

DAVI

MCP

3 Roll



Mission

01

We work hard to be the partner of choice whenever companies need to roll Metal Plates and Sections. We strive to be by the customers' side for any rolling work they have to carry on.

02

This goal has deep roots in the past, with the rolling challenges we overcame in our history since 1966, studying the specific needs of customers and finding the best way to go on together.

03

This goal is very clear in the present: our daily task is to support our current customers and to invest in research and development for being at the forefront of rolling innovation.

04

This goal sets clear projects for the future: our financial strength and our solid structure grant the continuity of our business and the support we will be able to give in terms of both service and new solutions.

DAVI

Davi is since more than a decade the world largest manufacturer of Plate Rolls, Angle Rolls, High Productivity Lines and Customized Rolling Machines in terms of sales volume, employees, range, production, assets and rating. In fact, Davi has been awarded 'Prime Company' and given maximum commercial reliability by Dun & Bradstreet and holds all the ISO Certifications (Quality ISO 9001, Environmental ISO 14001, Safety ISO 45001).

Since 1966, Davi has been committed in Research & Development with the goal of finding the best Rolling Solutions for the global market.

Davi headquarters are located in Italy, where all Plate and Angle Rolls are manufactured and then delivered all around the world, while the Sales & Service network is comprised of two branches in the United States and China and more than a hundred dealers in the five continents.



