



# ANGLE ROLLS



ECO, FAB, GIANT SERIES **ANGLE ROLLS**

## ABOUT RMT



Some of the Revolution Machine Tools Team

Revolution Machine Tools (RMT), founded by long time industry leader Kyle Jorgenson, is a metal fabrication machine tools company. RMT's design team has created the most innovative and precise tools in the North American market today. We have partnered with leading manufacturers to build our designs to our stringent specifications in state of the art manufacturing facilities.

Kyle Jorgenson started in the Machine Tool industry working with his father, Roger Jorgenson, who founded Jorgenson Machine Tools in 1974. Roger taught Kyle how important relationships and customer service are, and Kyle has built his reputation on those principles. RMT is supported by an ever expanding team of industry professionals, which include design, marketing, service and support, who have these same values and respect Kyle's vision. Together, they are creating a revolution in the Machine Tool industry.

RMT's main focus is in large cutting, forming, and rolling machines for the metal fabrication industry. RMT's research and development team has created the most innovative, fast, durable and accurate machines in the industry. Our machines are all backed by a strong warranty and an outstanding service team dedicated to keeping your machines operational. We understand the time value of money and how expensive downtime can be.



Atakan Nerminer / R&D Manager

RMT offers several innovative machines including Fiber Lasers, Press Brakes, Plate Rolls, Ironworkers, Angle Rolls, Shears, Structural Steel Drills, Band Saws, and much more. All RMT product designs are built for durability, precision, repeatability, and speed.



Kyle Jorgenson / President

### PRE-SALE CONSULTATION

RMT's commitment to service begins with our site assessment consultation. Before we even discuss purchasing equipment we make an assessment of your production area to determine whether the equipment will work well in your manufacturing environment. We look at where the equipment will be placed on the production floor, how it will be brought into the facility, and even ways to make the disposal of scrap and waste easier to remove. We will also recommend the proper installation of our equipment, or we can even come install it for you. More importantly, we can verify adequate electrical, pneumatic or hydraulic requirements and we look at the surrounding equipment to assess if there are any electro-magnetic or vibration interference issues.



We take pleasure in helping our customers be successful. Many of our customers have become lifelong friends which has carried over through several generations.



**QUALIFIED SERVICE TECHNICIANS**

Join the Revolution with service technicians from Revolution Machine Tools that can maintain, troubleshoot and fix your machines. Our goal at RMT is to ensure our customers experience smooth operations and greater return on investment by having their machines repaired and maintained by qualified personnel who are committed to the customer's success.

The service team at Revolution Machine Tools is experienced and able to diagnose, repair and install your equipment when you need it. Twenty-four hours a day, you will reach a live service technician 365 days out of the year. We know that you can't wait for days or weeks to keep your production deadlines, and we are committed to minimizing your downtime and keeping your manufacturing processes moving forward.

**PREVENTATIVE MAINTENANCE PROGRAM**

Keeping your machines operating at their peak performance is key to successful manufacturing. At Revolution Machine Tools, we have the right preventative maintenance plan to fit your needs; thus, keeping your machines performing at their most efficient levels.



Our service technicians will create the perfect preventative maintenance plan for you. They will evaluate your machines, and provide you with a customized maintenance plan. Each plan will include general maintenance, safety evaluations, suggested repairs and part replacement.

**SERVICE WHEN YOU NEED IT**

Twenty-four hours a day, seven-days a week, you can count on Revolution Machine Tools to be there when you need them. How many times have you needed customer service for a machine breakdown? Each and every breakdown equates to a loss in opportunity cost and profit. At Revolution Machine Tools, we are committed to making sure you get the most out of your equipment, and when it does breakdown, providing repair services in a timely manner.

So, if you are in need of a troubleshooting or repair, you can call our service team anytime, 24-hours a day/7-days a week. Anytime you run into a machine problem, you can reach a service technician by phone or e-mail and we will answer or respond.. You don't need help in two days, you need it now.



SERVICE HOTLINE  
**844-RMT-SERV (768-7378)**  
SERVICE@RMTUS.COM



# PARTS & TOOLING

## SUPERIOR PARTS AND TOOLING

Every machine used in the chipping, fabrication and forming of metal has consumables and tooling to keep them performing efficiently. These consumables and tools range from hydraulic oil, laser nozzle tips, replacement parts, software and more. Making sure you have the right products to take care of your machines is what we at Revolution Machine Tools specialize in. We stock the highest grade consumables, replacement parts and tooling to fit your needs; and, if on the rare occasion we don't have the part, we most likely know where to find it.

Our parts and tooling department is constantly looking for ways to maximize the potential of your machines. Specialized tooling can be ordered and shipped to your location. We have qualified customer service representatives who can help you find solutions and answers to your manufacturing needs.

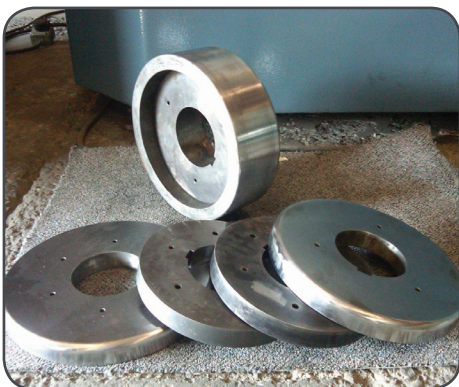
Revolution Machine Tools and its staff are committed to providing you the most effective service possible. We encourage you to call, even if we don't carry your brand of machine, and see if we can support you in making sure you have the right parts and tooling to fulfill your production goals and needs.



*Talip, Parts and Tooling Manager*

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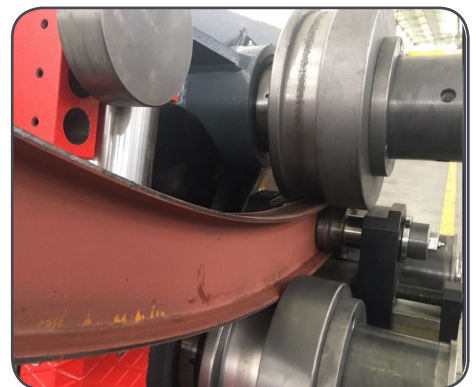
## REPLACEMENT PARTS AND ACCESSORIES



UNIVERSAL DIES



PIPE & TUBE DIES



BEAM PULLING APPARATUS

REVOLUTION MACHINE TOOLS, PARTS AND TOOLING: 844.768.4636 OR PARTS@RMTUS.COM  
store.rmtus.com

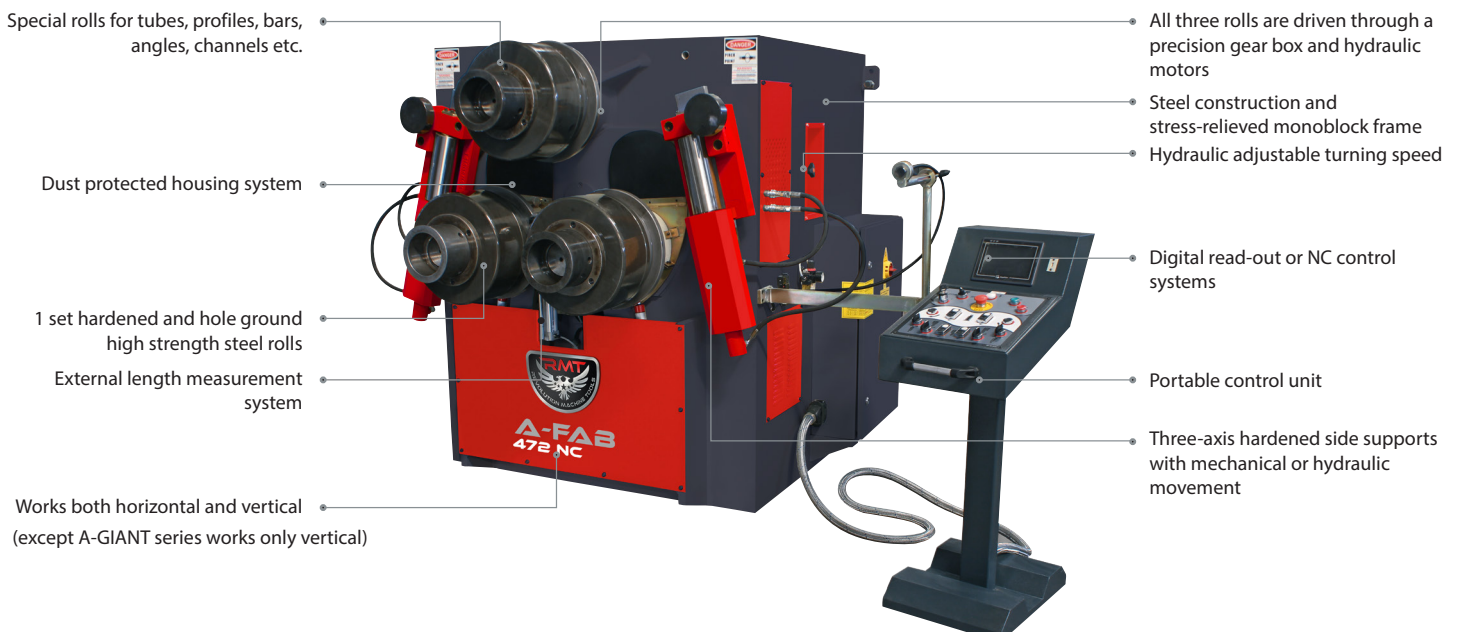
## BENEFITS OF RMT ANGLE ROLLS

RMT inventories and supports an extensive line of Profile Benders, Section Bending Machines, Universal Roll Benders, Angle Rolls as well as Tube Benders and Pipe Benders. We stock Standard Tooling, Custom Tooling and Parts, ready to ship. RMT Angle Rolls are used to bend all types of materials and profile shapes, handle mild steel, stainless steel, aluminum, titanium, bronze, brass, copper as well as other alloys. Our machines in the field are used to manufacture marine handrails, aluminum window frames, steel sections, ornamental and decorative iron, motorcycle frames and components, exhaust pipes, and more. Our machines handle flat bar, square bar, square & rectangular tube, round rod, channels, and T bar using standard tooling which is supplied with the machine. With optional tooling, RMT angle rolls will roll angle iron, round tube & pipe, oval tube, roll formed shapes, aluminum extrusions and special profiles.

For Ornamental Applications RMT angle rolls can be equipped with optional scroll bending tools, picket twisting tools and helical stair rail attachments. If you are considering buying a Manual Bender or Hydraulic Bender or CNC Pipe Bender or Tube Roll or any type of Roll Bender, RMT can satisfy your production requirements. Our angle rolls are available in all sizes from small economical portable benders to large heavy duty pipe benders that will fit your rolling budget.

RMT's service department employs factory trained experienced professionals to service your spare parts, repair and technical needs. We stock tooling and spare parts. Our CNC machine shop can build any custom tooling you need with a rapid turn-around. We manufacture tooling for other brands of Ring Rollers and Roll Bending Machines. For high volume roll bending or multi-radius parts, our optional CNC Angle Rolls with direct radius input let you roll up to the next level with the highest precision, repeatability and speed.

Our high quality OEM components are non-proprietary and available worldwide. Main frames carry a 10 year warranty! We are confident in RMT superior quality. Regardless of your need and budget for a roll bender, you will benefit from choosing RMT. Our true quality and integrity is in the "details" of every RMT roll bender. Compare and see for yourself why RMT Bending Machines have become one of the most respected brand names in the roll bending industry. Come visit us to see our machines first hand and experience the RMT difference!"



**With many solutions available, we can configure any machine to exactly match your requirements.**

## A-ECO SERIES

The A-ECO Series motorized angle rolls are designed for bending small parts with low operation cost. It is also designed for ease of use and to take up only minimal floor space. This machine is well suited for auto body and repair, 4x4 parts, HVAC, plumbing, artists and many other businesses needing to create small, precision parts. See pages 11-14.

