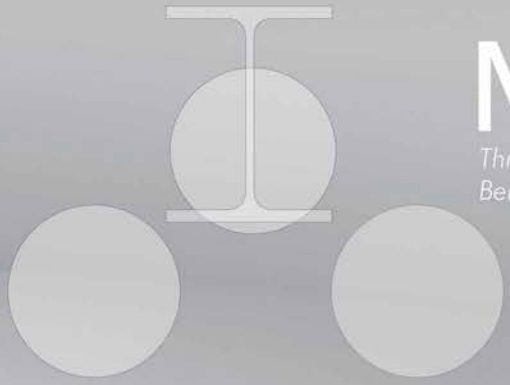
DAVI®

EXCELLENCE IN FORMING

www.davi.com



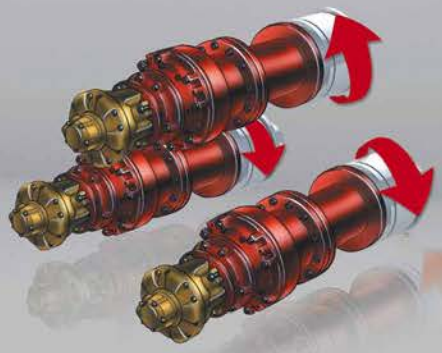
MCP

Three Rolls Section
Bending Machine (Double Pinch)

EXCELLENCE IN FORMING

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!

DAVI® EXCELLENCE IN FORMING

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

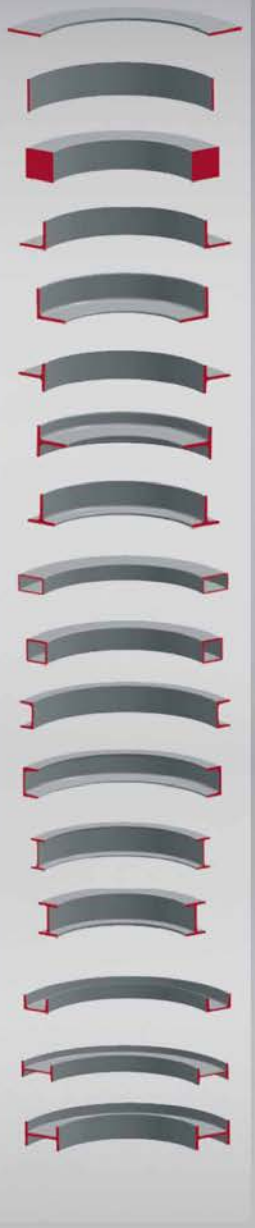
C: Heavy duty hydraulic guide rolls

D: Sturdy, high resistance frame

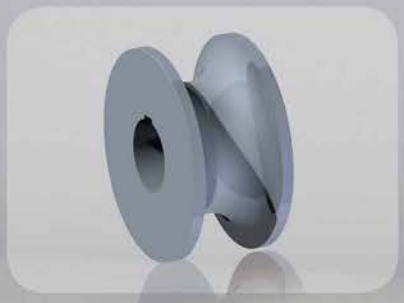
E: Hydraulic pulling roll unit for bending I - U and H beams the hard way

DAVI
EXCELLENCE IN FORMING

SOLID, COMPACT AND MOST ADVANCED TECHNOLOGY
For the best productivity



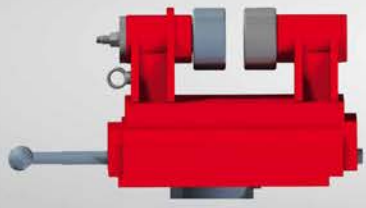
UNIVERSAL ROLLS
THE MACHINE IS SUPPLIED WITH ONE SET OF "UNIVERSAL" ROLLS AS STANDARD EQUIPMENT, ABLE TO BEND THE MOST COMMON SECTIONS.



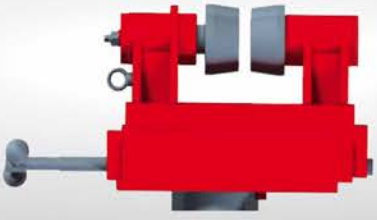
AN ENDLESS RANGE OF ACCESSORIES
TO ANSWER TO ANY NEEDS

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!

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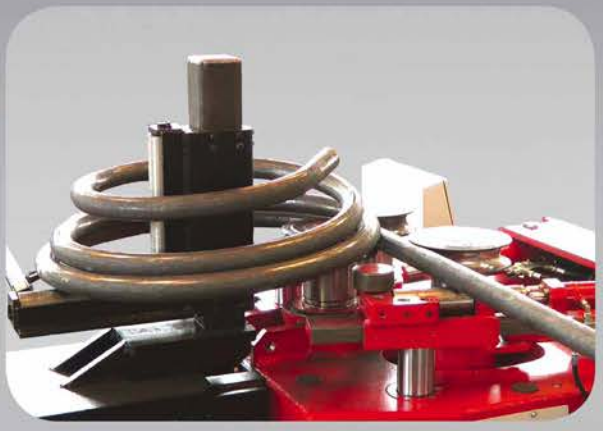
PITCH CONTROL
FOR SPIRAL BENDING

