



ANGLE ROLLS

PROFILE BENDING MACHINES



**JMT offers quality machine tools
for all your metal fabrication needs.**



JMTUSA.com

Email: JMT@JMTUSA.com

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

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

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 suppliers in the industry.

Led by President Kyle Jorgenson, **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 30,000 square foot showroom, warehouse and service center at its headquarters in Salt Lake City, Utah. **JMT** also has a sales and engineering office in Bursa, Turkey which covers Europe, Asia, and Africa.

A global network of over 30 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.

For more information please visit www.JMTUSA.com
or call toll free **855-773-7727** (855-PRESS-BRAKE).
or email us at JMT@JMTUSA.com.



JMT



The machinery showroom at **JMT's** corporate headquarters.

JMT Angle Rolls

Our Profile Bending Machines Have Many Advantages:

- ♦ 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.

JMT PBM Series

Motorized Profile Bending Machines

JMT motorized profile bending machines are an economical solution for light fabrication.

The two bottom rolls are stationary and the top roll is manually adjusted using the crank bar.

This series of machines works with a wide variety of stock materials making it the ideal choice for fab shops that manufacture different types of parts.



JMT PBH Series

Hydraulic Profile Bending Machines

For moderate to heavy fabrication needs, JMT hydraulic profile bending machines are easier to use, more powerful and more accurate than the motorized rolls.

In this series, the top roll is stationary and the two bottom rolls move. All movements are hydraulically powered. Adjusting the machine is as easy as pushing a button.

The hydraulic controls provide superior accuracy for precision fabrication.

PBH angle rolls can be positioned for use vertically (as shown) or horizontally.

There are a variety of options available with the PBH series that make it easier to bend bigger profiles.



JMT PBM MOTORIZED ANGLE ROLLS

JMT PBM 30 • PBM 50

PBM 30 Mechanical Profile Rolls

Shaft Diameters	1.2"
Roll Diameters	5.9"
Motor Power	1 HP
Turning Speed	11.8 FPM
Dimensions	32" L x 28" W x 47" H
Weight	441 lbs.

PBM 50 Mechanical Profile Rolls

Shaft Diameters	2"
Roll Diameters	6.5"
Motor Power	2 HP
Turning Speed	11.8 FPM
Dimensions	37" L x 29" W x 55" H
Weight	849 lbs.

STANDARD SPECIFICATIONS:

- Standard universal rolls
- Hardened rolls
- Mechanical lateral guide rolls
- Horizontal and vertical operation
- Foot pedal with safety device

OPTIONS:

- Special rolls for tubes, profiles, cap rail, etc.
- Special support rolls for angles
- Special bar twist device
- Digital read out
- Wired or wireless remote
- Infinite variable speed
- Double speed motor (6-12 FPM) for the **PBM 30**



JMT PBH HYDRAULIC ANGLE ROLLS

JMT PBH 45

Shaft Diameters	1.8"
Roll Diameters	6.4"
Motor Power	2 + 2 HP
Turning Speed	12.8 FPM
Dimensions	40" L x 28" W x 54" H
Weight	1,323 lbs.

STANDARD SPECIFICATIONS:

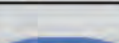
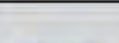
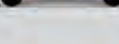
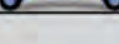
- **Three roll driven**
- Steel construction
- Standard universal rolls
- Hardened rolls
- Mechanical lateral guide rolls
- Programmable digital read out
- Horizontal and vertical operation
- Portable control panel

OPTIONS:

- Special rolls for tubes, profiles, cap rail, etc.
- Special support rolls for angle iron leg/in
- Wired or wireless remote



