

The Bending Roll Specialist







FACCIN The Bending Roll Specialist

"FACCIN srl has been for years the undisputed world leader in designing, manufacturing and selling plate bending rolls, section bending rolls, dishing and flanging lines for large dome ends."









Company Profile







Quality Without Compromise

The company was founded in the late 60's, specializing in the manufacture of heavy duty bending rolls.

A remarkable tendency towards technological innovation and continuous investment in research and development, rapidly brought **FACCIN** the reputation for offering outstanding quality, reliability and state of the art rolling solutions and in a short time **FACCIN** became the reference point for rolling technology.

The production of machinery is centered in Visano (Brescia), in the Industrial North of Italy.

Here the **FACCIN** srl factory covers an area of 70.000 sq.m. with 25,000 sq.m. are covered for construction and office space.



FACCIN's internal design office works on a modern network with the latest versions of 2D and 3D CAD software, using finite elements methods (FEM) for the structural dimensioning.

Continuous investment in new equipments, allows **FACCIN** to be involved in ALL aspects of production of their machines, not just assembly of outsourced component parts, but the construction of these parts.

From the construction of the electro - welded structures and machining of these structures to the machining of the forged rolls. The management of production, orders, design, construction, machining, heat treatment, stock and assembly, is all fully computerized with a modern enterprise resource planning software (ERP2) installed on the whole company network.

Such organization guarantees that **FACCIN** has direct control over all the production processes, monitoring each step 'in house' guaranteeing total quality assurance through registered procedures according to ISO 9000 rules.

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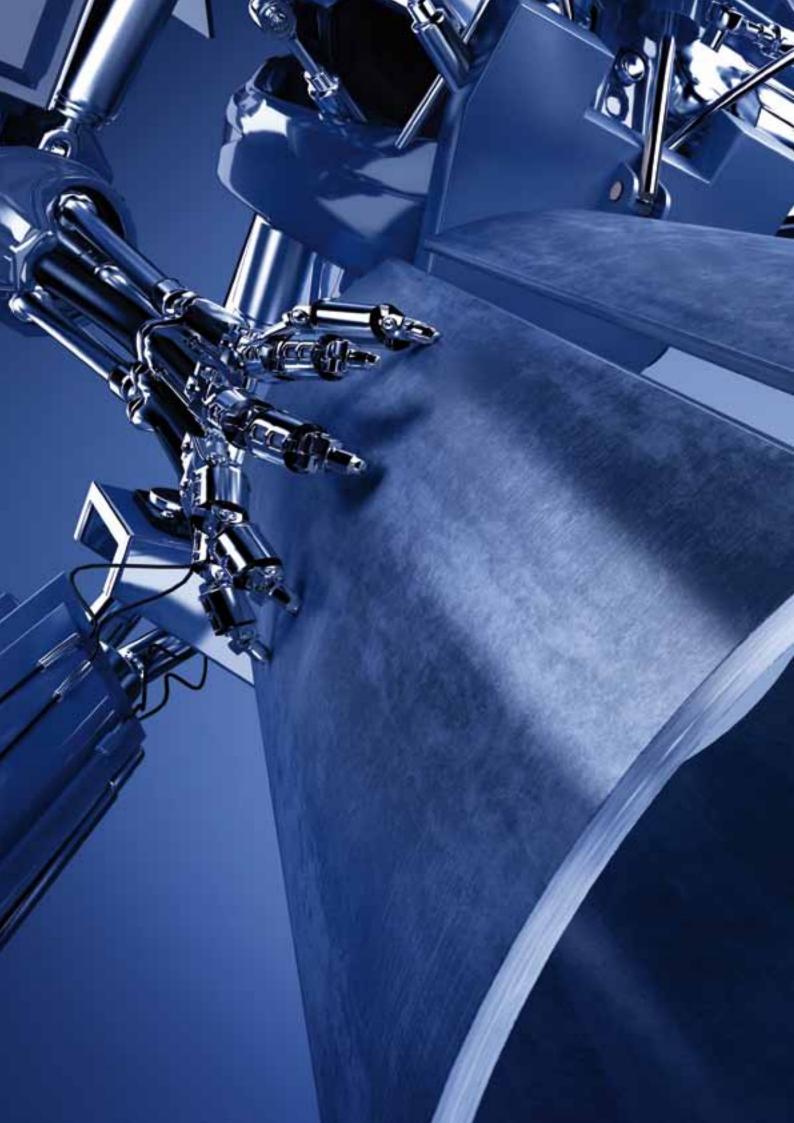






Plate Rolls

"The *most technologically* advanced bending rolls for plate and profiles available today, Worldwide"





Plate Rolls Series

The **FACCIN** product range represents what is considered to be the most technologically advanced bending rolls for plate and profiles available today, Worldwide.

