33000

Other sizes are available on request. Design and specifications are subject to change without notice.



**STANDARDS**

- Welded Steel Construction
- X,Y axes travel on linear guides
- High accuracy 0,01mm
- Cutting Plate Alignment by laser
- Tecnos PC12 Control Unit
- Lantek Expert Cut II Software
- Ignition Console
- Torch Breakaway System

**OPTIONS**

- Hyperterm XD 130amp
- Ce Norm
- Automatic Gas Console
- Manual Gas Console
- Filter System



**COMPACT & SIMPLE**

PC Series Plasma Machines are compact is fitted with a very simple control so that new or occasional users can be trained in minutes. PC Series Plasma Machines are designed for ducting and light cutting. A high rail machine ideal for HVAC ducting work and other light sheet work but built with extra strength and precision so it can be upgraded to high definition plasma cutting for material up to 40 mm. Featuring a fully machined gantry and based with linear bearings on both longitudinal rails this machine is built to work hard and long. Because of its unitary design there is no need for a complicated installation and if necessary the machine can be readily moved around the workshop to suit changing workloads.



**HyPerformance Hyperterm Plasma Systems**

HyPerformance plasma systems deliver HyDefinition cut quality at half the operating costs. By incorporating Hypertherm's proven HyDefinition, LongLife, and patented PowerPierce and True Hole technologies, HyPerformance Plasma boosts overall performance, productivity and profitability. The systems offer unmatched process flexibility to cut, bevel and mark metals up to 160 mm (6-1/4") thick.



**Hyperterm Manual Gas Consoles**



- Provides an intuitive and easy to use operator interface for the system
- Operators manually select gas types and set gas flows.
- Automatically adjusts for variations in incoming gas pressure to produce consistent cutting performance.

**Hyperterm Automatic Gas Consoles**



- Controls all of the plasma system settings from the CNC.
- Automatically changes processes on the fly to enable rapid switching.
- Automatically adjusts for variations in incoming gas pressure to produce the most consistent cutting performance.



HPR Specifications	Unit	HPR130XD
Plasma power source		Hyperterm
Max High Quality Cutting capacity (MS) (edge start)	mm	38
Max High Quality Cutting capacity (MS) (pierce capacity)	mm	16
Maximum Positioning Speed X/ Y	m/min	35
Maximum Cutting Speed	m/min	12
Positioning Accuracy	mm	+/- 0,1
Repeatability	mm	0,1
Output Current	A	130
Current Regulation Range	A	30-130
Gas Console - Automatic	-	O2,N2,H35,F5,Air
Cutting Angle	degree	2 - 4
Plasma Gas	-	O2,N2,H35,F5,Air
Plasma Shield Gas	-	O2,N2,Air,H35

TYPE	Width (A)(mm)	Length (B)(mm)	Height (C)(mm)	Table Height (D)(mm)	X Axis Stroke (E)(mm)	Y Axis Stroke (F)(mm)	Weight (kg)
PC 1503	2140	4450	1750	750	3110	1600	2200

Other sizes are available on request.

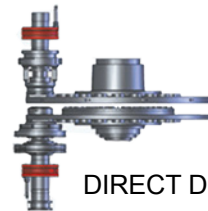


## STANDARDS

- From 2500mmX1225mm up to 3000mmx1500mm Working Capacities
- With its closed type (O frame) construction
- 20 station turret including 4 indexable D stations
- Direct Drive concept is used in index mechanism
- 300 RPM Auto Index Speed
- Rexroth IndraMotion MTX CNC is used in control & LANTEK CAD/CAM SOFTWARE
- Offline programming software including automatic nesting
- Automatic Repositioning System
- Work chute : Performed work pieces which is smaller than 400x400 mm
- Sheet Deformation Detection Sensor
- Automatic Tool Lubrication
- Automatic Clamp Movement

## OPTIONS

- Ce Norm Light Barriers
- Additional clamps
- Table type (brush&ball)
- Extension tables
- Tool sets
- Wheel Tool Programming
- Loading Unloading System
- Vacuum System: prevents slug pulling enables better punching quality



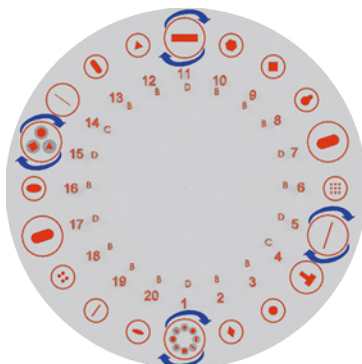
DIRECT DRIVE

## PRODUCTIVE & UNPRECEDENTED SPEEDS

The JMT PT Series CNC Turret Punch Presses feature an extremely rigid 'O' frame design tested by Finite Element Analysis so that there is minimum deflection in the machine body even under maximum load and ensuring high precision performance. The machines are designed for high production with up to 1G acceleration when positioning and a maximum speed of 900 strokes per minute when nibbling at 1mm pitch. The 20 station turret features 4 indexable stations as standard which can be fitted with either 3 or 8 station multi tools. JMT PT Series CNC Turret Punch Presses are capable of producing not only 2D components but when fitted with special tools can create 3D forms which wouldn't be possible when using a profiling process. CAP / CAM software is included as standard and controls importing of CAD drawings, component nesting onto the sheet and the creation of the machine ready program. Additional modules supplied can be used to create CAD drawings for components and also set up the current turret configuration.

## FEATURES

- Extremely rigid 'O' Frame design tested by Finite Element Analysis software, precisely machined and stress relieved to ensure high precision performance,
- High strength, centrally driven beam fitted with three sheet clamps providing up to 1G acceleration and capable of positioning sheets of 0.5mm to 6.4mm thickness and up to 170kg in weight,
- Heavy duty and precise sheet clamps with sliding system to prevent sheet jamming. The clamps incorporate three sensors, firstly to ensure the clamp is tightened to the beam without any movement, secondly to detect whether a sheet is clamped and thirdly to detect any movement in the sheet,
- High quality Rexroth Star ball bearings and linear guides provide extremely precise positioning and allow for high speed movement and acceleration while still ensuring long life and low noise operation,
- Ball transfer and brush table combination,
- Moveable table system in Y axis ensuring the material is supported at the edges and reducing vibrations,
- Punching, cutting and forming processes controlled by the CNC according to material type and thickness,
- Capable of producing not only 2D components but when fitted with special tools can create 3D forms which wouldn't be possible when using a profiling process. With 20mm of space between the upper and lower turrets a form of up to 8mm high can be produced in material of 1mm thickness,
- Direct Drive index mechanism. There is no transfer unit between indexed tool and the motor which eliminates backlash and ensures the angle is precisely as programmed on the CNC control. This is particularly beneficial on thin material as this system minimises tool wear and therefore improves hole quality,
- Low energy hydraulic system with low and high pressure hydraulic pumps. By only utilising the high pressure pump when the operation requires it, energy savings of up to 50% are achieved. This system also results in reduced working noise level and extends the life of the hydraulic oil. This process is automatically controlled by the machine without operator input,
- CE compliant light barrier system preventing entry to the working area. In the case of interruption the program can restart from the point at which it stopped,
- Turret configuration module within the Lantek software allows the editing of the turret layout as well as simply the job off setting additional tools.



## TURRET CONFIGURATION

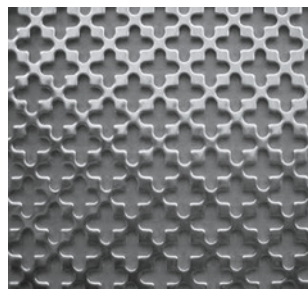
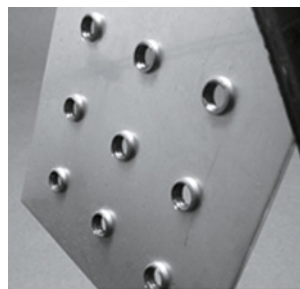
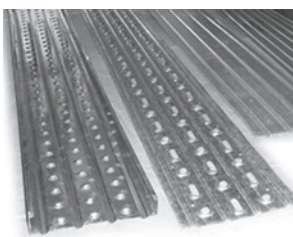
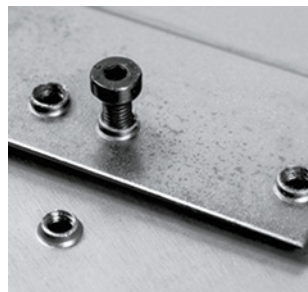
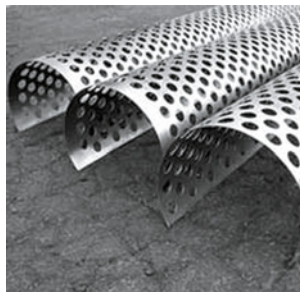
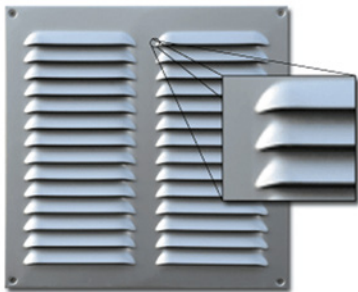
- Turret consist of 20 stations in total:
  - 4 Indexable D Stations (Max. Tool Diameter: 88,9 mm)
  - 2 Fixed D Stations (Max. Tool Diameter: 88,9 mm)
  - 2 Fixed C Stations (Max. Tool Diameter: 50,8 mm)
  - 12 Fixed B Stations (Max. Tool Diameter: 31,7 mm)
- Optionally Turret configuration can be reorganized depend on customers requirements. Indexable stations can be increased up to 10 pieces
- Sample configuration: 10 pieces indexable D station, 6 pieces fixed B station, 4 pieces fixed C stations

## Technical Data PT 1225/30

MODEL		PT 1225/30
Punching Force	Tonnes	30
Total Number of Tool Stations		20
No of Indexable Tool Stations (3 or 8 Tool Multi Tools)		4
Tool Change Time - Multi Tools	sec	0,3
Tool Change Time - Turret	sec	3
CNC Controlled Axis		X, Y, Z, C1 + C2, T
C1 & C2 Axis Drive Type		Direct Drive
Working Range without Repositioning (X x Y)	mm	2540 x 1270
X Axis Repositioning		Yes
X Axis Speed	m/min	100
Y Axis Speed	m/min	80
X & Y Axis Combined Speed	m/min	128
C1 & C2 Rotational Speed	RPM	500
Z Axis Stroke	mm	30
T Rotational Speed	RPM	20
Nibbling Rate - 1mm Pitch	hits/min	900
Nibbling Rate - 25mm Pitch	hits/min	580
Maximum Sheet Weight	kg	170
Maximum Sheet Thickness	mm	6,4
Punching Accuracy	mm	0,1
Repeatability	mm	0,04
Maximum Punching Diameter for 6,4mm Thickness	mm	25
Number of Material Clamps	mm	3
Working Height of Table	mm	980
Oil Tank Capacity	Liter	300
Motor Power	kW	11
Length	mm	5570
Width	mm	5210
Height	mm	2220
Weight	kg	14000

## Technical Data PT 1530/30

MODEL		PT 1530/30
Punching Force	Tonnes	30
Total Number of Tool Stations		20
No of Indexable Tool Stations (3 or 8 Tool Multi Tools)		4
Tool Change Time - Multi Tools	sec	0,3
Tool Change Time - Turret	sec	3
CNC Controlled Axis		X, Y, Z, C1 + C2, T
C1 & C2 Axis Drive Type		Direct Drive
Working Range without Repositioning (X x Y)	mm	3000 x 1500
X Axis Repositioning		Yes
X Axis Speed	m/min	100
Y Axis Speed	m/min	80
X & Y Axis Combined Speed	m/min	128
C1 & C2 Rotational Speed	RPM	300
Z Axis Stroke	mm	30
T Rotational Speed	RPM	20
Nibbling Rate - 1mm Pitch	hits/min	900
Nibbling Rate - 25mm Pitch	hits/min	580
Maximum Sheet Weight	kg	170
Maximum Sheet Thickness	mm	6,4
Punching Accuracy	mm	0,1
Repeatability	mm	0,04
Maximum Punching Diameter for 6,4mm Thickness	mm	25
Number of Material Clamps	mm	3
Working Height of Table	mm	980
Oil Tank Capacity	Liter	300
Motor Power	kW	11
Length	mm	6370
Width	mm	5410
Height	mm	2220
Weight	kg	14500





#### STANDARDS

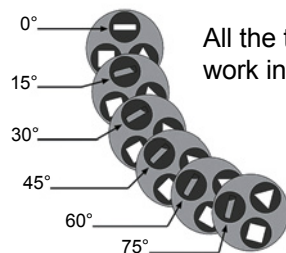
- 2500mmX1250mm Working Capacities with ball transfer tables
- C type frame, strength-tested and analysed
- One D size indexable multi tool (3 or 8 stations)
- Repositioning feature
- Rexroth IndraMotion MTX CNC is used in control system
- LANTEK CAD/CAM SOFTWARE
- Offline programming software including automatic nesting
- Quick tool change
- Two hydraulic sheet clamps
- Cooler for hydraulics
- Work chute with Waste box
- Warning lamps

#### OPTIONS

- Spare indexable multi tool station
- Spare tools
- Reductions for C, B, A stations
- Table type (brush&ball)
- Extension tables
- Additional sheet clamp
- Loading Unloading System
- Wheel Tool Programming

#### One D size indexable multi tool (3 or 8 stations)

Indexable 8 station (Max. Tool Diameter 12,7 mm)  
and 3 station (Max. Tool Diameter: 31,7 mm) multitools  
can be used in JMT PR Punch Press.



All the tools used in this multitools can  
work in any angle.



## COMPACT & HIGH SPEED

The JMT PR CNC Punch Press features CNC Auto Indexing of the punching head with a multi tool fitted as standard. The machine is manufactured to a very high standard using Finite Element Analysis software to ensure that there is minimum deflection in the machine body even under maximum load. All components used are manufactured to a very strict tolerance utilising hardened component where applicable. A centralised lubrication system ensures that any moving parts receive a consistent amount of lubricant. The machine is designed for high production with a maximum speed of 600 strokes per minute when nibbling in 1mm pitch. The JMT PR machine uses Lantek CAM software which includes automatic nesting of components onto the sheet.

## FEATURES

- 'C' Frame design tested by Finite Element Analysis software, precisely machined and stress relieved to ensure high precision
- Hydraulic punching with indexable tool station through 360° in increments of 0.001°
- Punching, cutting and forming processes subject to optional tooling fitted -controlled by the CNC according to material
- Capable of producing not only 2D components but when fitted with special tools can create 3D forms which wouldn't be possible when using a profiling process
- High nibbling rate of 600 hits per minute in 1mm pitch
- High capacity motors and precision guides on all axes able to reach high operational speeds
- Rigid beam with fitted with two sheet clamps capable of positioning sheets of up to 6.4mm thickness
- Very accurate repeatability of 0.04mm
- Clamping force adjusted by CNC from 100kg to 1000kg
- Repositioning feature
- High processing speeds and data transfer rates

## Technical Data of PR Series

MODEL		PR 1225/30
Punching Force	Tonnes	30
Tool Rotation Method		Indexable Multi Tool
No of Tools in Multi Tool		3 or 8
Tool Station Size		D
Tool Station Rotation	Deg	360
CNC Controlled Axis		X, Y, Z, C1 & C2
X Axis Stroke (Without repositioning)	mm	2540
X Axis Repositioning		Yes
Y Axis Stroke	mm	1270
X Axis Speed	m/min	90
Y Axis Speed	m/min	60
X & Y Axis Combined Speed	m/min	108
C1 & C2 Rotational Speed	RPM	40
Z Axis Stroke	mm	30
Nibbling Rate - 1mm Pitch	hits/min	600
Maximum Sheet Weight at Maximum Speed	kg	170
Maximum Sheet Thickness	mm	6,4
Punching Accuracy	mm	0,1
Repeatability	mm	0,04
Maximum Punching Diameter	mm	88,9
Number of Material Clamps		2
Clamping Force Adjustment Method		CNC
Working Height of Table	mm	880
Oil Tank Capacity	liter	350
Motor Power	kW	11
Length	mm	1980
Width	mm	4220
Height	mm	4940
Weight	kg	12700



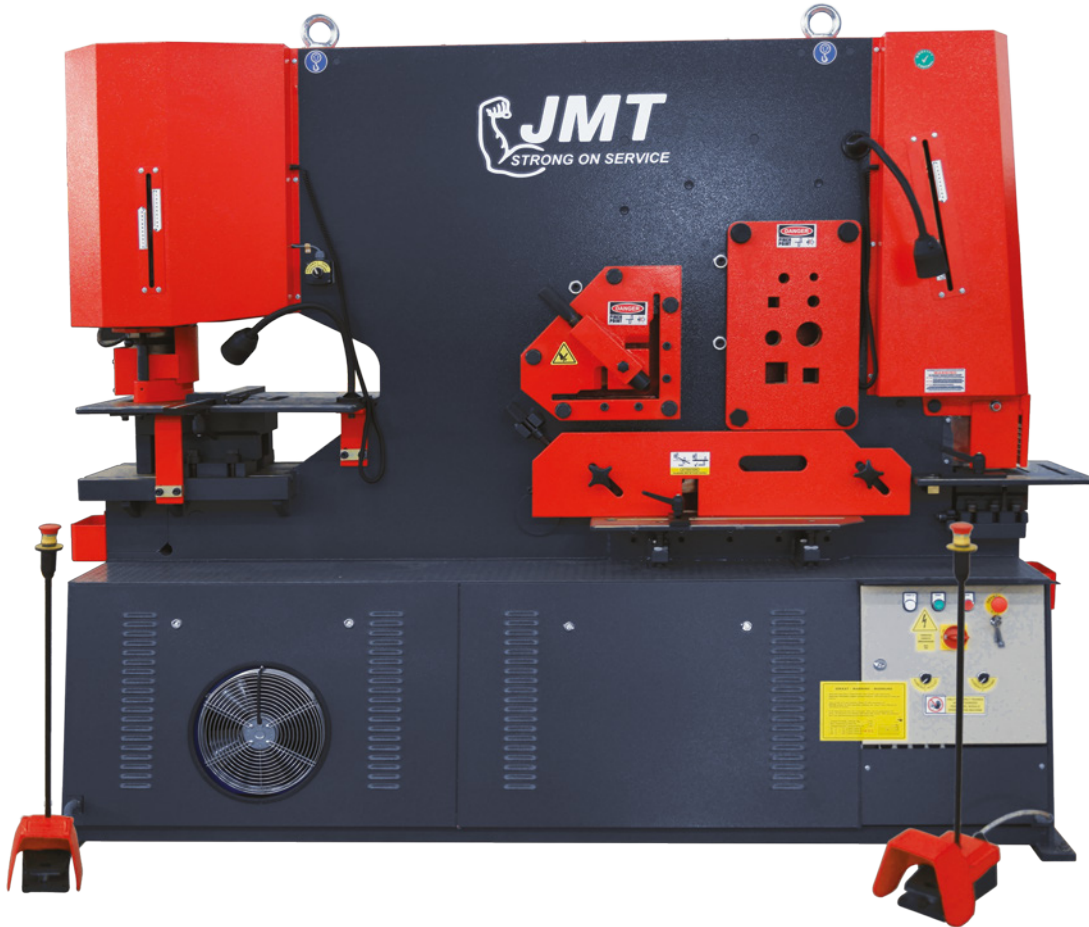
## DESIGN AND OPERATING FEATURES

- Rigidly constructed lower frame, work table, and cutting beam
- Easy setting of notching angle by two hand wheels
- Automatic blade gap adjustment for all sheet thicknesses
- Squaring guides, scales, and angle gauge
- Self-lubricating, precision guides to assure burr-free cutting
- Extended work table with t-slots
- Safe, durable, and easy operation with footswitches and a thermic-magnetic on/off switchbox which conforms to CEI and EMPI norms
- Scrap-collection drawer
- Maintenance-free hydraulics



