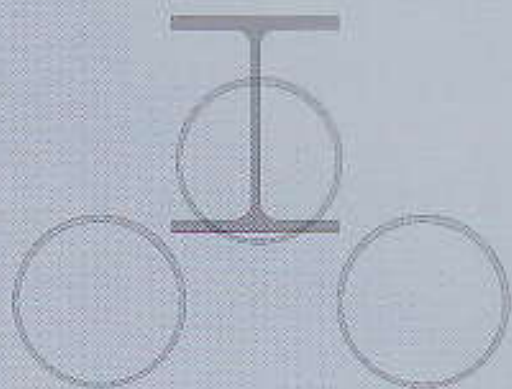


DAVI
EXCELLENCE IN FORMING



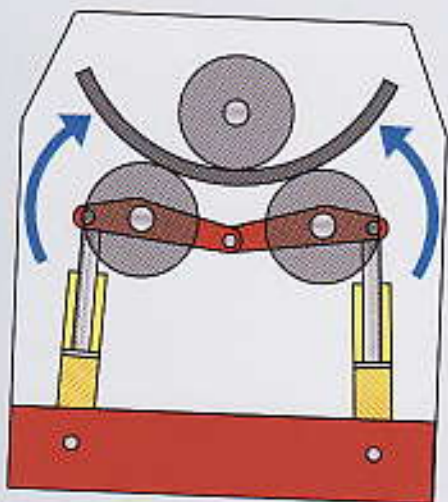
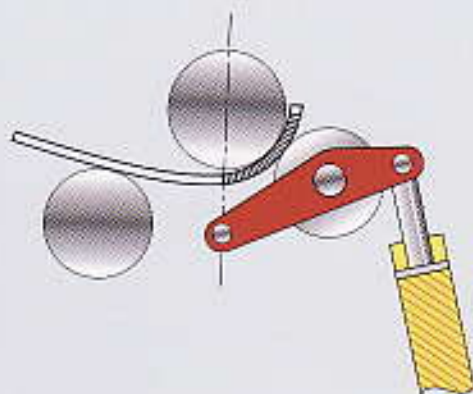
MCP
three roll (double pinch)
section roll **DIGITAL**

www.davi.com

PSG: PLANETARY SWING GUIDES

The forming side rolls swing into position by means of heavy duty rocker arms. Because of the radial movement, the forming rolls reach a higher position.

- Tighter diameters (1.1 x top roll diameter)
- Friction free smooth positioning
- High accuracy
- Shorter flats because of the high leverage factor
- Reduces material spring-back



EST - ENERGY SAVING TECH

High efficiency components combined with state of the art engineering has reduced substantially load losses.

- Full force available for rolling power
- Friction Free planetary swing guides
- Spherical self-aligning double roller bearings
- Friction Free bushings

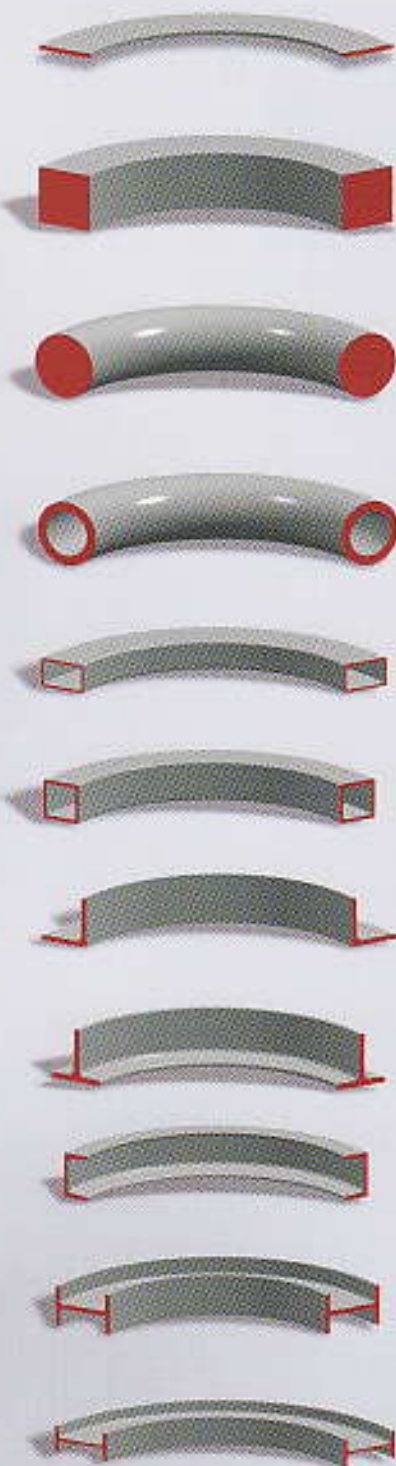
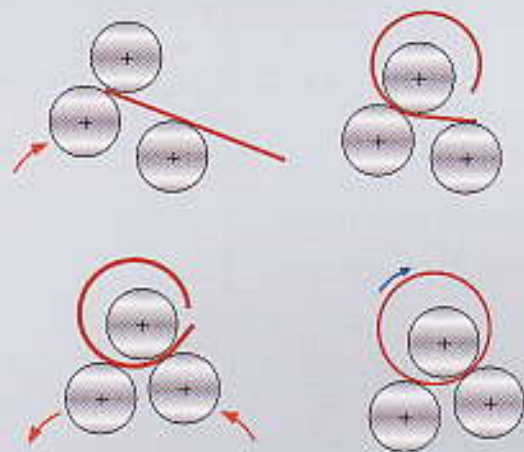


