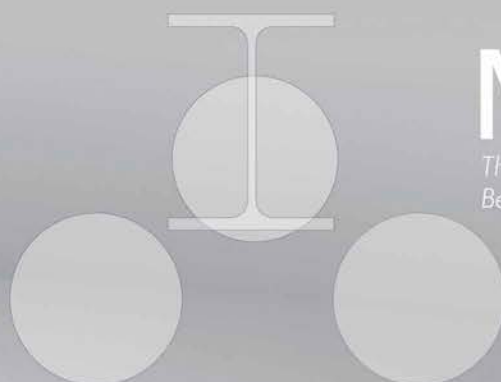




EXCELLENCE IN FORMING

[www.davi.com](http://www.davi.com)



MCP

Three Rolls Section  
Bending Machine (Double Pinch)



**SOLID, COMPACT AND MOST ADVANCED TECHNOLOGY**  
For the best productivity



**A COMPLETE RANGE OF QUALITY  
AND HEAVY DUTY MACHINES**  
.....

**THREE POWERED ROLLS**  
WITH THREE SYNCHRONIZED HYDRAULIC MOTORS  
(ONE FOR EACH ROLL) TO CARRY MORE  
TORQUE AND TO FEED EASIER ANY SECTION  
.....



**ALL MACHINES EQUIPPED WITH  
3-D GUIDING ROLL**  
TO GUIDE AND CORRECT  
AT THE BEST ANY SECTION  
FROM DEFLECTING  
.....

**STRONGER, PRECISE AND MORE RELIABLE...**  
**...New DAVI MCP Angle Roll!**

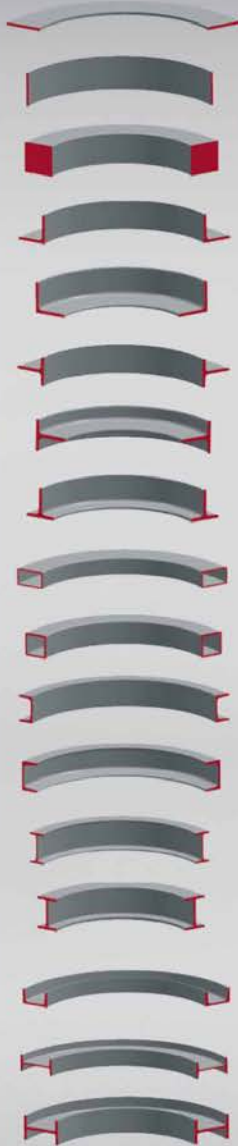


**THE ENTIRE RANGE OF DAVI ANGLE ROLLS OFFER UNCOMPARABLE BENEFITS**



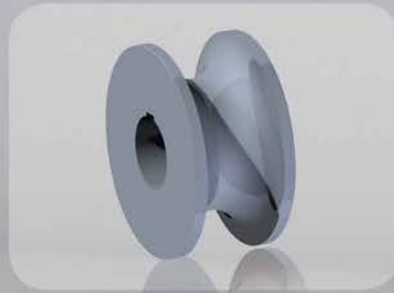
- A:** Large diameter shafts
- B:** Modular rolls perfectly interchangeable with any standard, universal and special customized roll
- C:** Heavy duty hydraulic guide rolls
- D:** Sturdy, high resistance frame
- E:** Hydraulic pulling roll unit for bending I - U and H beams the hard way





### UNIVERSAL ROLLS

THE MACHINE IS SUPPLIED WITH ONE SET OF "UNIVERSAL" ROLLS AS STANDARD EQUIPMENT, ABLE TO BEND THE MOST COMMON SECTIONS.