### Motorized Angle Rolls

**1.18" ~ 2.36" Top shaft diameters**

**Up to 3" SCH 40 Pipe Bending Capacity**



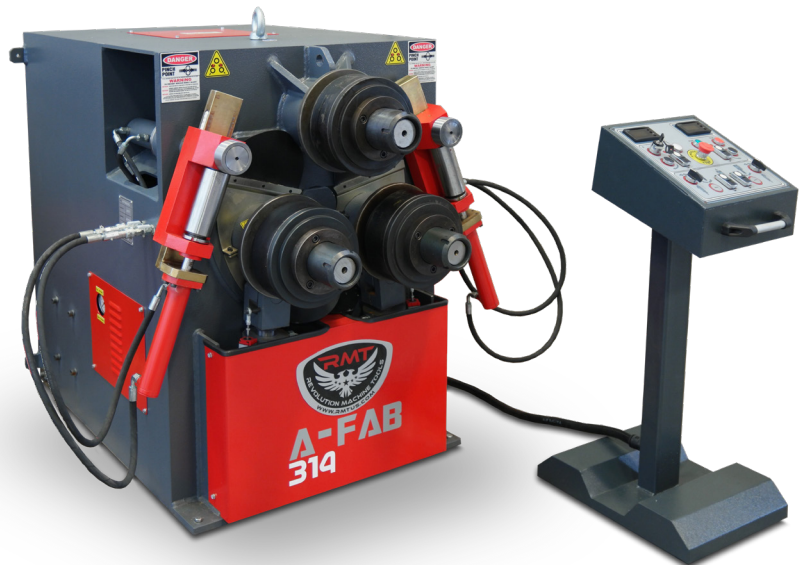
## A-FAB SERIES

A-FAB Series hydraulic angle rolls are designed to be the workhorse of our angle roll line. They offer fantastic accuracy and strength as well as cost effective production. This is the model for those who work with a variety of sizes, strengths, and materials. See pages 15-21.

### Hydraulic Angle Rolls

**1.57" ~ 7.08" Top shaft diameters**

**Up to 8" SCH 40 Pipe Bending Capacity**



## A-GIANT SERIES

RMT offers the latest technology in "large format" profile bending solutions for your oversized application needs. We specifically developed these systems for the production of ships, bridges, pipe lines, I beams, H beams, towers, high-rise and skyscraper construction, and many other giant applications. See pages 22-24.

### Hydraulic Angle Rolls

**9.44" ~ 14.17" Top shaft diameters**

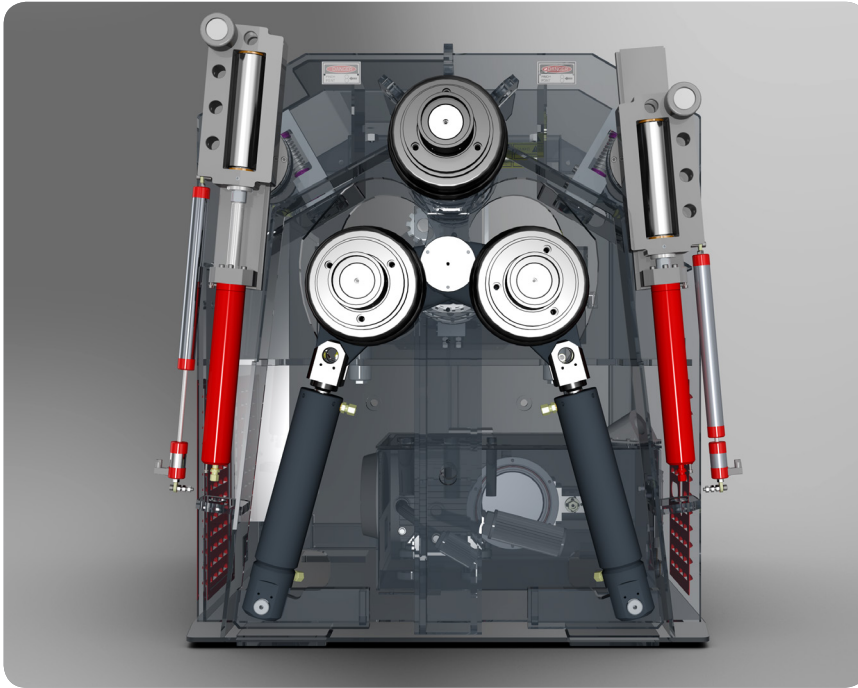
**Up to 16" SCH 40 Pipe Bending Capacity**



## PLANETARY MACHINE GEOMETRY

Our A-FAB and A-GIANT series angle rolls and their positions are selected after long term engineering, tests and evaluation periods. Side rolls are guided by swing beds which allows them to act as 2 independent axes moving in planetary shape. Our system allows you to bend your workpiece as little as 1.1 times the top roll diameter of your machine. The side roll approach to the top roll allow you to get perfect pre-bends as well as minimizing spring back.

Rolls are guided with single spherical roller bearings and bronze beds. Guiding system requires less lubrication and maintains long term precision.



## ROBUST FRAME CONSTRUCTION

Machine frames are strengthened to minimize twists and deformation during construction. The robust frame of the machine is further strengthened using steel bars to complete the chassis.

Machine frame, chassis, and steel bar connections are stress relieved after welding completion. All parts of the frame are machined using a 5 axes CNC machining center using a single reference. This way, we attain parallelism of all axes and all surfaces of the machine which contributes to the precision and longevity of all critical characteristics of the machine.

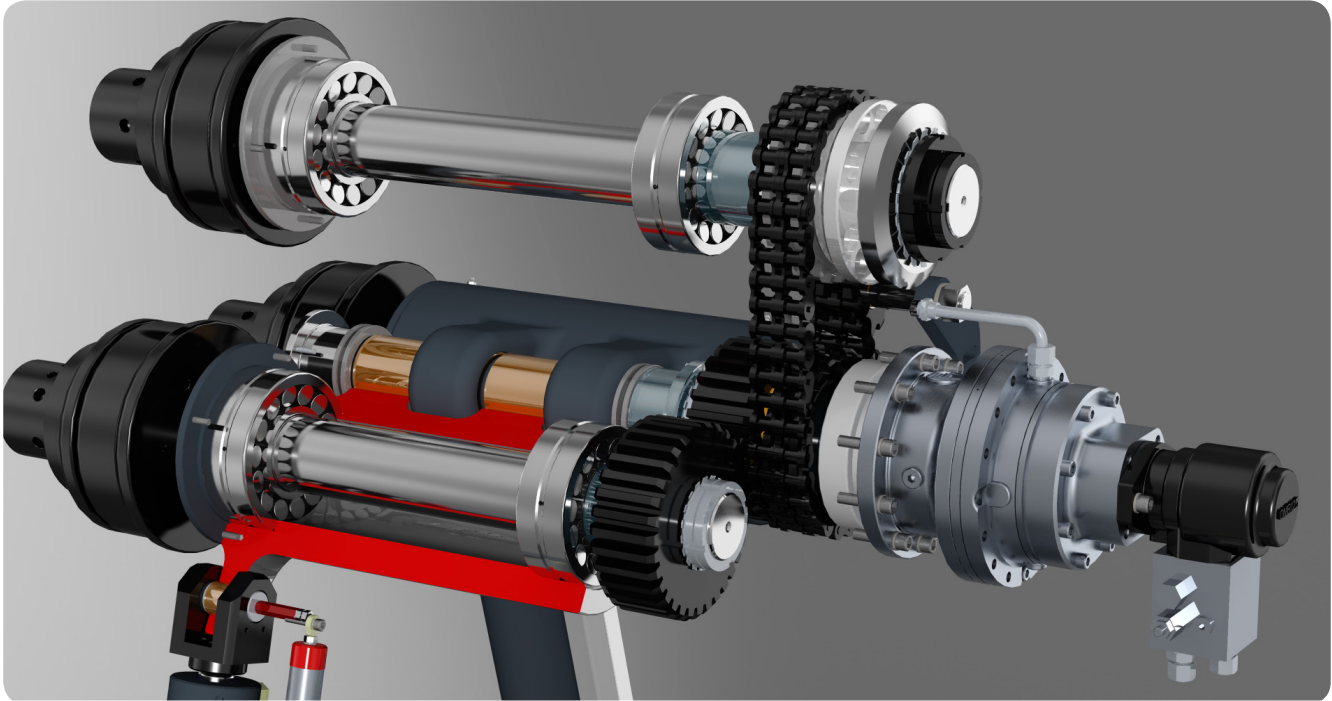




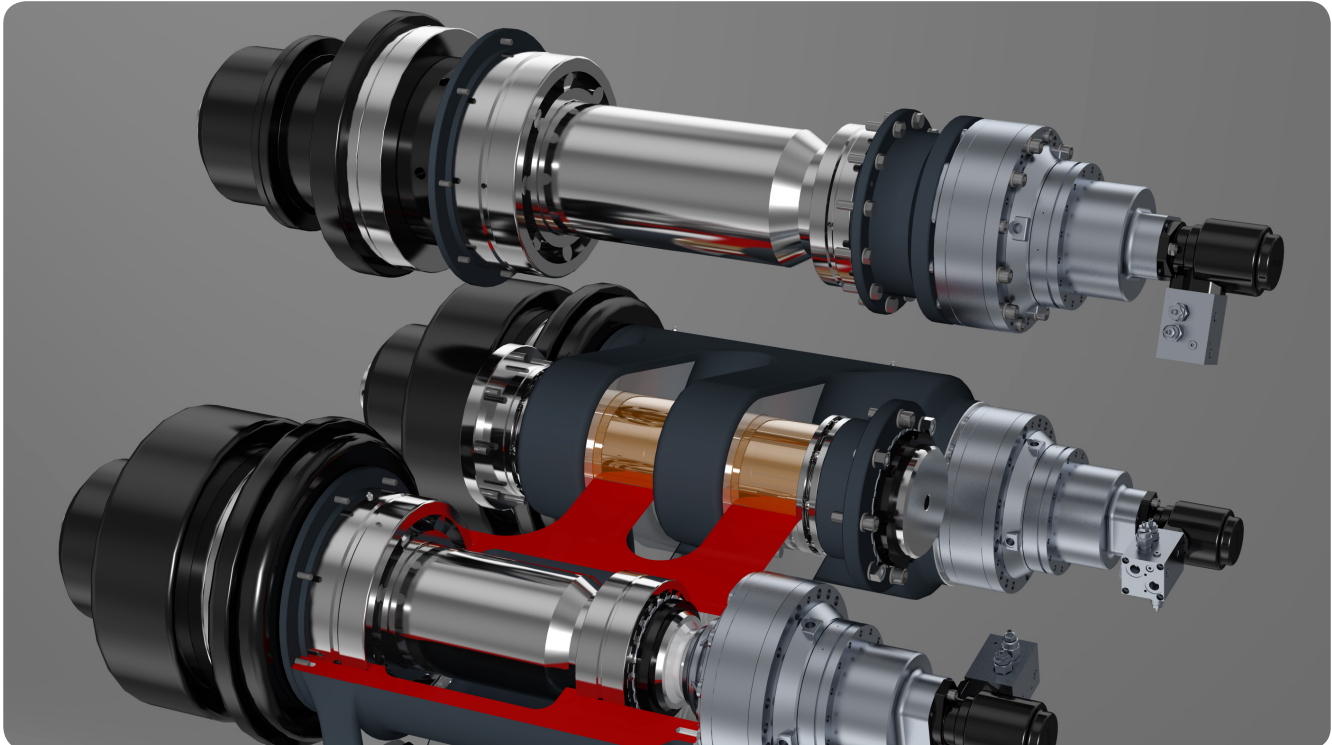
## HIGH TORQUE DRIVE SYSTEM

Using high torque, RMT machines bend the parts with less steps. Rolls are triggered by independent high torque hydraulic motors and planet gears. Trigger system is positioned on the same axis with roll and high torque is transferred to the part without any loss.