JMT PBM & PBH ANGLE ROLL TECHNICAL DIMENSIONS

Profile Type			JMT-PBM 30		JMT-PBM 50		JMT-PBH 45		
			Dimensions (in.)	Min.ID * (Ø in)	Dimensions (in.)	Min.ID * (Ø in)	Dimensions (in.)	Min.ID * (Ø in)	
1	Solid - Square		1.125"x1.125" .375"x.375"	25" 8"	1.375"x1.375" .750"x.750"	49" 16"	1.375" x 1.375" .625"x.625"	24" 13"	○
2	Flat - Along Edge		2"x.375" .750"x.250"	28" 12"	2.250"x.375" 1"x.375"	32" 14"	2.250"x.375" .750"x.375"	24" 12"	○
3	Solid - Rectangle		3"x.500" 1"x.250"	27" 20"	3"x.375" 1.375"x.375"	30" 19"	3"x.625" 2"x.750"	24" 18"	○
4	T-Section Leg-Down		2"x.187" .750"x.125"	24" 16"	2.250"x.250"	36"	2"x.187" .750"x.125"	26" 12"	○●
5	T-Section Leg-Out		2"x.187" .750"x.125"	24" 16"	2.250"x.250"	36"	2"x.187" .750"x.125"	26" 12"	○●
6	T-Section Leg-In		2"x.187" .750"x.125"	24" 16"	2.250"x.250"	40"	2"x.187" .750"x.125"	32" 12"	○●
7	Angle Leg-Out		1.500"x1.500"x.187" 1"x.125"	20" 13"	1.750"x.187" 1.5"x.125"	34" 20"	2"x2"x.187" 1"x1"x.125"	24" 16"	○◇
8	Angle Leg-In		1.500"x1.500"x.187" 1"x.125"	24" 16"	1.750"x.187" 1.125"x.125"	48" 32"	2"x2"x.187" 1"x1"x.125"	36" 24"	○◇
9	Tubing - Square		1.500"x1.500"x.125"	∞	2"x2"x.100"	∞	1.750"x1.750"x.100"	∞	○●
10	Tubing - Rectangular		2"x1"x.125"	∞	2"x1.5"x.100"	∞	2"x1"x.100"	∞	○●
11	Solid - Round		Ø 1.125" Ø .375"	25" 8"	Ø 1.375" Ø .500"	32" 12"	Ø 1.375" Ø .750"	24" 12"	●
12	Schedule 40 Pipe		Ø 2" Ø ¼"	32" 12"	Ø 1 ½" Ø 3/8"	26" 14"	Ø 2" Ø ¾"	40" 14"	●
13	Tubing - Round		Ø 2.500"x.125" Ø .750"x.125"	40" 22"	Ø 2.750"x.062" Ø 1.5"x.062"		Ø 2.375"x.062" Ø 1.125"x.062"	40" 18"	●
14	C-Section Leg-Out		2"x.125"	18"	-	-	C3 x 5#	32"	●
15	C-Section Leg-In		2"x.125"	22"	-	-	C3 x 5#	48"	●

Capacity based on mild steel | ∞ Can be changed according to deformation | ○ Standard Rolls | ● Special Rolls | ◇ Special Tools/Apparatus | ** Hyd. ZCU

Disclaimer: Specifications listed for the minimum internal diameters are best approximations. The material's chemical composition influences yield strength and hardness, which can affect the rolling parameters. JMT does not guarantee that you will achieve the same results listed on this sheet.

JMT PBH HYDRAULIC ANGLE ROLLS

JMT PBH 60 • PBH 80 • PBH 100 • PBH 125



PBH 60

Shaft Diameters:

Top.....	2.362"
Planetary (2).....	2.362"
Roll Diameters	7"
Motor Power	3 + 2 HP
Turning Speed	17 FPM
Dimensions.....	46" L x 39" W x 46" H
Weight	2,627 lbs.

PBH 80

Shaft Diameters:

Top.....	3.346"
Planetary (2).....	3.346"
Roll Diameters	9.7"
Motor Power	10 HP
Turning Speed	23 FPM
Dimensions.....	62" L x 47" W x 56" H
Weight	5,170 lbs.

PBH 100

Shaft Diameters:

Top.....	4.33"
Planetary (2).....	3.94"
Roll Diameters	12.4"
Motor Power	15 HP
Turning Speed	26 FPM
Dimensions.....	69" L x 53" W x 65" H
Weight	7,392 lbs.

PBH 125

Shaft Diameters:

Top.....	5.5"
Planetary (2).....	4.7"
Roll Diameters	15"
Motor Power	20 HP
Turning Speed	29 FPM
Dimensions.....	73" L x 61" W x 66" H
Weight	10,120 lbs.