A unique choice of plate rolls offers state of the art solutions to the most demanding problems associated with plate rolling. For light plates initial pinch machines are available: series **ASI** or the **HCU** models with urethane rolls for high production.

For heavier thickness the range includes the traditional three-roll machine, the three-roll machine with variable axis design and also the world famous **4HEL** four-roll series. Ships frame roll presses and special machines complete the full range of machines to roll plates with thicknesses varying from less than 1mm to over 250mm with useful working lengths exceeding 18 meters.









APPLICATIONS:

- Fabricating/Rolling;
- Boilers, Pressure Vessels;
- Rail/Road Tankers;
- Earth Moving Equipment;
- Storage Tanks, Silos;
- Tubes and Pipelines;
- Pumps, Burners and Filters;
- Heating and Ventilation;

- Wind Towers, Power Generation;
- Steel Structures, Construction;
- Shipbuilding & Repair, Offshore;

Solution for



Plate Rolls

HCU

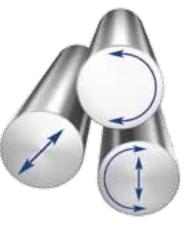
The **HCU** is a 2 roll machine of innovative design incorporating a special urethane forming roll to deliver the optimum in quality and performance with guaranteed accuracy and repeatability combined with super fast rolling speeds for working with thinner/lighter gauge material. Up to 180 pieces per hour are possible with the standard **HCU** machine, while the special version **HCU/S** with automated options can produce in excess of 300 pieces per hour. It is the ideal machine for lengths from 500mm to 2000mm with thicknesses ranging from 0.2mm to 5mm with the possibility of rolling down to diameters as small as 80mm in some cases.



Urethane Roll

ASI

The **ASI** machine is a 3 roll initial pinch roll that offers and guarantees a superior quality of rolling and pre-bending due to the asymmetric geometry of the rolls. It is ideally suited and the economic affordable solution for the smaller workshop with lower production and lighter materials in the range 1000mm to 3000mm length and thicknesses from 1mm to 9mm.



Initial Pinch

3HEL

The **3HEL** is the latest evolution of the traditional 3 Roll double pinch plate bending machine with the capability of rolling/pre-bending and is ideally suited to satisfy the requirements of the typical medium capacity fabrication shop. It's user friendly, versatile and available in a range of sizes from 1500mm to 4000mm and thicknesses from 3mm to 30mm.



Double Pinch





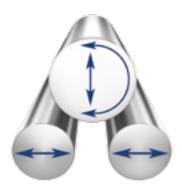
"Precision, Productivity, Long Term Reliability from Quality Controlled Manufacturing and Designs"

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HAV

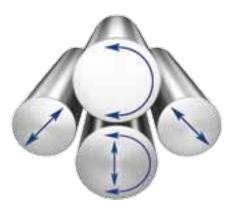
The **HAV** is a 3 roll machine that offers an unbeatable combination of rolling power with guaranteed pre-bending precision. It's variable roll geometry design makes it the preferred machine for all workshops with a need for rolling medium, heavy and super-heavy materials up to 300mm, associated with the manufacture of pressure vessels, off-shore platforms, reactors, heat exchangers and many other applications.



Variable Geometry

4HEL

The **4HEL** - 4 roll double pinch pyramid machine is considered the most versatile, precise and easy to use plate roll with the added advantage of higher production 3 to 4 times faster than a conventional pinch pyramid. Other benefits are the ability to feed material horizontally, and pre-bend both edges without removing the plate. It has found wide use with medium/heavy fabrication companies worldwide with a variety of applications such as in the manufacture of tanks, pressure vessels, wind towers and much more. It is available in a range of sizes from 1500mm to 18.000mm and thicknesses ranging 5mm to 150mm and heavier on demand.