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

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

Hydraulic Pulling Roll Unit

For bending I - U and H beams the hard way



An endless range of accessories to answer to any needs



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



Conical
Spiral



Pitch Control
For spiral bending



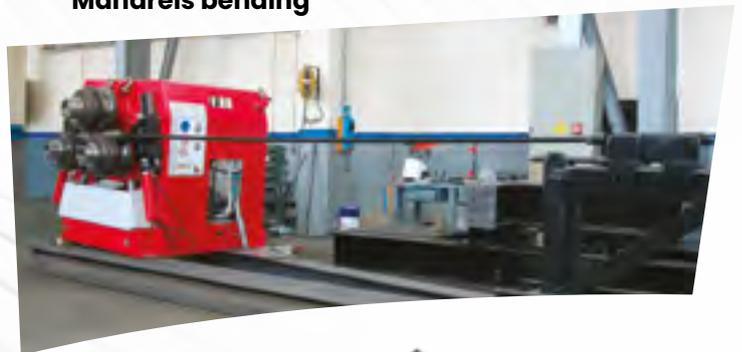
Horizontal Conveyor
For boiler spirals



Special
Rolls for
Bulb
Flats



Hollow Sections
Mandrels bending



Special
Rolls
For tube bending



3D
System

Model MCP

9 **11** **14** **18** **20** **24** **28**
inch inch inch inch inch inch inch

	1a	Flat (hard way)	3" 1/2x3/4" ø30"	4"x1" ø28"	5"x1" 1/4" ø39"	6"x1" 9/16" ø55"	7"x2" ø63"	7"x2" 3/8" ø63"	8" 11/16x2" 3/8" ø83"
	2a	Flat (easy way)	7"x3/4" ø20"	8"x1" 3/8" ø24"	8" 11/16x2" ø39"	9" 7/8x2" 3/8" ø55"	13" 1/16x2" 3/4" ø55"	13" 3/8x3" 3/16" ø55"	6" 9/16x39/16" ø75"
	3a	Square	2"x2" ø22"	2" 9/16" ø27"	3" 3/8" ø47"	4" 1/8" ø63"	4" 3/4" ø59"	5" 1/8" ø67"	5" 5/16" ø87"
	4a	Round	2" 1/2" ø30"	2" 15/16" ø36"	3" 9/16" ø44"	4" 5/16" ø48"	5" 1/8" ø55"	5" 1/2" ø47"	6" 5/16" ø59"
	5a**	Angle (leg out)	3"x3"x3/8" ø33"	4"x4"x1/2" ø45"	5"x5"x5/8" ø51"	6"x6"x5/8" ø47"	7"x7"x3/4" ø70"	8"x8"x3/4" ø79"	8"x8"x1" 1/16" ø98"
	6a**	Angle (leg in)	3"x3"x3/8" ø40"	4"x4"x3/8" ø45"	5"x5"x1/2" ø43"	6"x6"x5/8" ø59"	7"x7"x5/8" ø79"	7"x7"x3/4" ø98"	8"x8"x1" ø98"
	7a	T (leg out)	WT 3"x12.5# ø30"	WT 4"x10.5# ø40"	WT 5"x16.5# ø45"	WT 6"x39.5# ø47"	WT 7"x26.5# ø47"	WT 8"x18# ø79"	WT 8"x50# ø100"
	8a	T (leg in)	WT 3"x12.5# ø50"	WT 4"x10.5# ø60"	WT 5"x16.5# ø60"	WT 5"x56# ø55"	WT 7"x41# ø50"	WT 7"x45# ø98"	WT 7"x66# ø120"
	9a	T (leg up/down)	WT 3"x12.5# ø28"	WT 4"x14# ø79"	WT 5"x22.5# ø118"	WT 6"x29# ø118"	WT 7"x41# ø118"	WT 8"x25# ø118"	WT 8"x50# ø80"
	10a*	Rectangular HSS (hard way)	3" 1/2x 1" 3/4x3/16"	4" 3/4x2"x3/16"	5" 5/16x2"x3/16"	7" 1/16x2" 3/4x5/16"	8"x2" 15/16x5/16"	8" 1/4x3" 9/16x5/16"	9" 7/16x4" 3/8x3/8"
	11a*	Square HSS	2" 1/2x 2" 1/2x1/4"	3" 1/2x3" 1/2x1/4"	4"x4"x5/16"	5"x5"x3/8"	6"x6"x3/8"	6" 5/16x3/8"	8"x8"x1/2"
	12a**	Channel (leg out)	C 6"x13# ø24"	C 7"x14.75# ø30"	C 8"x22.8# ø30"	C 12"x30# ø40"	C 15"x50# ø60"	C 15"x50# ø50"	MC 18"x58# ø40"
	13a**	Channel (leg in)	C 6"x13# ø33"	C 7"x14.75# ø35"	C 8"x22.8# ø35"	C 12"x30# ø45"	C 15"x50# ø70"	C 15"x50# ø60"	MC 18"x58# ø40"
	14a**	Standard Beam (leg out)	S 6"x17.25# ø25"	S 7"x20# ø35"	S 8"x23# ø40"	S 12"x50# ø44"	S 15"x50# ø60"	S 15"x50# ø50"	S 20"x75# ø70"
	15a**	Wide Flange Beam (easy way)	WF 4"x13# ø50"	WF 6"x16# ø35"	WF 6"x20# ø79"	WF 8"x28# ø47"	WF 12"x50# ø63"	WF 12"x50# ø47"	WF 16"x67# ø80"
	16b*	Tube	4" Sch.10 ø55"	5" Sch.10 ø118"	6" Sch.10 ø98"	8" Sch.5 ø170"	10" Sch.10 ø197"	10" Sch.20 ø197"	14" Sch.10 ø393"
	17b	Pipe	3" Sch.40 ø40"	4" Sch.40 ø45"	5" Sch.40 ø45"	6" Sch.40 ø85"	8" Sch.40 ø100"	9" Sch.40 ø140"	12" Sch.30 ø160"
	18a**-c**	Channel (hard way)	Max sec mod 1.9 inches ³	C 5"x9# ø180"	C 6"x13# ø240"	C 7"x14.75# ø320"	C 9"x20# ø354"	C 10"x20# ø472"	MC 10"x41# ø450"
	19a**-c**	Standard Beam (hard way)	Max sec mod 1.9 inches ³	S 5"x10# ø787"	S 6"x12.5# ø787"	S 6"x17.25# ø393"	S 10"x25.4# ø787"	S 10"x25.4# ø393"	S 12"x31.8# ø590"
	20a**-c**	Wide Flange Beam (hard way)	Max sec mod 1.9 inches ³	WF 4"x4"x13# ø142"	WF 5"x5"x16# ø142"	WF 6"x6"x25# ø236"	WF 8"x28# ø236"	WF 8"x40# ø315"	WF 10"x49# ø393"
Section modulus	Inch ³		1.1 - 1.6	2.5 - 5.5	4.9 - 9.2	7.3 - 13.4	14.6 - 27.5	14.6 - 34.8	21.3 - 57.3
Shafts ø	Inch		3" 11/32	4" 1/8	5" 1/2	7" 3/32	7" 7/8	9" 7/16	11" 1/32
Rolls ø (external)	Inch		9" 27/32	12" 3/16	15" 5/32	18" 3/32	21" 21/32	24" 25/32	25" 31/32
Electric (60Hz) Power	HP		12	18	24	36	48	60	72
Rolling Speed	Feet/min		23	23	23	23	23	23	23

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 40KSI of Elastic Yield Point and 60KSI 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 depends heavily 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.