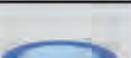
STANDARD SPECIFICATIONS:

- 1 set of standard universal hardened and ground rolls (special steel)
- Drive systems:
 - **PBH 60:** All three rolls (shafts) are driven through precision gear box
 - **PBH 80/100/125:** All three rolls (shafts) are hydraulic motor driven through planetary gear box
- Three-axis hardened side supports (lateral guide rolls):
 - **PBH 60/80:** Mechanical forward-backward (Thrust ↔), up-down (Translation ↑) and right-left (Radial ↻) movement
 - **PBH 100:** Hydraulic forward-backward movement (Thrust ↔) and mechanical up-down (Translation ↑) and right-left (Radial ↻) movement
 - **PBH 125:** Hydraulic control of lateral guide rolls in three axes (Thrust ↔ / Translation ↑ / Radial ↻)
- Side supports will accommodate leg-in/leg-out angle iron bending
- Portable control panel with programmable DROs
- Vertical or horizontal operation
- Body constructed of stress-relieved steel
- Bottom roll shafts hydraulically adjusted
- World standard electrical/hydraulic components (parts stocked by JMT or available off-the-shelf from your local supplier)

OPTIONS:

- Special rolls for pipe, profiles, bar/angles, etc.
- Rolls and tooling for hardway beam/channel bending
- Digital readout for side supports
- NC control system – with or without axis
- CNC control system
- Wired or wireless remote
- Adjustable turning speed
- Spiral bending apparatus
- Tie Bar for rolls on **PBH 60/80**
- Hydraulic side supports (per axis) for **PBH 60/80**
- Hydraulic control of lateral guide rolls in additional 2 axes (Translation ↑ / Radial ↻) for **PBH 100**
- Special apparatus to prevent deformation on U-I-H bending for **PBH 100/125**