## TECHNICAL DATA

CN 200 x 6 Variable Angle Notcher		
Cutting Length	mm	200
Cutting Capacity	mm (42 kg/mm ) <sup>2</sup>	6
Cutting Capacity	mm (70 kg/mm ) <sup>2</sup>	3
Cutting Angle	degrees	5
Notching Angle	degrees	30 <sup>0</sup> - 140 <sup>0</sup>
Stroke Number	cuts/min	50
Motor Power	kW	4
Table Dimension	mm	920 x730
Length	mm	920
Width	mm	1115
Height	mm	1300
Weight	kg	1200



IW 40

IW 45 & 60

IW 55 & 65

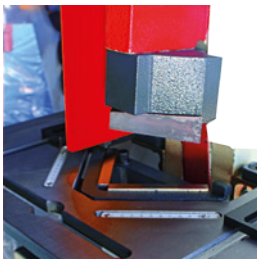
IW 85

IW 115

IW 175



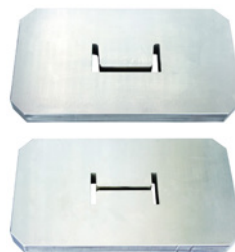
90° V angle cutting tool(O)



Press Brake Tool(O)



IPN/UPN cutting blade(O)

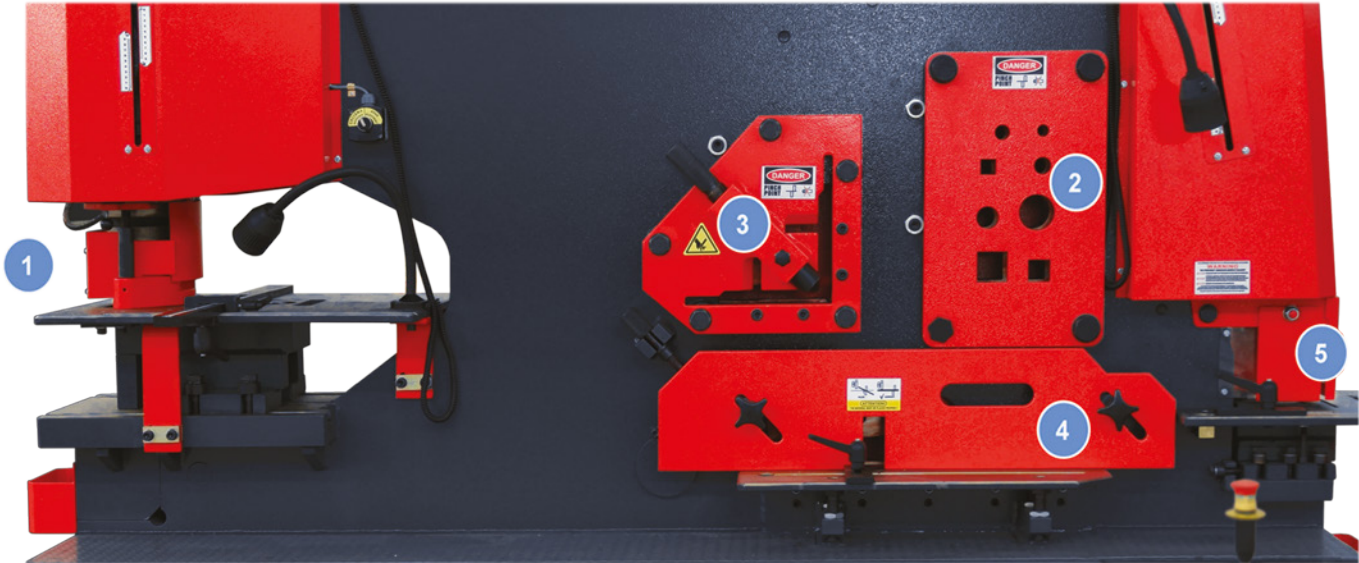


Several kinds of punches and die(O)



## JMT IRON WORKER MACHINES

Ideal for cutting all range of angle, I beam and U-section, straight or 45 Multi station work enables punching, cutting, notching on the same machine. Double piston models allow two operators working (Punch + one station)



### 1 PUNCHING

The machine punches from 30 mm diameters (8 mm thickness) to 57 mm diameters (22 mm thickness) very efficiently. Punches and dies are easily changed. We provide special punches at short notice.

### 2 STEEL BAR SHEARING

With this part of machine, squares from 25 mm to 55 mm and rounds from 30 mm diameters to 65 mm diameters can be cut very fast. By changing the blades you can also cut U-I or T sections. We provide special blades.

### 3 ANGLE SHEAR

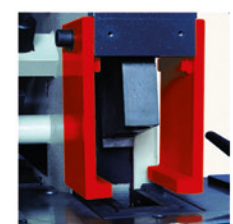
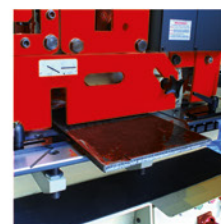
Here with the help of special blades you can cut several types of 90°- 45° angle sections efficiently.

### 4 SHEET METAL SHEAR

With the long blade, you can do your daily sheet metal cutting works very fast.

### 5 NOTCHING

The machine comes with a rectangular notching tool which you can use for your notching works. We provide special notching tools for your notching works.



TECHNICAL SPECIFICATION				
Standard Equipments		<b>PUNCHING</b>		<b>IW 40</b>
		Diameter x max. Thickness	Ø 20 x 15 mm	
		Diameter x Thickness	Ø 30 x 10 mm	
		Maximum Diameter	Ø 38 x 8 mm	
		Stroke	50 mm	
		Stroke Count in (20mm)	x 20	
		Throat Depth	175 mm	
	Working Height	970 mm		
		<b>STEEL BAR SHEAR</b>		<b>IW 40</b>
		Round/Square	Ø 30 - □ 25 mm	
	<b>ANGLE SHEAR</b>		<b>IW 40</b>	
	Angle Section (90°)	80 x 80 x 8 mm		
	Angle Section (45°)	50 x 6 mm		
	<b>SHEET METAL SHEAR</b>		<b>IW 40</b>	
	Sheet Metal	200 x 13 mm		
	Sheet Metal	300 x 6 mm		
	Blade Length	356 mm		
	Shearing with Angle	80 x 10 mm		
	<b>NOTCHING</b>			
	Thickness			
	Width			
	Depth			
Optional Equipments	<b>OPTIONAL TOOLS</b>		<b>IW 40</b>	
		U-I Section Blades (for UPN - IPN Cutting)	76 x 38 mm	
		T Section Blades	38 x 6 mm	
		Special V-Notching Tooling		
			V - Bending Press Brake	
			Bar Bend Max.	
		Sheet Bend Max.		
	Punching on Notcher	Throat Depth		
		Max. Capacity		
	<b>TECHNICAL DATA</b>		<b>IW 40</b>	
	Motor Power	3 kW		
	Weight	580 kg		
	Machine Dimensions (LxWxH)	1100 x 800 x 1520 mm		
	Power (Pressure)	40 tonne		

Based on material strength 450 N/mm<sup>2</sup>

# IW SERIES IRON WORKERS

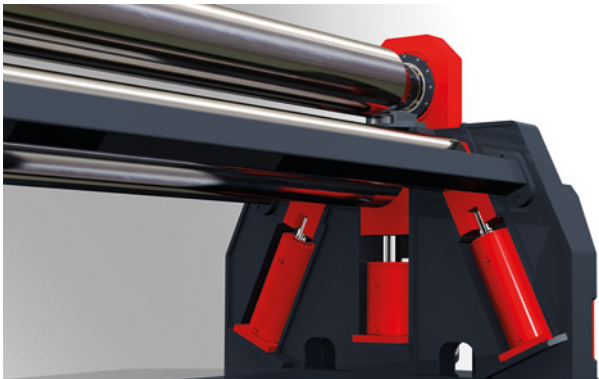


IW 45	IW 55	IW 60	IW 65	IW 85	IW 115	IW 175
Ø 22 x 15 mm	Ø 20 x 20 mm	Ø 28 x 15 mm	Ø 26 x 20 mm	Ø 33 x 20 mm	Ø 34 x 26 mm	Ø 40 x 32 mm
Ø 38 x 8 mm	Ø 40 x 10 mm	Ø 38 x 11 mm	Ø 57 x 10 mm	Ø 57 x 12 mm	Ø 55 x 16 mm	Ø 57 x 22 mm
Ø 100 x 3 mm	Ø 100 x 3 mm	Ø 110 x 3 mm	Ø 110 x 3 mm	Ø 110 x 4 mm	Ø 110 x 5 mm	Ø 125 x 5 mm
50 mm	60 mm	55 mm	55 mm	80 mm	80 mm	80 mm
x 20	x 25	x 25	x 25	x 25	x 25	x 22
175 mm	255 mm	220 mm	305 mm	355 mm	355 mm	625 mm
935 mm	1030 mm	955 mm	1030 mm	1080 mm	1110 mm	1130 mm
IW 45	IW 55	IW 60	IW 65	IW 85	IW 115	IW 175
Ø 30 - $\square$ 25 mm	Ø 40 - $\square$ 40 mm	Ø 40 - $\square$ 35 mm	Ø 45 - $\square$ 45 mm	Ø 50 - $\square$ 50 mm	Ø 55 - $\square$ 50 mm	Ø 65 - $\square$ 55 mm
IW 45	IW 55	IW 60	IW 65	IW 85	IW 115	IW 175
100 x 100 x 10 mm	120 x 120 x 12 mm	120 x 120 x 12 mm	120 x 120 x 12 mm	150 x 150 x 15 mm	150 x 150 x 16 mm	200 x 200 x 20 mm
70 x 6 mm	70 x 10 mm	80 x 8 mm	70 x 10 mm	80 x 8 mm	80 x 10 mm	80 x 10 mm
1140 mm	1130 mm	1155 mm	1140 mm	1200 mm	1215 mm	1130 mm
IW 45	IW 55	IW 60	IW 65	IW 85	IW 115	IW 175
200 x 15 mm	200 x 20 mm	200 x 20 mm	300 x 20 mm	380 x 20 mm	380 x 25 mm	380 x 30 mm
300 x 12 mm	300 x 15 mm	300 x 15 mm	375 x 15 mm	480 x 15 mm	600 x 15 mm	600 x 20 mm
316 mm	317 mm	317 mm	380 mm	482 mm	610 mm	610 mm
80 x 10 mm	80 x 15 mm	80 x 10 mm	100 x 15 mm	120 x 15 mm	120 x 15 mm	120 x 15 mm
935 mm	900 mm	955 mm	900 mm	940 mm	935 mm	810 mm
IW 45	IW 55	IW 60	IW 65	IW 85	IW 115	IW 175
8 mm	10 mm	10 mm	10 mm	13 mm	13 mm	16 mm
35 mm	45 mm	42 mm	45 mm	52 mm	60 mm	60 mm
75 mm	90 mm	100 mm	90 mm	100 mm	100 mm	100 mm
935 mm	900 mm	955 mm	900 mm	940 mm	935 mm	910 mm
IW 45	IW 55	IW 60	IW 65	IW 85	IW 115	IW 175
80 x 45 mm	120 x 58 mm	80 x 45 mm	120 x 58 mm	160 x 74 mm	200 x 90 mm	300 x 125 mm
40 x 5 mm	80 x 9 mm	80 x 9 mm	90 x 11 mm	100 x 11 mm	120 x 13 mm	150 x 15 mm
100 x 100 x 8 mm	100 x 100 x 10 mm	100 x 100 x 10 mm	100 x 100 x 10 mm	100 x 100 x 13 mm	100 x 100 x 13 mm	100 x 100 x 16 mm
100 x 12 mm	250 x 12 mm	100 x 12 mm	250 x 15 mm	250 x 20 mm	250 x 22 mm	250 x 25 mm
	500 x 3 mm		500 x 3 mm	500 x 4 mm	700 x 3 mm	700 x 4 mm
85 mm	125 mm	110 mm	125 mm	125 mm	125 mm	125 mm
Ø 18 x 12 mm	Ø 38 x 8 mm	Ø 20 x 12 mm	Ø 38 x 8 mm	Ø 38 x 10 mm	Ø 38 x 12 mm	Ø 38 x 13 mm
IW 45	IW 55	IW 60	IW 65	IW 85	IW 115	IW 175
4 kW	5.5 kW	4 kW	5.5 kW	7.5 kW	11 kW	11 kW
1165 kg	1520 kg	1440 kg	1600 kg	2315 kg	2920 kg	6000 kg
1430x950x1680 mm	1500x950x1880 mm	1520x950x1780 mm	1700x950x880mm	1920x950x2040 mm	2040x950x2180 mm	2730x1150x2280mm
45 tonnes	55 tonnes	60 tonnes	65 tonnes	85 tonnes	115 tonnes	175 tonnes



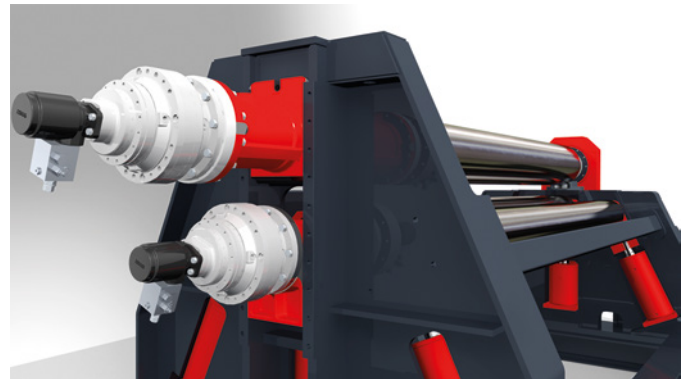
### JMT PR4H SERIES PLATE BENDING MACHINES

The mechanical and hydraulic systems on JMT PR4H machine are designed by our experienced engineers. These engineers design the machines utilizing parametric 3D engineering technology as well as implementation of mechanical and static analysis. All mechanical, hydraulic, and electronic systems are designed and tested by electrical and mechanical engineers. Only following long term tests and evaluations are authorized the machines to be manufactured in serial production.



### JMT PR4H RECTILINEAR GUIDED ROLLS

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 rolling heavy plates.



### JMT PR4H HIGH TORQUE DRIVE SYSTEM

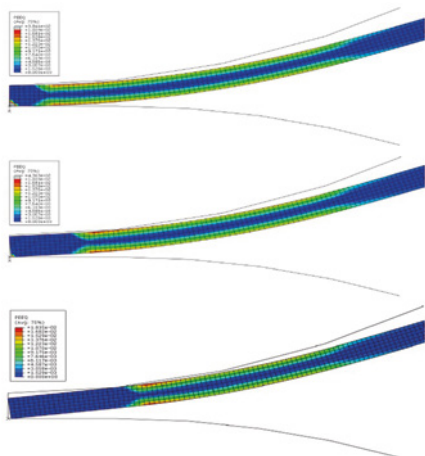
Because of its high torque drive, a JMT machine bends the part with fewer steps. Rolls are powered by independent high torque hydraulic motors and planetary gear boxes. The activation system is positioned on the same axis as the roll, so high torque is transferred to the sheet without any power loss. Especially during the pre-bending, the hydraulic breaks does not allow the plate to slip back which may create safety problems.

## 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 90 mm thickness.

- 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 to 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. This eliminates the need for someone to assist the operator.

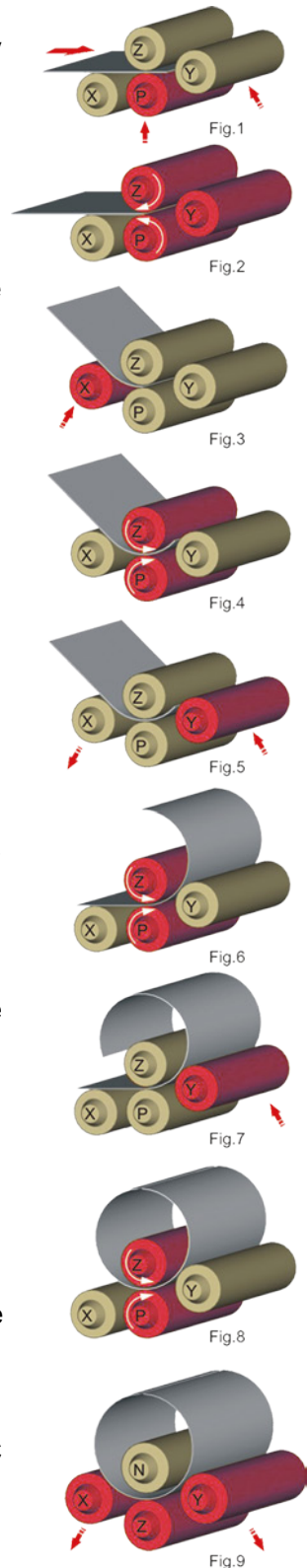
- The plate is kept square without slipping during both pre-bending and rolling because of the constant secure clamping of the top and bottom rolls.