Three Roll (Double Pinch) Section Roll Configuration

- Double pinch pre-bending machine with independent hydraulic adjustment of both side forming rolls to reduce to the minimum the straight edge (Pre-bending of the leading and trailing edge).
- Tri-dimensional operated guiding rolls, on mid and heavy sizes, adjustable in three direction (up-down; in-out; toward-away) to compensate for angles leg-out and leg-in distortion (bidimensional on light sizes).
- Large, high strength steel shafts, rotating in high-dynamic dual self-aligning spherical roller bearings for optimum performance and efficiency
- Modular components universal tooling, in high-grade steel, hardened up to 60 HRC Rockwell and wear-resistant, adjustable to create the required grooves to fit the profiles to be formed.
- Machine operates in both vertical and horizontal positions, according with production needs.



DAVI double pinch NEW design MCP series is the newest, most advanced and appropriate solution suitable for bending standard sections such as flat bars (on flat and on edge), square bars, tees, channels, angles leg-out and leg-in, square and rectangular tube sections, tube bars and pipes in mild and stainless steel, aluminium, brass, copper, as well as other alloy materials.



THE DAVI "HI-TECH" IN SECTION AND BEAM BENDING



HEAVY DUTY BEAM
BENDERS, AVAILABLE
FOR GIANT STEEL
CONSTRUCTION



OPTIONAL EQUIPMENTS

- L.E.D. readouts of the two forming rolls (X and Y axis)
- L.E.D. readout displaying the amount of material fed through the rolls (S axis)
- L.E.D. readout of the two guiding rolls (four or six axis)
- Tooling for pipes and tubes
- Hydraulic traction tooling for beams
- Hydraulic Overhead support

TOOLING

Universal bending rolls with modular components, in high-grade steel, hardened up to 60 Hrc Rockwell and wear-resistant, adjustable to create the required grooves to fit the profiles to be formed



MCP SERIES: STANDARD EQUIPMENTS

FULLY HYDRAULIC SYSTEM



- All machine movements are hydraulically activated:
- All three (3) rolls are powered, insuring an excellent and strong plate feeding on any thickness material, with the lowest surface damage.
- Three (3) independent hydraulic motors and three high torque planetary drives (one for each roll), on mid and heavy sizes directly connected on each roll axis, for a powerful torque transmission (one hydraulic motor and gears on light sizes)
- High rolling speed for quick rolling cycles.
- Hydraulic brake valves stop rotation instantaneously.
- Full overload protection.
- Continuous filtration system.
- Off the shelf, high quality hydraulic components.

AUTOMATIC PERIPHERAL SPEED COMPENSATION

Since speeds inside and outside diameters are different, the top roll must turn slower than the side forming rolls, particularly on tall sections. The Hydraulic system is designed to permanent automatic compensate for the different peripheral speeds.

PLT: PERMANENT LUBRICATION TECHNOLOGY












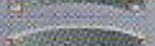








Davi utilizes off the shelf, high quality components, lifetime lubrication-free

- No lubrication required
- Bearings are sealed to protect against mill-scale, dust and rust
- More production time available
- Premature wear due to lack of regular maintenance is eliminated