JMT PBH ANGLE ROLL TECHNICAL DIMENSIONS

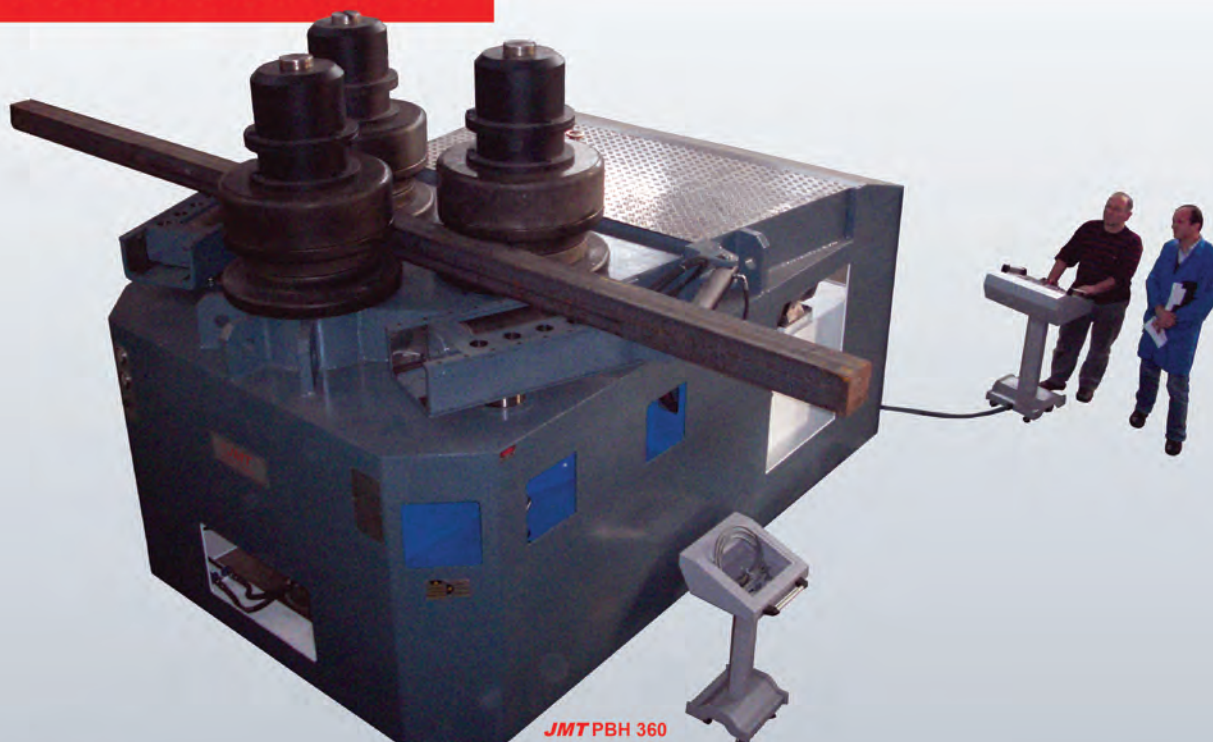
Profile Type			JMT-PBH 60		JMT-PBH 80		JMT-PBH 100		JMT-PBH 125		
			Dimensions (in.)	Min.ID * (Ø in)	Dimensions (in.)	Min.ID * (Ø in)	Dimensions (in.)	Min. ID * (Ø in)	Dimensions (in.)	Min.ID * (Ø in)	
1	Solid - Square		1.5"x 1.5" .750" x .750"	19.5" 12"	2"x2" 1.125"x1.125"	25" 11"	2.250"x2.250" 1.125"x1.125"	27" 15"	3"x3" 1.250"x1.250"	36" 20"	○
2	Flat - Along Edge		2.750" x .750" 1.187" x .375"	24" 10"	3"x.750" 1.250"x.375"	19" 13"	4"x1" 1.5"x.375"	60" 15"	4.500"x1" 2"x.375"	51" 20"	○
3	Solid - Rectangle		3.5" x 1" 1.750"x.187"	20" 8"	4.750"x1.125" 2"x.750"	25" 11"	7"x1.375" 2.375"x.375"	35" 16"	7.500"x1.500" 3"x.375"	47" 20"	○
4	T-Section Leg-Down		2.25"x.250" .750"x.125"	24" 10"	3"x.375"	39"	4"x.375"	47"	5"x.500"	52"	○
5	T-Section Leg-Out		2.250"x.250" .750"x.125"	23" 10"	3"x.375"	39"	4"x.375"	39"	5"x.500"	48"	○
6	T-Section Leg-In		2.250"x.250" .750"x.125"	32" 10"	3"x.375"	51"	4"x.375"	51"	5"x.500"	56"	○
7	Angle Leg-Out		2"x2"x.187" 1"x1"x.125"	20" 10"	3"x3"x.375" 1"x1"x.125"	32" 18"	4"x4"x.375"	56"	4"x4"x.500" 2"x2".187"	52" 28"	○ ◇ **
8	Angle Leg-In		2"x2"x.187" 1.250"x1.250"x.125"	41" 14"	3"x3"x.375" 1"x1"x.125"	47" 18"	4"x4"x.375"	63"	4"x4"x.500" 2"x2".187"	54" 28"	○ ◇ **
9	Tubing - Square		2"x2"x.125"	∞	2.5"x2.5"x.125"	∞	3.250"x3.250"x.187"	∞	4"x4"x.250	∞	○ ●
10	Tubing - Rectangular		3"x1.5"x.250"	∞	3.5"x1.5"x.125"	∞	4"x2"x.187"	∞	5.5"x1.5"x.125"	∞	○ ●
11	Solid - Round		Ø 1.5" Ø .750"	19" 11"	Ø 2" Ø .750"	24" 13"	Ø 2.750" Ø 1.187"	31" 16"	Ø 3" Ø 1.5"	34" 20"	●
12	Schedule 40 Pipe		Ø 2" Ø ¾"	23.5" 9.5"	Ø 3" Ø ¾"	39" 12"	Ø 4" Ø 1"	63" 18"	5"	68"	●
13	Tubing - Round		Ø 2.375"x.625" Ø .750"x.375"	23" 10"	Ø 4"x.100"	52"	Ø 4.5" Ø 1"x.062"	55" 16"	Ø 5.5"x.125" Ø 1.5"x.125"	60" 20"	●
14	C-Section Leg-Out		C5x6.7#	33"	C5 x 6.7#	33"	C6 x 13#	31"	C8 x 18.75#	40"	○ ●
15	C-Section Leg-In		C3x5#	22"	C5 x 6.7#	39"	C6 x 13#	39"	C8 x 18.75#	40"	○ ●
16	I-Section Leg In/Out		S3x5.7#	24"	S4 x 7.7#	23"	S7 x 20# S3 x 5.7# W4 x 13#	39" 19" 39"	S7 x 20# S3 x 5.7# W5 x 16#	40" 20" 51"	●
17	I-Section Leg Up/Down		-	-	-	-	-	-	W4 x 13#	158" ∞	●
Section Modules					1.3 - 1.9 in ³		2 - 4 in ³		3 - 5 in ³		