- Four roll machines do not require the operator to remove, flip, and then try to square and reposition the plate a second time after first pre-bending, as is the case with three roll initial pinch machines. Keeping the material in the machine makes four rolls 50% more efficient than three roll initial pinch machines, and allows a cylindrical shapes to be rolled to the required diameter immediately following pre-bending.

- Bending the back edge takes place after the rolling process, for a one direction and single pass operation. This process provides less working area.

- 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 opposite side to clamp and drive end of 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 complex shapes like polycentric or elliptic work pieces can be easily done with JMT four roll machines.





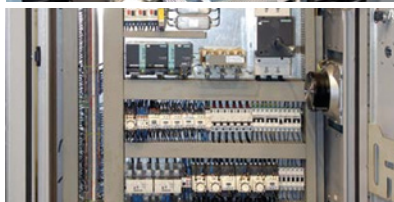
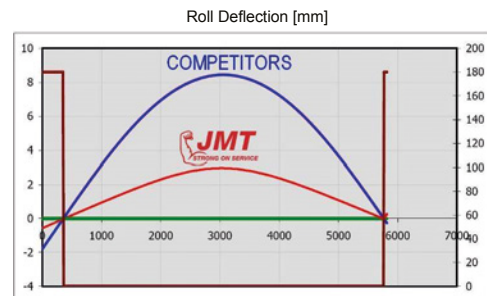


### Strengthened Bearing Guidance System

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

### Durable Rolls and Crowning System

The most important element of a plate roll is the rolls themselves. Most machines in the market have weak rolls that deform during the bending process when small diameters of 5x the top roll are reached. JMT uses high tensile carbon steel rolls that are machined by high precision CNC lathes. Working surfaces of the rolls are CNC induction hardened to HRC 52-58 (5-6 mm deepness) with hardness tests performed at varying points on the rolls. Rolling 1.5 x top roll diameter is acquired easily. The rolls are machined with a crown to compensate the deflection of the rolls during the bending process. Special Crowning for other materials can be applied free of charge when ordering.

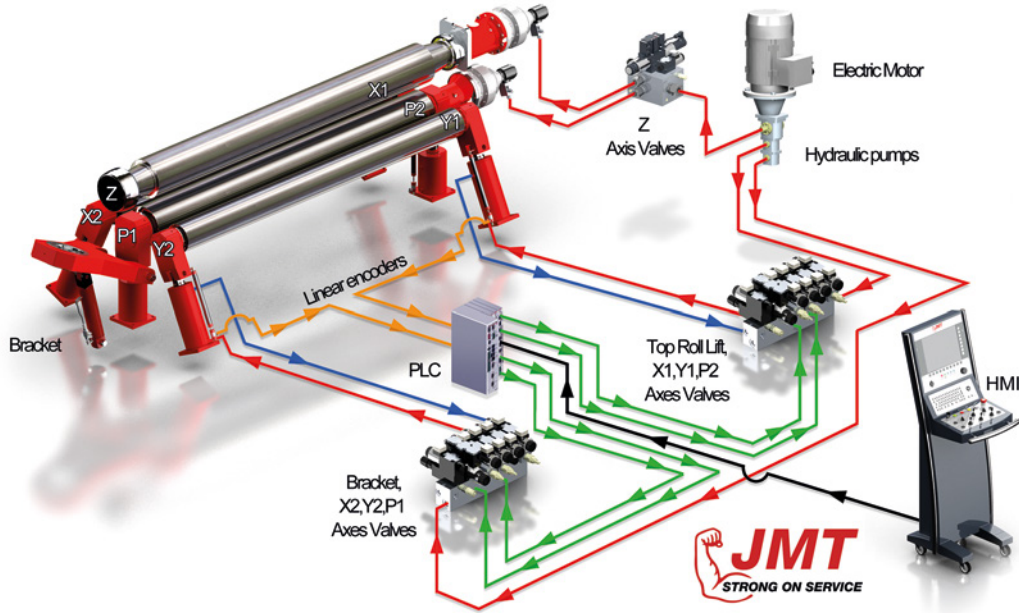


### Hydraulic and Electrical System

Machine movements are provided by hydraulic components. The precision on the all axes are acquired by world leader Parker valves high speed response ability. And pressure safety valves used against peak pressures and overload provides protection for motors and other components. Electrical system designed compatible with CE safety regulations. The system consists of well-known electrical components such as Siemens, Schneider, Phoenix, Koyo and Opkon. The system is protected by current overloading for its components, power supplies, electronics and motors. Control Unit used from world leader Esautomation from Italy.

## Precise Four Rolls Synchronization System

The bottom and side rolls are positioned by six different strong hydraulic cylinders. Adjustable pinching pressure compensation allows the rolling of different thicknesses of material with minimum deformation. Synchronization between the rolls are acquired by linear encoders and PLC. The PLC's respond within milliseconds due to high precision proportional valves.



### Standard PLC Unit

The PLC system ensures synchronous operation of the machine's bottom and side rolls. The PLC has 6-axes control. The ability to input up to five set points gives the operator more control over consistency and saves production time.

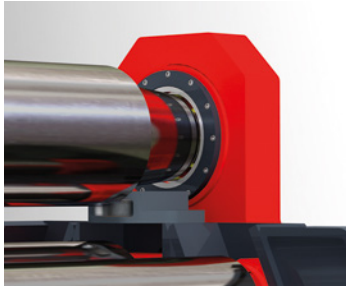
### Optional NC Unit

The NC system has the ability to work in both manual, teach 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 by NC. In automatic mode all recorded movements are repeated respectively by the machine. The NC system has the capacity to save 70 programs consisting of a maximum of 100 steps.

### Optional CNC Unit

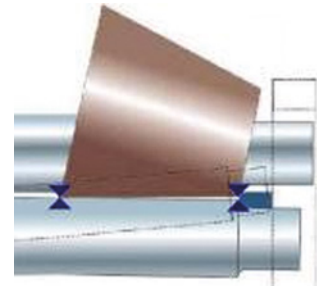
JMT's CNC system has capabilities with hydraulic proportional valves in order to roll different shapes without the need to stop at curve change points. This control gives the operator the ability to efficiently produce everything from simple cylinders to complex parts with repeatability. An extensive library of pre-programmed part shapes allows operators to produce quality parts. With the Autolearning Function, the operator can also create teach/record programs





### Conical Bending System

The massive body, angular bottom and side rolls easily bend wide angle, small diameter conical parts. While most machines on the market can conically bend 3 times of top roll, JMT PR4H machines can conically bend 1.5 times of top roll diameter.



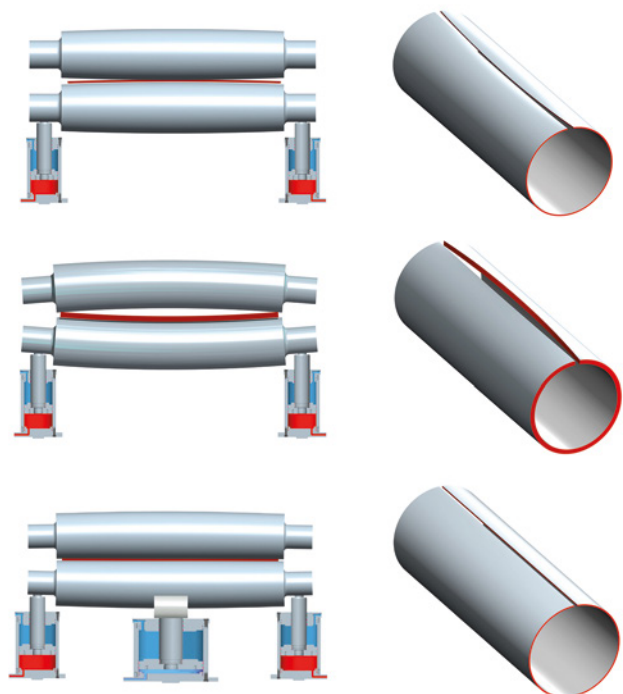
### Optional Side, Vertical or Special Sheet Support System

Optional hydraulic side or vertical supports the sheet's stretch and prevent deterioration of the bending form in big shaped bending. Moveable arms with hydraulic double cylinders are produced from St52 steel construction. It can be produced according to different tonnage and heights.



### Optional Hydraulic Roll Crowning System

If the part is too thin, the bending result will be hourglass crowning deformation. If the part is too thick, the bending result will be barrel crowning deformation. In fact, the machine also can be equipped with additional top rolls and different crowning. This allows you to reach a desired tolerance range. Another alternative approach is dynamic crowning on the bottom rolls or an over-the-top roll deflection compensation system. This system will be required to meet part tolerances and diameters.



# JMT PR4H SERIES PLATE BENDING APPLICATIONS



Fabricating equipment



Pressure vessels



Concrete mixers



Mining equipment



Drilling rigs



Pipe lines



Heavy turbines



Water treatment equipment



Road compacting equipment



Snow plows



Heavy equipment loaders



Excavating equipment



Water towers



Wind towers



Autoclaves



Structural steel manufacturing



Fuel tanks



Boilers



Grain & Water storage systems



Industrial Filters





#### **STANDARDS**

- PLC Unit
- Cone bending
- Induction hardened rolls (HRc 54 +/-2)
- Rolls with rectilinear guides.
- Dual speed of rolling
- Variable speed control of all axis (NC/CNC machines)
- Machine frame constructed of stress-relieved
- Highly durable carbon steel rolls machined by CNC Lathes with optimal crown (special crown upon request)
- Rolls seated in spherical bearings
- Top roll hydraulic opening device (drop end) with easy pull out system
- Bottom and side rolls electronically synchronized with PLC and high-end precision linear encoders
- Bottom and top rolls driven with hydraulic motor and planetary gear box
- Automatic rolls peripheral speed compensation (optimum distribution of torque)
- Adjustable hydraulic pressure on bottom roll (crowning compensation)
- Emergency stop wire around the machine
- Electrical and hydraulic protection against overloads
- World standard electrical and hydraulic components
- Welding possibility on the machine
- CE norms.

#### **OPTIONS**

- NC Unit
- CNC Unit
- Polished Rolls
- Ground Rolls
- Variable speed of rolling
- 4 rolls drive
- Oil Cooler or heater
- Side support system (both sides)
- Vertical hydraulic overhead support system
- Preparation for side or vertical support system
- NC inclusion for vertical support control (CNC)
- NC inclusion for side support control (CNC)
- Changeable top roll for smaller diameters
- Material feeding table (Idle or motorized)
- Wireless remote control
- Loading and unloading automation
- Special roll crowning
- Special plate support systems
- Special applications for wind-tower production

# JMT PR4H SERIES PLATE BENDING MACHINES



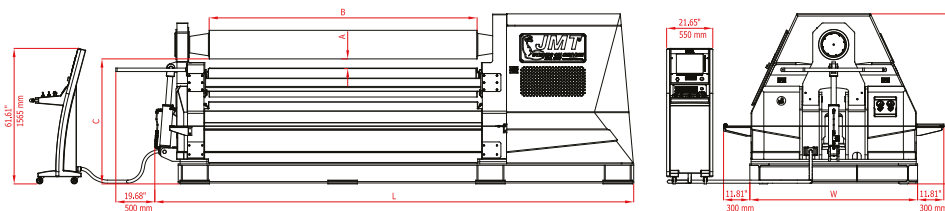
PRH SERIES Model	Bending Length	Min. Internal Diameter			Central Rolls	Side Rolls	Max. Pass Through	Length	Width	Height	Working Height	Weight	Motor Power	Hydraulic Tank Capacity
		Pre Bending Capacity	Pre Bending Capacity	Bending Capacity										
		Ødx1.5	Ødx5	Ødx5										
B (mm)	t (mm)	t (mm)	t (mm)	Ød (mm)	Ø (mm)	A (mm)	L (mm)	W (mm)	H (mm)	C (mm)	(Kg)	(kW)	(Lt.)	
PR4H 1505	1550	3	4	5	140	130	12	3100	970	1140	880	2430	4	80
PR4H 1506	1550	4	5	6	150	130	12	3100	970	1140	875	2490	5,5	80
PR4H 1507	1550	5	6	7	170	140	15	3100	970	1140	865	2660	5,5	80
PR4H 2005	2100	3	4	5	150	130	12	3600	970	1140	875	2690	4	80
PR4H 2006	2100	4	5	6	170	140	15	3600	970	1140	865	2920	5,5	80
PR4H 2008	2100	5	6	8	200	160	30	4000	1200	1210	840	4340	7,5	120
PR4H 2010	2100	6	8	10	220	170	30	4000	1200	1210	830	4570	7,5	120
PR4H 2015	2100	9	12	15	260	190	50	4400	1640	1650	1215	9000	11	300
PR4H 2019	2100	12	15	19	300	220	70	4400	1640	1650	1195	10000	15	300
PR4H 2024	2100	15	19	24	330	240	80	4600	1940	1970	1435	11000	18,5	400
PR4H 2030	2100	19	24	30	350	250	80	4600	1940	1970	1425	12000	22	400
PR4H 2037	2100	23	29	37	380	270	80	4650	2230	2280	1670	16000	30	500
PR4H 2043	2100	29	37	43	420	290	80	4650	2230	2280	1650	17000	37	500
PR4H 2048	2100	35	42	48	460	360	90	4700	2320	2400	1800	26400	37+22	750
PR4H 2055	2100	43	50	55	500	390	100	4700	2320	2400	1780	30400	45+22	750
PR4H 2062	2100	50	57	62	550	420	140	5750	2900	2950	1930	40500	37+37	750
PR4H 2509	2600	5	7	9	220	170	30	4500	1200	1210	830	5250	11	120
PR4H 2512	2600	7	9	12	260	190	50	4900	1640	1650	1215	9850	11	300
PR4H 2516	2600	10	13	16	300	220	70	4900	1640	1650	1195	11000	15	300
PR4H 2520	2600	13	16	20	330	240	80	5100	1940	1970	1435	12000	18,5	400
PR4H 2525	2600	16	20	25	350	250	80	5100	1940	1970	1425	13000	22	400
PR4H 2530	2600	19	24	30	380	270	80	5150	2230	2280	1670	17500	22	500
PR4H 2536	2600	24	30	36	420	290	80	5150	2230	2280	1650	19000	30	500
PR4H 2541	2600	29	35	41	460	360	90	5200	2320	2400	1800	29200	30+22	750
PR4H 2550	2600	38	44	50	500	390	100	5200	2320	2400	1780	33200	37+22	750
PR4H 2555	2600	45	50	55	550	420	140	6250	2900	2950	1930	44000	37+37	750
PR4H 3008	3100	4	6	8	220	170	30	5000	1200	1210	830	5800	7,5	120
PR4H 3010	3100	6	8	10	260	190	50	5400	1640	1650	1215	10700	11	300
PR4H 3013	3100	8	10	13	300	220	70	5400	1640	1650	1195	12000	11	300
PR4H 3016	3100	10	13	16	330	240	80	5600	1940	1970	1435	13000	15	400
PR4H 3020	3100	13	16	20	350	250	80	5600	1940	1970	1425	14000	18,5	400
PR4H 3025	3100	16	20	25	380	270	80	5650	2230	2280	1670	19000	22	500
PR4H 3030	3100	20	25	30	420	290	80	5650	2230	2280	1650	21000	30	500
PR4H 3035	3100	25	30	35	460	360	90	5700	2320	2400	1800	32000	30+22	750
PR4H 3042	3100	32	37	42	500	390	100	5700	2320	2400	1780	36000	37+22	750
PR4H 3050	3100	40	45	50	550	420	140	6750	2900	2950	1930	47500	30+30	750
PR4H 3070	3100	50	60	70	640	500	150	7200	3250	3250	2220	67000	45+45	1700
PR4H 3090	3100	70	80	90	760	600	190	7200	3800	4300	3300	100000	55+55	2200
PR4H 4007	4100	3	5	7	260	190	50	6400	1640	1650	1215	12400	11	300
PR4H 4008	4100	4	6	8	300	220	70	6400	1640	1650	1195	14000	11	300
PR4H 4010	4100	6	8	10	330	240	80	6600	1940	1970	1435	15000	15	400
PR4H 4013	4100	8	10	13	350	250	80	6600	1940	1970	1425	16000	15	400
PR4H 4016	4100	10	13	16	380	270	80	6650	2230	2280	1670	22000	18,5	500
PR4H 4020	4100	13	16	20	420	290	80	6650	2230	2280	1650	25000	22	500
PR4H 4024	4100	16	19	24	460	360	90	6700	2320	2400	1800	37600	30	750
PR4H 4028	4100	20	23	28	500	390	100	6700	2320	2400	1780	41600	37	750
PR4H 4033	4100	25	28	33	550	420	140	7750	2900	2950	1930	54500	30+22	750
PR4H 6008	6100	4	6	8	350	250	80	8600	1940	1970	1425	20000	15	400
PR4H 6010	6100	6	8	10	380	270	80	8650	2230	2280	1670	28000	18,5	500
PR4H 6013	6100	8	10	13	420	290	80	8650	2230	2280	1650	31000	22	500
PR4H 6015	6100	10	12	15	460	360	90	8700	2320	2400	1800	48000	30	750
PR4H 6019	6100	12	15	19	500	390	100	8700	2320	2400	1780	52000	37	750
PR4H 6024	6100	16	19	24	550	420	140	9750	2900	2950	1930	68000	30+22	750

The mentioned values above is only works for 260 N/mm<sup>2</sup> yield strength plates  
 Different materials and widths ; can be calculated by JMT Roll Bending Calculator  
 Conic bending capacities depends on the angle and half value of above mentioned values  
 Weight and motor powers optionally goes higher levels with additional  
 Min. thicknesses are half of the above mentioned values with std. roll crowning.