Four Roll



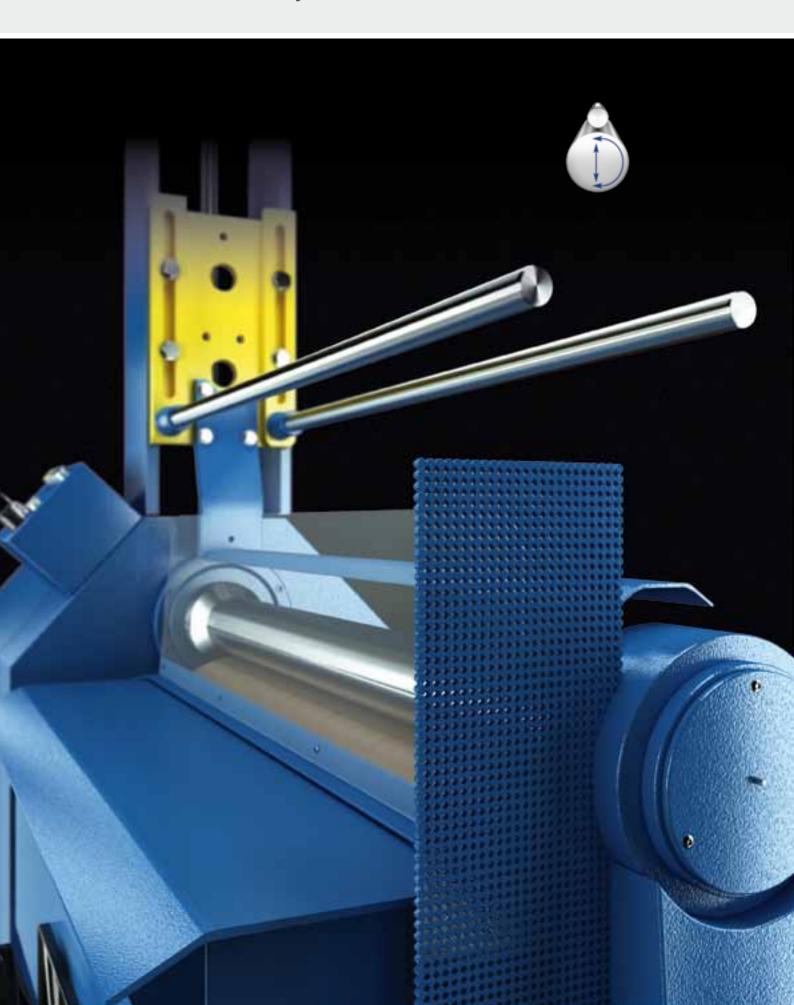






HCU

HCU: Productivity and Precision





2 Rolls (Urethane) Fast Plate Rolls

The HCU version of plate roll guarantees optimum quality of the rolled product. Thanks to the urethane roll forming design, it is possible to achieve the best tolerances and super-fast rolling times.

The standard **HCU** machine can guarantee output levels of 180-200 pieces/hour while the special version HCU/S reaches output levels in excess of 300 pieces/hour.

The flat ends are eliminated from the pipes rolled with the HCU machine. The dynamic pressing force, resulting from the action of the urethane roll against the top roll, permits the complete forming of the plate along its entire length.

The high speed and one-pass rolling process of the HCU machine also eliminates the prebending - rolling - prebending procedures typical of traditional three and four rolls machines.

Inexperienced operators can easily operate the HCU.

The standard version is complete with a fully automatic rolling cell.

The only need for the operator is to load the plate and offload the

The Precision and Reliability of the HCU series of plate roll is guaranteed by a special design combined with a solid oversized

The exclusive hydro-mechanical roll lifting system (GHS) guarantees exact bending repeatability and constant forming pressure.

The HCU series of plate roll is the ideal solution for rolling medium and large batches of tubes with thickness up to 5mm and lengths up to 2 meters.