Strong Hydraulic Brakes : Especially during the pre-bending, system does not allow the part to slip back which may create safety problems.

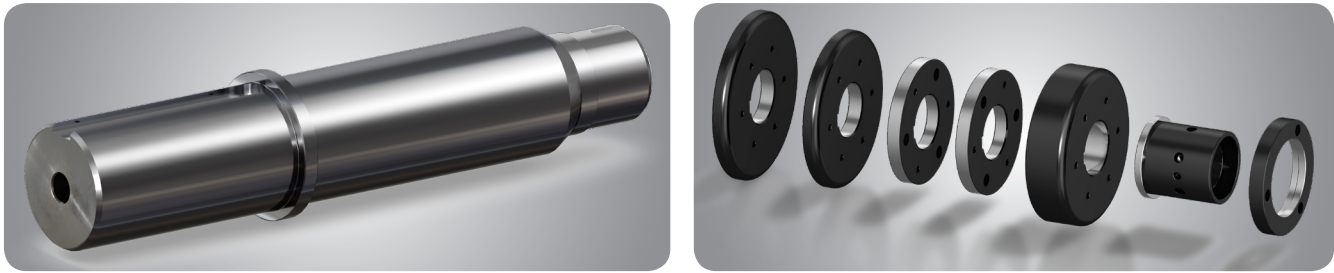


Central gear and chain drive system standard on; A-FAB 236, 314



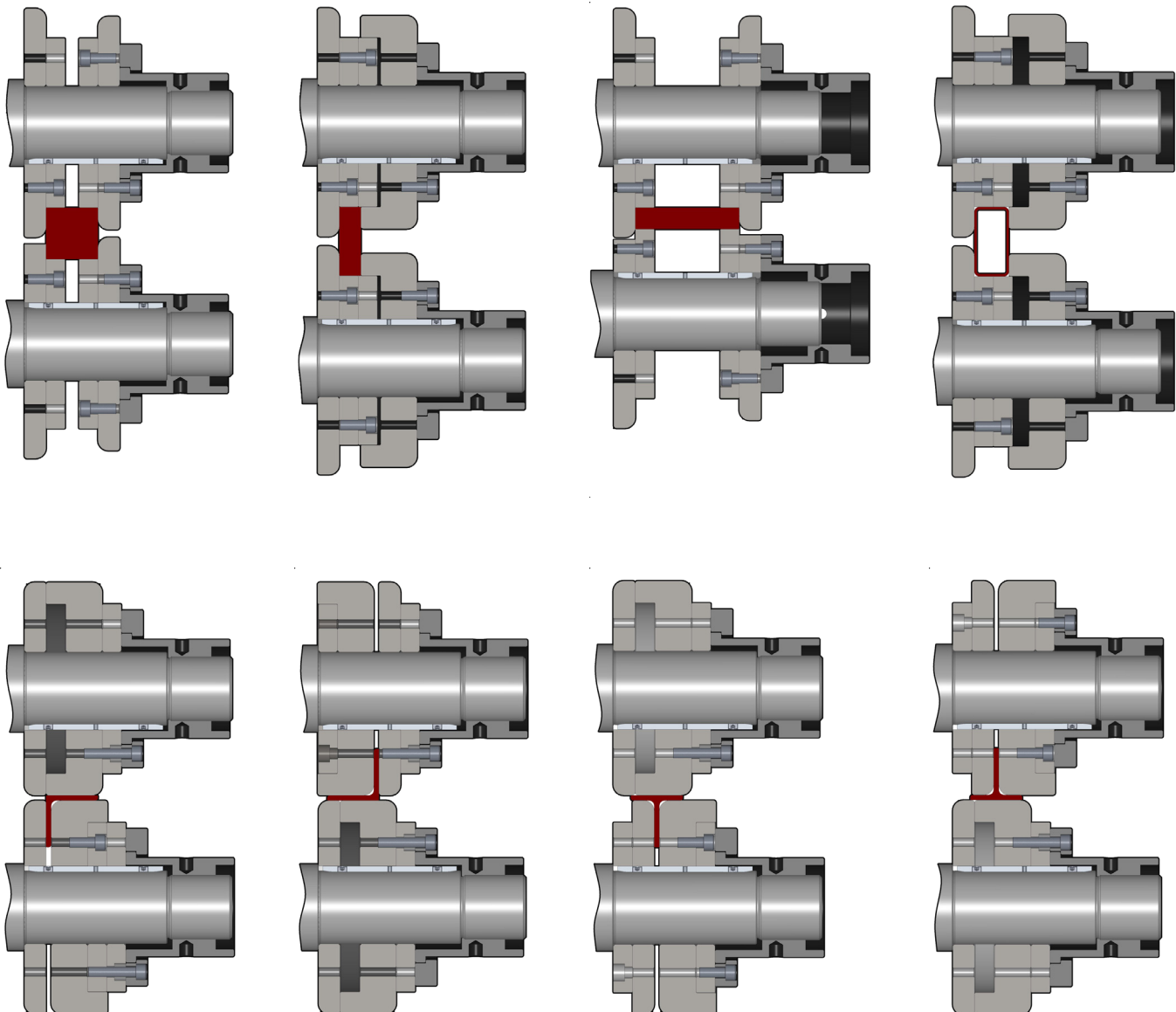
Independent All rolls driven system standard on; A-FAB 472, 629, 708, A-GIANT 944, 1181, 1417

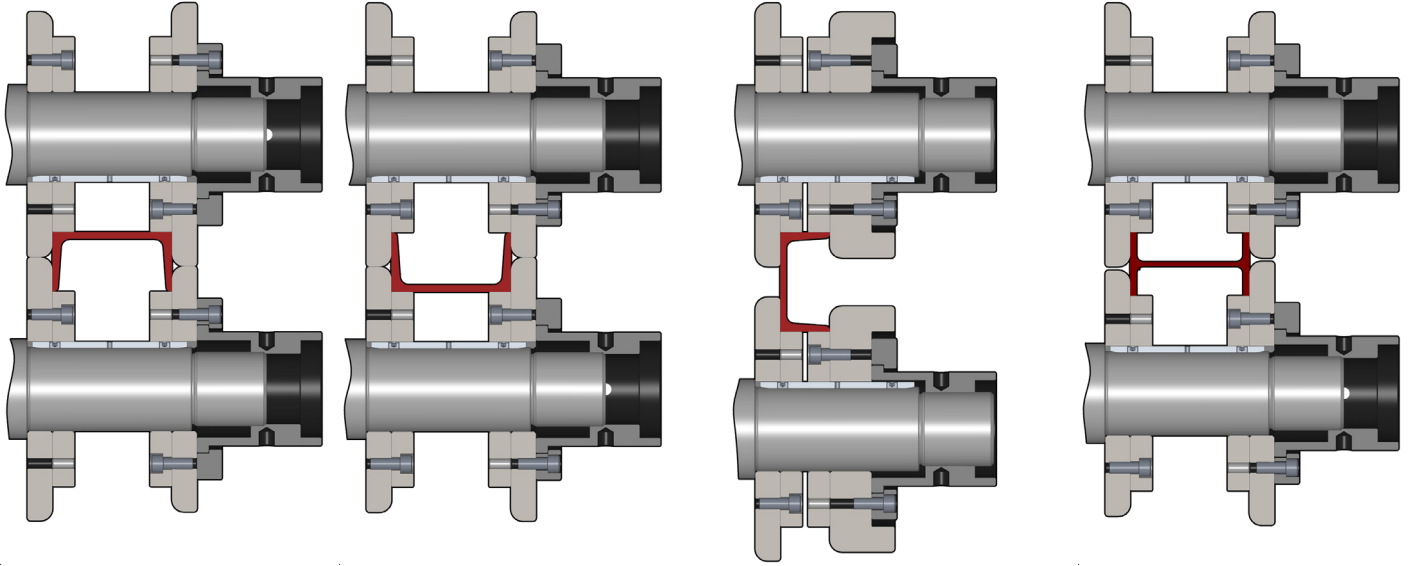
## SHAFT & DIES



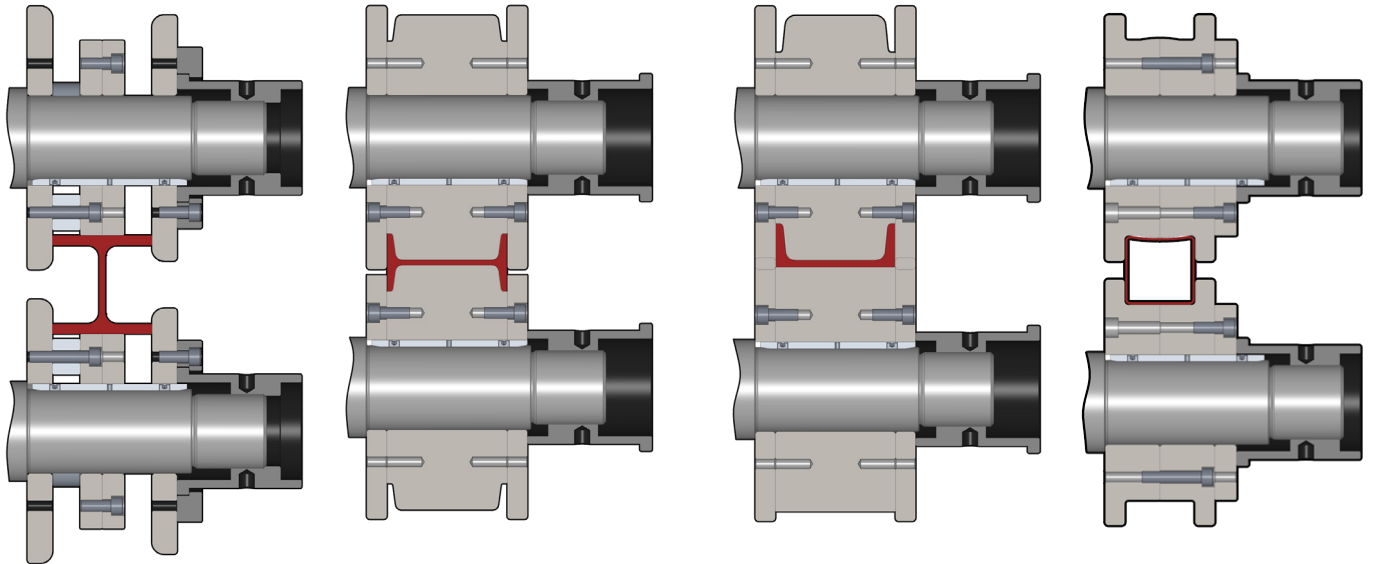
The most important element of a angle roll is the rolls themselves. Most machines in the market have weak dies that deform during the process when bending high yield materials. RMT uses high tensile forged steel rolls that are machined by high precision CNC lathes. All volume the rolls are hardened to HRC 52-56 with hardness tests performed at varying points on the dies. Die hole grind after hardening process with in tolerances.

## UNIVERSAL DIES

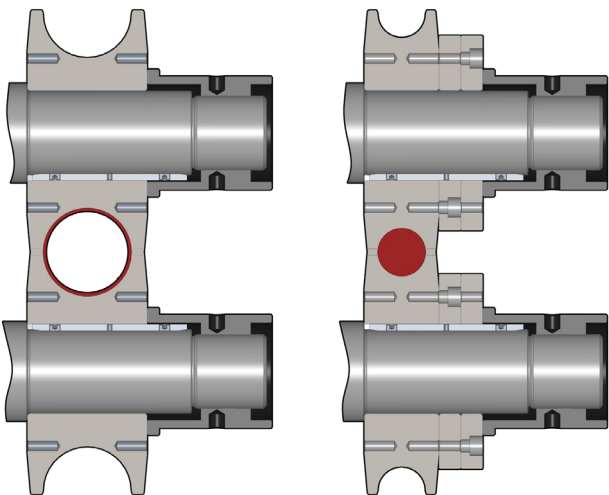




**CUSTOM DIES**

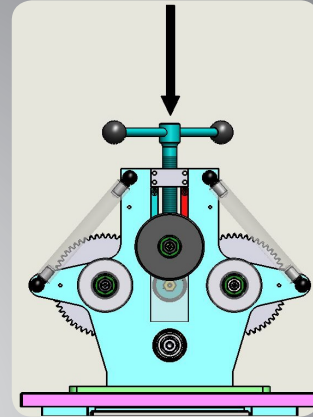


**PIPE&TUBE DIES**



# Motorized Angle Roll

A-ECO 118



**Motion:**

Upper roll moves by hand screw, side rolls are fixed.