PLANETARY ROLLS SYSTEM  
Top Roll: Ø140-Ø220 mm

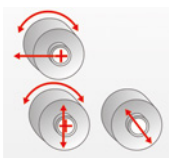


RECTILINEAR ROLLS SYSTEM  
Top Roll: Ø260-Ø760 mm





This hydraulic model is designed for light to medium jobs. It is used in jobs up to 10 mm thickness materials. It is used in Aluminium Bendings, Air Conditioning Channels, Advertising Panels and Machine Sheet Metal Cover Parts.



Standard Hydraulic Drop-End



Standard Control Panel With Digital Read-Out



## STANDARDS

- Steel welded main frames
- Hydraulic Drop-End
- Mobile control panel
- Motor powered central rolls
- Hydraulic movement of back roll&bottom roll
- Main motor with brake system
- Conical bending, Pre-Bending available
- Planetary Gearbox two rolls driven
- Back roll with ball bearings
- Hardened rolls
- 2 pcs. digital Read-Outs
- SAE 1050 (CK45) certificated forged steel rolls with high tensile strength

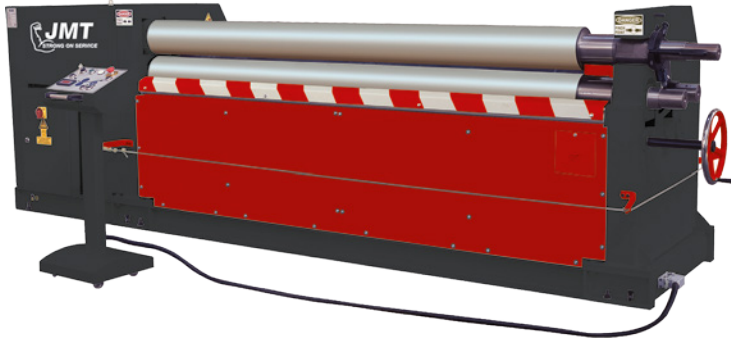
## OPTIONS

- Overhead crane for large diameters
- Hydraulic lateral side supports
- Ground and polished rolls for special rolls

MODEL	BENDING LENGTH	PRE BENDING CAPACITY Ødx1,5	PRE BENDING CAPACITY Ødx5	BENDING CAPACITY Ødx5	CENTRAL ROLLS	BACK ROLLS	WORKING SPEED	LENGTH	WIDTH	HEIGHT	WEIGHT	MOTOR POWER
	mm	mm	mm	mm	Ød(mm)	mm	m/min	mm	mm	mm	kg	kW
PRMHS 0635	650	2,5	3	3,5	80	80	5	1950	950	960	800	1,1+0,75
PRMHS 1025	1050	1,5	2	2,5	80	80	5	2350	950	960	920	1,1+0,75
PRMHS 1220	1270	1	1,5	2	80	80	5	2570	950	960	950	1,1+0,75
PRMHS 1230	1270	1,5	2	3	100	90	6,5	2570	950	960	1150	1,1+0,75
PRMHS 1250	1270	3	4	5	130	130	5	3020	1150	1110	1750	2,2+0,75
PRMHS 1270	1270	4	5	7	150	130	6	3020	1150	1110	1825	2,2+1,1
PRMHS 1210	1270	5,5	7,5	10	180	150	5	3070	1350	1290	2100	4,0+1,1
PRMHS 1212	1270	8	10	12	200	180	6	3070	1350	1290	2200	4,0+1,5
PRMHS 1515	1550	0,5	1	1,5	80	80	5	2850	950	960	1100	1,1+0,75
PRMHS 1520	1550	1	1,5	2	100	90	6,5	2850	950	960	1200	1,1+0,75
PRMHS 1545	1550	2,5	3,5	4,5	130	130	5	3300	1150	1110	1850	2,2+0,75
PRMHS 1565	1550	3,5	4,5	6,5	150	130	6	3300	1150	1110	2000	2,2+1,1
PRMHS 1590	1550	5	7	9	180	150	5	3350	1350	1290	2310	4,0+1,1
PRMHS 15110	1550	7	9	11	200	180	6	3350	1350	1290	2450	4,0+1,5
PRMHS 15120	1550	8	10	12	220	180	5	3500	1500	1370	3250	5,5+1,5
PRMHS 15150	1550	10	12	15	250	200	5	3500	1500	1370	3600	7,5+1,5
PRMHS 2040	2050	2	3	4	130	130	5	3800	1150	1110	2050	2,2+0,75
PRMHS 2060	2050	3	4	6	150	130	6	3800	1150	1110	2250	2,2+1,1
PRMHS 2080	2050	4	6	8	180	150	5	3850	1350	1290	2690	4,0+1,1
PRMHS 20100	2050	6	8	10	200	180	6	3850	1350	1290	2950	4,0+1,5
PRMHS 20110	2050	7	9	11	220	180	5	4000	1500	1370	3750	5,5+1,5
PRMHS 20120	2050	8	10	12	250	200	5	4000	1500	1370	4200	7,5+1,5
PRMHS 2540	2550	2	3	4	150	130	6	4300	1150	1110	2500	2,2+1,1
PRMHS 2560	2550	3	4	6	180	150	5	4350	1350	1290	3070	4,0+1,1
PRMHS 2580	2550	4	6	8	200	180	6	4350	1350	1290	3450	4,0+1,5
PRMHS 2590	2550	5	7	9	220	180	5	4500	1500	1370	4250	5,5+1,5
PRMHS 25100	3050	6	8	10	250	200	5	4500	1500	1370	4800	7,5+1,5
PRMHS 3040	3050	2	3	4	180	150	5	4850	1350	1290	3450	4,0+1,1
PRMHS 3060	3050	3	4	6	200	180	6	4850	1350	1290	3950	4,0+1,5
PRMHS 3080	3050	4	6	8	220	180	5	5000	1500	1370	4750	5,5+1,5
PRMHS 3090	3050	5	7	9	250	200	5	5000	1200	1370	5400	7,5+1,5

\* Plate bending capacities are given for 260 N/mm<sup>2</sup> plate yield strength.

## PRMS SERIES ROLL BENDING MACHINES



This model is designed for light to medium jobs. It is used in jobs up to 10 mm thickness materials. It is used in Aluminium Bendings, Air Conditioning Channels, Advertising Panels and Machine Sheet Metal Cover Parts.

### STANDARDS

- Two rolls powered by a single chain and belt driven Helical type Gearbox and gear system
- Steel welded main frames
- Mechanical manual openable Drop-End
- Mobile control panel
- Conical bending device
- Central lubrication system
- Top roll support system
- Precision bending with brake motor
- Motorised adjustment of back roll

### OPTIONS

- Control Panel With Digital Read-Out
- Induction hardened rolls
- Motorised bottom roll
- Extended Roll Shafts For Profile Bending and Section Bending Rolls Set



Standart Manual Drop-End

Optional Digital Read-Out

Optional Extended Roll Shafts For Profile Bending and Section Bending Rolls Set

MODEL	BENDING LENGTH	PRE BENDING CAPACITY Ødx1,5	PRE BENDING CAPACITY Ødx5	BENDING CAPACITY Ødx5	ROLLS dia.	LENGTH	WIDTH	HEIGHT	WEIGHT	MOTOR POWER	BACK ROLL MOTOR
	mm	mm	mm	mm	mm	mm	mm	mm	kg	mm	kW
PRMS 1070	1050	5	6	7	130	2750	650	1020	1200	2,2	1,1
PRMS 1080	1050	6	7	8	150	2750	680	1040	1450	3	1,1
PRMS 1090	1050	7	8	9	170	2850	720	1050	1600	4	1,1
PRMS 10100	1050	8	9	10	190	3200	950	1300	2450	4	1,5
PRMS 1560	1550	4	5	6	130	3250	650	1020	1400	2,2	1,1
PRMS 1570	1550	5	6	7	150	3250	680	1040	1650	3	1,1
PRMS 1580	1550	6	7	8	170	3350	720	1050	1850	4	1,1
PRMS 1590	1550	7	8	9	190	3700	950	1300	2750	4	1,5
PRMS 2040	2050	2	3	4	130	3750	650	1020	1600	2,2	1,1
PRMS 2050	2050	3	4	5	150	3750	680	1040	1885	3	1,1
PRMS 2060	2050	4	5	6	170	3850	720	1050	2100	4	1,1
PRMS 2070	2050	5	6	7	190	4200	950	1300	3100	4	1,5
PRMS 2540	2550	2	3	4	150	4250	650	1020	2150	3	1,1
PRMS 2550	2550	3	4	5	180	4350	950	1300	3050	4	1,5
PRMS 2560	2550	4	5	6	190	4700	950	1300	3400	4	1,5
PRMS 2570	2550	5	6	7	220	4700	1150	1400	5000	5,5	2,2
PRMS 3030	3050	1,5	2	3	160	4850	720	1050	2650	4	1,1
PRMS 3040	3050	2	3	4	190	5200	950	1300	3750	4	1,5
PRMS 3050	3050	3	4	5	200	5200	950	1300	4000	4	1,5
PRMS 3060	3050	4	5	6	220	5200	1150	1400	6000	5,5	2,2

\* Plate bending capacities are given for 260 N/mm<sup>2</sup> plate yield strength.





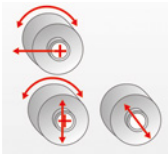
This mechanical model is designed for light to medium jobs. It is used in jobs up to 5 mm thickness materials. It is used in Aluminium Bendings, Air Conditioning Channels, Advertising Panels and Sheet Metal Covers. Its ideal price makes it very attractive for small workshops.

## STANDARDS

- Two rolls powered by a single gearbox and gear system for top and bottom rolls.
- SAE 1050 Quality certificated steel rolls with high tensile strength.
- Spheroid cast iron main frames.
- Mobile control panel by foot pedal.
- Conical Bending Device.
- Manual Drop-End.
- Top roll support system.
- Wire grooves at the end of the rolls
- Precision bending with brake motor

## OPTIONS

- Control Panel With Digital Read-Out
- Motorised back roll adjustment
- Induction hardened rolls



Standart  
Manual Drop-End



Optional Control Panel  
With Digital Read-Out



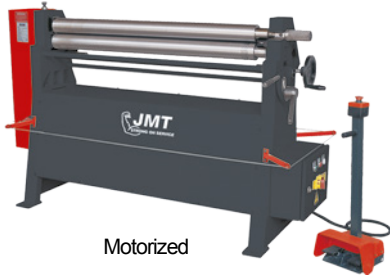
MODEL	USEFULL LENGTH	PRE-BENDING CAPACITY Ødx1,5	BENDING CAPACITY Ødx5	ROLLS dia.	MACHINE DIMENSIONS (LxWxH)	WEIGHT	MOTOR POWER	BACK ROLL MOTOR
	mm	mm	mm	mm	mm	kg	kW	kW
PRMC 1040	1050	2,5	4	110	2200x750x1000	990	2,2	0,75
PRMC 1050	1050	3,5	5	130	2200x750x1000	1200	2,2	0,75
PRMC 1240	1270	2,5	4	120	2470x750x1000	1110	2,2	0,75
PRMC 1250	1270	3,5	5	140	2470x750x1000	1350	2,2	0,75
PRMC 1530	1550	2	3	110	2700x750x1000	1200	2,2	0,75
PRMC 1540	1550	2,5	4	140	2700x750x1000	1420	2,2	0,75
PRMC 2020	2050	1,5	2	110	3200x750x1000	1380	2,2	0,75
PRMC 2030	2050	2	3	130	3200x750x1000	1500	2,2	0,75
PRMC 2040	2050	2,5	4	140	3200x750x1000	1650	2,2	0,75
PRMC 2525	2550	1,7	2,5	140	3700x750x1000	1850	2,2	0,75

\* Plate bending capacities are given for 260 N/mm<sup>2</sup> plate yield strength.

## SRMM-SRM & PR4HC SERIES ROLL BENDING MACHINES



### SRMM SERIES



Motorized

### SRM SERIES



Manual

### STANDARDS

- Top and bottom rolls powered by a single gearbox and gear system (SRMM)
- SAE 1050 Quality Certificated steel rolls
- Cast iron main frames
- Mobile control panel by foot pedal (SRMM)
- Conical bending device
- Manual Drop-End
- Wire grooves at the end of the rolls
- Precision bending with brake motor (SRMM)

### OPTIONS

- Control Panel With Digital Read-Out (SRMM)
- Motorised back roll adjustment (SRMM)
- Induction hardened rolls

This mechanical model is designed for light to medium jobs. It is used in jobs up to 3 mm thickness materials. It is used in Aluminium Bendings, Air Conditioning Channels, Advertising Panels and Sheet Metal Covers. Its ideal price makes it very attractive for small workshops.

MODEL		SRM 1008	SRM 1010	SRM 1015	SRM 1020	SRM 1030	SRM 1212	SRM 1215	SRM 1225	SRM 1510	SRM 1512	SRM 1520	SRM 2010	SRM 2015
USEFULL LENGTH	mm	1050	1050	1050	1050	1050	1270	1270	1270	1550	1550	1550	2050	2050
BENDING CAPACITY	mm	0,8	1,0	1,5	2,0	3,0	1,2	1,5	2,5	1,0	1,2	2,0	1,0	1,5
ROLL dia.	mm	46	56	68	75	90	68	75	90	68	75	90	75	95
LENGTH	mm	1400	1400	1930	1930	2080	2150	2150	2300	2430	2430	2580	2930	3080
WIDTH	mm	700	700	700	700	700	700	700	700	700	700	700	700	700
HEIGHT	mm	1120	1120	1160	1160	1250	1160	1160	1250	1160	1160	1250	1160	1250
WEIGHT	kg	160	185	280	300	410	310	330	450	350	365	560	525	650

MODEL		SRMM 1008	SRMM 1010	SRMM 1015	SRMM 1020	SRMM 1030	SRMM 1212	SRMM 1215	SRMM 1225	SRMM 1510	SRMM 1512	SRMM 1520	SRMM 2010	SRMM 2015
USEFULL LENGTH		1050	1050	1050	1050	1050	1270	1270	1270	1550	1550	1550	2050	2050
BENDING CAPACITY		0,8	1,0	1,5	2,0	3,0	1,2	1,5	2,5	1,0	1,2	2,0	1,0	1,5
ROLL dia.		46	56	68	75	90	68	75	90	68	75	90	75	95
MOTOR POWER		0,75	0,75	1,5	1,5	1,1	1,5	1,5	1,1	1,5	1,5	1,5	1,5	1,5
LENGTH		1500	1500	1610	1610	1630	1830	1830	1850	2110	2110	2130	2610	2630
WIDTH		700	700	700	700	700	700	700	700	700	700	700	700	700
HEIGHT		1120	1120	1160	1160	1200	1160	1160	1200	1160	1160	1200	1160	1200
WEIGHT		210	240	340	385	455	375	400	490	400	430	545	590	665

Minimum diameter top roll ØX5 time / \* Plate bending capacities are given for 260 N/mm<sup>2</sup> plate yield strength.

### PR4HC SERIES



This hydraulic model is designed for conical bending jobs.

### STANDARDS

- Very suitable for bending conical of light plates, aluminum or stainless steel materials bending
- Pinch Roll and Lateral Rolls move with hydraulic pistons
- Overload Protection
- Four rolls are powered by electrical motor and planetary gearbox
- Special polished rolls
- Five digital readouts for easy roll positioning
- Hydraulic Drop-End for easy removal of ferrule
- Easy operation with Mobile Control Panel
- Welded Steel frames
- Induction hardened rolled SAE 1050 (CK 45) Steel Rolls
- Conical Bending device and cone machined rolls

MODEL	USEFULL LENGTH	BENDING CAPACITY	BIGGEST ROLL dia.	SMALLEST ROLL dia.	MOTOR POWER	WORKING SPEED	MACHINE DIMENSIONS	WEIGHT
	mm	mm	mm	mm	kW	m/min	mm	kg
PR4HC 1030	1050	3	155	40	2.2 + 1.1	5	3200x1150x1100	2000

Plate bending capacities are given for 260 N/mm<sup>2</sup> plate yield strength.

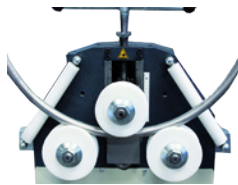


### JMT ARM & ARH SERIES ANGLE ROLLS

Robust machine frame is constructed of rugged steel, machined after welding for rigidity. All welds are stress relieved prior to machining. Precision bearings and large shaft diameters minimize deflection for precise bending. Machines are ensured a long life due to their strong frame and world-class hydraulic and electrical components. Short cycle times are achieved by high torque drive system and machine speed. Straight edge is minimized by close roll stance, powerful guide rolls and hydraulic adjustments. Flat spots are minimized due to closer roll stance. Low energy and maintenance costs by friction-free planetary swing guides. If you need to bend bar metal stock or tubing, then a JMT Angle Roll is the best machine for the job. JMT offers 3-roll, 4-roll hydraulic or mechanical machines capable of forming a variety of profiles including square or rectangular solids, I-section, T-section and C-section bars, as well as, square, rectangular and round tubing.