STANDARD CONFIGURATION:

- Urethane Lower Roll for perfect prebending;
- Automatic rolling cycle (approx 20 sec/pc);
- Special lifting system for the bending roll (GHS);
- Top roll for the smallest diameter;
- Movable foot pedal control for cycle start;
- Automatic drop end opening;
- · Lubrication circuit;
- Emergency stop button;
- Safety Guard cable around the machine;
- Machine CE certified for its safety;

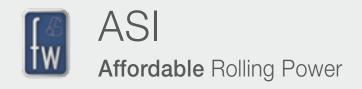
UPON REQUEST:

- Different size Mandrels;
- Mandrel Supports;
- Support for rolled cylinder;
- Automatic Pressure Adjustment;
- Digital display for rolls compression;
- Interchangeable rolls;
- Automatic plate lifter and loader;
- Automatic feed Tables;
- Programmable back gauges;
- · Automatic shell ejector;
- Unloading tables;
- Auto-Welding Systems;

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3 Roll Initial Pinch Plate Bending Rolls

The ASI version of plate roll guarantees superior quality of bending thanks to the asymmetric geometry of the rolls movement. Optimal plate drive is guaranteed by the two powered pinch rolls. It is ideal for avoiding any slipping even on very thin plate. The side roll moves inside a linear slide wich bends the material very near to the clamping point resulting in a pre-bending quality similar to the one achievable with the more expensive 4 rolls machines. Rolling of profiles is possible thanks to the extended shafts provided as standard on all models.

It is possible to mount either standard profile or pipe dies. Comfortable foot pedal controls allow single man operation for plate loading and pre-bending operations.

The reliability of the ASI series of plate rolls is guaranteed by a solid oversized full bodied structure assembled with heavy duty tie rods. A rigid base presents the opportunity to position the machine anvwhere.

The **ASI** series of plate rolls is the **most convenient** way to roll your shells consistently with a minimum investment.





STANDARD CONFIGURATION:

- Two powered rolls;
- Induction hardened rolls;
- Rolls surface polished;
- Motorized prebending and rolling;
- Tiltable bending roll;
- Extended shafts for profiles rolling;
- Movable foot pedal controls;
- Safety Guard cable around the machine;
- Machine CE certified for its safety;

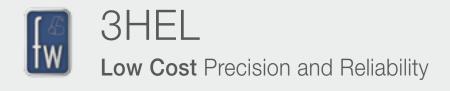
UPON REQUEST:

- Digital readouts for rolls positioning;
- Cone bending attachment;
- Special colours;
- Profile bending dies;
- Numerical Controls:
- Vertical rolls versions;
- Corrugated rolls versions;



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3 Roll Double Pinch Plate Bending Rolls

The **3HEL** is the **latest evolution** of the traditional three-roll double pinch plate bending machine.

It has been designed to cover the needs of the fabrication shop: Strength, User Friendliness, and Versatility.

FACCIN's experience in manufacturing heavy and **super-heavy duty** machines is applied to the design of the **3HEL** series of plate rolls. The **3HEL** series is the most precise 3 rolls machine in its category. The RGS design reduces to a minimum the distance between the bending points guaranteeing higher bending accuracy.

The MCS bearing system, incorporating 4 independent bearings for each bending roll is a standard feature of the 3HEL.

It guarantees **higher reliability** (higher capacity of load absorption) and increases the range for tilting the side rolls, resulting in **more versatility**, when rolling cones.

The **Ultra wide roll support** with lubrication circuit are mounted within linear slides to prevent wear and tear.

Another important standard feature to increase the **versatility** of the machine is the roll **shaft extensions** to allow dies to be fitted to bend profiles and pipes.

The very **high rotation power** is a guarantee of the **3HEL**'s **superior rolling torque and speed**, available without loss of energy as all three rolls are driven independently by hydro-motors and gearboxes directly coupled to the roll shafts.







STANDARD CONFIGURATION:

- Linear Slides for roll movement (RGS);
- 4 Bearings supporting each bending roll (MCS);
- Ultra-wide bearing housings (WHS);
- Electronic Balancing System (EPS);
- Induction hardened and surface polished rolls;
- Digital readouts for rolls positioning;
- Three independently driven rolls;
- Control panel moveable on wheels;
- Cone bending attachment;
- Centralized Lube system (pump);
- Safety Guard cable around the machine;
- Machine CE certified for its safety;

UPON REQUEST:

- Profile bending dies;
- Numerical Controls;
- Vertical rolls versions;
- Corrugated rolls versions;
- Side and Top plate supports;
- Machines designed for rolling hot plates;
- Lower Budget Swing Arms solution;
- Special colours;



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HAV

HAV Design: The Ideal 3 Roll Plate Roll





Variable Geometry Plate Rolls

An unbeatable combination of **rolling power and pre-bending precision** is guaranteed by the HAV series of plate rolls.