**Rotation:**

Side rolls are driven by one AC motor + gearbox  
Upper roll is idle

**Shaft Diameters:** 1.18"

**Roll Diameters:**

Top 5.82";

Bottom 4.64"

**Motor Power:** 0.9 – 1.1 HP

**Max Section Modulus:** .091 in<sup>3</sup>

**Turning Speed:** 6-13 FPM

**Dimensions:** 24" L x 32" W x 57" H

**Weight:** 485 lbs.

## STANDARD

- Steel frame
- Two bottom rolls are powered
- Direct drive power system with gears
- Top roll is idle ( free turning )
- Hardened rolls
- Rolls shafts are special steel material hardened and ground
- Double speed motor
- Standard rolls
- Adjustable guide rolls
- Horizontal or vertical working position

## OPTIONAL

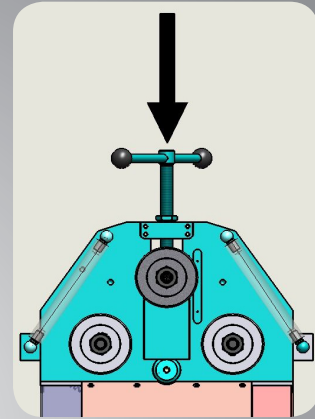
- Pipe/Tube bending rolls
- Profile bending rolls
- Angle bending support rolls
- Digital readout
- Special lateral angle guide rolls

| Profile Type |                    |  | A-ECO 118  |                        | Notes |
|--------------|--------------------|--|--|------------------------|-------|
|              |                    |  | Dimensions   | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 1-1/4" x 1-1/4"<br>3/8" x 3/8"                     | 36"<br>8"              | ○     |
| 2            | Flat-Along Edge    |  | 2" x 3/8"<br>3/4" x 3/4"                           | 32"<br>12"             | ○     |
| 3            | Solid - Rectangle  |  | 3" x 5/8"<br>1-1/4" x 1/4"                         | 28"<br>16"             | ○     |
| 4            | Angle Leg-Out      |  | 1-1/2" x 1-1/2" x 3/16"<br>1-1/4" x 1-1/4" x 5/32" | 24"<br>12"             | ○●    |
| 5            | Angle Leg-In       |  | 1-1/4" x 1-1/4" x 3/16"<br>1-1/4" x 1-1/4" x 5/32" | 24"<br>16"             | ○●X   |
| 6            | T Section Leg-Down |  | 2" x 2" x 1/4"                                     | 24"                    | ○     |
| 7            | T Section Leg-Out  |  | 2" x 2" x 1/4"                                     | 24"                    | ○     |
| 8            | T Section Leg-In   |  | 2" x 2" x 1/4"                                     | 24"                    | ○     |
| 9            | Tubing - Square    |  | 1-1/2" x 1-1/2" x 0.120"                           | 48" ∞                  | ○●    |
| 10           | Tubing - Rectangle |  | 2" x 1-1/4" x 0.120"                               | 48" ∞                  | ○●    |
| 11           | Solid - Round      |  | ∅1-1/8"  | 36"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1" SCH 40  | 20" ∞                  | ●     |
|              |                    |  | 1-1/2" SCH 40                                      | 24" ∞                  |       |
| 13           | Tubing - Round     |  | ∅1" x 0.06"  | 24" ∞                  | ●     |
|              |                    |  | ∅2-3/8" x 0.06"                                    | 40" ∞                  |       |
| 14           | C Section Leg-Out  |  | 2"   | 20"                    | ○●    |
| 15           | C Section Leg-In   |  | 2"   | 32"                    | ○●    |

Capacity based on mild steel | ∞ Can be changed according to deformation  
○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Motorized Angle Roll

## A-ECO 196



**Motion:**

Upper roll moves by hand screw, side rolls are fixed.

**Rotation:**

Side rolls are driven by one AC motor + gearbox  
Upper roll is idle

**Shaft Diameters:** 1.96"

**Roll Diameters:** 6.10"

**Motor Power:** 2 HP

**Max Section Modulus:** .30 in<sup>3</sup>

**Turning Speed:** 14 FPM

**Dimensions:** 30" L x 40" W x 56" H












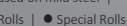



**Weight:** 881 lbs.

### STANDARD

- Steel frame
- Two rolls direct driven by a gear system
- Rolls are hardened
- Rolls shafts are special steel material hardened and ground
- Roll shafts housed by bearings
- Standard rolls
- Guide rolls
- Horizontal or vertical working position

### OPTIONAL

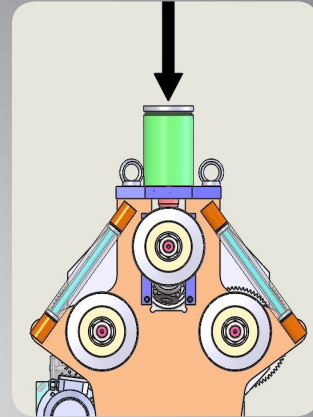
- Pipe/Tube bending rolls
- Profile bending rolls
- Angle bending rolls
- Digital readout
- Special lateral angle guide rolls

| Profile Type |                    |  | A-ECO 196                      |                        | Notes |
|--------------|--------------------|--|--------------------------------|------------------------|-------|
|              |                    |  | Dimensions                     | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 1-3/8" x 1-3/8"<br>3/4" x 3/4" | 36"<br>12"             | ○     |
| 2            | Flat-Along Edge    |  | 2-3/8" x 3/8"                  | 20"                    | ○     |
| 3            | Solid - Rectangle  |  | 4" x 5/8"                      | 18"                    | ○     |
| 4            | Angle Leg-Out      |  | 2" x 2" 3/16"                  | 32"                    | ○●    |
| 5            | Angle Leg-In       |  | 2" x 2" 1/4"                   | 40"                    | ○●X   |
| 6            | T Section Leg-Down |  | 2-3/8" x 2-3/8" x 1/4"         | 28"                    | ○     |
| 7            | T Section Leg-Out  |  | 2-3/8" x 2-3/8" x 1/4"         | 28"                    | ○     |
| 8            | T Section Leg-In   |  | 2-3/8" x 2-3/8" x 1/4"         | 28"                    | ○     |
| 9            | Tubing - Square    |  | 2" x 2" x 0.120"               | 68" ∞                  | ○●    |
| 10           | Tubing - Rectangle |  | 2-3/4" x 1-1/4" x 0.080"       | 48" ∞                  | ○●    |
|              |                    |  |                                |                        |       |
| 11           | Solid - Round      |  | ∅1-3/8"                        | 24"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1" SCH 40                      | 14" ∞                  | ●     |
|              |                    |  | 2" SCH 40                      | 40" ∞                  |       |
| 13           | Tubing - Round     |  | ∅1-1/4" x 0.080"               | 20" ∞                  | ●     |
|              |                    |  | ∅2-3/4" x 0.080"               | 40" ∞                  |       |
| 14           | C Section Leg-Out  |  | 3"                             | 40"                    | ○●    |
| 15           | C Section Leg-In   |  | 3"                             | 48"                    | ○●    |

Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Motorized & Hydraulic Angle Roll

## A-ECO 196H



### Motion:

Upper roll moves by hydraulic cylinder, side rolls are fixed.

### Rotation:

All rolls driven by one AC motor+gearbox

**Shaft Diameters:** 1.96"

**Roll Diameters:**

Top 6.37"

Bottom 5.98"

**Motor Power:** 1.5 HP

**Max Section Modulus:** .36 in<sup>3</sup>

**Turning Speed:** 14 FPM

**Dimensions:** 32" L x 38" W x 60" H





**Weight:** 1,102 lbs.

## STANDARD

- Steel welded construction frame
- 3 Rolls are motor driven
- Hardened shafts from special steel material
- Top roll hydraulic moveable up-down
- Horizontal or vertical working position
- Standard rolls
- Guide rolls
- Brake motor equipped for precision bending
- Mobile control panel

## OPTIONAL

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

| Profile Type |                    |  | A-ECO 196 H                      |                        | Notes |
|--------------|--------------------|--|----------------------------------|------------------------|-------|
|              |                    |  | Dimensions                       | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 1-3/8" x 1-3/8"<br>5/8" x 5/8"   | 24"<br>12"             | ○     |
| 2            | Flat-Along Edge    |  | 2-3/8" x 3/8"                    | 24"                    | ○     |
| 3            | Solid - Rectangle  |  | 4" x 5/8"                        | 24"                    | ○     |
| 4            | Angle Leg-Out      |  | 2" x 2" 1/4"                     | 24"                    | ○●    |
| 5            | Angle Leg-In       |  | 2" x 2" 1/4"                     | 36"                    | ○●X   |
| 6            | T Section Leg-Down |  | 2-3/8" x 2-3/8" x<br>1/4"        | 32"                    | ○     |
| 7            | T Section Leg-Out  |  | 2-3/8" x 2-3/8" x<br>1/4"        | 32"                    | ○     |
| 8            | T Section Leg-In   |  | 2" x 2" x 1/4"                   | 32"                    | ○     |
| 9            | Tubing - Square    |  | 2" x 2" x 0.120"                 | 63"∞                   | ○●    |
| 10           | Tubing - Rectangle |  | 2-3/4" x 1-1/4" x<br>0.080"      | 60"∞                   | ○●    |
| 11           | Solid - Round      |  | ∅1-3/8"                          | 24"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1" SCH 40<br>2" SCH 40           | 14"∞<br>40"∞           | ●     |
| 13           | Tubing - Round     |  | ∅1" x 0.060"<br>∅2-3/4" x 0.080" | 16"∞<br>48"∞           | ●     |
| 14           | C Section Leg-Out  |  | 3"                               | 32"                    | ○●    |
| 15           | C Section Leg-In   |  | 3"                               | 48"                    | ○●    |

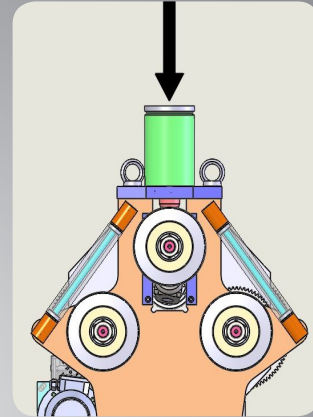
Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Motorized & Hydraulic Angle Roll

A-ECO 236H



Optional NC Control



**Motion:**

Upper roll moves by hydraulic cylinder, side rolls are fixed.