Optional Stairway Bending Attachment



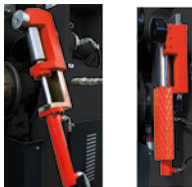
Optional plastic rolls for aluminum and stainless steel



Optional Digital Readouts



Optional NC Control



Optional Hydraulic Lateral Guide Rolls



Optional Pipe, tube and profile bending rolls



Optional IPN Beam Bending Attachment



Optional Vertical Support

# ARM - ARH - AR4H SERIES ANGLE ROLLS



## ARM 30

### STANDARDS

- Two bottom rolls are powered
- Direct drive power system with gear
- Top roll is idle
- Double speed motor
- Standard rolls
- Horizontal and vertical working position

### OPTIONS

- Pipe/Tube bending rolls
- Profile bending rolls
- Angle bending rolls
- Digital readout
- Special lateral angle guide rolls



## ARM 35

### STANDARDS

- Two rolls direct driven by a gear system
- Standard rolls
- Horizontal and vertical working position

### OPTIONS

- Pipe / Tube bending rolls
- Angle bending rolls
- Digital Read-Out
- Special lateral angle guides



## ARH 50 - ARH 60

### STANDARDS

- 3 Rolls are motor driven
- Top roll hydraulic moveable up-down
- Hardened standard rolls
- Horizontal and vertical working position
- Brake motor equipped for the precision bending

### OPTIONS

- Pipe / Tube bending rolls
- Profile bending rolls
- Angle bending rolls
- Digital Read-Out
- Optional lateral angle guides
- Optional stairway bending attachment
- NC control



## AR4H 60 - AR4H 80 - AR4H 100

### STANDARDS

- Three rolls are planetary hydraulic powered
- Hardened standard rolls
- Digital Read-Out
- 2-Axis movable hydraulic lateral guide rollers
- 2 Speed working system
- Standard 3+3 manual side supports
- Special design boxer translating type machine, top roll moveable up-down, two bottom rolls moves left-right axis

### OPTIONS

- Infinitely variable speed adjustment
- 3+3 hydraulic supports
- Automation with NC control
- All kind of pipes, tubes, profile rolls and HEB, IPN and UPN beam attachments

## TECHNICAL SPECIFICATIONS

MODELS		ARM 30	ARM 35	ARH 50	ARH 60	AR4H 60	AR4H 80	AR4H 100
Top Roll Shaft	Ømm	30	50	50	60	60	80	100
Lower Rolls Shaft	Ømm	30	50	50	60	60	80	100
Top Roll Diameter	Ømm	148	155	152	215	200	260	320
Lower Rolls Diameters	Ømm	118	155	162	215	200	260	320
Working Speed	m/min.	2-4	4,5	4,5	4	8	6,4	5
Motor Power	kW	0,70 - 0,85	1,5	1,1	1,5	3	5,5	7,5
Length	mm	600	750	810	1000	1200	1700	2000
Width	mm	800	1000	950	1400	1100	1450	1700
Height	mm	1450	1400	1500	1650	800	1200	1250
Weight	kg	220	400	500	950	1000	2000	3000



### ARH 65 - ARH 80

#### STANDARDS

- 3 Rolls are powered
- Rolls are hardened and ground
- Horizontal and vertical working position
- Hardened standard rolls
- Mobile control panel
- 3 Axis mechanical lateral angle guide rolls
- Brake motor equipped for the precision bending
- Digital Read-Outs

#### OPTIONS

- Pipe, tube and profile bending rolls
- Hydraulic lateral guide rolls (2 axis)
- Automation with NC control



### ARH 100

#### STANDARDS

- 3 Rolls are hydraulic powered by planetary gearbox
- Horizontal and vertical working position
- Hardened standard rolls
- Hardened and ground shafts
- Digital Read-Outs
- 3-Axis mechanical by hand lateral angle guide rolls

#### OPTIONS

- Pipe, tube and profile bending rolls
- 3-Axis hydraulic lateral guide rollers
- Infinitely variable speed adjustment
- Automation with NC control



### ARH 120

#### STANDARDS

- Steel construction welded frame
- 3 Rolls are powered by hydromotor and planetary gearbox Separately
- Hardened and ground shafts made of high tensile special steel
- Hardened standard rolls
- Mobile control panel
- Horizontal and vertical working position
- Two speed working system
- Digital Read-Outs (2 pcs)
- 3 Axis hydraulic lateral angle guide rolls
- Infinitely variable speed adjustment

#### OPTIONS

- All kind of pipes, tubes, profile rolls and IPN and UPN beam attachments are available upon request
- Automation with NC control



### ARH 160 - ARH 180

#### STANDARDS

- 3 Rolls are powered by hydromotor and planetary gearbox Separately
- Hardened and ground shafts made of high tensile special steel
- Hardened standard rolls
- Mobile control panel
- Only horizontal working position
- Two speed working system
- Digital Read-Out (1 pcs)
- 3 Axis hydraulic lateral angle guide rolls

#### OPTIONS

- Infinitely variable speed adjustment
- All kind of pipe, tube, profile rolls and HEB, IPN and UPN beam attachments are available upon request
- Automation with NC control

## TECHNICAL SPECIFICATIONS

MODELS		ARH 65	ARH 80	ARH 100	ARH 120	ARH 160	ARH 180
Top Roll Shaft	Ømm	60	80	100	120	160	180
Lower Rolls Shaft	Ømm	50	70	100	120	160	180
Top Roll Diameter	Ømm	180	245	315	390	500	580
Lower Rolls Diameters	Ømm	180	245	315	390	500	580
Working Speed	m/min.	5	6	7	2 - 7,5	3 - 6	3 - 6
Motor Power	kW	3	4	7,5	15	22	30
Length	mm	1200	1450	2000	2000	2500	2400
Width	mm	850	1000	1450	1650	2350	2600
Height	mm	1200	1400	1700	1900	2600	3200
Weight	kg	1000	1700	3650	4770	10700	12000



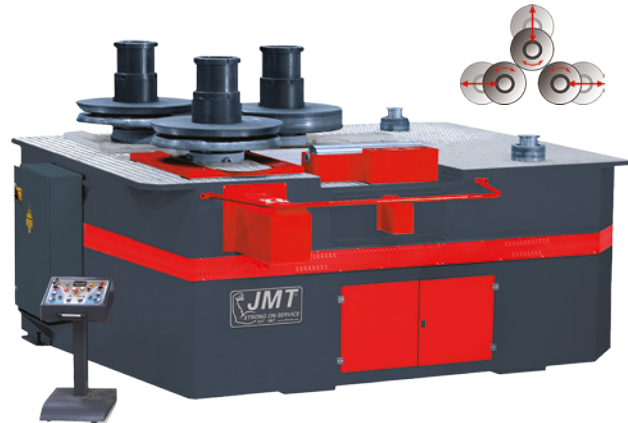
**ARH 150V - ARH 180V - ARH 200V**

**STANDARDS**

- Steel construction welded frame
- 3 Rolls are powered by hydromotor and planetary gearbox Separately
- Hardened and ground shafts made of high tensile special steel
- Hardened standard rolls
- Mobile control panel
- Only horizontal working position
- Two speed working system
- Digital Read-Out (1 pcs)
- 3 Axis hydraulic lateral angle guide rolls

**OPTIONS**

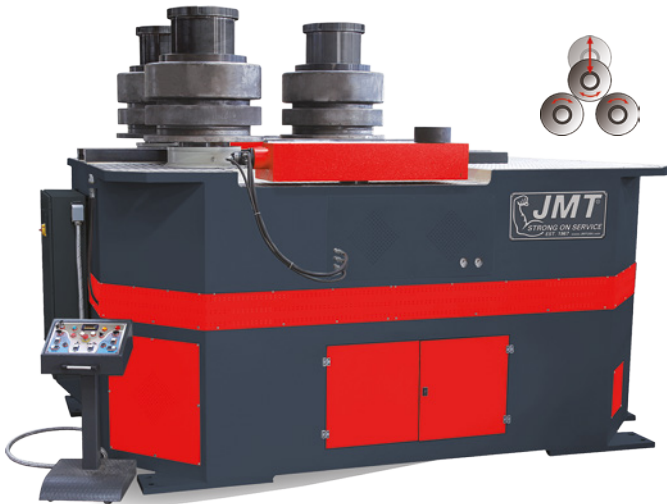
- Infinitely variable speed adjustment
- All kind of pipe, tube, profile rolls and HEB, IPN,UPN beam attachments are available upon request.
- Automation with NC Control



**ARH 200VM - ARH 240VM**

**STANDARDS**

- Designed to bend Dutch profile and large IPE-500 etc
- Three rolls are planetary hydraulic powered
- Steel construction welded frame
- Special hardened and ground shafts
- Hardened standard rolls
- Mobile control panel
- Horizontal working position only
- Digital Read-Out
- 2-Axis movable hydraulic lateral guide rollers
- 2 Speed working system
- Special design boxer translating type machine, top roll moves up-down, two bottom rolls moveable left-right axis.



**ARH 240V - ARH 280V  
ARH 300V - ARH 360V**

**STANDARDS**

- 3 Rolls are powered by hydromotor and planetary gearbox separately
- Hardened standard rolls
- Two speed working system
- Digital Read-Out
- 3 Axis hydraulic lateral angle guide rolls

**OPTIONS**

- Infinitely variable speed adjustment
- All kind of pipe, tube, profile rolls and HEB, IPN and UPN beam attachments are available upon request.
- Automation with NC Control

TECHNICAL SPECIFICATIONS		ARH 150V	ARH 180V	ARH 200V	ARH 200VM	ARH 240VM	ARH 240V	ARH 280V	ARH 300V	ARH 360V
Models										
Top Roll Shaft	Ømm	150	180	200	200	240	240	280	300	360
Lower Rolls Shaft	Ømm	150	180	200	200	240	240	280	300	360
Top Roll Diameter	Ømm	470	580	650	900	900	700	750	800	850
Lower Rolls Diameters	Ømm	470	580	650	900	900	700	750	800	850
Working Speed	m/min.	3 - 6	3 - 6	2 - 5	2 - 5	2 - 5	2 - 4	2 - 4	2 - 4	2 - 4
Motor Power	kW	22	30	30	30	44	44	58	73	77
Length	mm	2400	3350	3400	3200	4300	4200	4200	4750	4750
Width	mm	2200	2300	2400	4000	4950	2950	3200	3300	3300
Height	mm	2200	2300	2300	2350	3150	3200	3300	3400	3400
Weight	kg	8850	12000	15000	22000	35500	28500	35000	38500	55000

# MACHINE CAPACITIES

CAPACITY CHART												
No	Profile Type	ARM 30		ARM 35		ARH 50		ARH 60		ARH 65		Notes
		Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	
1		50 x 10 20 x 6	800 300	60 x 10 40 x 10	500 400	60 x 10 20 x 10	600 300	80 x 20 40 x 10	1200 400	60 x 10 20 x 5	500 250	Standard Rolls
2		80 x 15 30 x 6	700 400	100 x 15 60 x 10	450 350	100 x 15 50 x 10	600 300	120 x 25 50 x 10	600 400	80 x 20 50 x 5	500 250	Standard Rolls
3		30 x 30 10 x 10	900 200	35 x 35 20 x 20	900 300	35 x 35 15 x 15	600 300	50 x 50 20 x 20	800 400	32 x 32 12 x 12	400 250	Standard Rolls
4		Ø 30 Ø 10	900 200	Ø 35 Ø 30	600 400	Ø 35 Ø 20	600 300	Ø 50 Ø 20	800 400	Ø 35 Ø 10	350 250	Optional Rolls
5		Ø 60 x 1,5 Ø 25 x 1,5	1000 600	Ø 70 x 2 Ø 30 x 2	1000 500	Ø 70 x 2 Ø 25 x 1,5	1200 400	Ø 100 x 2 Ø 60 x 2	1600 500	Ø 60 x 2 Ø 15 x 1,5	600 200	Optional Rolls
6		1 1/2" x 2,9 1/4" x 1,8	600 300	2" x 2,9 1" x 2,3	1000 350	2" x 2,9 1/2" x 2,3	1000 300	3" x 3,2 1" x 2,6	1600 500	Ø 2" x 3,91 Ø 1/2" x 2,77	400 200	Optional Rolls
7		50 x 30 x 3 40 x 20 x 2	1200 800	70 x 30 x 2 50 x 40 x 3	1200 1200	70 x 30 x 3 30 x 15 x 2	1500 400	80 x 40 x 3 40 x 20 x 2	1400 500	50 x 25 x 3 20 x 15 x 2	450 250	Optional Rolls
8		40 x 3 30 x 2	1200 800	50 x 3 40 x 3	1700 600	50 x 3 20 x 2	1600 400	70 x 3 40 x 2	1600 500	45 x 3 20 x 2	600 300	Optional Rolls
9		40 x 40 x 5 30 x 30 x 4	600 300	50 x 50 x 5 40 x 40 x 5	800 600	50 x 50 x 6 30 x 30 x 3	600 400	70 x 70 x 7 40 x 40 x 5	1000 500	60 x 60 x 6 30 x 30 x 4	650 350	Optional Rolls
10		35 x 35 x 5 30 x 30 x 4	600 400	50 x 50 x 6 30 x 30 x 3	1000 500	50 x 50 x 6 30 x 30 x 3	900 600	70 x 70 x 7 40 x 40 x 5	1200 600	50 x 50 x 5 30 x 30 x 4	550 350	Optional Rolls
11		50 x 6 20 x 3	600 400	60 x 7 50 x 6	700 500	60 x 7 30 x 4	800 500	80 x 9 40 x 5	1000 400	60 x 7 20 x 3	550 250	Standard Rolls
12		50 x 6 20 x 3	600 400	60 x 7 50 x 6	700 500	50 x 6 30 x 4	800 500	80 x 9 40 x 5	1200 500	50 x 6 20 x 3	500 250	Standard Rolls
13		50 x 6 20 x 3	600 400	60 x 7 50 x 6	700 500	60 x 7 30 x 4	800 500	80 x 9 40 x 5	1000 400	60 x 70 20 x 3	500 250	Optional Rolls
14				UPN 80 UPN 60	1000 700	UPN 80 UPN 30	800 400	UPN 120 UPN 60	800 500	UPN 80 UPN 30	600 250	Standard Rolls
15				UPN 80 UPN 30	1200 800	UPN 80 UPN 30	1200 600	UPN 120 UPN 60	1200 600	UPN 65 UPN 30	600 250	Standard Rolls
16										IPN 80	600	Optional Rolls

Capacities are given for 260 N/mm<sup>2</sup> plate yield strength. / We reserve the right to make changes without notice

CAPACITY CHART																
No	Profile Type	ARH 150V		ARH 180V		ARH200V		ARH 240V		ARH280V		ARH 300V		ARH 360V		Notes
		Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	
1		150 x 35	2500	180 x 30	2500	200 x 50	3500	200 x 70	3800	220 x 80	4000	250 x 100	3000	300 x 100	3000	Standard Rolls
2		270 x 50	1500	280 x 60	2000	350 x 80	2500	380 x 80	2500	450 x 80	2500	500 x 100	2500	550 x 120	3000	Standard Rolls
3		90 x 90	1500	110 x 110	2000	120 x 120	3000	130 x 130	2500	150 x 150	2500	180 x 180	2500	200 x 200	3000	Standard Rolls
4		Ø 90	1800	Ø 110	2000	Ø 120	3000	Ø 150	3000	Ø 180	4000	Ø 200	5000	Ø 225	6000	Optional Rolls
5		Ø 150 x 4	6000	Ø 220 x 4	8000	Ø 273 x 5,6	10000	Ø 300 x 5,9	9000	Ø 320 x 6,3	10000	Ø 350 x 6	10000	Ø 475 x 8,5	15000	Optional Rolls
6		Ø 6" x 7,11	3500	Ø 8" x 8,18	4000	Ø 9" x 6,3	4000	Ø 10" x 9,27	5000	Ø 10"x15,06	6000	Ø 12" x 14,27	8000	Ø 16" x 12,7	12000	Optional Rolls
7		150 x 50 x 5	4500	200x100x8	5000	220x80x7	7000	300x100x10	8000	350x150x10	9000	400x200x10	10000	500 x 250 x 15	-	Optional Rolls
8		120 x 6	4000	150 x 8	4500	180 x 10	5500	200 x 10	6000	220 x 12	7000	260x14	8000	300 x 15	10000	Optional Rolls
9		150x150x18	2200	180x180x20	2500	200x200x20	3000	200x200x24	3000	220x220x22	3500	240x240x28	4000	250 x 250 x 25	6000	Optional Rolls
10		150x150x15	3000	180x180x15	3000	200x200x18	5000	200x200x18	4000	220x220x22	4000	240x240x28	4500	250 x 250 x 25	6000	Optional Rolls
11		150 x 15	2000	160 x 20	2500	200 x 20	3500	200 x 28	3000	220 x 22	3000	240x28	3000	250 x 25	4000	Standard Rolls
12		130 x 15	2500	150 x 20	3000	200 x 20	3500	200 x 20	3500	200 x 28	4000	220 x 22	4000	250 x 25	5000	Standard Rolls
13		150 x 15	2000	160 x 20	2500	200 x 20	4000	200 x 28	3000	220 x 22	3000	240 x 28	3000	250 x 25	4000	Optional Rolls
14		UPN 280	2000	UPN 350	2500	UPN 380	3000	UPN 450	3000	UPN 500	3500	UPN 550	3500	UPN 600	4000	Standard Rolls
15		UPN 280	3000	UPN 350	3000	UPN 380	3500	UPN 450	3500	UPN 500	4000	UPN 550	4000	UPN 600	4500	Standard Rolls
16		IPN 300	3000	IPN 360	3000	IPN 360	3500	IPN 450	3500	IPN 500	4000	IPN 550	4000	IPN 600	5000	Optional Rolls
17		HEB 180	3000	HEB 200	2500	HEB 240	3000	HEB 300	4000	HEB 340	5000	HEB 500	5000	HEB 600	6000	Optional Rolls
18		UPN 160	6000	UPN 220	8000	UPN 260	12000	UPN 260	12000	UPN 280	15000	UPN 300	15000	UPN 400	20000	Optional Rolls
19		IPN 180	4500	IPN 220	5000	IPN 260	10000	IPN 300	12000	IPN 340	12000	IPN 360	10000	IPN 400	20000	Optional Rolls
20		HEB 120	4000	HEB 160	5000	HEB 180	6000	HEB 200	7000	HEB 220	9000	HEB 280	10000	HEB 340	12000	Optional Rolls

Capacities are given for 260 N/mm<sup>2</sup> plate yield strength. / We reserve the right to make changes without notice