Model MCP		30 inch	32 inch	36A inch	36 inch	40 inch	52 inch
 1a	Flat (hard way)	9" 7/8x2" 3/8 ø83"	9" 7/8x3" 1/8x ø75"	9" 7/8x4" ø79"	15" 3/4x3" 1/8 ø83"	20"x5" 3/16 ø120"	20"x6" ø120"
 2a	Flat (easy way)	18" 1/2x3" 3/16 ø55"	19" 11/16x3" 9/16 ø47"	19" 11/16x4" 3/8 ø59"	25" 1/2x3" 15/16 ø59"	40"x6" ø75"	40"x7" ø160"
 3a	Square	6" 5/16 ø87"	7" 1/16 ø87"	7" 7/8 ø98"	9" 7/16 ø87"	12" ø100"	14" ø120"
 4a	Round	7" 1/6 ø79"	8" ø87"	8" 11/16 ø87"	10" 1/4 ø79"	15" ø100"	17" ø160"
 5a**	Angle (leg out)	8"x8"x1" 1/16 ø78"	8"x8"x1" 1/16 ø71"	8"x8"x1" 1/16 ø67"	8"x8"x1" 1/16 ø63"	8"x8"x1" 1/4 ø60"	8"x8"x1" 1/4 ø60"
 6a**	Angle (leg in)	8"x8"x1" ø78"	8"x8"x1" 1/16 ø98"	8"x8"x1" 1/16 ø78"	8"x8"x1" 1/16 ø70"	8"x8"x1" 1/4 ø70"	8"x8"x1" 1/4 ø70"
 7a	T (leg out)	WT 8"x50# ø70"	WT 8"x50# ø70"	WT 8"x50# ø60"	WT 8"x50# ø50"	WT 8"x 50# ø50"	WT 8"x50# ø50"
 8a	T (leg in)	WT 8"x50# ø100"	WT 8"x50# ø100"	WT 8"x50# ø80"	WT 8"x50# ø60"	WT 8"x50# ø60"	WT 8"x50# ø60"
 9a	T (leg up/down)	WT 8"x50# ø80"	WT 8"x50# ø80"	WT 8"x50# ø60"	WT 8"x50# ø50"	WT 8"x50# ø50"	WT 8"x50# ø50"
 10a*	Rectangular HSS (hard way)	9" 7/8x4" 15/16x1/2"	9" 7/8x4" 15/16x1/2"	11"x5" 5/16x1/2"	16" 9/16x8"x1/2"	26"x24"x3/4"	26"x24"x1"
 11a*	Square HSS	9"x9"x1/2"	8" 7/8x1/2"	10" 1/4x1/2"	16"x16"x5/8"	20" 1/4x3/4"	24"x7/8"
 12a**	Channel (leg out)	MC 18"x58# ø38"	MC 18"x58# ø38"	MC 18"x58# ø38"	MC 18"x58# ø60"	MC 18"x58# ø60"	MC 18"x58# ø60"
 13a**	Channel (leg in)	MC 18"x58# ø40"	MC 18"x58# ø40"	MC 18"x58# ø40"	MC 18"x58# ø60"	MC 18"x58# ø60"	MC 18"x58# ø60"
 14a**	Standard Beam (leg out)	S 20"x96# ø60"	S 24"x121# ø98"	S 24"x121# ø90"	S 24"x121# ø87"	S 24"x121# ø87"	S 24"x121# ø87"
 15a**	Wide Flange Beam (easy way)	WF 16"x77# ø80"	WF 18"x119# ø98"	WF 18"x119# ø80"	WF 33"x241# ø200"	WF 40"x397# ø200"	WF 40"x397# ø200"
 16b*	Tube	14" Sch.20 ø472"	16" Sch.10 ø590"	18" Sch.10 ø590"	22" Sch.30 ø393"	26" Sch.10 ø780"	28" Sch.30 ø130"
 17b	Pipe	12" Sch.40 ø160"	14" Sch.40 ø200"	16" Sch.40 ø300"	20" Sch.40 ø600"	24" Sch.40 ø600"	24" Sch.40 ø68"
 18a**-c**	Channel (hard way)	MC 12"x50# ø350"	MC 12"x50# ø275"	MC 13"x50# ø787"	MC 18"x58# ø700"	MC 18"x58# ø700"	MC 18"x58# ø60"
 19a**-c**	Standard Beam (hard way)	S 12"x50# ø590"	S 15"x50# ø787"	S 15"x50# ø590"	S 20"x96# ø787"	S 24"x121# ø150"	S 24"x121# ø75"
 20a**-c**	Wide Flange Beam (hard way)	WF 12"x35# ø500"	WF 12"x50# ø450"	WF 12"x87# ø590"	WF 21"x111# ø1580"	WF 33"x130# ø250"	WF 40"x199# ø190"
Section modulus	Inch ³	21.3 - 70.2	36.6 - 103.7	51.9 - 115.9	61 - 262.4	213.6 - 470	427.2 - 701.8
Shafts ø	Inch	11" 13/16	12" 19/32	14" 5/32	14" 5/32	15" 3/4	20" 15/32
Rolls ø (external)	Inch	29" 1/8	30" 11/16	30" 11/16	30" 11/16	33" 1/16	33" 1/16
Electric (60Hz) Power	HP	108	108	108	120	180	275
Rolling Speed	Feet/min	23	23	23	23	23	23