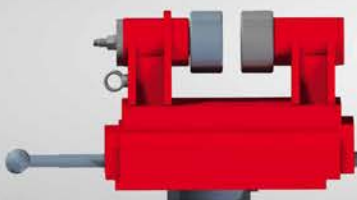


**AN ENDLESS RANGE OF ACCESSORIES**  
TO ANSWER TO ANY NEEDS

**HYDRAULIC PULLING ROLL UNIT**  
FOR BENDING I - U AND H BEAMS THE HARD WAY



**ROLLS FOR HYDRAULIC PULLING**  
UNIT FOR HEA - HEB AND IPE SECTIONS



**ROLLS FOR HYDRAULIC PULLING**  
UNIT FOR IPN SECTIONS



**ROLLS FOR HYDRAULIC PULLING**  
UNIT FOR UPN SECTIONS



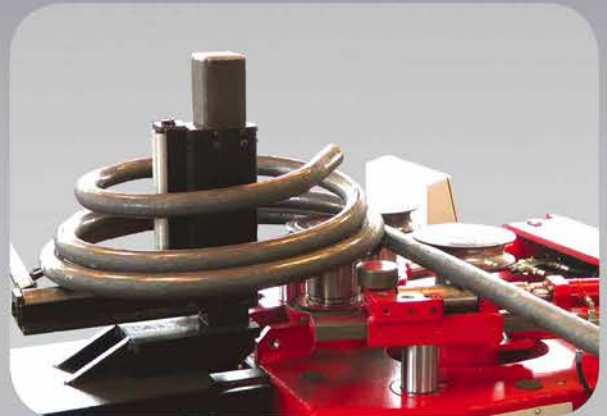
**STRONGER, PRECISE AND MORE RELIABLE...**  
**...New DAVI MCP Angle Roll!**



**PITCH  
CONTROL  
FOR SPIRAL  
BENDING**  
.....



**CONICAL SPIRAL**  
.....



**HORIZONTAL CONVEYOR  
FOR BOILERS SPIRALS**  
.....



**SPECIAL ROLLS  
FOR BULB FLATS**  
.....

**SPECIAL ROLLS  
FOR TUBE BENDING**  
.....



**HOLLOW SECTIONS  
MANDRELS BENDING**  
.....



**3D SYSTEM**





**SOLID, COMPACT AND MOST ADVANCED TECHNOLOGY**  
For the best productivity





**SOLID, COMPACT AND MOST ADVANCED TECHNOLOGY**  
For the best productivity



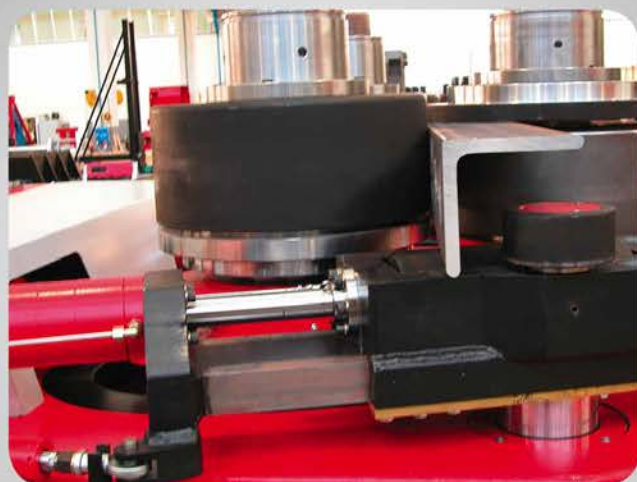
MCP 32 UPN 550



MCP 20 HEB 180



MCP 26 IPE 270



MCP 32 ANGLE 200



MCP 32 HEA 300



MCP 11 TUBE 141 mm



MCP 30 IPE 300



MCP 36 HEA 550



MCP 26 TUBE 324 mm



MCP 26 IPE 270



MCP 32 SQUARE HOLLOW 225 x 12



MCP 14 SQUARE BAR 80 x 80

**STRONGER, PRECISE AND MORE RELIABLE...**  
**...New DAVI MCP Angle Roll!**



MCP 20 HEA 200



MCP 30 IPE 500



MCP 28 IPE 450



MCP 36 HEA 550

**STRONGER, PRECISE AND MORE RELIABLE...**  
...New DAVI MCP Angle Roll!

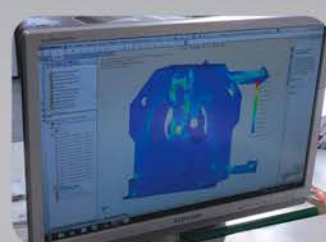




**SOLID, COMPACT AND MOST ADVANCED TECHNOLOGY**  
For the best productivity

## KNOW-HOW

DAVI engineering has 50 years of technological experience in the heavy plate rolling industry.



## DAVI UTMOST LEVEL OF QUALITY CONTROL

100% Made in Italy, total quality management (ISO 9001).



ISO  
9001



## READY FOR IMMEDIATE DELIVERY

Dozens of machines (often more than 100), even those for heavy industries, are finished and ready for immediate delivery. As the production is determined not only on orders received, but for its own inventory, DAVI can offer THE SHORTEST DELIVERY TIME.