# MACHINE CAPACITIES



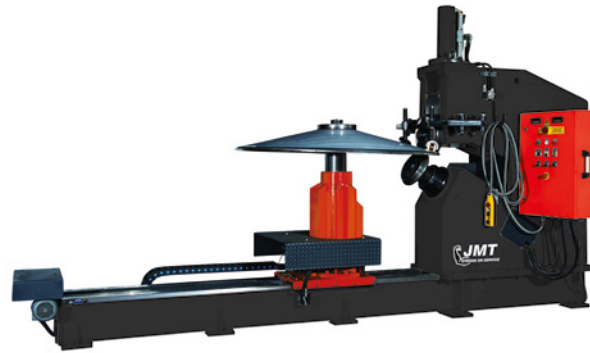
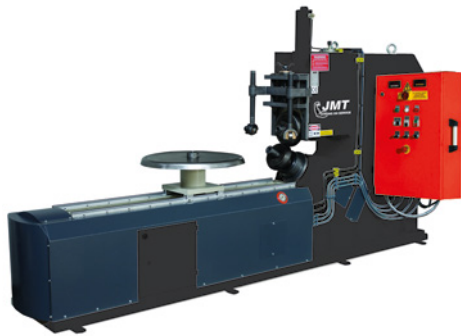
CAPACITY CHART												
No	Profile Type	ARH 80		ARH 100		ARH 120		ARH 160		ARH 180		Notes
		Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	
1		100 x 20 80 x 20 30 x 10	2000 800 300	100 x 20 30 x 10	800 400	125 x 25 30 x 10	1200 500	150 x 40 50 x 10	2500 700	80 x 30 180 x 30	1000 2000	Standard Rolls
2		125 x 25 60 x 5	600 300	200 x 30 160 x 35 80 x 5	1200 800 400	200 x 50 100 x 10	1000 500	280 x 50 120 x 15	1500 700	80 x 20 280 x 60	1000 1800	Standard Rolls
3		45 x 45 15 x 15	500 380	60 x 60 15 x 15	750 400	65 x 65 20 x 20	750 500	90 x 90 30 x 30	1500 700	32 x 32 10 x 110	1000 1800	Standard Rolls
4		Ø 50 Ø 15	500 380	Ø 75 Ø 15	800 450	Ø 80 Ø 20	850 500	Ø 90 Ø 30	1800 700	Ø 35 Ø 110	1000 1500	Optional Rolls
5		Ø 100 x 2,5 Ø 15 x 1	1200 380	Ø 125 x 2,5 Ø 15 x 1	1400 450	Ø 160 x 4 Ø 140 x 3 Ø 50 x 2	2800 1500 500	Ø 180 x 4 Ø 60 x 2	4000 700	Ø 220 x 5 Ø 60 x 2	8000 1000	Optional Rolls
6		Ø 3" x 5,48 Ø 1/2" x 2,77	800 380	Ø 4" x 6,02 Ø 1/2" x 2,77	1000 450	Ø 5" x 6,35 Ø 3/4" x 2,87	1500 500	Ø 6" x 7,11 Ø 1" x 3,78	2500 700	Ø 8" x 8,18 Ø 2" x 3,9	4000 1000	Optional Rolls
7		80 x 25 x 3 25 x 15 x 2	800 350	100 x 40 x 4 25 x 15 x 2	1300 450	120 x 40 x 4 30 x 20 x 3	1800 500	150 x 50 x 5 60 x 30 x 3	3000 700	200 x 100 x 8	5000	Optional Rolls
8		70 x 3 25 x 2	1300 350	80 x 5 25 x 2	1500 450	90 x 5 30 x 2	1800 500	120 x 8 40 x 3	3000 700	150 x 8	4500	Optional Rolls
9		80 x 80 x 8 30 x 30 x 3	800 400	100 x 100 x 12 40 x 40 x 4	1000 700	120 x 120 x 12 40 x 40 x 4	1200 600	150 x 150 x 18 50 x 50 x 5	2200 1000	180 x 180 x 18 60 x 60 x 6	1000 2000	Optional Rolls
10		70 x 70 x 7 30 x 30 x 3	700 450	100 x 100 x 10 40 x 40 x 4	1000 550	100 x 100 x 10 40 x 40 x 4	1200 600	150 x 150 x 15 50 x 50 x 5	3000 1200	180 x 180 x 15 50 x 50 x 5	1000 2500	Optional Rolls
11		80 x 9 25 x 3,5	800 450	100 x 11 30 x 4	1000 400	100 x 11 30 x 4	800 500	150 x 15	2000	160 x 20	2000	Standard Rolls
12		70 x 8 25 x 3,5	800 280	90 x 10 30 x 4	1000 400	100 x 11 30 x 4	1000 500	130 x 15	2500	150 x 20	2500	Standard Rolls
13		80 x 9 30 x 4	800 280	100 x 11 30 x 4	1000 400	100 x 11 30 x 4	800 500	150 x 15	2000	160 x 20	2000	Optional Rolls
14		UPN 140 UPN 120 UPN 100	1600 900 800	UPN 180 UPN 30	900 400	UPN 220 UPN 180 UPN 40	1000 800 500	UPN 300	2000	UPN 80 UPN 350	1000 2000	Standard Rolls
15		UPN 140 UPN 120 UPN 100	1600 1000 800	UPN 180 UPN 30	1000 400	UPN 220 UPN 180 UPN 40	1200 900 600	UPN 300	2500	UPN 65 UPN 350	1000 2500	Standard Rolls
16		IPN 120 IPN 80	600 400	IPN 180 IPN 80	1000 400	IPN 220 IPN 80	1000 500	IPN 300	2500	IPN 360	3000	Optional Rolls
17				HEB 100 HEA 120	1200 1000	HEB 120 HEA 140	1200 1200	HEB 180	3000	HEB 100 HEB 200	1500 2500	Optional Rolls
18						UPN 120 UPN 50	5000 1000	UPN 180 UPN 120	8000 3000	UPN 100 UPN 220	4000 8000	Optional Rolls
19						IPN 160 IPN 140 IPN 80	5000 4000 1200	IPN 200 IPN 100	5000 2000	IPN 100 IPN 220	3500 4500	Optional Rolls
20						HEB 100 HEA 120	1600 3000	HEB 140 HEA 160	2500 4000	HEB 100 HEB 160	3000 4000	Optional Rolls

Capacities are given for 260 N/mm2 plate yield strength. / We reserve the right to make changes without notice

CAPACITY CHART								
No	Profile Type	AR4H 60		AR4H 80		AR4H 100		Notes
		Size	Min. Dia	Size	Min. Dia	Size	Min. Dia	
1		60x10 20x5	500 250	100x20 80x20 30x10	2000 800 300	100x20 30x10	800 400	Standard Rolls
2		80x20 50x5	500 250	125x25 60x5	600 300	200x30 160x35 80x5	1200 800 400	Standard Rolls
3		32x32 12x12	400 250	45x45 15x15	500 380	60x60 15x15	750 400	Standard Rolls
4		Ø 35 Ø 10	350 250	Ø 50 Ø 15	500 380	Ø 75 Ø 15	800 450	Optional Rolls
5		Ø 60x2 Ø 15x1,5	600 200	Ø 100x2,5 Ø 15x1	1200 380	Ø 125"x2,5 Ø 15x1	1400 450	Optional Rolls
6		Ø 2"x3,91 Ø 1/2"x2,77	400 200	Ø 3"x5,48 Ø 1/2"x2,77	800 380	Ø 4"x6,02 Ø 1/2"x2,77	1000 450	Optional Rolls
7		50x25x3 20x15x2	450 250	80x25x3 25x15x2	800 350	100x40x4 25x15x2	1300 450	Optional Rolls
8		40x3 20x2	600 300	70x3 25x2	1300 400	80x5 25x2	1300 450	Optional Rolls
9		60x60x6 30x30x4	650 350	80x80x8 30x30x3	800 450	100x100x12 40x40x4	1500 450	Optional Rolls
10		50x50x5 30x30x4	550 350	70x70x7 30x30x3	700 450	100x100x10 40x40x4	1000 700	Optional Rolls
11		60x7 20x3	550 250	80x9 25x3,5	800 280	100x11 30x4	1000 550	Standard Rolls
12		50x6 20x3	500 250	70x8 25x3,5	800 280	90x10 30x4	1000 400	Standard Rolls
13		60x70 20x3	500 250	80x9 30x4	800 300	100x11 30x4	1000 400	Optional Rolls
14		UPN 80 UPN 30	600 250	UPN 140 UPN 120 UPN 100	1600 900 800	UPN 180 UPN 30	900 400	Standard Rolls
15		UPN 65 UPN 30	600 250	UPN 140 UPN 120 UPN 100	1600 1000 800	UPN 180 UPN 30	1000 400	Standard Rolls
16		IPN 80	600	IPN 120 IPN 80	600 400	IPN 180 IPN 80	1000 400	Optional Rolls

Capacities are given for 260 N/mm2 plate yield strength. / We reserve the right to make changes without notice





### FC6

- One set of flanging rolls included. (R25)
- One set of cutting blades included
- 2 speed part carrier (7-14 m/min) and one speed rotation cutting system
- Top and bottom flanging rolls powered in rotation with planetary reducers
- Manually adjustable sheet centering for both flat and crowned dish flanging
- Both cutting and flanging operation on the same head.

### FC8

- One set of flanging rolls included. (R25)
- One set of cutting blades included.
- 2 Rotation speed part carrier 0,35-0,68 m/sec.
- Top and bottom flanging rolls powered in rotation with independent hydraulic motors coupled to planetary speed reducers (Epiclyclitype) 0,35-0,68 m/min speed adjustable
- Both flat and crowned bottoms flanging.
- Hydraulically adjustable bottom height for both flat and crowned dish flanging.
- Both cutting and flanging operation on the same head.

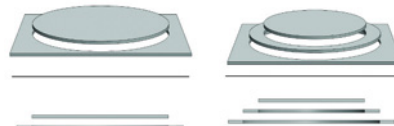
MODELS		FC 6	FC 8
Max. Plate Dia.	Ø mm	4000	4500
Min. Plate Dia.	Ø mm	440	720
Max. Flanging Height	mm	50	150 (R100) - 190 (R25)
Max. Flanging Radius	mm	35	100
Max. Plate Thickness <small>(Considering Mild Steel-Y.P.=26Kg/mm<sup>2</sup>)</small>	mm	6	8
Max. Plate Thickness <small>(Considering Stainless Steel AISI 304-316)</small>	mm	4	5
Motor power	kW	8	10
Length	mm	4250	4600
Width	mm	720	1250
Height	mm	2000	2700
Weight	kg	2050	4400



Edge Flanging



Cutting



## FR SERIES FLANGING & DP SERIES DISHING

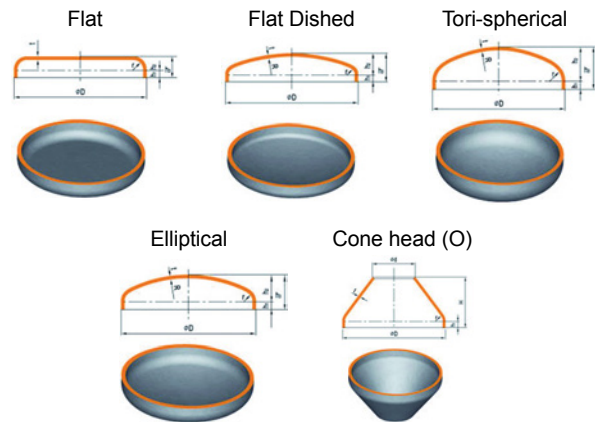


### FR SERIES FLANGING MACHINES

Robust machine frames welded and stress relieved. The structural assembly of the machine assures high sturdiness and stability during the flanging operation. Motorized lower bottom-holder moves on sliders by worm screw. The slides are fixed on the base frame. The hydraulic cylinder which allows bottom height adjustment is fixed on the bottom-holder. The standard machine can flange end caps with hole. But if end caps are without hole we can make bridge type machines. The shaping and flanging rolls, built in high resistance steel and induction hardened, is properly shaped according to the radius of the edge to be obtained. This roll is motorized it means driven by radial pistons hydraulic motors, planetary gearboxes with variable rotation speed. The flanging roll operation may be done in manual or in automatic mode. The bottom supporting rolls is a group of 2 rolls able to support the bottom surface during flanging operation. This group is positioned underneath the shaped roll and is adjustable in height with hydraulic cylinder. The hydraulic system consists of motor pump group and oil tank equipped with all the components for the correct machine operating and safety as filter, level gauges, thermostate, heat exchanger, control valves and solenoid valves all world wide brands. Electrical components protected by current overloading. Control unit has joysticks and push buttons for operate the machine manual and automatic modes.

MODEL		FR 12	FR 16	FR 20	FR 25
Max. Plate Diameter	mm	4000	4000	5000	5000
Min. Plate Diameter	mm	700	800	1000	1200
Max. Flanging Radius	mm	300	300	400	500
Min. Flanging Radius	mm	25	30	30	40
Flanged Total Height	mm	700	800	800	1000
Max. Plate Thickness (Mild Steel - Y.P.= 24Kg/mm <sup>2</sup> )	mm	12	16	20	25
Max. Plate Thickness (SS - AISI 304 - 516 GR 70)	mm	8	10	14	16
Main Motor	kW	37	55	55	55
Additional Motor	kW	7.5	7.5	11	11
Length	mm	4850	5000	5500	6300
Width	mm	1600	1300	1300	1600
Height	mm	3200	2700	2850	4100
Weight	kg	10120	13500	17000	28000

All models available as "No-Hole" models. In no-hole models minimum flange bending sheet diameter changes according to models.



### DP SERIES DISHING STANDARDS

- Steel welded frame
- Easy to operate
- Stop at any position (with limit switch)
- Pressure manometer
- Pressure valve
- Safety valve against overloading
- Mechanical crane for holding the material by hand
- Hydraulic oil cooler

### OPTIONS

- Automatic plate manipulator
- Optional press tools for different shapes

MODELS		DP 150	DP 200	DP 300
Press Power	kN	1500	2000	3000
Max. Pressure	bar	255	255	280
Stroke	mm	500	500	800
Motor Power	kW	11	11	22
Length	mm	6500	6500	7500
Width	mm	10000	10000	12000
Height	mm	3000	3350	3350
Weight	kg	10000	27840	34000



### SP Series Shop Press

- Steel welded frame
- Easy to operate
- Stop at any position
- Pressure monometer
- Safety valve against overloading
- V-Blocks standard ( 2 pcs. )
- Adjustable table height
- Table up-down movement attachment
- Control with special joystick



### MSP Series Shop Press

- Steel welded frame
- Easy to operate
- Stop at any position
- Pressure monometer
- Safety valve against overloading
- V-Blocks standard ( 2 pcs. )
- Adjustable table height
- Table up-down movement attachment
- Control with special joystick
- Right-Left moving piston by hand



### PBP Series Shop Press

- Top gooseneck pressbrake die and holders
- Bottom die with 5 face prism
- Adjustment system for taking down or up the table
- Pressure gradeless adjustment
- Stroke stepless adjustable system
- Adequate work space for large sheet metal
- Manual and two hand working control
- Optional Panbrake Die
- Down mould with different angles
- Down Table Special T-Slots
- Working with footpedal
- Special order of high speed working system

## SP 30

Press Power : 300 kN  
Max. Pressure : 244 bar  
Stroke : 200 mm  
Dia. of piston arm : 125X80  
Advance Speed:7.5 mm/sec  
Working Speed : 5 mm/sec  
Return Speed :10 mm/sec  
Motor power : 3 kW  
Length : 1500 mm  
Width : 700 mm  
Height : 1800 mm  
Weight : 400 kg

## SP 60

Press Power : 600 kN  
Max. Pressure : 236 bar  
Stroke : 250 mm  
Dia. of piston arm:180X120  
Advance Speed : 8 mm/sec  
Working Speed : 4 mm/sec  
Return Speed : 10 mm/sec  
Motor power : 4 kW  
Length : 1710 mm  
Width : 700 mm  
Height : 2100 mm  
Weight : 800 kg

## SP 80

Press Power : 800 kN  
Max. Pressure : 255 bar  
Stroke : 250 mm  
Dia. of piston arm : 200X120  
Advance Speed : 8 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Motor power : 5,5 kW  
Length : 1810 mm  
Width : 750 mm  
Height : 2100 mm  
Weight : 835 kg

## SP 100

Press Power : 1000 kN  
Max. Pressure : 263 bar  
Stroke : 300 mm  
Dia. of piston arm : 220X160  
Advance Speed : 8 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Motor power : 5,5 kW  
Length : 2500 mm  
Width : 1000 mm  
Height : 2200 mm  
Weight : 1500 kg

## SP 100

Press Power : 1000 kN  
Max. Pressure : 263 bar  
Stroke : 300 mm  
Dia. of piston arm:220X160  
Advance Speed : 8 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Motor power : 5,5 kW  
Length : 2500 mm  
Width : 1000 mm  
Height : 2200 mm  
Weight : 1600 kg

## SP 150

Press Power : 1500 kN  
Max. Pressure : 244 bar  
Stroke : 300 mm  
Dia. of piston arm:280X200  
Advance Speed : 9 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Motor power : 11 kW  
Length : 2050 mm  
Width : 1000 mm  
Height : 2270 mm  
Weight : 1870 kg

## MSP 1000

Press Power : 1000 kN  
Max.Working Pressure : 263 bar  
Stroke : 300 mm  
Diameter of piston arm : 220x160 mm  
Advance Speed : 8 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Motor power : 5.5 kW  
Length : 2560 mm  
Width : 1000 mm  
Height : 2480 mm  
Weight : 1755 kg

## MSP 1500

Press Power : 1500 kN  
Max.Working Pressure : 244 bar  
Stroke : 300 mm  
Diameter of piston arm : 280x200 mm  
Advance Speed : 9 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Motor power : 11 kW  
Length : 2560 mm  
Width : 1000 mm  
Height : 2480 mm  
Weight : 2350 kg

## MSP 2000

Press Power : 2000 kN  
Max.Working Pressure : 283 bar  
Stroke : 300 mm  
Diameter of piston arm : 300x210 mm  
Advance Speed : 10 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 20 mm/sec  
Motor power : 15 kW  
Length : 2560 mm  
Width : 1600 mm  
Height : 2700 mm  
Weight : 4800 kg

## PBP 100

Press Power : 1000 kN  
Max.Working Pressure : 263 bar  
Stroke : 300 mm  
Width of Working Area : 1020 mm  
Distance between tables : 680 mm  
Advance Speed : 8 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Die Table Dimension : 500x1020 mm  
Die Table Center Hole : 100 mm Ø  
Motor power : 7.5 kW  
L: 2050mm,W: 1000mm,H:2200mm,1900kg

## PBP 100W

Press Power : 1000 kN  
Max.Working Pressure : 263 bar  
Stroke : 300 mm  
Width of Working Area : 1520 mm  
Distance between tables : 680 mm  
Advance Speed : 8 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Die Table Dimension : 500x1520 mm  
Die Table Center Hole : 100 mm Ø  
Motor power : 7.5 kW  
L: 2050mm,W: 1000mm,H:2200mm,2500kg