**Rotation:**

All rolls driven by one AC motor+gearbox

**Shaft Diameters:** 2.36"

**Roll Diameters:** 8.46"

**Motor Power:** 2 HP

**Max Section Modulus:** .061 in<sup>3</sup>

**Turning Speed:** 13 FPM

**Dimensions:** 40" L x 56" W x 65" H

**Weight:** 2,095 lbs.

## STANDARD

- Steel welded construction frame
- 3 Rolls are motor driven
- Hardened shafts from special steel material
- Top roll hydraulic moveable up-down
- Horizontal or vertical working position
- Standard rolls
- Guide rolls
- Brake motor equipped for precision bending
- Mobile control panel

## OPTIONAL

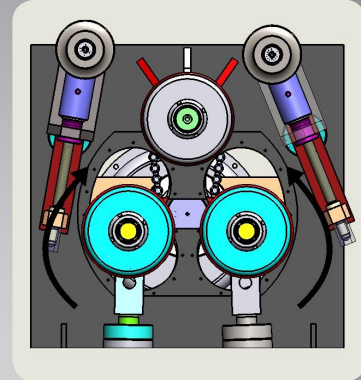
- Pipe / Tube bending rolls
- Profile bending rolls
- Angle bending rolls
- Digital Read-Out
- Optional lateral angle guides
- Optional stairway bending attachment
- NC control

| Profile Type |                    |  | A-ECO 236 H                  |                        | Notes |
|--------------|--------------------|--|------------------------------|------------------------|-------|
|              |                    |  | Dimensions                   | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 2" x 2"<br>3/4" x 3/4"       | 32"<br>16"             | ○     |
| 2            | Flat-Along Edge    |  | 3" x 3/4"                    | 47"                    | ○     |
| 3            | Solid - Rectangle  |  | 4" x 1"                      | 24"                    | ○     |
| 4            | Angle Leg-Out      |  | 2-3/4" x 2-3/4"<br>1/4"      | 40"                    | ○●    |
| 5            | Angle Leg-In       |  | 2-3/4" x 2-3/4"<br>1/4"      | 48"                    | ○●X   |
| 6            | T Section Leg-Down |  | 3" x 3" x 3/8"               | 40"                    | ○     |
| 7            | T Section Leg-Out  |  | 3" x 3" x 3/8"               | 40"                    | ○     |
| 8            | T Section Leg-In   |  | 3" x 3" x 3/8"               | 48"                    | ○     |
| 9            | Tubing - Square    |  | 2-3/4" x 2-3/4" x<br>0.120"  | 63"∞                   | ○●    |
| 10           | Tubing - Rectangle |  | 3" x 1-1/2" x<br>0.120"      | 56"∞                   | ○●    |
| 11           | Solid - Round      |  | ∅2"                          | 32"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1" SCH 40<br>3" SCH 40       | 20"∞<br>63"∞           | ●     |
| 13           | Tubing - Round     |  | ∅2" x 0.080"<br>∅4" x 0.080" | 20"∞<br>63"∞           | ●     |
| 14           | C Section Leg-Out  |  | 4"                           | 30"                    | ○●    |
| 15           | C Section Leg-In   |  | 4"                           | 46"                    | ○●    |

Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Hydraulic Angle Roll

## A-FAB 157



**Motion:**

Side rolls move by hydraulic cylinders, Upper roll is fixed.

**Rotation:**

All rolls driven by one hydromotor+gearbox

**Shaft Diameters:**

Top 1.57"; Bottom 1.57"

**Roll Diameters:** 5.39"

**Motor Power:** 1.5 HP

**Max Section Modulus:** .18 in<sup>3</sup>

**Turning Speed:** 23 FPM

**Dimensions:** 42" L x 20" W x 50" H

**Weight:** 772 lbs.

### STANDARD

- Cast iron frame
- 3 Rolls are powered
- Hardened and ground shafts made of high tensile special steel
- Rolls are hardened and ground
- Horizontal or vertical working position
- Hardened standard rolls
- Mobile control panel
- 2 Axis mechanical lateral angle guide rolls
- Brake motor equipped for precision bending
- Digital Read-Outs (2pcs)

### OPTIONAL

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

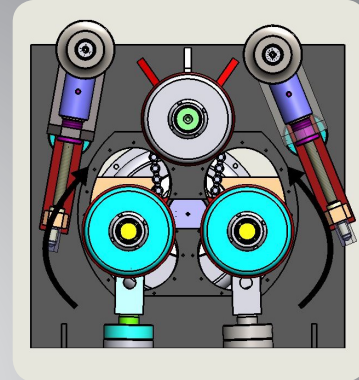
| Profile Type |                    |  | A-FAB 157              |                        | Notes |
|--------------|--------------------|--|------------------------|------------------------|-------|
|              |                    |  | Dimensions             | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 3/4" x 3/4"            | 10"                    | ○     |
| 2            | Flat-Along Edge    |  | 1-3/8" x 5/16"         | 12"                    | ○     |
| 3            | Solid - Rectangle  |  | 2" x 1/2"              | 16"                    | ○     |
| 4            | Angle Leg-Out      |  | 1-3/8" x 1-3/8" 3/16"  | 16"                    | ○●    |
| 5            | Angle Leg-In       |  | 1" x 1" 3/16"          | 22"                    | ○●    |
| 6            | T Section Leg-Down |  | 1-3/8" x 1-3/8" 3/16"  | 14"                    | ○     |
| 7            | T Section Leg-Out  |  | 1" x 1" 3/16"          | 12"                    | ○     |
| 8            | T Section Leg-In   |  | 1-3/8" x 1-3/8" 3/16"  | 12"                    | ○     |
| 9            | Tubing - Square    |  | 1" x 1" x 0.080"       | 18" ∞                  | ○●    |
| 10           | Tubing - Rectangle |  | 1-3/8" x 5/8" x 0.100" | 20" ∞                  | ○●    |
| 11           | Solid - Round      |  | ∅1"                    | 12"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1" SCH 40              | 8" ∞                   | ●     |
| 13           | Tubing - Round     |  | ∅1-5/8" x 0.060"       | 20" ∞                  | ●     |
| 14           | C Section Leg-Out  |  | 1-5/8" x 3/4"          | 14"                    | ○●    |
| 15           | C Section Leg-In   |  | 1-3/8" x 3/4"          | 20"                    | ○●    |

Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools



# Hydraulic Angle Roll

## A-FAB 236



**Motion:**

Side rolls move by hydraulic cylinders, Upper roll is fixed.

**Rotation:**

All rolls driven by one hydromotor+gearbox

**Shaft Diameters:**

Top 2.36"; Bottom 1.96"

**Roll Diameters:** 7.08"

**Motor Power:** 4 HP

**Max Section Modulus:** .036 in<sup>3</sup>

**Turning Speed:** 16 FPM

**Dimensions:** 48" L x 34" W x 48" H














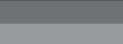

**Weight:** 2,205 lbs.

### STANDARD

- Steel construction welded frame
- 3 Rolls are powered
- Hardened and ground shafts made of high tensile special steel
- Rolls are hardened and ground
- Horizontal or vertical working position
- Hardened standard rolls
- Mobile control panel
- 3 Axis mechanical lateral angle guide rolls
- Brake motor equipped for precision bending
- Digital Read-Outs (2pcs)

### OPTIONAL

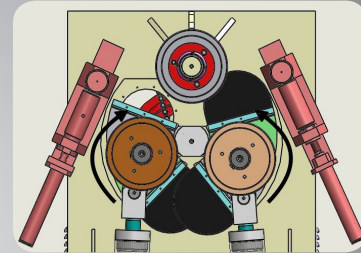
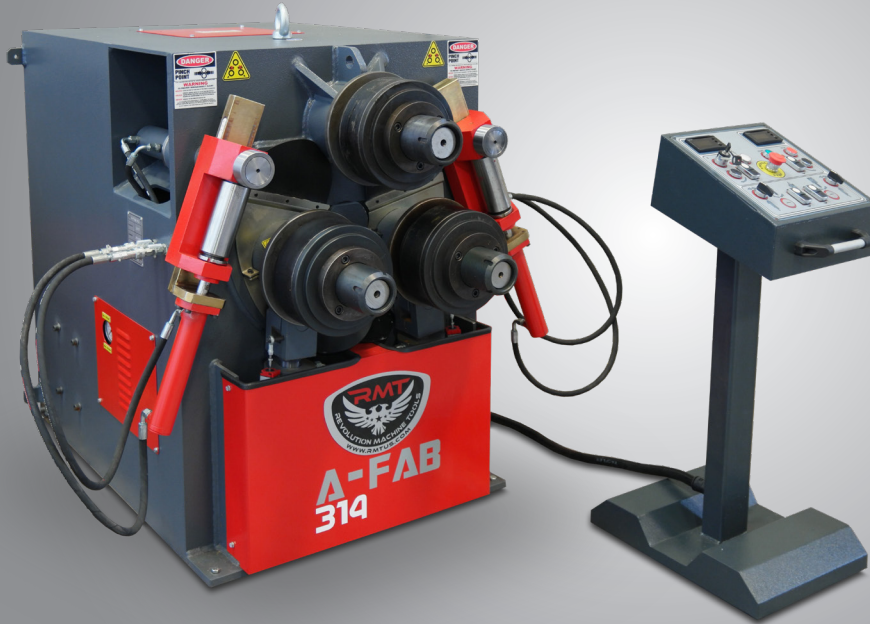
- Pipe, tube and profile bending rolls
- Hydraulic lateral guide rolls (2 axis)
- NC control

| Profile Type |                    |  | A-FAB 236                          |                        | Notes |
|--------------|--------------------|--|------------------------------------|------------------------|-------|
|              |                    |  | Dimensions                         | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 1-1/4" x 1-1/4"<br>1/2" x 1/2"     | 16"<br>10"             | ○     |
| 2            | Flat-Along Edge    |  | 2-3/8" x 3/8"                      | 20"                    | ○     |
| 3            | Solid - Rectangle  |  | 3" x 3/4"                          | 20"                    | ○     |
| 4            | Angle Leg-Out      |  | 2-1/2" x 2-1/2"<br>1/4"            | 26"                    | ○●    |
| 5            | Angle Leg-In       |  | 2" x 2" 3/16"                      | 22"                    | ○●    |
| 6            | T Section Leg-Down |  | 2-3/8" x 2-3/8" x<br>1/4"          | 20"                    | ○     |
| 7            | T Section Leg-Out  |  | 2-3/8" x 2-3/8" x<br>1/4"          | 22"                    | ○     |
| 8            | T Section Leg-In   |  | 2" x 2" x 1/4"                     | 20"                    | ○     |
| 9            | Tubing - Square    |  | 1-3/4" x 1-3/4" x<br>0.120"        | 24" ∞                  | ○●    |
| 10           | Tubing - Rectangle |  | 2" x 1" x 0.120"                   | 18" ∞                  | ○●    |
| 11           | Solid - Round      |  | ∅1-3/8"                            | 14"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1/2" SCH 40<br>2" SCH 40           | 8" ∞<br>16" ∞          | ●     |
| 13           | Tubing - Round     |  | ∅5/8" x 0.060"<br>∅2-3/8" x 0.080" | 8" ∞<br>24" ∞          | ●     |
| 14           | C Section Leg-Out  |  | 3"                                 | 24"                    | ○●    |
| 15           | C Section Leg-In   |  | 2-1/2"                             | 24"                    | ○●    |
| 16           | I Section Easy Way |  | S3 x 5.7                           | 24"                    | ●     |

Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Hydraulic Angle Roll

## A-FAB 314



**Motion:**  
Side rolls move by hydraulic cylinders, Upper roll is fixed.

**Rotation:**  
All rolls driven by one hydromotor+gearbox

**Shaft Diameters:**  
Top 3.14"; Bottom 2.75"

**Roll Diameters:** 9.64"

**Motor Power:** 5.5 HP

**Max Section Modulus:** .97 in<sup>3</sup>

**Turning Speed:** 19 FPM

**Dimensions:** 58" L x 40" W x 56" H

**Weight:** 3,748 lbs.

### STANDARD

- Steel construction welded frame
- 3 Rolls are powered
- Hardened and ground shafts made of high tensile special steel
- Rolls are hardened and ground
- Horizontal or vertical working position
- Hardened standard rolls
- Mobile control panel
- 3 Axis mechanical lateral angle guide rolls
- Brake motor equipped for precision bending
- Digital Read-Outs (2pcs)