All three rolls move. The top roll moves vertically while the two lower rolls can move horizontally, each one independent from the other.

This special design makes it possible to adjust the distance between the bending points according to production needs, the same principle as a press brake with variable V dies.

Optimal plate drive is guaranteed by the capability to reduce to a minimum the distance between the lower rolls.

Minimizing the roll centers also results in **optimum pre-bending** capabilities, with significantly reduced length of flat end.

Plate drive and pre-bending quality are equivalent to what is achievable with the most expensive four roll machines.

The bending power obtainable, when increasing the distance between the bending rolls, is enormous so that with a **minimum investment** it is possible to have heavy duty plate rolls.

The special design results in a **reduced working height** because the cylinders moving the lower rolls are positioned horizontally. Therefore **no foundations** are required even for machines with bending capacities over 40mm.

The pre-bending process with the **HAV** series is very **fast and safe**, the plate is inserted horizontally (not angled,as is typical with traditional three roll machines).

This allows the use of idle or motorized roller feed tables and plate centring systems.

The world famous EPS **electronic balancing system** is installed as standard on all the machines in the **HAV** series. This guarantees the rolls will always be parallel, with a **tolerance of 0.2mm** and will never be affected by mechanical wear and tear.

Ideal for medium and heavy duty rolling requirements, the **HAV** plate rolls are definitely the most advanced three roll bending machines available on the world market.





STANDARD CONFIGURATION:

- Variable geometry with three moveable rolls;
- Linear Slides for roll movement (RGS);
- Induction hardened and surface polished rolls;
- Electronic Balancing System (EPS);
- Special Breaking System for optimal prebending;
- Cone bending attachment;
- Control console moveable on wheels;
- Centralized Lube system (pump);
- Siemens Numerical Control Unit;
- Safety Guard cable around the machine;
- Machine CE certified for its safety;

UPON REQUEST:

- Automated loading and unloading systems;
- Motorized roller feed tables;
- Automatic ejectors;
- Side and Top plate supports;
- Machines designed for rolling hot plates;
- Lower Budget Swing Arms solution;
- Integrated welding systems;
- Special colours;

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4HEL

State of the Art in Rolling Technology





4 Roll Synchronized Plate Bending Rolls

Four roll plate bending machines are considered to be **the most versatile**, **precise and easy to use** plate roll.

The rear lateral roll, opposite to the feeding side, can be used as a back gauge for immediate plate squaring, resulting in very easy plate alignment and "one man operation".

After the plate is squared, it is always **securely clamped** between the top and bottom central pinch rolls, therefore pre-bending and rolling operations are **safe and precise** without the risk of the plate slipping. The pre-bending operation does not require the plate to tilt below the feeding level (as with traditional 3 roll machines), therefore horizontal motorized roller tables can be used to further improve the Introduction of the plate between the rolls.

The cylinder can be rolled to the diameter needed, immediately after the pre-bending of the leading edge.

This means that the machine needs less valuable workshop space, as an area for plate feeding is on one side of the machine only.

The bending of the trailing edge is carried out after the **cylinder** is **rolled**. **Basically, cylinders can be rolled in one pass, in one direction. Cone rolling is much easier**, the side rolls are tilted to determine the cone angle and the central lower roll can also be tilted to clamp and drive the plate.

Because of the guaranteed clamping and driving of the plate during all phases of the rolling process, the four roll machine is the only plate rolling technology that can be controlled effectively through **NC and CNC systems**.

The perfect machine for plate up to 150mm thickness.





STANDARD CONFIGURATION:

- Linear Slides for roll movement (RGS);
- 4 Bearings supporting each bending roll (MCS);
- Ultra-wide bearing housings (WHS);
- Electronic Balancing System (EPS);
- Induction hardened and surface polished rolls;
- Siemens Numerical Control Unit;
- Control panel moveable on wheels;
- · Cone bending attachment;
- Centralized Lube system (pump);
- Safety Guard cable around the machine;
- Machine CE certified for its safety;

UPON REQUEST:

- Side Rolls Extra Drive;
- Automated loading and unloading systems;
- Motorized roller feed tables;
- Automatic ejectors;
- Side and Top plate supports;
- Machines designed for rolling hot plates;
- Lower Budget Swing Arms solution;
- Integrated welding systems;
- Special colours;



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Plate Rolls Case History



Graphic CNC four roll applications for automatic rolling of complex shapes. Faccin sets the industry standards since 1993.