CONICAL SPIRAL



HORIZONTAL CONVEYOR
FOR BOILERS SPIRALS

SPECIAL ROLLS
FOR BULB FLATS

SPECIAL ROLLS
FOR TUBE BENDING

HOLLOW SECTIONS
MANDRELS BENDING

3D SYSTEM

EXCELLENCE IN FORMING

SOLID, COMPACT AND MOST ADVANCED TECHNOLOGY
For the best productivity

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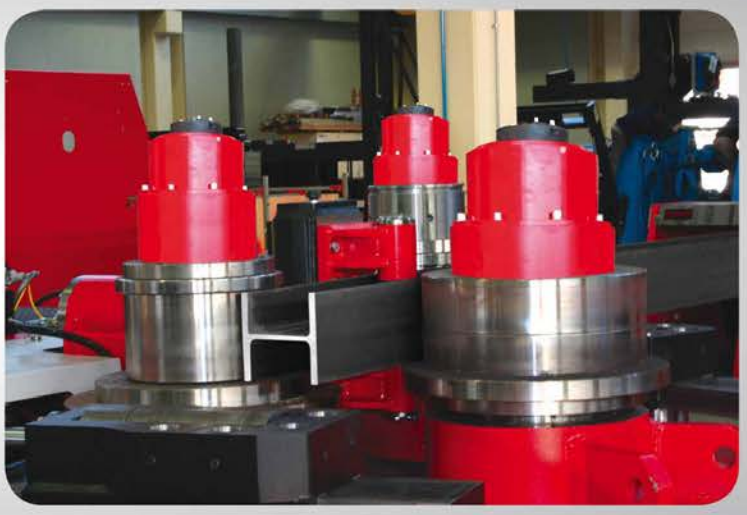
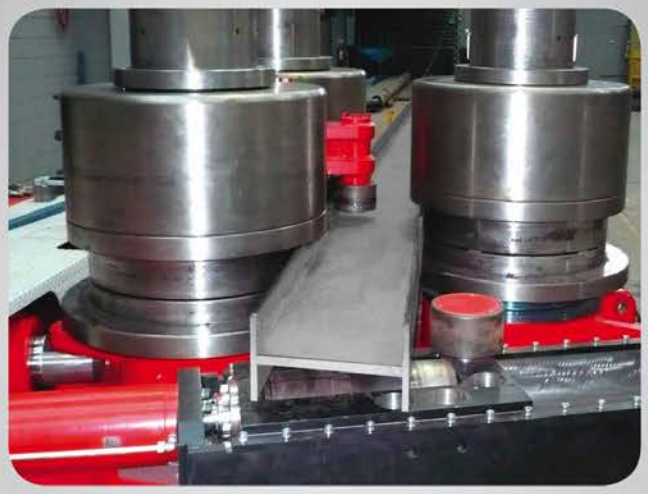
For the best productivity

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!

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EXCELLENCE IN FORMING

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!

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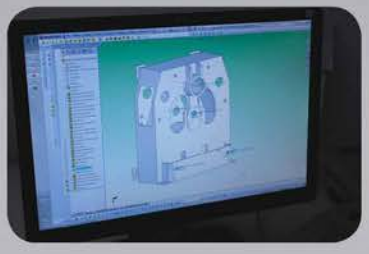
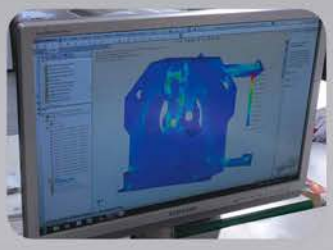
SOLID, COMPACT AND MOST ADVANCED TECHNOLOGY
For the best productivity

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!

DAVI EXCELLENCE IN FORMING

THE ONLY CUSTOMER CARE IN ROLLING INDUSTRY

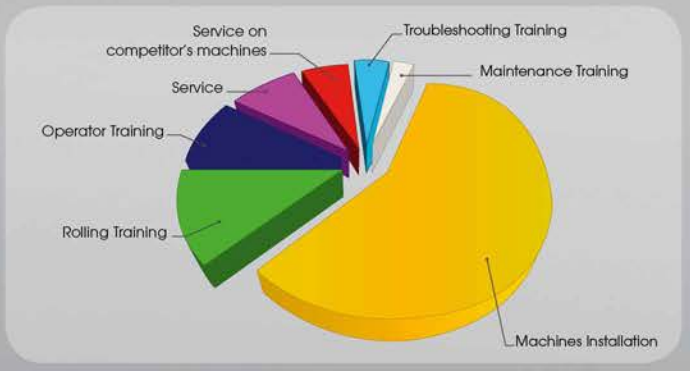
Customer care satisfaction is the DAVI way to conduct business.
Performed by professional, experienced, and specialized customer care Training Team:

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!

AVI
EXCELLENCE IN FORMING

SOLID, COMPACT AND MOST ADVANCED TECHNOLOGY
For the best productivity

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 4,5ø10000	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 HEB 100 ø3600	HEA 120 ø3000 HEB 120 ø3600	HEA 160 ø6000 HEB 140 ø6000	HEA 200 ø8800 HEB 180 ø6000	HEA 220 ø12000 HEB 200 ø8000	HEA 240 ø14000 HEB 220 ø9000	HEA 260 ø14000 HEB 240 ø10000
Section modulus		W cm3	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^2 of Elastic Yield Point and 400 N/mm^2 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!

DAVI® EXCELLENCE IN FORMING

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 HEB 260 ø10000	HEA 320 ø20000 HEB 300 ø15000	HEA 340 ø30000 HEB 320 ø15000	HEA 550 ø40000 HEB 500 ø28000	HEA 800 ø45000 HEB 700 ø45000	HEA 1000 ø55000 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^2 of Elastic Yield Point and 400 N/mm^2 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.

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** 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

ARCENT

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DAVI®
EXCELLENCE IN FORMING

UCIMU

QUALITY SYSTEM CERTIFICATION ISO 9001 DNV

ISO 9001

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