## PBP 150

Press Power : 1500 kN  
Max.Working Pressure : 244 bar  
Stroke : 300 mm  
Width of Working Area : 1520 mm  
Distance between tables : 610 mm  
Advance Speed : 9 mm/sec  
Working Speed : 5 mm/sec  
Return Speed : 10 mm/sec  
Die Table Dimension : 600x1520 mm  
Die Table Center Hole : 100 mm Ø  
Motor power : 11 kW  
L: 2500mm,W: 1000mm,H:2380mm,3100kg

## ■ P320 Manual



TECHNICAL DATA					
TYPE				P320	
Cutting Capacity at: 0°	<input type="checkbox"/>	Round	mm	320	
	<input type="checkbox"/>	Flat	mm	400 x 220	
	<input type="checkbox"/>	Square	mm	320	
Cutting Capacity at: 45° right	<input type="checkbox"/>	Round	mm	280	
	<input type="checkbox"/>	Flat	mm	280 x 200	
	<input type="checkbox"/>	Square	mm	260	
Main Drive Motor				kW	1.5
Coolant Pump				kW	0.12
Number of Strokes				1/min	-
Cutting Speed				kW	20 - 100
Band Dimension				m/min	3660 x 27 x 0.9
Working Height				mm	640
Weight				kg	624
Dimensions	Length		mm	1900	
	Width		mm	850	
	Height		mm	1300	

## ■ SP320 Semi Automatic



TECHNICAL DATA					
TYPE				SP320	
Cutting Capacity at: 0°	<input type="checkbox"/>	Round	mm	330	
	<input type="checkbox"/>	Flat	mm	610 x 310	
	<input type="checkbox"/>	Square	mm	330	
Cutting Capacity at: 45° right	<input type="checkbox"/>	Round	mm	320	
	<input type="checkbox"/>	Flat	mm	460 x 180	
	<input type="checkbox"/>	Square	mm	330	
Main Drive Motor				kW	2.2
Hydraulic Pump				kW	0.37
Coolant Pump				kW	0.12
Cutting Speed				m/min	20 - 100
Band Dimension				mm	4160 x 34 x 1.1
Working Height				mm	640
Weight				kg	773
Dimension	Length		mm	2100	
	Width		mm	850	
	Height		mm	1300	

## ■ SC460 Semi Automatic



TECHNICAL DATA						
TYPE				SC325	SC460	SC560
Cutting Capacity at: 0°	<input type="checkbox"/>	Round	mm	325	460	560
	<input type="checkbox"/>	Flat	mm	450 x 325	650 x 460	750 x 560
	<input type="checkbox"/>	Square	mm	325	460	560
Cutting Capacity at: 45° right	<input type="checkbox"/>	Round	mm	250	380	410
	<input type="checkbox"/>	Flat	mm	250 x 325	380 x 460	410 x 560
	<input type="checkbox"/>	Square	mm	250	380	410
Main Drive Motor				kW	2.2	4
Hydraulic Pump				kW	0.55	1.1
Coolant Pump				kW	0.25	0.25
Chip Conveyor Motor				kW	0.12	0.12
Cutting Speed				m/min	20 - 100	20 - 100
Band Dimension				mm	4160 x 34 x 1.1	5200 x 41 x 1.3
Working Height				mm	580	590
Weight				kg	1010	1520
Dimension	Length		mm	2150	3100	3400
	Width		mm	860	1000	1000
	Height		mm	1500	1800	2050

# BANDSAW MACHINES

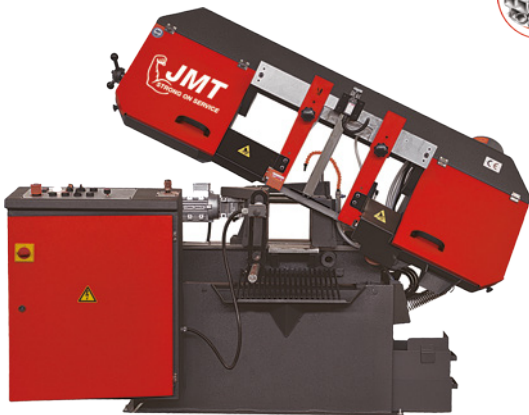


## SC810 SEMI AUTOMATIC



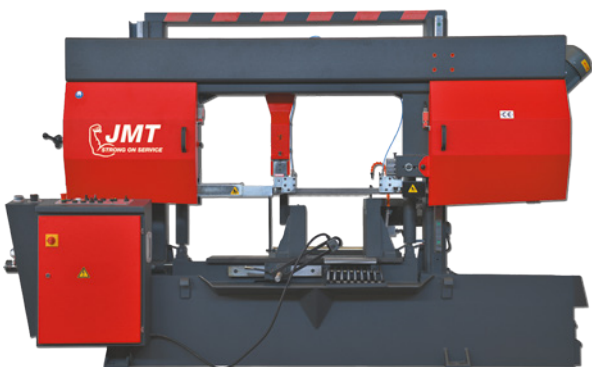
TECHNICAL DATA				SC810	SC1020	SC1110	SC1310
TYPE							
Cutting Capacity at: 0°	<input type="radio"/>	Round	mm	810	1020	1110	1300
	<input type="radio"/>	Flat	mm	810 x 850	1020 x 1020	1100 x 1110	1310 x 1300
	<input type="checkbox"/>	Square	mm	810	1020	1110	1300
Cutting Capacity at: 45° right	<input type="radio"/>	Round	mm	480	675	-	-
	<input type="radio"/>	Flat	mm	480 x 850	675 x 1020	-	-
	<input type="checkbox"/>	Square	mm	480	675	-	-
Main Drive Motor		kW	4	7.5	11	11	
Hydraulic Pump		kW	1.5	2.2	7.5	7.5	
Coolant Pump		kW	0.12	0.12	0.20	0.20	
Chip Conveyor Motor		kW	0.25	0.25	0.25	0.25	
Cutting Speed		m/min	20 - 100	20 - 100	20 - 100	20 - 100	
Band Dimension		mm	8200 x 41 x 1.3	9500 x 54 x 1.6	10500 x 67 x 1.6	11300 x 67 x 1.6	
Working Height		mm	585	535	545	545	
Weight		kg	3080	5860	10440	11500	
Dimension	Length	mm	3900	4500	4800	5300	
	Width	mm	1200	1700	1500	1500	
	Height	mm	2350	2750	2975	3175	

## AP320 AUTOMATIC



TECHNICAL DATA				AP230	AP320	AP440
TYPE						
Cutting Capacity at: 0°	<input type="radio"/>	Round	mm	230	320	440
	<input type="radio"/>	Flat	mm	240 x 230	320 x 300	580 x 440
	<input type="checkbox"/>	Square	mm	230	300	440
Main Drive Motor		kW	1.0 - 1.3	1.5	3	
Hydraulic Pump		kW	0.37	0.37	0.55	
Feed Motor		kW	0.25	0.25	0.55	
Coolant Pump		kW	0.12	0.12	0.12	
Chip Conveyor Motor		kW	-	-	0.25	
Cutting Speed		m/min	35 - 70	20 - 100	20 - 100	
Band Dimension		mm	2730 x 27 x 0.9	3660 x 27 x 0.9	5200 x 34 x 1.1	
Working Height		mm	590	640	735	
Weight		kg	530	765	1435	
Dimension	Length	mm	1700	1900	2630	
	Width	mm	800	850	1110	
	Height	mm	1500	1300	1710	

## AC560 AUTOMATIC



TECHNICAL DATA				AC325	AC460	AC560
TYPE						
Cutting Capacity at: 0°	<input type="radio"/>	Round	mm	325	460	560
	<input type="radio"/>	Flat	mm	350 x 325	470 x 460	570 x 560
	<input type="checkbox"/>	Square	mm	325	460	560
Main Drive Motor		kW	2.2	4	4	
Hydraulic Pump		kW	0.55	0.55	1.1	
Feed Motor		kW	0.12	0.12	0.12	
Coolant Pump		kW	0.25	0.25	0.55	
Chip Conveyor Motor		kW	0.25	0.25	0.25	
Cutting Speed		m/min	20 - 100	20 - 100	20 - 100	
Band Dimension		mm	4160 x 34 x 1.1	5200 x 41 x 1.3	6000 x 41 x 1.3	
Working Height		mm	580	590	590	
Weight		kg	1030	1655	2242	
Dimension	Length	mm	2450	3100	3500	
	Width	mm	900	1000	1050	
	Height	mm	1500	1800	2050	

## AC325NC AUTOMATIC



### TECHNICAL DATA

TYPE				AC325NC	AC460NC	AC560NC
Cutting Capacity at:	0°	<input type="radio"/> Round	mm	325	460	560
		<input type="radio"/> Flat	mm	350 x 325	610 x 460	670 x 560
		<input type="checkbox"/> Square	mm	325	460	560
Main Drive Motor			kW	2.2	4	4
Hydraulic Pump			kW	1.1	1.1	1.1
Coolant Pump			kW	0.12	0.12	0.12
Chip Conveyor Motor			kW	0.25	0.25	0.25
Cutting Speed			m/min	20 - 100	20 - 100	20 - 100
Band Dimension			mm	4360 x 34 x 1.1	5200 x 41 x 1.3	6000 x 41 x 1.3
Working Height			mm	650	645	645
Weight			kg	1600	2700	3500
Dimension		Length	mm	2300	3100	3500
		Width	mm	2200	2200	2200
		Height	mm	1550	1950	2050

## SPM320 SEMI AUTOMATIC MITER



### TECHNICAL DATA

TYPE				SPM320
Cutting Capacity at:	0°	<input type="radio"/> Round	mm	320
		<input type="radio"/> Flat	mm	610 x 320
		<input type="checkbox"/> Square	mm	320
Cutting Capacity at:	75° right	<input type="radio"/> Round	mm	320
		<input type="radio"/> Flat	mm	580x 320
		<input type="checkbox"/> Square	mm	320
Cutting Capacity at:	60°	<input type="radio"/> Round	mm	320
		<input type="radio"/> Flat	mm	510 x 320
		<input type="checkbox"/> Square	mm	320
Cutting Capacity at:	45° right	<input type="radio"/> Round	mm	320
		<input type="radio"/> Flat	mm	355 x 320
		<input type="checkbox"/> Square	mm	320
Cutting Capacity at:	30°	<input type="radio"/> Round	mm	260
		<input type="radio"/> Flat	mm	280 x 200
		<input type="checkbox"/> Square	mm	225
Main Drive Motor			kW	2.2
Hydraulic Pump			kW	0.37
Coolant Pump			kW	0.12
Cutting Speed			m/min	20 - 100
Band Dimension			mm	4160 x 34 x 1.1
Working Height			mm	740
Weight			kg	1165
Dimension		Length	mm	2100
		Width	mm	1200
		Height	mm	1350

## SPDM440 SEMI AUTOMATIC MITER



### TECHNICAL DATA

TYPE				SPDM230	SPDM270	SPDM440
Cutting Capacity at:	0°	<input type="radio"/> Round	mm	230	270	440
		<input type="radio"/> Flat	mm	320 x 130	350 x 220	440 x 610
		<input type="checkbox"/> Square	mm	230	270	440
Cutting Capacity at:	30° right	<input type="radio"/> Round	mm	-	-	440
		<input type="radio"/> Flat	mm	-	-	440 x 500
		<input type="checkbox"/> Square	mm	-	-	440
Cutting Capacity at:	45° right	<input type="radio"/> Round	mm	210	240	410
		<input type="radio"/> Flat	mm	230 x 160	270 x 200	440 x 410
		<input type="checkbox"/> Square	mm	180	170	410
Cutting Capacity at:	60° right	<input type="radio"/> Round	mm	120	150	320
		<input type="radio"/> Flat	mm	120 x 100	150 x 100	440 x 250
		<input type="checkbox"/> Square	mm	100	100	250
Cutting Capacity at:	-30° left	<input type="radio"/> Round	mm	-	-	440
		<input type="radio"/> Flat	mm	-	-	440 x 500
		<input type="checkbox"/> Square	mm	-	-	440
Cutting Capacity at:	-45° left	<input type="radio"/> Round	mm	180	210	410
		<input type="radio"/> Flat	mm	230 x 100	270 x 210	440 x 410
		<input type="checkbox"/> Square	mm	150	180	410
Cutting Capacity at:	-60° left	<input type="radio"/> Round	mm	-	-	320
		<input type="radio"/> Flat	mm	-	-	440 x 285
		<input type="checkbox"/> Square	mm	-	-	285
Main Drive Motor			kW	1.0 - 1.3	1.5	3
Hydraulic Pump			kW	0.37	0.37	0.55
Coolant Pump			kW	0.12	-	0.12
Chip Conveyor Motor			kW	-	0.12	0.25
Cutting Speed			m/min	35 - 70	20 - 100	20 - 100
Band Dimension			mm	2730 x 27 x 0.9	3160 x 27 x 0.9	5200 x 34 x 1.1
Working Height			mm	760	910	860
Weight			kg	430	527	1540
Dimension		Length	mm	1350	1730	2800
		Width	mm	700	770	1210
		Height	mm	1300	1550	1870

# BANDSAW MACHINES



## SCM540 SEMI AUTOMATIC MITER



TECHNICAL DATA				SCM540	SCM810
<b>TYPE</b>					
Cutting Capacity at: 0°	<input type="radio"/>	Round	mm	540	810
	<input type="radio"/>	Flat	mm	750 x 540	810 x 770
Cutting Capacity at: 30° right	<input type="radio"/>	Square	mm	540	770
	<input type="radio"/>	Round	mm	540	700
Cutting Capacity at: 45° right	<input type="radio"/>	Flat	mm	600 x 540	700 x 770
	<input type="radio"/>	Square	mm	540	700
Cutting Capacity at: 60° right	<input type="radio"/>	Round	mm	510	555
	<input type="radio"/>	Flat	mm	455 x 540	555 x 770
Cutting Capacity at: 60° right	<input type="radio"/>	Square	mm	455	555
	<input type="radio"/>	Round	mm	270	300
Cutting Capacity at: 60° right	<input type="radio"/>	Flat	mm	240 x 540	290 x 770
	<input type="radio"/>	Square	mm	240	290
Main Drive Motor			kW	4	4
Hydraulic Pump			kW	1.1	1.5
Coolant Pump			kW	0.12	0.12
Chip Conveyor Motor			kW	0.25	0.25
Cutting Speed			m/min	20 - 100	20 - 100
Band Dimension			mm	6000 x 41 x 1.3	8200 x 41 x 1.3
Working Height			mm	695	725
Weight			kg	2445	4050
Dimension	Length	mm		2900	4020
	Width	mm		1150	1630
	Height	mm		2130	2570

## SCDM440 SEMI AUTOMATIC MITER



TECHNICAL DATA				SCDM440	SCDM560	SCDM650NC
<b>TYPE</b>						
Cutting Capacity at: 0°	<input type="radio"/>	Round	mm	440	560	650
	<input type="radio"/>	Flat	mm	640 x 440	820 x 540	1000 x 600
Cutting Capacity at: 30° right	<input type="radio"/>	Square	mm	440	540	600
	<input type="radio"/>	Round	mm	440	560	650
Cutting Capacity at: 45° right	<input type="radio"/>	Flat	mm	510 x 440	705 x 540	840 x 600
	<input type="radio"/>	Square	mm	440	540	600
Cutting Capacity at: 45° right	<input type="radio"/>	Round	mm	440	550	650
	<input type="radio"/>	Flat	mm	400 x 440	550 x 540	660 x 600
Cutting Capacity at: 60° right	<input type="radio"/>	Square	mm	400	540	600
	<input type="radio"/>	Round	mm	250	360	440
Cutting Capacity at: 60° right	<input type="radio"/>	Flat	mm	250 x 440	360 x 540	440 x 600
	<input type="radio"/>	Square	mm	250	360	440
Cutting Capacity at: -30° left	<input type="radio"/>	Round	mm	440	500	650
	<input type="radio"/>	Flat	mm	510 x 440	705 x 540	840 x 600
Cutting Capacity at: -45° left	<input type="radio"/>	Square	mm	440	540	600
	<input type="radio"/>	Round	mm	390	550	650
Cutting Capacity at: -45° left	<input type="radio"/>	Flat	mm	390 x 440	550 x 540	660 x 600
	<input type="radio"/>	Square	mm	390	540	600
Main Drive Motor			kW	4	4	7.5
Hydraulic Pump			kW	1.1	1.1	4
Coolant Pump			kW	0.12	0.12	0.12
Angel Motor			kW	-	-	0.37
Chip Conveyor Motor			kW	0.25	0.25	0.25
Motorized Swarf Brush			kW	-	-	0.18
Cutting Speed			m/min	20 - 100	20 - 100	20 - 100
Band Dimension			mm	5200 x 41 x 1.3	6800 x 41 x 1.3	8400 x 54 x 1.6
Working Height			mm	800	880	880
Weight			kg	1780	3200	6250
Dimension	Length	mm		3100	3800	4750
	Width	mm		1200	1750	1970
	Height	mm		1910	2350	2630

## APM320NC AUTOMATIC MITER



TECHNICAL DATA				APM320NC
<b>TYPE</b>				
Cutting Capacity at: 0°	<input type="radio"/>	Round	mm	320
	<input type="radio"/>	Flat	mm	610 x 320
Cutting Capacity at: -75° right	<input type="radio"/>	Square	mm	320
	<input type="radio"/>	Round	mm	320
Cutting Capacity at: -60° left	<input type="radio"/>	Flat	mm	580 x 320
	<input type="radio"/>	Square	mm	320
Cutting Capacity at: -60° left	<input type="radio"/>	Round	mm	320
	<input type="radio"/>	Flat	mm	510 x 320
Cutting Capacity at: -45° left	<input type="radio"/>	Square	mm	320
	<input type="radio"/>	Round	mm	320
Cutting Capacity at: -45° left	<input type="radio"/>	Flat	mm	355 x 320
	<input type="radio"/>	Square	mm	320
Cutting Capacity at: -30° left	<input type="radio"/>	Round	mm	260
	<input type="radio"/>	Flat	mm	280 x 200
Cutting Capacity at: -30° left	<input type="radio"/>	Square	mm	225
	<input type="radio"/>	Square	mm	225
Main Drive Motor			kW	2.2
Hydraulic Pump			kW	1.1
Coolant Pump			kW	0.12
Chip Conveyor Motor			kW	0.25
Cutting Speed			m/min	20 - 100
Band Dimension			mm	4160 x 34 x 1.1
Working Height			mm	740
Weight			kg	2060
Dimension	Length	mm		2370
	Width	mm		2400
	Height	mm		1500