# STRONGER, PRECISE AND MORE RELIABLE... ...New DAVI MCP Angle Roll!



## THE ONLY CUSTOMER CARE IN ROLLING INDUSTRY

Customer care satisfaction is the DAVI way to conduct business.

Performed by professional, experienced, and specialized customer care Training Team:



**16** qualified and dedicated  
service engineers worldwide

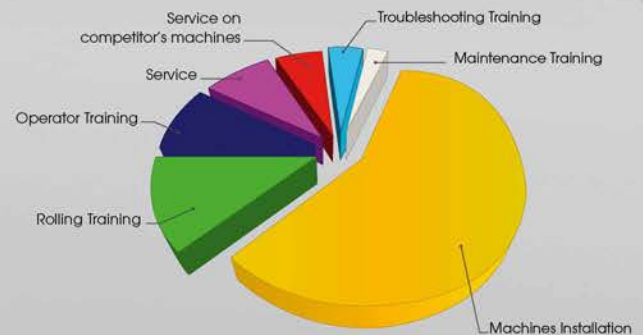


## MASTER TRAINER

Master trainer (available for  
angle roll customers training)



DAVI Customer Care  
provides the following services:



## 11.000 PARTS ON SHELF

More than 11.000 parts are available on shelf, in one of the largest Logistic Centers of the fabricating machine industry, are used for machines production or, if needed, as spare parts, to be shipped **ON SAME-DAY BASIS** to our clients.