Capacity based on mild steel | ∞ Can be changed according to deformation | ○ Standard Rolls | ● Special Rolls | ◇ Special Tools/Apparatus | ** Hyd. ZCU

Disclaimer: Specifications listed for the minimum internal diameters are best approximations. The material's chemical composition influences yield strength and hardness, which can affect the rolling parameters. JMT does not guarantee that you will achieve the same results listed on this sheet.

JMT PBH HYDRAULIC ANGLE ROLLS

JMT PBH 180 • PBH 240 • PBH 300 • PBH 360

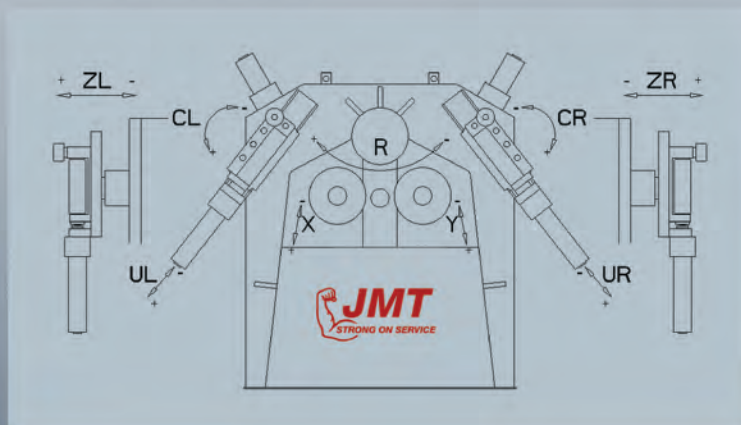
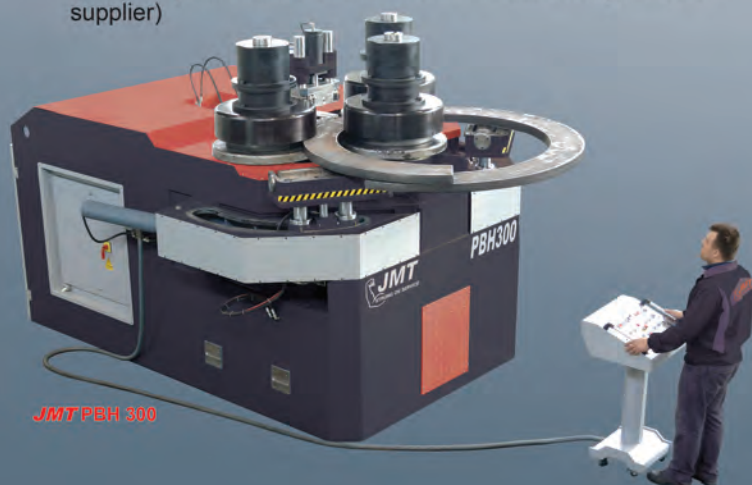


STANDARD SPECIFICATIONS:

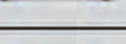
- 1 set of standard universal hardened and ground rolls (special steel)
- All rolls have separate planetary gear boxes and are hydraulic motor driven with automatic peripheral speed adjustment
- Hydraulic control of lateral guide rolls in three axes (six axes total):
 - Thrust (ZL/ZR) ↔
 - Translation (UL/UR) ↓
 - Radial (CL/CR) ↻
- Portable control panel with programmable DROs
- Horizontal operation
- Body constructed of stress-relieved steel
- Hydraulic/electrical overload protection
- Bottom roll shafts hydraulically adjusted
- World standard electrical/hydraulic components (parts stocked by **JMT** or are available off-the-shelf from your local supplier)