### OPTIONAL

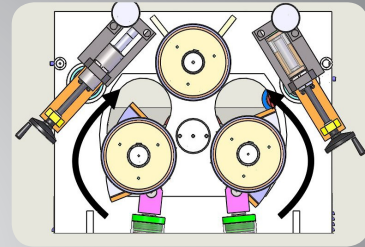
- Pipe, tube and profile bending rolls
- Hydraulic lateral guide rolls (2 axis)
- NC control

| Profile Type |                    |  | A-FAB 314                      |                        | Notes |
|--------------|--------------------|--|--------------------------------|------------------------|-------|
|              |                    |  | Dimensions                     | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 1-3/4" x 1-3/4"<br>5/8" x 5/8" | 20"<br>15"             | ○     |
| 2            | Flat-Along Edge    |  | 4" x 3/4"                      | 79"                    | ○     |
| 3            | Solid - Rectangle  |  | 5" x 1"                        | 24"                    | ○     |
| 4            | Angle Leg-Out      |  | 3" x 3" 5/16"                  | 32"                    | ○●    |
| 5            | Angle Leg-In       |  | 2-3/4" x 2-3/4"<br>1/4"        | 28"                    | ○●    |
| 6            | T Section Leg-Down |  | 3" x 3" x 3/8"                 | 32"                    | ○     |
| 7            | T Section Leg-Out  |  | 3" x 3" x 3/8"                 | 32"                    | ○     |
| 8            | T Section Leg-In   |  | 2-3/4" x 2-3/4" x<br>5/16"     | 32"                    | ○     |
| 9            | Tubing - Square    |  | 2-3/4" x 2-3/4" x<br>0.120"    | 52" ∞                  | ○●    |
| 10           | Tubing - Rectangle |  | 3" x 1" x 0.120"               | 32" ∞                  | ○●    |
| 11           | Solid - Round      |  | ∅2"                            | 20"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1/2" SCH 40<br>3" SCH 40       | 15" ∞<br>32" ∞         | ●     |
| 13           | Tubing - Round     |  | ∅5/8" x 0.040"<br>∅4" x 0.100" | 8" ∞<br>32" ∞          | ●     |
| 14           | C Section Leg-Out  |  | C5-9#                          | 63"                    | ○●    |
| 15           | C Section Leg-In   |  | C5-9#                          | 63"                    | ○●    |
| 16           | I Section Easy Way |  | S4-7.7#                        | 24"                    | ●     |

Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Hydraulic Angle Roll

## A-FAB 393



**Motion:**  
Side rolls move by hydraulic cylinders, Upper roll is fixed.

**Rotation:**  
All rolls driven by one hydromotor+gearbox

**Shaft Diameters:** 3.93"

**Roll Diameters:** 12.4"

**Motor Power:** 10 HP

**Max Section Modulus:** 2.44 in<sup>3</sup>

**Turning Speed:** 22 FPM

**Dimensions:** 79" L x 58" W x 67" H

**Weight:** 8,047 lbs.

### STANDARD

- Steel construction welded frame
- 3 Rolls are hydraulic powered by planetary gearbox
- Hardened and ground shafts made of high tensile special steel
- Rolls are hardened and ground
- Horizontal or vertical working position
- Hardened standard rolls
- Mobile control panel
- 3 Axis mechanical lateral angle guide rolls
- Digital Read-Outs (2pcs)

### OPTIONAL

- Pipe, tube and profile bending rolls
- Hydraulic lateral guide rolls (3 axis)
- Variable turning speed
- NC control



| Profile Type |                    | A-FAB 393                      |                        | Notes |
|--------------|--------------------|--------------------------------|------------------------|-------|
|              |                    | Dimensions                     | Min. Internal Diameter |       |
| 1            | Solid - Square     | 2-3/8" x 2-3/8"<br>5/8" x 5/8" | 30"<br>16"             | ○     |
| 2            | Flat-Along Edge    | 4" x 3/4"                      | 32"                    | ○     |
| 3            | Solid - Rectangle  | 8" x 1-1/4"                    | 50"                    | ○     |
| 4            | Angle Leg-Out      | 4" x 4" 1/2"                   | 40"                    | ○●    |
| 5            | Angle Leg-In       | 4" x 4" 3/8"                   | 40"                    | ○●    |
| 6            | T Section Leg-Down | 4" x 4" x 7/16"                | 40"                    | ○     |
| 7            | T Section Leg-Out  | 4" x 4" x 7/16"                | 40"                    | ○     |
| 8            | T Section Leg-In   | 3-1/2" x 3-1/2" x 3/8"         | 40"                    | ○     |
| 9            | Tubing - Square    | 3" x 3" x 0.200"               | 60" ∞                  | ○●    |
| 10           | Tubing - Rectangle | 4" x 1-1/2" x 0.160"           | 52" ∞                  | ○●    |
| 11           | Solid - Round      | ∅3"                            | 32"                    | ○●    |
| 12           | Schedule 40 Pipe   | 1/2" SCH 40<br>4" SCH 40       | 18" ∞<br>40" ∞         | ●     |
| 13           | Tubing - Round     | ∅5/8" x 0.040"<br>∅5" x 0.100" | 18" ∞<br>56" ∞         | ●     |
| 14           | C Section Leg-Out  | C7-9.8                         | 36"                    | ○●    |
| 15           | C Section Leg-In   | C7-9.8                         | 40"                    | ○●    |
| 16           | I Section Easy Way | S6-12.5#                       | 42"                    | ●     |
| 17           | H Section Easy Way | W4-13#                         | 48"                    | ●     |

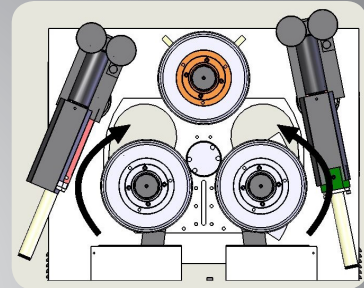
Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Hydraulic Angle Roll

## A-FAB 472



Optional NC Control



**Motion:**

Side rolls move by hydraulic cylinders, Upper roll is fixed.

**Rotation:**

All rolls driven by independent hydromotor+gearboxes

**Shaft Diameters:** 4.72"

**Roll Diameters:** 15.35"

**Motor Power:** 20 HP

**Max Section Modulus:** 4.27 in<sup>3</sup>

**Turning Speed:** 7-24 FPM

**Dimensions:** 79" L x 65" W x 75" H

**Weight:** 10,516 lbs.

### STANDARD

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

### OPTIONAL

- All kind of pipes, tubes, profile rolls and I and U beam attachments are available upon request
- Variable turning speed
- NC control

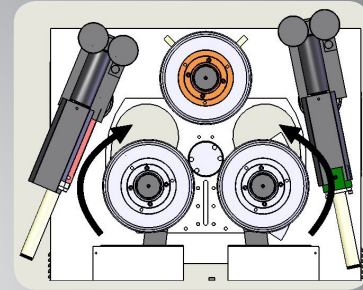
| Profile Type |                    |  | A-FAB 472                      |                        | Notes |
|--------------|--------------------|--|--------------------------------|------------------------|-------|
|              |                    |  | Dimensions                     | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 2-1/2" x 2-1/2"<br>3/4" x 3/4" | 30"<br>20"             | ○     |
| 2            | Flat-Along Edge    |  | 5" x 1"                        | 48"                    | ○     |
| 3            | Solid - Rectangle  |  | 8" x 2"                        | 40"                    | ○     |
| 4            | Angle Leg-Out      |  | 5" x 5" 1/2"                   | 52"                    | ○●    |
| 5            | Angle Leg-In       |  | 4" x 4" 3/8"                   | 48"                    | ○●    |
| 6            | T Section Leg-Down |  | 4" x 4" x 7/16"                | 32"                    | ○     |
| 7            | T Section Leg-Out  |  | 4" x 4" x 7/16"                | 32"                    | ○     |
| 8            | T Section Leg-In   |  | 4" x 4" x 7/16"                | 40"                    | ○     |
| 9            | Tubing - Square    |  | 3-1/2" x 3-1/2" x<br>0.200"    | 71" ∞                  | ○●    |
| 10           | Tubing - Rectangle |  | 5" x 1-1/2" x 0.160"           | 71" ∞                  | ○●    |
| 11           | Solid - Round      |  | Ø3"                            | 30"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 3/4" SCH 40<br>5" SCH 40       | 20" ∞<br>60" ∞         | ●     |
| 13           | Tubing - Round     |  | Ø2" x 0.080"<br>Ø6" x 0.160"   | 20" ∞<br>111" ∞        | ●     |
| 14           | C Section Leg-Out  |  | C9-20#                         | 40"                    | ○●    |
| 15           | C Section Leg-In   |  | C9-20#                         | 48"                    | ○●    |
| 16           | I Section Easy Way |  | S8-18.4#                       | 40"                    | ●     |
| 17           | H Section Easy Way |  | W5-19#                         | 48"                    | ●     |
| 18           | C Section Hard Way |  | C5-9#                          | 200"                   | ●     |
| 19           | I Section Hard Way |  | S6-12.5#                       | 200"                   | ●     |
| 20           | H Section Hard Way |  | W4-13#                         | 63"                    | ●     |

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

○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Hydraulic Angle Roll

## A-FAB 629



### Motion:

Side rolls move by hydraulic cylinders, Upper roll is fixed.

### Rotation:

All rolls driven by independent hydromotor+gearboxes

**Shaft Diameters:** 6.29"

**Roll Diameters:** 19.68"

**Motor Power:** 30 HP

**Max Section Modulus:** 12.2 in<sup>3</sup>

**Turning Speed:** 9-19 FPM

**Dimensions:** 99" L x 93" W x 103" H

**Weight:** 23,590 lbs.

## STANDARD

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

## OPTIONAL

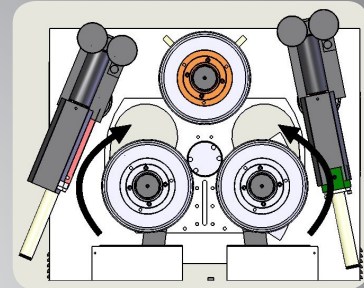
- All kind of pipes, tubes, profile rolls and I and U beam attachments are available upon request
- Variable turning speed
- NC control

| Profile Type |                    |  | A-FAB 629                          |                        | Notes |
|--------------|--------------------|--|------------------------------------|------------------------|-------|
|              |                    |  | Dimensions                         | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 3-1/2" x 3-1/2"<br>1-1/4" x 1-1/4" | 60"<br>28"             | ○     |
| 2            | Flat-Along Edge    |  | 6" x 1-1/4"                        | 100"                   | ○     |
| 3            | Solid - Rectangle  |  | 11" x 2"                           | 60"                    | ○     |
| 4            | Angle Leg-Out      |  | 6" x 6" 3/4"                       | 90"                    | ○●    |
| 5            | Angle Leg-In       |  | 6" x 6" 5/8"                       | 120"                   | ○●    |
| 6            | T Section Leg-Down |  | 6" x 6" x 5/8"                     | 80"                    | ○     |
| 7            | T Section Leg-Out  |  | 6" x 6" x 5/8"                     | 80"                    | ○     |
| 8            | T Section Leg-In   |  | 5" x 5" x 5/8"                     | 100"                   | ○     |
| 9            | Tubing - Square    |  | 4" x 4" x 5/16"                    | 126" ∞                 | ○●    |
| 10           | Tubing - Rectangle |  | 6" x 2" x 3/16"                    | 120" ∞                 | ○●    |
| 11           | Solid - Round      |  | ∅3-1/2"                            | 72"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1" SCH 40<br>6" SCH 40             | 28" ∞<br>100" ∞        | ●     |
| 13           | Tubing - Round     |  | ∅2-1/2" x 0.080"<br>∅7" x 0.160"   | 30" ∞<br>160" ∞        | ●     |
| 14           | C Section Leg-Out  |  | C12-30#                            | 80"                    | ○●    |
| 15           | C Section Leg-In   |  | C12-30#                            | 100"                   | ○●    |
| 16           | I Section Easy Way |  | S12-35#                            | 100"                   | ●     |
| 17           | H Section Easy Way |  | W8-31#                             | 120"                   | ●     |
| 18           | C Section Hard Way |  | C7-14.75#                          | 315"                   | ●     |
| 19           | I Section Hard Way |  | S8-18.4#                           | 200"                   | ●     |
| 20           | H Section Hard Way |  | W5-19#                             | 170"                   | ●     |

Capacity based on mild steel | ∞ Can be changed according to deformation  
○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Hydraulic Angle Roll

## A-FAB 708



### Motion:

Side rolls move by hydraulic cylinders, Upper roll is fixed.