Wind Mill Tower Production Lines guaranteeing highest productivity rates and superior rolling quality (no-rerolling)



Integrated Loaders, Feeders and Ejectors for complete automation of the rolling cycle. Ideal for the production of HVAC components.



Roll Presses for aerospace and shipbuilding applications up to 21 meters plate width.



Conical Rolls Verions for automated cone rolling lines (for cement mixers or for the food processing industry).



Special versions of four and three roll machines with preloaded top rolls for rolling thick walled long pipes (Oil & Gas Pipelines).

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Faccin is the #1 selling variable geometry plate rolls in the world. HAV series is the preferred choice of super heavy pressure vessels manufacturers.



The highest rolling capacities (3500x280 in cold conditions) have been achieved in 2009 with the model HAV 15/S.



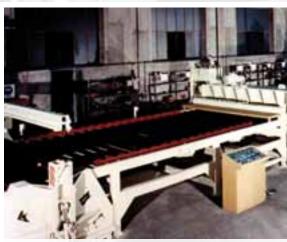
Custom made solutions are available for rolling and handling heavy corrugated plates.



Not only super-heavy but also super light duty fast rolling machines are available for exhaust pipes, water pumps, chimneys.

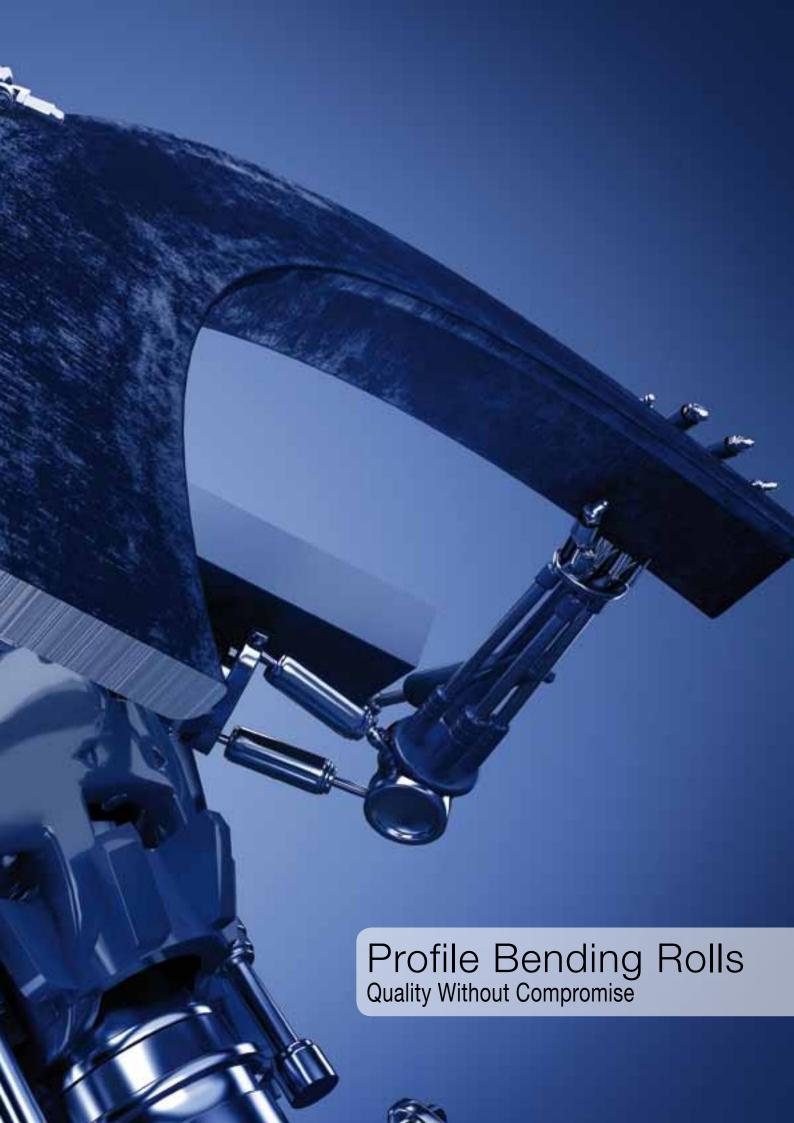


Turn-Key Solutions combining CNC plate rolling and welding automation are available for any requirement of high productivity fms lines.