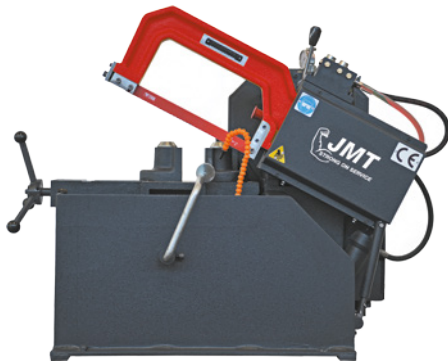
## ACM540 AUTOMATIC MITER



### TECHNICAL DATA

TYPE				ACM325	ACM440	ACM540
Cutting Capacity at: 0°	<input type="radio"/>	Round	mm	325	450	540
	<input type="radio"/>	Flat	mm	400 x 315	610 x 425	670 x 540
	<input type="checkbox"/>	Square	mm	315	425	540
Cutting Capacity at: 30° right	<input type="radio"/>	Round	mm	325	450	540
	<input type="radio"/>	Flat	mm	380 x 315	570 x 425	600 x 540
	<input type="checkbox"/>	Square	mm	315	425	540
Cutting Capacity at: 45° right	<input type="radio"/>	Round	mm	300	450	510
	<input type="radio"/>	Flat	mm	300 x 315	450 x 425	455 x 540
	<input type="checkbox"/>	Square	mm	300	425	455
Cutting Capacity at: 60° right	<input type="radio"/>	Round	mm	200	310	270
	<input type="radio"/>	Flat	mm	200 x 315	310 x 425	240 x 540
	<input type="checkbox"/>	Square	mm	200	310	240
Main Drive Motor			kW	2.2	4	4
Hydraulic Pump			kW	1.1	1.1	1.1
Coolant Pump			kW	0.12	0.12	0.12
Chip Conveyor Motor			kW	0.25	0.25	0.25
Cutting Speed			m/min	20 - 100	20 - 100	20 - 100
Band Dimension			m/min	4380 x 34 x 1.1	5400 x 41 x 1.3	6000 x 41 x 1.3
Working Height			kg	655	705	710
Weight			mm	1860	2480	3840
Dimension	Length		mm	2130	2850	3100
	Width		mm	2150	2100	2350
	Height		m/min	1650	1950	2150

## H170 MANUAL HACKSAW



### TECHNICAL DATA

TYPE				H170
Cutting Capacity at: 0°	<input type="radio"/>	Round	mm	170
	<input type="radio"/>	Flat	mm	200 x 120
	<input type="checkbox"/>	Square	mm	145
Cutting Capacity at: 45° right	<input type="radio"/>	Round	mm	110
	<input type="radio"/>	Flat	mm	110 x 110
	<input type="checkbox"/>	Square	mm	120
Main Drive Motor			kW	0.75
Coolant Pump			kW	-
Number of Strokes			1/min	120
Cutting Speed			kW	-
Band Dimension			m/min	350 x 30 x 1.5
Working Height			mm	430
Weight			mm	265
Dimension	Length		kg	1100
	Width		mm	600
	Height		mm	810

## SCM1400L PLASTIC BANDSAW



### TECHNICAL DATA

TYPE		SCM800L	SCM1400L
<input type="radio"/>	Round 0°	mm	800
<input type="radio"/>	Round 45°	mm	800
<input type="radio"/>	Round 60°	mm	700
Main Motor		kW	4kw~1400rpm
Coolant Motor		kW	0.2kw~2800rpm
Hydraulic Motor		kW	0.37kw~1400rpm
Cutting Speed		m/min	40-160
Blade Size		mm	5800 x 34 x 1.1
Weight		kg	2500
Working Height		mm	680
Machine Dimensions		mm	5200 x 2600 x 3400

# BANDSAW MACHINES STANDARDS & OPTIONS



STANDARDS and OPTIONS	H170	P320	SP320	SC325	SC460	SC560	SC810	SC1020	SC1110	SC1310	AP230	AP320	AP440	AC325	AC460	AC560	AC325NC	AC460NC	AC560 NC	SPM320	SPDM230	SPDM270	SPDM440	SCM540	SCM810	SCDM440	SCDM560	SCDM650NC	APM320NC	ACM325	ACM440	ACM540
1- CONTROL PANEL	S	S	S	-	-	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	-	-	-	-
2- CONTROL PANEL NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	-	-	-	-	-	-	-	-	-	S	S	S	S
3- BLADE BRUSH	-	S	S	-	-	-	-	-	-	-	S	S	S	-	-	-	-	-	-	S	S	S	S	-	-	-	-	-	-	-	-	
4- BLADE BRUSH	-	-	-	S	S	S	S	S	S	S	-	-	-	S	S	S	S	S	S	-	-	-	-	S	S	S	S	S	-	S	S	S
5- BLADE BRUSH MOTORIZED	-	O	O	O	O	O	O	O	S	S	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O
6- HYDRAULIC VICE	-	-	S	S	S	S	S	S	S	S	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
7- HYDRAULIC FEEDING VICE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	-	-	-	-	-	-	-	-	-	S	S	S	S
8- SPLIT VICE	-	-	-	O	O	O	O	O	-	-	-	-	-	-	-	-	S	S	S	-	-	-	-	-	-	-	-	-	-	-	-	
9- SECOND VICE	-	-	-	-	O	O	O	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
10- METARIAL LENGTH STOP	-	S	S	S	S	S	S	-	-	-	S	S	S	S	S	S	S	S	-	S	S	S	S	S	S	S	S	-	-	-	-	
11- SECURITY SWITCH	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
12- HEIGHT ADJUSTMENT SWITCH	-	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
13- SITI HEAVY DUTY GEARBOX	-	S	S	S	S	S	S	S	S	S	-	S	S	S	S	S	S	S	S	-	S	S	S	S	S	S	S	S	S	S	S	
14- INVERTER	-	S	S	S	S	S	S	S	S	S	O	S	S	S	S	S	S	S	S	S	O	S	S	S	S	S	S	S	S	S	S	
15- SENSITIVE PRESSURE ADJUSTMENT	-	-	O	S	S	S	S	S	S	-	O	S	S	S	S	S	S	S	S	O	S	S	S	S	S	S	S	S	O	S	S	
16- HYDROMECHANIC BLADE TENSION	-	S	S	S	S	S	-	-	-	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
17- HYDRAULIC BLADE TENSION	-	O	O	O	O	O	S	S	-	O	O	O	O	O	O	O	O	O	O	-	-	O	O	O	O	O	O	O	O	O	O	
18- COOLANT PUMP	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
19- MECHANIC TOP CLAMPING	-	-	-	-	-	-	-	-	-	-	S	S	S	S	S	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
20- HYDRAULIC TOP CLAMPING	-	-	O	O	O	O	O	O	O	-	-	-	-	-	-	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
21- HYDRAULIC CLAMPING FOR ANGLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	S	-	S	S	S	
22- CHIP CONVEYOR	-	O	O	O	O	O	O	O	S	S	-	O	O	O	O	O	O	O	O	-	-	-	O	O	O	-	-	-	O	O		
23- TURN TABLE	-	O	O	O	O	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
24- VIBRATION CYLINDER	-	-	-	-	-	-	-	-	-	-	-	S	-	-	-	-	-	-	-	-	-	-	S	-	-	-	-	-	-	-		
25- DIGITAL ANGLE DISPLAY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	S	-	S	S	S	
26- LINEAR WAY	-	-	-	S	S	S	S	S	S	S	-	-	S	S	S	S	S	S	S	-	-	-	-	S	S	S	S	-	S	S	S	
27- MICROSPRAY DEVICE	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
28- STAND	-	S	S	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
29- 1,2 MT ROLLER TABLE	-	-	-	S	S	S	S	-	-	S	S	S	S	S	S	-	-	-	S	-	-	-	-	-	-	-	-	-	-	-		
30- 3 MT METARIAL ROLLER TABLE	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
31- OPTICAL HEIGHT ADJUSTMENT	-	-	-	S	S	S	S	S	S	-	-	S	S	S	S	S	S	S	-	-	-	-	S	S	S	S	-	S	S	S		
32- LASER LINE	-	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	
33- PROXIMITY SWITCH for SENSING BLADE SLIPPAGE	-	-	-	O	O	O	O	S	S	-	-	S	S	S	S	S	-	-	-	-	-	-	O	O	O	O	S	S	S	S		

Design and specifications are subject to change without notice.



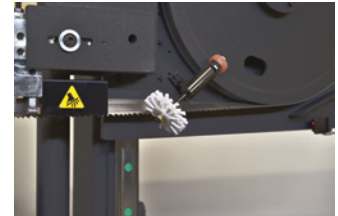
1- CONTROL PANEL



2- CONTROL PANEL NC



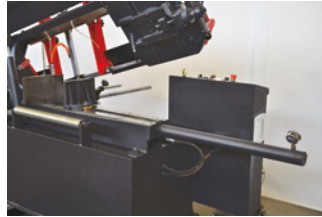
3- BLADE BRUSH



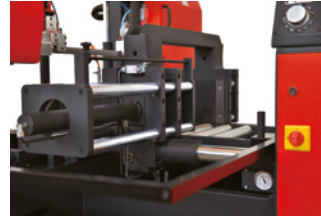
4- BLADE BRUSH



5- MOTORIZED BLADE BRUSH



6- HYDRAULIC VICE



7- HYDRAULIC FEEDING VICE



8- SPLIT VICE



9- SECOND VICE



10- METARIAL LENGTH STOP



11- SECURITY SWITCH



12- HEIGHT ADJUSTMENT SWITCH



13- SITI HEAVY DUTY GEARBOX



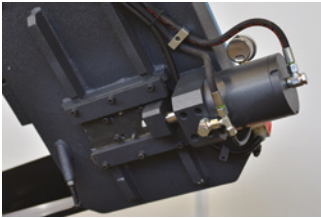
14- INVERTER



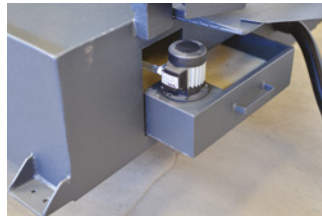
15- SENSITIVE PRESSURE ADJUSTMENT



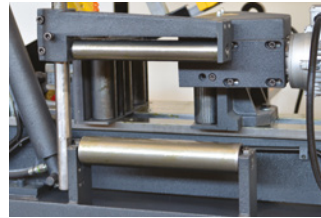
16- HYDROMECHANIC BLADE TENSION



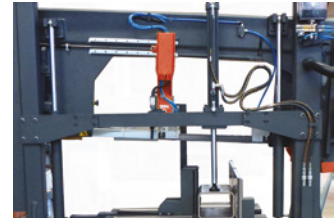
17- HYDRAULIC BLADE TENSION



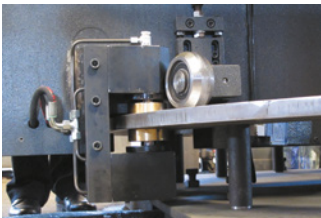
18- COOLANT PUMP



19- MECHANIC TOP CLAMPING



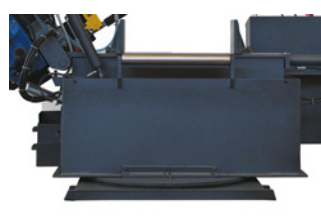
20- HYDRAULIC TOP CLAMPING



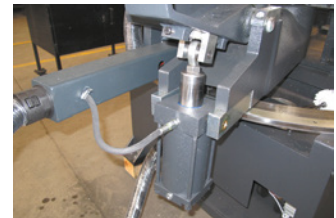
21- HYDRAULIC CLAMPING FOR ANGLE



22- CHIP CONVEYOR



23- TURN TABLE



24- VIBRATION CYLINDER



25- DIGITAL ANGLE DISPLAY



26- LINEAR



27- MICROSPRAY DEVICE



28- STAND



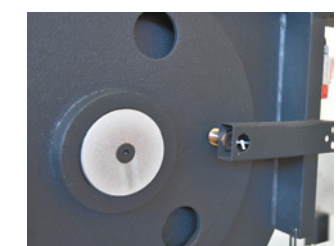
29- 1,2 MT ROLLER TABLE  
30- 3 MT ROLLER TABLE



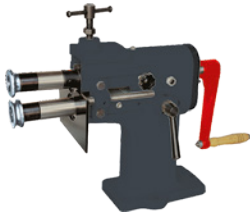
31- OPTICAL HEIGHT ADJUSTMENT



32- LASER LINE



33- PROXIMITY SWITCH FOR SENSING BLADE SLIPPAGE



### BR 0.8 / BR 1.2

- Cast iron heavy duty main frame
- Forward-backward adjustable sheet support
- Easy to carry for workshops
- Forward-backward adjustable bottom shaft
- Rolls shafts are special steel material
- 7 set of rolls standard



### BRM 1.2

- Cast iron heavy duty main frame
- Forward-backward adjustable sheet support
- Gearbox motor with brake system
- Easy to carry for workshops
- Forward-backward adjustable bottom shaft
- Control with foot pedal
- Rolls shafts are special steel material
- 7 set of rolls standard
- Complete with bottom stand



### BRM 2.5 / BRM 4

- Steel welded construction frame
- Adjustable bottom shaft
- Adjustable sheet support
- Steel shafts assembled with bronze bushings
- Gearbox motor with brake system
- Control with foot pedal
- Complete with bottom stand
- 4 Set of rolls standard

MODEL		BR 0.8	BR 1.2	BRM 1.2	BRM 2.5	BRM 4
Shaft Length	mm	110	140	140	250	300
Bordering Capacity	mm	0.8	1.2	1.2	2.5	4
Roll Diameter	Ø mm	52	62	62	96	126
Throat Depth	mm	80	100	100	160	200
Motor Rotation	m/min.	-	-	32	5	5
Motor Power	kW	-	-	0.75	1.5	2.2
Length	mm	380	560	900	1400	1700
Width	mm	180	220	450	550	570
Height	mm	380	500	1350	1120	1200
Weight	kg.	30	50	135	350	500



Optional Hydraulic Top Roll (BRM 2.5 / BRM 4)

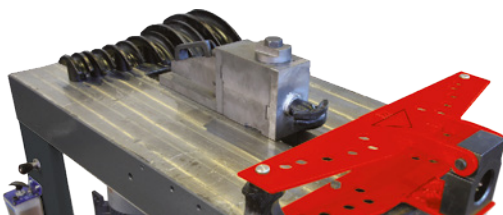


### HHP 22 / HHP 40

- Solid work table made in special spheroid cast iron (HP40)
- Easy adjustable stroke distance from front side
- Hydraulically moving carriage of forged steel with double slides
- Moving beam slid on the table in rigid way
- Die holder pins made in alloy steel with rapid conical change, hardened and ground to obtain a strong lock
- Roomy side tool holder shelves beside the machine

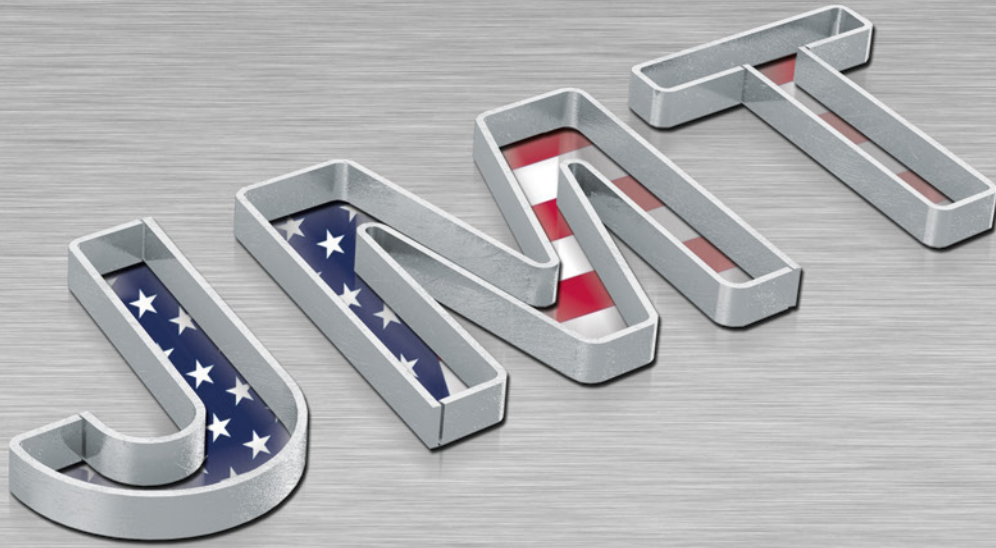
#### OPTIONS

- Special tools to bend pipes and flat bars in required angles
- All kind of special tools can be produced according to customer's request
- NC control system



Optional Pipe Bending Tools

MODEL		HHP 22	HHP 40
Workbench Dimensions	mm	625x1100	620x1050
Workbench Height from the ground	mm	920	930
Max. Operating Pressure	Tonnes	22	40
Max. Operating Pressure (Hydraulic Circuit)	bar	230	250
Motor Power	kW	2.2	4
Advance and Return Speed	m/min.	1750/2000	1750/2000
Mobile Punch Operating Speed	m/min.	450	470
Min./Max. Axis Base Between	mm	110/310	120/370
Mobile and Fixed Pins Height	mm	120	120
Mobile and Fixed Pins Diameters	mm	55/55	55/63
Max. Stroke of Mobile Punch	mm	200	250
Hydraulic Oil Tank Capacity	Lt.	45	70
Noise Level	db	70	70
Machine Dimensions	mm	1100x630x925	1150x700x950
Weight	kg.	635	920



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