### Rotation:

All rolls driven by independent hydromotor+gearboxes

**Shaft Diameters:** 7.08"

**Roll Diameters:** 22.83"

**Motor Power:** 40 HP

**Max Section Modulus:** 20.74 in<sup>3</sup>

**Turning Speed:** 9-19 FPM

**Dimensions:** 103" L x 95" W x 119" H

**Weight:** 26,456 lbs.

## STANDARD

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

## OPTIONAL

- All kind of pipes, tubes, profile rolls and I and U beam attachments are available upon request
- Variable turning speed
- NC control

| Profile Type |                    |  | A-FAB 708                        |                        | Notes |
|--------------|--------------------|--|----------------------------------|------------------------|-------|
|              |                    |  | Dimensions                       | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 4" x 4"<br>1-1/4" x 1-1/4"       | 72"<br>40"             | ○     |
| 2            | Flat-Along Edge    |  | 7" x 1-1/4"                      | 80"                    | ○     |
| 3            | Solid - Rectangle  |  | 11" x 2-3/8"                     | 72"                    | ○     |
| 4            | Angle Leg-Out      |  | 7" x 7" 3/4"                     | 80"                    | ○●    |
| 5            | Angle Leg-In       |  | 7" x 7" 5/8"                     | 100"                   | ○●    |
| 6            | T Section Leg-Down |  | 6" x 6" x 3/4"                   | 80"                    | ○     |
| 7            | T Section Leg-Out  |  | 6" x 6" x 3/4"                   | 80"                    | ○     |
| 8            | T Section Leg-In   |  | 5" x 5" x 3/4"                   | 105"                   | ○     |
| 9            | Tubing - Square    |  | 6" x 6" x 5/16"                  | 178" ∞                 | ○●    |
| 10           | Tubing - Rectangle |  | 8" x 4" x 5/16"                  | 210" ∞                 | ○●    |
| 11           | Solid - Round      |  | ∅4-3/8"                          | 62"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 2" SCH 40<br>8" SCH 40           | 40" ∞<br>160" ∞        | ●     |
| 13           | Tubing - Round     |  | ∅2-1/2" x 0.080"<br>∅8" x 0.200" | 30" ∞<br>315" ∞        | ●     |
| 14           | C Section Leg-Out  |  | C12-30#                          | 72"                    | ○●    |
| 15           | C Section Leg-In   |  | C12-30#                          | 90"                    | ○●    |
| 16           | I Section Easy Way |  | S12-50#                          | 110"                   | ●     |
| 17           | H Section Easy Way |  | W8-40#                           | 100"                   | ●     |
| 18           | C Section Hard Way |  | C9-20#                           | 315"                   | ●     |
| 19           | I Section Hard Way |  | S8-23#                           | 180"                   | ●     |
| 20           | H Section Hard Way |  | W5-19#                           | 160"                   | ●     |

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

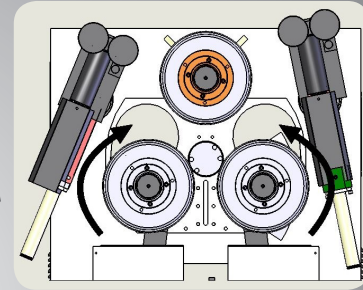
○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Hydraulic Angle Roll

## A-GIANT 944



Optional NC Control



### Motion:

Side rolls move by hydraulic cylinders, Upper roll is fixed.

### Rotation:

All rolls driven by independent hydromotor+gearboxes

**Shaft Diameters:** 9.44"

**Roll Diameters:** 27.55"

**Motor Power:** 60 HP

**Max Section Modulus:** 45.76 in<sup>3</sup>

**Turning Speed:** 6-13 FPM

**Dimensions:** 122" L x 95" W x 126" H

**Weight:** 62,832 lbs.

## STANDARD

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

## OPTIONAL

- All kind of pipes, tubes, profile rolls and I and U beam attachments are available upon request
- Variable turning speed
- NC control

| Profile Type |                    |  | A-GIANT 944     |                        | Notes |
|--------------|--------------------|--|-----------------|------------------------|-------|
|              |                    |  | Dimensions      | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 5" x 5"         | 96"                    | ○     |
| 2            | Flat-Along Edge    |  | 8" x 2-3/4"     | 150"                   | ○     |
| 3            | Solid - Rectangle  |  | 15" x 3"        | 100"                   | ○     |
| 4            | Angle Leg-Out      |  | 8" x 8" 3/4"    | 120"                   | ○●    |
| 5            | Angle Leg-In       |  | 8" x 8" 3/4"    | 160"                   | ○●    |
| 6            | T Section Leg-Down |  | 8" x 8" x 1"    | 120"                   | ○     |
| 7            | T Section Leg-Out  |  | 8" x 8" x 1"    | 120"                   | ○     |
| 8            | T Section Leg-In   |  | 8" x 8" x 1"    | 138"                   | ○     |
| 9            | Tubing - Square    |  | 8" x 8" x 3/8"  | 240" ∞                 | ○●    |
| 10           | Tubing - Rectangle |  | 12" x 4" x 3/8" | 315" ∞                 | ○●    |
| 11           | Solid - Round      |  | ∅6"             | 120"                   | ○●    |
| 12           | Schedule 40 Pipe   |  | 10" SCH 40      | 200" ∞                 | ●     |
| 13           | Tubing - Round     |  | ∅12" x 0.250"   | 354" ∞                 | ●     |
| 14           | C Section Leg-Out  |  | C15-50#         | 120"                   | ○●    |
| 15           | C Section Leg-In   |  | C15-50#         | 138"                   | ○●    |
| 16           | I Section Easy Way |  | S18-70#         | 138"                   | ●     |
| 17           | H Section Easy Way |  | W12-79#         | 158"                   | ●     |
| 18           | C Section Hard Way |  | C10-25#         | 473"                   | ●     |
| 19           | I Section Hard Way |  | S12-35#         | 473"                   | ●     |
| 20           | H Section Hard Way |  | W8-40#          | 276"                   | ●     |

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

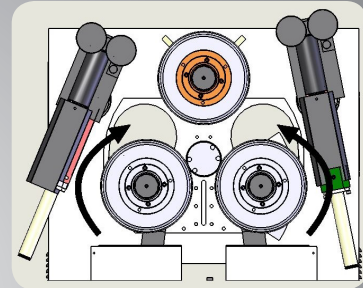
○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# Hydraulic Angle Roll

## A-GIANT 1181



Optional NC Control



### Motion:

Side rolls move by hydraulic cylinders, Upper roll is fixed.

### Rotation:

All rolls driven by independent hydromotor+gearboxes

**Shaft Diameters:** 11.81"

**Roll Diameters:** 31.49"

**Motor Power:** 100 HP

**Max Section Modulus:** 91.53 in<sup>3</sup>

**Turning Speed:** 6-13 FPM

**Dimensions:** 197" L x 168" W x 148" H

**Weight:** 84,879 lbs.

## STANDARD

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

## OPTIONAL

- All kind of pipes, tubes, profile rolls and I and U beam attachments are available upon request
- Variable turning speed
- NC control

| Profile Type |                    |  | A-GIANT 1181     |                        | Notes |
|--------------|--------------------|--|------------------|------------------------|-------|
|              |                    |  | Dimensions       | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 7" x 7"          | 100"                   | ○     |
| 2            | Flat-Along Edge    |  | 10" x 4"         | 122"                   | ○     |
| 3            | Solid - Rectangle  |  | 20" x 4"         | 100"                   | ○     |
| 4            | Angle Leg-Out      |  | 10" x 10" 1"     | 160"                   | ○●    |
| 5            | Angle Leg-In       |  | 10" x 10" 1"     | 180"                   | ○●    |
| 6            | T Section Leg-Down |  | 10" x 10" 1"     | 120"                   | ○     |
| 7            | T Section Leg-Out  |  | 10" x 10" 1"     | 120"                   | ○     |
| 8            | T Section Leg-In   |  | 9" x 9" x 3/4"   | 158"                   | ○     |
| 9            | Tubing - Square    |  | 10" x 10" x 1/2" | 305" ∞                 | ○●    |
| 10           | Tubing - Rectangle |  | 16" x 8" x 3/8"  | 433" ∞                 | ○●    |
| 11           | Solid - Round      |  | ∅8"              | 216"                   | ○●    |
| 12           | Schedule 40 Pipe   |  | 12" SCH 40       | 315" ∞                 | ●     |
| 13           | Tubing - Round     |  | ∅14" x 0.250"    | 423" ∞                 | ●     |
| 14           | C Section Leg-Out  |  | C15-50#          | 98"                    | ○●    |
| 15           | C Section Leg-In   |  | C15-50#          | 112"                   | ○●    |
| 16           | I Section Easy Way |  | S20-96#          | 120"                   | ●     |
| 17           | H Section Easy Way |  | W18-119#         | 200"                   | ●     |
| 18           | C Section Hard Way |  | C12-30#          | 580"                   | ●     |
| 19           | I Section Hard Way |  | S15-50#          | 413"                   | ●     |
| 20           | H Section Hard Way |  | W10-68#          | 375"                   | ●     |

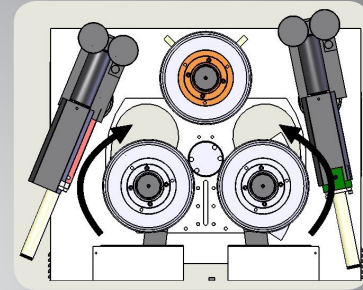
Capacity based on mild steel | ∞ Can be changed according to deformation

○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools



# Hydraulic Angle Roll

## A-GIANT 1417



### Motion:

Side rolls move by hydraulic cylinders, Upper roll is fixed.

### Rotation:

All rolls driven by independent hydromotor+gearboxes

**Shaft Diameters:** 14.17"

**Roll Diameters:** 33.46"

**Motor Power:** 105 HP

**Max Section Modulus:** 274.6 in<sup>3</sup>

**Turning Speed:** 6-13 FPM

**Dimensions:** 187" L x 130" W x 134" H

**Weight:** 121,255 lbs.

## STANDARD

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

## OPTIONAL

- All kind of pipes, tubes, profile rolls and I and U beam attachments are available upon request
- Variable turning speed
- NC control

| Profile Type |                    |  | A-GIANT 1417     |                        | Notes |
|--------------|--------------------|--|------------------|------------------------|-------|
|              |                    |  | Dimensions       | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 8" x 8"          | 126"                   | ○     |
| 2            | Flat-Along Edge    |  | 12" x 4"         | 126"                   | ○     |
| 3            | Solid - Rectangle  |  | 22" x 5"         | 126"                   | ○     |
| 4            | Angle Leg-Out      |  | 10" x 10" 1"     | 160"                   | ○●    |
| 5            | Angle Leg-In       |  | 10" x 10" 1"     | 180"                   | ○●    |
| 6            | T Section Leg-Down |  | 10" x 10" 1"     | 120"                   | ○     |
| 7            | T Section Leg-Out  |  | 10" x 10" 1"     | 120"                   | ○     |
| 8            | T Section Leg-In   |  | 10" x 10" x 1"   | 158"                   | ○     |
| 9            | Tubing - Square    |  | 12" x 12" x 5/8" | 400" ∞                 | ○●    |
| 10           | Tubing - Rectangle |  | 20" x 10" x 5/8" | 550" ∞                 | ○●    |
| 11           | Solid - Round      |  | ∅9"              | 244"                   | ○●    |
| 12           | Schedule 40 Pipe   |  | 16" SCH 40       | 472" ∞                 | ●     |
| 13           | Tubing - Round     |  | ∅18" x 0.300"    | 590" ∞                 | ●     |
| 14           | C Section Leg-Out  |  | C15-50#          | 88"                    | ○●    |
| 15           | C Section Leg-In   |  | C15-50#          | 92"                    | ○●    |
| 16           | I Section Easy Way |  | S24-121#         | 200"                   | ●     |
| 17           | H Section Easy Way |  | W24-146#         | 255"                   | ●     |
| 18           | C Section Hard Way |  | C15-50#          | 826"                   | ●     |
| 19           | I Section Hard Way |  | S18-54.7#        | 787"                   | ●     |
| 20           | H Section Hard Way |  | W12-87#          | 473"                   | ●     |

Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

# CNC Angle Roll

## AB-4 CNC



RMT AB series angle rolls are designed to form steel or aluminium tubes and profiles. OUR CNC control technology can calculate all bending steps. Creation of the programs has never been easier or faster or the bending results better than with our new CNC control.