## DAVI CONTROLS: MAKES IT ALL!



| MODEL                                                                              |                   |                            | MCP                            |                                |                                |                                |                                 |                                 |                                  |
|------------------------------------------------------------------------------------|-------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|----------------------------------|
|                                                                                    |                   |                            | 11                             | 14                             | 18                             | 20                             | 24                              | 26                              | 28                               |
|    | 1 a               | flat on edge               | 100 x 25 ø700                  | 125 x 32 ø1000                 | 150 x 40 ø1400                 | 180 x 50 ø1600                 | 180 x 60 ø1600                  | 200 x 60 ø1800                  | 200 x 60 ø1600                   |
|    | 2 a               | flat on flat               | 200 x 35 ø600                  | 220 x 50 ø1000                 | 250 x 60 ø1400                 | 330 x 70 ø1400                 | 340 x 80 ø1400                  | 400 x 80 ø1800                  | 420 x 90 ø1900                   |
|    | 3 a               | square                     | 65 ø680                        | 85 ø1200                       | 105 ø1600                      | 120 ø1500                      | 130 ø1700                       | 140 ø1900                       | 150 ø2200                        |
|    | 4 a               | round                      | 75 ø900                        | 90 ø1100                       | 110 ø1200                      | 130 ø1400                      | 140 ø1200                       | 150 ø1500                       | 160 ø1500                        |
|    | 5 a**             | L leg out                  | 100 x 12 ø1000                 | 120 x 15 ø1300                 | 150 x 16 ø1200                 | 180 x 18 ø1800                 | 200 x 20 ø2000                  | 200 x 25 ø2500                  | 200 x 28 ø2500                   |
|    | 6 a**             | L leg in                   | 100 x 10 ø1000                 | 120 x 13 ø1100                 | 150 x 15 ø1500                 | 180 x 15 ø2000                 | 180 x 20 ø2500                  | 200 x 20 ø2000                  | 200 x 25 ø2500                   |
|    | 7 a               | T leg out                  | 100 x 12 ø800                  | 120 x 15 ø1000                 | 150 x 16 ø1000                 | 180 x 18 ø1400                 | 200 x 20 ø2000                  | 200 x 25 ø2500                  | 200 x 28 ø2500                   |
|    | 8 a               | T leg in                   | 100 x 10 ø800                  | 120 x 13 ø1000                 | 150 x 15 ø1200                 | 180 x 15 ø1600                 | 180 x 20 ø2500                  | 200 x 20 ø2000                  | 200 x 25 ø2000                   |
|    | 9 a               | T on one side              | 100 x 12 ø1000                 | 120 x 15 ø1000                 | 150 x 16 ø1000                 | 180 x 18 ø1400                 | 200 x 20 ø1500                  | 200 x 25 ø2000                  | 200 x 28 ø2500                   |
|    | 10 a              | rectangular hollow section | 120 x 50 x 4                   | 150 x 50 x 5                   | 180 x 70 x 8                   | 200 x 75 x 8                   | 210 x 90 x 8                    | 230 x 100 x 10                  | 240 x 110 x 10                   |
|    | 11 a              | square hollow section      | 80 x 6                         | 100 x 8                        | 120 x 10                       | 150 x 10                       | 160 x 10                        | 180 x 12                        | 200 x 12                         |
|  | 12 a**            | UPN C section leg out      | UPN 180 ø800                   | UPN 220 ø900                   | UPN 300 ø1100                  | UPN 360 ø1300                  | UPN 400 ø1300                   | UPN 475 ø1500                   | UPN 500 ø3000                    |
|  | 13 a**            | UPN C section leg in       | UPN 180 ø1000                  | UPN 220 ø1100                  | UPN 300 ø1200                  | UPN 360 ø1600                  | UPN 400 ø1600                   | UPN 475 ø2500                   | UPN 500 ø3000                    |
|  | 14 a**            | IPE easy way               | IPE 180 ø1000                  | IPE 220 ø1000                  | IPE 300 ø1100                  | IPE 360 ø1200                  | IPE 400 ø1200                   | IPE 450 ø1500                   | IPE 500 ø3500                    |
|  | 15 a**            | HEA easy way               | HEA 120 ø1000                  | HEA 150 ø1100                  | HEA 180 ø1100                  | HEA 240 ø2500                  | HEA 260 ø2500                   | HEA 280 ø3000                   | HEA 400 ø4500                    |
|  | 16 b              | tube                       | 141 x 3,4 ø3000                | 168 x 3,4 ø2500                | 219 x 2,7 ø3000                | 273 x 4,2 ø5000                | 298 x 4,2 ø5000                 | 324 x 4,5 ø10000                | 368 x 4,5 ø10000                 |
|  | 17 b              | tube                       | 114 x 6 ø2500                  | 141 x 6 ø2500                  | 168 x 7 ø3000                  | 219 x 8 ø3500                  | 254 x 8 ø3500                   | 273 x 9,3 ø15000                | 339,7 x 8 ø15000                 |
|  | 18 a*- c**        | UPN C section hard way     | UPN 120 ø4500                  | UPN 160 ø8000                  | UPN 180 ø8000                  | UPN 220 ø9000                  | UPN 240 ø12000                  | UPN 260 ø15000                  | UPN 260 ø12000                   |
|  | 19 a*- c**        | IPE hard way               | IPE 120 ø2000                  | IPE 160 ø5000                  | IPE 180 ø6000                  | IPE 240 ø8000                  | IPE 240 ø7000                   | IPE 270 ø11000                  | IPE 270 ø10000                   |
|  | 20 a*- c**        | HEA hard way               | HEA 100 ø2800<br>HEB 100 ø3600 | HEA 120 ø3000<br>HEB 120 ø3600 | HEA 160 ø6000<br>HEB 140 ø6000 | HEA 200 ø8800<br>HEB 180 ø6000 | HEA 220 ø12000<br>HEB 200 ø8000 | HEA 240 ø14000<br>HEB 220 ø9000 | HEA 260 ø14000<br>HEB 240 ø10000 |
| Section modulus                                                                    | W cm <sup>3</sup> |                            | 40 - 70                        | 80 - 150                       | 120 - 220                      | 240 - 450                      | 240 - 570                       | 350 - 600                       | 350 - 940                        |
| Shafts ø                                                                           | mm                |                            | 105                            | 140 / 120                      | 180 / 160                      | 200 / 180                      | 240 / 220                       | 260 / 260                       | 280 / 260                        |
| Rolls ø (external)                                                                 | mm                |                            | 310                            | 385                            | 460                            | 550                            | 630                             | 660                             | 660                              |
| Electric Power                                                                     | HP                |                            | 15                             | 20                             | 30                             | 40                             | 40                              | 60                              | 60                               |
| Rolling Speed                                                                      | m/min             |                            | 7                              | 7                              | 7                              | 7                              | 7                               | 7                               | 7                                |

a = Universal rolls; b = special rolls; c = special equipment

Additional set of special rolls might be necessary to reduce physical deformations. A set of special, customized rolls, ordered on request, with additional price, that matches exactly the section shape, will minimize the distortions, allowing to achieve the best results. The above mentioned capacities are based on sections in mild steel with a maximum of 270 N/mm<sup>2</sup> of Elastic Yield Point and 400 N/mm<sup>2</sup> UTS, rolled down to the stated diameters in one or a few passes. Capacities can be increased when rolling larger diameters. Tighter diameters can be achieved on lighter capacities\*\*.