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From
Small to
Heavy-duty
Angle Rolls



Customer support

Remote Support

Davi Specialized Team can connect remotely with every corner of the world and improve the customer's uptime



On Site

On site intervention can be performed on both Davi Machines and other brands: from Installation to Commissioning, from Training to Preventive Maintenance



Production in numbers



100

Plate and Angle
Rolls always
available and
ready for delivery

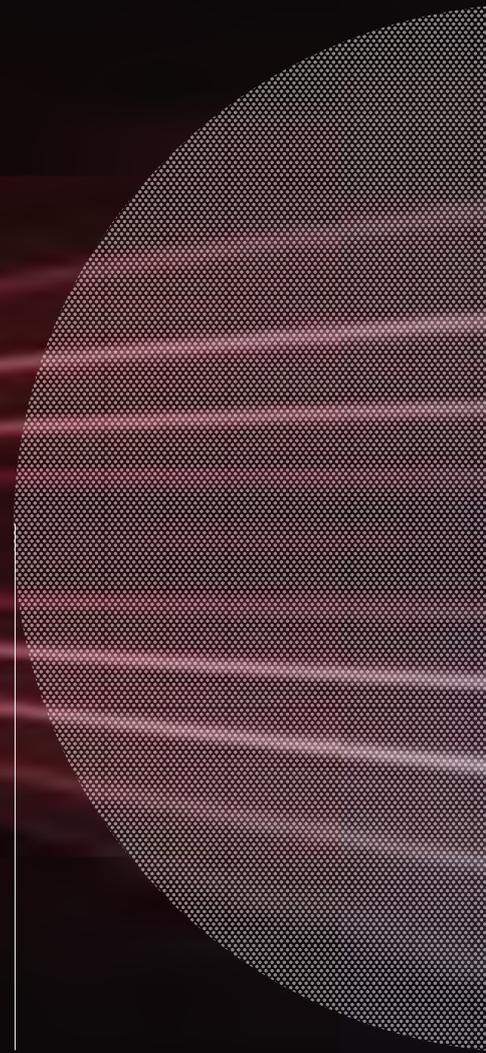


300

Plate and Angle
Rolls produced
every year

10,000

More than 10,000
Plate and Angle
Rolls installed
worldwide





Research & Development

Engineering Everyday Challenges

Davi Sales and Technical Teams are always ready to exchange ideas with Customers, in order to get a full comprehension of the Rolling Challenge they have to face. Davi R&D wants more, and strives to offer innovative solutions to problems customers didn't even think of!





In order to obtain Complete Management on the whole Manufacturing Process, for many years Davi has created a solid partnership with Suppliers, High-level Companies with production sites in the most skilled areas of Italy.

Throughout the entire flow, Davi is committed to ensure an Integrated Quality Control with the aim of ensuring the highest quality standards on the Market.



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DAVI

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ACCESSORY CENTER**
Texas

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