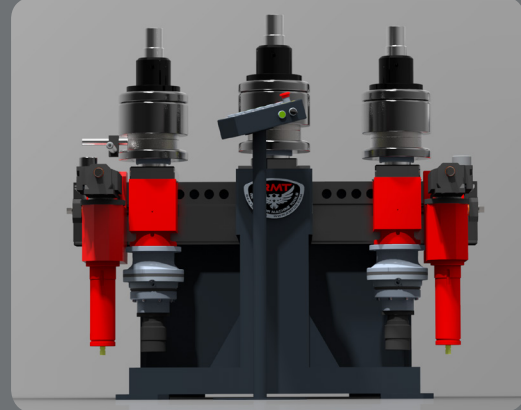
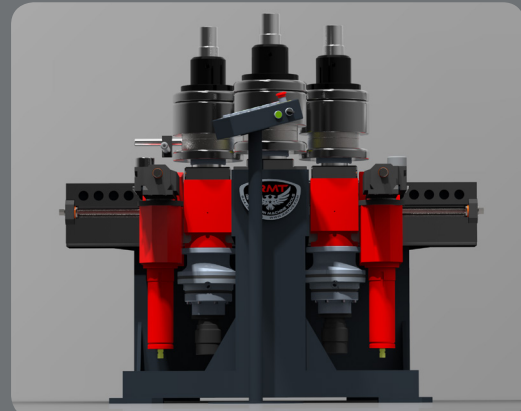
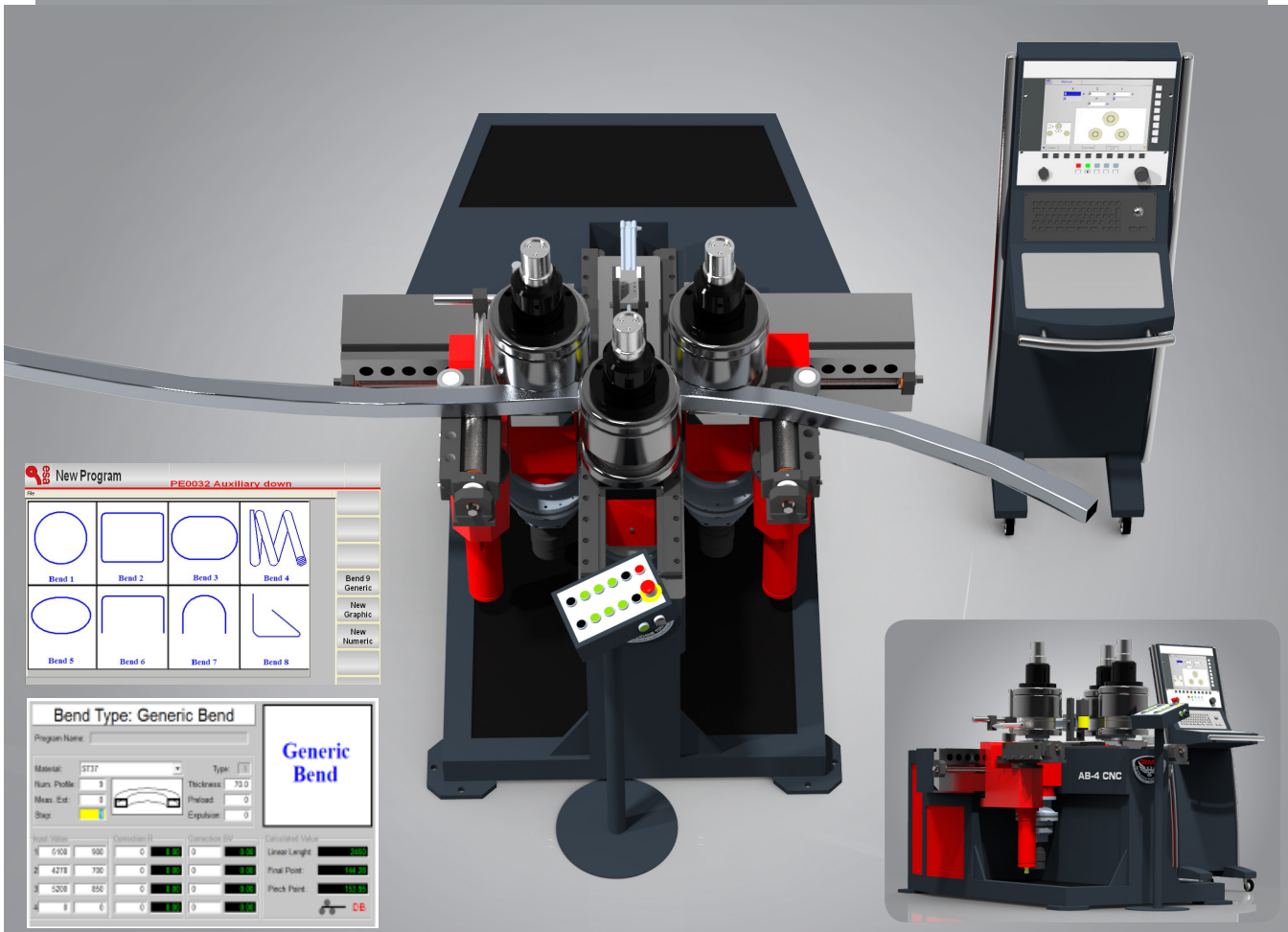
The side roll can be variably adjustable. The AB is also suitable for bending heavy profiles precisely and with high quality. The dies are a modular design made from individual discs. The roller discs can be expanded and combined arbitrarily. Roller disc combinations can be made from steel and plastic.

All rolls are individually and directly driven. No chain drives or sliding clutches are used. The speed is automatically adapted to the diameter of the rollers as well as the profile width and the bending radius. Damage to the profile is avoided and the greatest possible feed force is achieved. The drives offer the highest torque, are maintenance-free and overload-proof.












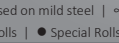



### SPECIFICATIONS OF AB-4

|   |                 |   |
|---|-----------------|---|
| Section modulus (max)                       | in <sup>3</sup> | 6.10  |
| Max. Rectangle tube bending capacity        | inches          | HSS-6x3x.250 (A36)  |
| Max. Square tube bending capacity           | inches          | HSS-5x5x.250 (A36)  |
| Max. Round tube bending capacity            | inches          | 6" SCH 40 (A36)   |
| Shaft Diameters                             | inches          | 3.54  |
| Rolls Diameters                             | inches          | 8.26 – 11.02  |
| Shaft Length                                | inches          | 12.20   |
| Max travelling distance of central roll (X) | inches          | 16.14   |
| Hydraulic bending force of central roll (X) | US Ton          | 57  |
| Hydraulic bending torque                    | lb-ft           | 3 x 2655  |
| Side rolls opening distances                | inches          | 17.32-23.62-28.34-33.07-37.79-43.30-47.24-51.97   |
| Side supports stroke (Z1-Z2)                | inches          | 5.11  |
| Bending speed                               | Rpm             | 0-20 Can be adjustable  |
| Number of axes                              | #               | X, R optional (Z1,Z2)   |
| Positioning                                 |                 | Via hydraulic proportional flow control.  |
| Air Pressure                                | PSI             | 87  |
| CNC control                                 |                 | Esa   |
| Electrical hardware                         |                 | Siemens, Schneider, Weid-Müller, Merlin-Gerin, 1 <sup>st</sup> class electrical cabinet |
| Hydraulic Hardware                          |                 | Duplomatic (Made in Italy)  |
| Dimensions (LxWxH)                          | inches          | 77x65x59  |
| Weight                                      | Lbs             | 7936  |
| Operating Voltages                          | V               | 480 / 3PH / 60Hz  |
| Power Consumption                           | HP              | 30  |
| Full Load Amps (380 V / 3 phase)            | Amps            | 43  |

# CNC Angle Roll

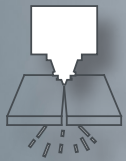


**Variably adjustable side rolls & Direct drive rolls**

| Profile Type |                    |  | AB-4                         |                        | Notes |
|--------------|--------------------|--|------------------------------|------------------------|-------|
|              |                    |  | Dimensions                   | Min. Internal Diameter |       |
| 1            | Solid - Square     |  | 1" x 1"<br>3" x 3"           | 20"<br>48"             | ○     |
| 2            | Flat-Along Edge    |  | 5" x 1"                      | 48"                    | ○     |
| 3            | Solid - Rectangle  |  | 10" x 1"                     | 40"                    | ○     |
| 4            | Angle Leg-Out      |  | 4" x 4" 3/8"                 | 80"                    | ○●    |
| 5            | Angle Leg-In       |  | 4" x 4" 3/8"                 | 100"                   | ○●    |
| 6            | T Section Leg-Down |  | 5" x 5" x 1/2"               | 80"                    | ○     |
| 7            | T Section Leg-Out  |  | 5" x 5" x 1/2"               | 80"                    | ○     |
| 8            | T Section Leg-In   |  | 5" x 5" x 1/2"               | 100"                   | ○     |
| 9            | Tubing - Square    |  | 4" x 4" x 0.250"             | 60" ∞                  | ○●    |
| 10           | Tubing - Rectangle |  | 5" x 2-1/2" x 0.187"         | 80" ∞                  | ○●    |
| 11           | Solid - Round      |  | ∅3-1/2"                      | 60"                    | ○●    |
| 12           | Schedule 40 Pipe   |  | 1" SCH 40<br>6" SCH 40       | 15∞<br>120"∞           | ●     |
| 13           | Tubing - Round     |  | ∅1" x 0.080"<br>∅4" x 0.100" | 15"∞<br>40"∞           | ●     |
| 14           | C Section Leg-Out  |  | C10-20#                      | 60"                    | ○●    |
| 15           | C Section Leg-In   |  | C10-20#                      | 65"                    | ○●    |
| 16           | I Section Easy Way |  | S6-12.5#                     | 60"                    | ●     |

Capacity based on mild steel | ∞ Can be changed according to deformation  
 ○ Standard Rolls | ● Special Rolls | X Special Support Rolls | ▲ Special Tools

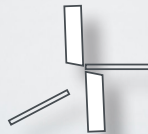
# KYSON



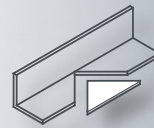
*Fiber Lasers*



*Press Brakes*



*Shears*



*Ironworkers*



*Bandsaws*



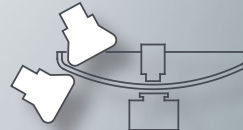
*Plate Rolls*



*Angle Rolls*



*Dishing Presses*



*Flanging Machines*



*Drilling Machines*

*"If you need a machine and don't buy it, you'll find that you have paid for it anyway, but don't have it."  
Henry Ford*

Revolution Machine Tools

385 N 700 W  
North Salt Lake, UT 84054



Phone: 844.RMT.INFO  
844.768.4636

[www.RMTUS.com](http://www.RMTUS.com)  
[info@rmtus.com](mailto:info@rmtus.com)