Harder material reduces the announced capacities.

\*On this hollow section, due to its structural weakness, the achievable diameter heavily depends on the section distortion and deformation, rather than on the machine power.

To reduce distortion it is suggested to fill up the hollow section with sand and/or to use special tools.

\*\* For smaller sections than those listed, a set of further parts could be required (spacers and parts for the special equipment), therefore a technical analysis is recommended for a better evaluation.

# STRONGER, PRECISE AND MORE RELIABLE... ...New DAVI MCP Angle Roll!



| MODEL                                                                              |            |                            | MCP                              |                                  |                                  |                                  |                                  |                                   |
|------------------------------------------------------------------------------------|------------|----------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
|                                                                                    |            |                            | 30                               | 32                               | 36A                              | 36                               | 42                               | 52                                |
|    | 1 a        | flat on edge               | 250 x 60 ø2100                   | 250 x 80 ø1900                   | 250 x 100 ø2000                  | 400 x 80 ø2100                   | 500 x 130 ø3000                  | 500 x 160 ø3000                   |
|    | 2 a        | flat on flat               | 470 x 80 ø1400                   | 500 x 90 ø1200                   | 500 x 110 ø1500                  | 650 x 100 ø1500                  | 1000 x 150 ø2000                 | 1000 x 180 ø4000                  |
|    | 3 a        | square                     | 160 ø2200                        | 180 ø2200                        | 200 ø2500                        | 240 ø2200                        | 310 ø2500                        | 350 ø3000                         |
|    | 4 a        | round                      | 180 ø2000                        | 200 ø2200                        | 220 ø2200                        | 260 ø2000                        | 380 ø2500                        | 420 ø4000                         |
|    | 5 a**      | L leg out                  | 200 x 28 ø2000                   | 200 x 28 ø1800                   | 200 x 28 ø1700                   | 200 x 28 ø1600                   | 200 x 30 ø1600                   | 200 x 30 ø1600                    |
|    | 6 a**      | L leg in                   | 200 x 25 ø2000                   | 200 x 28 ø2500                   | 200 x 28 ø2000                   | 200 x 28 ø1800                   | 200 x 30 ø1800                   | 200 x 30 ø1800                    |
|    | 7 a        | T leg out                  | 200 x 28 ø2000                   | 200 x 28 ø1800                   | 200 x 28 ø1700                   | 200 x 28 ø1600                   | 200 x 30 ø1600                   | 200 x 30 ø1600                    |
|    | 8 a        | T leg in                   | 200 x 25 ø1800                   | 200 x 28 ø2500                   | 200 x 28 ø2000                   | 200 x 28 ø1800                   | 200 x 30 ø1800                   | 200 x 30 ø1800                    |
|    | 9 a        | T on one side              | 200 x 28 ø2000                   | 200 x 28 ø1800                   | 200 x 28 ø1700                   | 200 x 28 ø1600                   | 200 x 30 ø1600                   | 200 x 30 ø1600                    |
|    | 10 a       | rectangular hollow section | 250 x 125 x 12                   | 250 x 125 x 12                   | 280 x 150 x 12                   | 420 x 200 x 12                   | 660 x 610 x 16                   | 660 x 610 x 20                    |
|    | 11 a       | square hollow section      | 220 x 13                         | 225 x 12                         | 260 x 12                         | 400 x 16                         | 508 x 20                         | 600 x 20                          |
|  | 12 a**     | UPN C section leg out      | UPN 500 ø2000                    | UPN 550 ø2200                    | UPN 600 ø1500                    | UPN 1000 ø4000                   | UPN 1000 ø3500                   | UPN 1000 ø3000                    |
|  | 13 a**     | UPN C section leg in       | UPN 500 ø2000                    | UPN 550 ø3000                    | UPN 600 ø1500                    | UPN 1000 ø4000                   | UPN 1000 ø3500                   | UPN 1000 ø3000                    |
|  | 14 a**     | IPE easy way               | IPE 500 ø2500                    | IPE 550 ø2200                    | IPE 600 ø2500                    | IPE 1000 ø5000                   | IPE 1000 ø3000                   | IPE 1000 ø3000                    |
|  | 15 a**     | HEA easy way               | HEA 400 ø3500                    | HEA 450 ø3500                    | HEA 600 ø3000                    | HEA 1000 ø5000                   | HEM 1000 ø3000                   | HEM 1000 ø3000                    |
|  | 16 b       | tube                       | 370 x 5.5 ø12000                 | 406 x 6.3 ø15000                 | 473 x 6.3 ø15000                 | 558 x 12.7 ø10000                | 660 x 8 ø20000                   | 711 x 16 ø40000                   |
|  | 17 b       | tube                       | 368 x 8 ø15000                   | 381 x 8 ø15000                   | 400 x 9.5 ø10000                 | 508 x 15 ø10000                  | 610 x 18 ø9000                   | 610 x 22 ø20000                   |
|  | 18 a**-c** | UPN C section hard way     | UPN 280 ø16000                   | UPN 300 ø20000                   | UPN 320 ø20000                   | UPN 400 ø38000                   | UPN 700 ø80000                   | UPN 800 ø100000                   |
|  | 19 a**-c** | IPE hard way               | IPE 300 ø11000                   | IPE 400 ø25000                   | IPE 400 ø22000                   | IPE 550 ø25000                   | IPE 800 ø40000                   | IPE 1000 ø55000                   |
|  | 20 a**-c** | HEA hard way               | HEA 280 ø11400<br>HEB 260 ø10000 | HEA 320 ø20000<br>HEB 300 ø15000 | HEA 340 ø30000<br>HEB 320 ø15000 | HEA 550 ø40000<br>HEB 500 ø28000 | HEA 800 ø45000<br>HEB 700 ø45000 | HEA 1000 ø55000<br>HEB 800 ø55000 |
| Section modulus                                                                    |            | W cm3                      | 350 - 1000                       | 600 - 1300                       | 600 - 2000                       | 1000 - 4300                      | 3500 - 7700                      | 7000 - 11500                      |
| Shafts ø                                                                           |            | mm                         | 300 / 280                        | 320 / 320                        | 360 / 320                        | 360 / 360                        | 420 / 420                        | 520 / 420                         |
| Rolls ø (external)                                                                 |            | mm                         | 740                              | 780                              | 800                              | 800                              | 840                              | 840                               |
| Electric Power                                                                     |            | HP                         | 100                              | 100                              | 100                              | 125                              | 150                              | 230                               |
| Rolling Speed                                                                      |            | m/min                      | 7                                | 7                                | 7                                | 7                                | 7                                | 7                                 |