OPTIONS:

- Special rolls for pipe and profiles
- Rolls and tooling for hardway beam/channel bending
- Digital readout for side supports
- NC control system – with or without axis
- CNC control system
- Wired or wireless remote
- Adjustable turning speed
- Anti-deformation apparatus for U-I-H bending
- Spiral bending apparatus
- Custom machines available



JMT PBH ANGLE ROLL TECHNICAL DIMENSIONS

Profile Type			JMT-PBH 180		JMT-PBH 240		JMT-PBH 300		JMT-PBH 360		
			Dimensions (in.)	Min.ID * (Ø in)	Dimensions (in.)	Min.ID * (Ø in)	Dimensions (in.)	Min.ID * (Ø in)	Dimensions (in.)	Min.ID * (Ø in)	
1	Solid - Square		3.5"x3.5"	52"	4"x4"	59"	6"x6"	89"	10"x10"	104"	◦
2	Flat - Along Edge		5.5"x1.250"	39"	7"x1.5"	47"	9"x2.5"	79"	12"x3"	119"	◦
3	Solid - Rectangle		9.5"x1.5"	39"	14"x2"	39"	17"x2.5"	40"	25"x4"	71"	◦
4	T-Section Leg-Down		5"x.500"	56"	6"x.750"	60"	8"x1"	79"	8"x1"	63"	◦
5	T-Section Leg-Out		5"x.500"	56"	6"x.750"	60"	8"x1"	79"	8"x1"	63"	◦
6	T-Section Leg-In		5"x.500"	71"	5.5"x.750"	79"	8"x.750"	110"	8"x1"	91"	◦
7	Angle Leg-Out		6"x.500"	48"	6"x6"x.750"	63"	8"x8"x1"	91"	8"x1"	71"	◦ ◇ **
8	Angle Leg-In		5"x.500"	56"	5"x5"x.750"	63"	8"x8"x.750"	91"	8"x1"	79"	◦ ◇ **
9	Tubing - Square		4.5"x4.5"x.312"	∞	6"x6"x.312"	∞	8"x8"x.375"	∞	16"x16"x.500"	∞	◦ ●
10	Tubing - Rectangular		7"x2.5"x.312"	∞	8"x3"x.312"	∞	8"x5"x.375"	∞	18"x12"x.375"	∞	◦ ●
11	Solid - Round		Ø 4"	42"	Ø 5"	63"	Ø 6.5"	71"	Ø 10"	80"	●
12	Schedule 40 Pipe		Ø 6"	111"	Ø 8"	110"	Ø 10"	157"	Ø 20	650"	●
13	Tubing - Round		-	-	-	-	-	-	-	-	●
14	C-Section Leg-Out		C12 x 25#	56"	C12x30#	55"	MC18x42.7#	89"	MC18x58#	62"	◦ ●
15	C-Section Leg-In		C12 x 25#	67"	C12x30#	63"	MC18x42.7#	103"	MC18x58#	62"	◦ ●
16	C-Section Leg-Up		-	-	-	-	-	-	MC18x58#	690"	● ◇
17	I-Section Leg In/Out		S12 x 31# W6 x 20#	56" 48"	S12 x 35# W8 x 40# W8x 35#	60" 60" 60"	S20 x 66# W12 x 65# W10 x 68#	79" 99" 99"	S24 x 80# W24 x 12 x 117# W18 x 11 x 119#	79" 118" 118"	●
18	I-Section Leg Up/Down		S6 x 12# W4 x 13# W5 x 16#	158" ∞ 158" ∞ 119" ∞	S6 x 12# W6 x 20# W6 x 20#	197" 178" ∞ 126"	S12 x 31# W8 x 31# W8 x 35#	512" 394" 237"	S12 x 35# W14 x 10 x 74# W12 x 72#	787" ∞ 1377" ∞ 590" ∞	● ◇
Section Modules			6 - 10 in ³		11 - 20 in ³		24 - 45 in ³		80 - 290 in ³		

Capacity based on mild steel | ∞ Can be changed according to deformation | ◦ Standard Rolls | ● Special Rolls | ◇ Special Tools/Apparatus | ** Hyd. ZCU

Disclaimer: Specifications listed for the minimum internal diameters are best approximations. The material's chemical composition influences yield strength and hardness, which can affect the rolling parameters. JMT does not guarantee that you will achieve the same results listed on this sheet.