SAFETY EQUIPMENTS & FEATURES



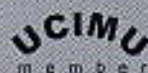
- Multi system safety devices stop all machine movements
- E-Stop button on the operator console
- Safety joy-sticks controls
- Perimetral safety cable
- Locked certified Rittal electrical cabinet

| Model | MCP | | | | | | MCP beam bender | |
|---|-------------------|--------------|---------------|---------------|---------------|----------------|-----------------|-------------|
| | 3211 | 3214 | 3218 | 3220 | 3226 | 3232 | 3236 | |
|  | 100x25 ø700 | 125x32 ø1000 | 150x40 ø1400 | 175x45 ø1600 | 200x50 ø1800 | 250x70 ø1800 | 300x100 ø2500 | |
|  | 200x35 ø600 | 220x50 ø1000 | 250x60 ø1400 | 320x65 ø1600 | 400x70 ø1800 | 500x80 ø1800 | 650x120 ø2000 | |
|  | 60 ø600 | 80 ø1200 | 100 ø1500 | 115 ø1500 | 130 ø1800 | 150 ø2200 | 240 ø2400 | |
|  | 75 ø900 | 90 ø1100 | 110 ø1200 | 130 ø1400 | 150 ø1500 | 180 ø2200 | 260 ø2000 | |
|  | 100x12 ø1000 | 120x15 ø1300 | 150x16 ø1400 | 180x18 ø1800 | 200x25 ø2500 | 250x25 ø3500 | | |
|  | 100x10 ø1000 | 120x13 ø1100 | 150x12 ø1500 | 180x15 ø2000 | 200x20 ø2000 | 200x25 ø2500 | | |
|  | 100x12 ø800 | 120x15 ø1000 | 150x16 ø1000 | 180x18 ø1400 | 200x25 ø2500 | 250x25 ø3000 | | |
|  | 100x10 ø800 | 120x13 ø1000 | 150x15 ø1200 | 180x15 ø1600 | 200x20 ø2000 | 225 ø3000 | | |
|  | 100x12 ø1000 | 120x15 ø1000 | 150x16 ø1000 | 180x18 ø1400 | 200x25 ø2000 | 280 ø4000 | | |
|  | 120x50x4 | 150x50x5 | 180x70x8 | 200x75x8 | 230x100x10 | 250x125x12 | 500x250x15 | |
|  | 80x6 | 100x8 | 120x10 | 150x10 | 180x12 | 225x12 | 400x16 | |
|  | 180x70 ø800 | 220x80 ø900 | 300x100 ø1100 | 360x150 ø1300 | 475x150 ø1500 | 550x150 ø2200 | 1000 ø4000 | |
|  | 180x70 ø1000 | 220x80 ø1100 | 300x100 ø1200 | 360x150 ø1600 | 475x150 ø2500 | 550x150 ø3000 | 1000 ø4000 | |
|  | 180x82 ø1000 | 220x98 ø1000 | 300x125 ø1100 | 360x145 ø1200 | 450x170 ø1500 | 600x215 ø2200 | 1000 ø5000 | |
|  | A 120 ø1000 | A 160 ø1100 | A 180 ø1100 | A 220 ø2500 | A 280 ø3000 | A 450 ø3500 | A 1000 ø6000 | |
|  | 140x3 ø2800 | 180x4 ø4000 | 220x4 ø5000 | 275x5 ø8000 | 324x5 ø10000 | 375x6 ø14000 | 508 ø15000 | |
|  | 100x5.7 ø700 | 140x6 ø1400 | 170x7 ø2000 | 220x8 ø5000 | 273x10 ø8000 | 325x10 ø5000 | 406.4 ø12000 | |
|  | 120x55 ø3000 | 150x60 ø4000 | 180x70 ø5000 | 220x80 ø7000 | 260x90 ø10000 | 300x100 ø10000 | 400 ø40000 | |
|  | 120x58 ø3000 | 150x70 ø4000 | 180x82 ø5000 | 240x98 ø7000 | 300x125 ø4000 | 360x143 ø6000 | 550 ø20000 | |
|  | A 100 ø3000 | A 120 ø4000 | A 160 ø5000 | A 200 ø7000 | A 240 ø9000 | A 280 ø12000 | A 550 ø40000 | |
| Section Modulus | W cm ³ | 40 - 70 | 80 - 150 | 120 - 220 | 240 - 450 | 360 - 600 | 600 - 1100 | 1500 - 4700 |
| Shafts ø | mm | 110 | 140/120 | 180/160 | 200/180 | 260/240 | 320/300 | 360/340 |
| Rolls ø | mm | 315 | 390 | 470 | 560 | 680 | 800 | 840 |
| Electric power | HP | 15 | 20 | 25 | 30 | 50 | 100 | 150 |

* All sizes in mm.



PROMAU S.r.l.
Via Civinelli 1150
47020 Cesena (FC) ITALY
Tel. +39 0547 319611
Fax +39 0547 317850
e-mail: davi-sales@davi.com
web: www.davi.com



DAVI partner