a = Universal rolls: b = special rolls: c = special equipment

Additional set of special rolls might be necessary to reduce physical deformations. A set of special, customized rolls, ordered on request, with additional price, that matches exactly the section shape, will minimize the distortions, allowing to achieve the best results. The above mentioned capacities are based on sections in mild steel with a maximum of 270 N/mm<sup>2</sup> of Elastic Yield Point and 400 N/mm<sup>2</sup> UTS, rolled down to the stated diameters in one or a few passes. Capacities can be increased when rolling larger diameters. Tighter diameters can be achieved on lighter capacities\*\*.

Harder material reduces the announced capacities.

\* On this hollow section, due to its structural weakness, the achievable diameter heavily depends on the section distortion and deformation, rather than on the machine power.

To reduce distortion it is suggested to fill up the hollow section with sand and/or to use special tools.

\*\* For smaller sections than those listed, a set of further parts could be required (spacers and parts for the special equipment), therefore a technical analysis is recommended for a better evaluation.



**DAVI** manufactures high quality section bending machines, the perfect machine for any type of beams, sections and pipes, especially the heaviest. These machines can be equipped with many different accessories, to provide the most ergonomic and productive solutions. **DAVI** provides the most user friendly **AUTOMATION**, with software from the simplest to the most technically advanced for angle rolls.

**DAVI** products portfolio includes 3 and 4 roll plate rolls, with capacity in thickness up to 400 mm and in width up to 12 m, suitable for any applications, particularly the heavy duty ones.



**DAVI** partner

**DAVI**  
EXCELLENCE IN FORMING

**UCIMU**



**ISO  
9001**

PROMAU S.r.l.

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