JMT ARH 600 ANGLE ROLL TECHNICAL DIMENSIONS

STANDARD SPECIFICATIONS:

- 1 set of standard universal hardened and ground rolls (special steel)
- All rolls have separate planetary gear boxes and are hydraulic motor driven with automatic peripheral speed adjustment
- Hydraulic control of lateral guide rolls in three axes (six axes total):
 - Thrust (ZL/ZR) ↔
 - Translation (UL/UR) ↑
 - Radial (CL/CR) ↻
- Portable control panel with programmable DROs
- Horizontal operation
- Body constructed of stress-relieved steel
- Hydraulic/electrical overload protection
- Bottom roll shafts hydraulically adjusted
- World standard electrical/hydraulic components (parts stocked by **JMT** or are available off-the-shelf from your local supplier)

OPTIONS:

- Special rolls for pipe and profiles
- Rolls and tooling for hardway beam/channel bending
- Digital readout for side supports
- NC control system – with or without axis
- CNC control system
- Wired or wireless remote
- Adjustable turning speed
- Anti-deformation apparatus for U-I-H bending
- Spiral bending apparatus
- Custom machines available



Profile Type			JMT-PBH 600		
			Dimensions (in.)	Min.ID * (Ø in)	
1	Solid - Square		11.750" x 11.750"	110"	○
2	Flat - Along Edge		19.500" x 4"	119"	○
3	Solid - Rectangle		35" x 5.500"	78"	○
4	T-Section Leg-Down		8"x1"	63"	●●
5	T-Section Leg-Out		8"x1"	52"	●●
6	T-Section Leg-In		8"x1"	79"	●●
7	Angle Leg-Out		8" x 1"	52"	●
8	Angle Leg-In		8"x1"	60"	●
9	Tubing - Square		20"x20"x.750"	∞	○●
10	Tubing - Rectangular		-	-	○●
11	Solid - Round		Ø 14"	118"	●
12	Schedule 40 Pipe		Ø 24	984"	●
13	Tubing - Round		-	-	●
14	C-Section Leg-Out		UPN39"	138"	○●
15	C-Section Leg-In		UPN39"	138"	○●
16	C-Section Leg-Up		UPN 31"	3346"	●◇
17	I-Section Leg In/Out		IPE 39" W36 x 12 x 160# W36 x 12 x 210#	197" 197" 315"	○●
18	I-Section Leg Up/Down		S24 x 80# W24 x 12 x 117# W21 x 12 x 132#	1,023" ∞ 1,575" 1,575" ∞	●◇
Section Modules			240 - 420 in ³		

Capacity based on mild steel | ∞ Can be changed according to deformation |

° Standard Rolls | ● Special Rolls | ◇ Special Tools/Apparatus | ** Hyd.

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JMT PBH 600

JMT Standard Universal Rolls / Tooling

for Models:

- ARH 60
- ARH 80
- ARH 100
- ARH 125
- ARH 180
- ARH 240
- ARH 300
- ARH 360



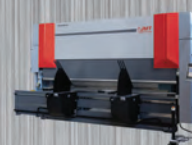
STANDARD ROLLS	STANDARD ROLLS	STANDARD ROLLS	STANDARD ROLLS	STANDARD ROLLS
STANDARD ROLLS	STANDARD ROLLS	STANDARD ROLLS	STANDARD ROLLS	STANDARD ROLLS
STANDARD ROLLS	STANDARD ROLLS	STANDARD ROLLS	SPECIAL ROLLS	SPECIAL ROLLS
STANDARD ROLLS	STANDARD ROLLS	STANDARD ROLLS	SPECIAL ROLLS	SPECIAL ROLLS

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