Ask for any special requirement, Faccin can offer any solution that is technologically feasible.







RCMI Series

"Expressly designed for rolling profiles with high resistance to the bending"





Angle Rolls Series

Advanced technology for profile rolling

Series RCMI "double pinch" angle rolls are expressly designed for rolling profiles with high resistance to the bending.

This is the reason why the structures are heavily dimensioned and are built with heavy thickness plates of certified quality steel.

They are electro-welded and heat treated to release the internal stresses. The solidity of the structure is in fact an essential parameter to guarantee reliability and precision through the years.

The RCMI series angle rolls offers superior quality and includes many accessories supplied as standard equipment.

Superior rolling precision

The large series of rolls supplied as standard equipment allows all the standard profiles to be rolled (including beams, columns and channels rolled on edge).

The adaptability of the special modular system of bending rolls guarantees the best possible guide for the profile during the complete rolling process.

The 4 lateral guide rolls are, as standard, independently adjustable in 6 directions to guarantee the best control of the planarity of rolling, to calibrate diameters and to prevent twisting of asymmetrical sections.





STANDARD CONFIGURATION:

- Universal rolls for rolling all the standard sections;
- Motorized fine adjustment for the universal rolls height;
- Independent adjustment of the two bending rolls (double pinch);
- External guide rolls independently adjustable in six directions;
- Simultaneous translating and rotating movements for the bending rolls;
- Infinitely variable rotation speed for interpolation between different radii;
- Automatic hydraulic compensation of rolls rotational speed;
- Three independently driven shafts with torque expander;
- Three hydraulic motors and three planetary gearboxes for rolls rotation;
- Special high resistance heat treated forged steel used for the rolls;
- Roll shafts made of NiCrMo alloy steel hardened and ground;
- High load over-dimensioned bearings;
- At your choice console on wheels or pendant type;
- · Machine CE certified for its safety;

UPON REQUEST:

- Pipe and RHS rolling dies;
- Hard way rolling units (push/pull devices);
- Spiralling device;
- Fast tool change kit;
- Automatic section feeding;
- Special asymmetrical versions;
- Electronic templates;
- Graphic Numerical Controls;

Solution for

Angle Rolls

"Machines designed for extreme bending performance"





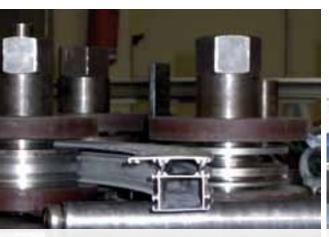
Example from the range

larger, smaller, intermediate sizes, available

RCMI			110		130		170		190		240		280		320		360	
Profiles																		
1		mm.	200x40	Ø1300	240x30	Ø1000	260x40	Ø1300	350x50	Ø1200	350x70	Ø2000	450x70	Ø2000	500x80	Ø1800	550x100	Ø2000
2	_	mm.	100x25	Ø800	120x30	Ø1200	150x40	Ø1400	150x50	Ø1200	200x50	Ø2000	250x50	Ø2000	250x70	Ø2000	300x70	Ø2800
3		mm.	Ø80	Ø850	Ø90	Ø1000	Ø110	Ø1100	Ø130	Ø1600	Ø150	Ø2000	Ø170	Ø1800	Ø200	Ø2600	Ø230	Ø2600
4	- 傷	mm.	70x70	Ø800	80x80	Ø900	90x90	Ø1200	115x115	Ø1600	130x130	Ø2000	145x145	Ø2000	170x170	Ø2800	200x200	Ø2200
5		mm.	100x12	Ø1200	120x12	Ø1600	150x15	Ø2800	180x15	Ø2800	200x20	Ø3000	200x20	Ø2800	200x28	Ø2500	200x28	Ø2500
6	-	mm.	100x12	Ø800	130x12	Ø1300	150x16	Ø1800	180x15	Ø2000	200x20	Ø2200	200x26	Ø2000	200x28	Ø1600	200x28	Ø1500
7		mm.	130x13	Ø1300	140x15	Ø1400	150x15	Ø1500	160x20	Ø1500	200x20	Ø1800	200x28	Ø2000	200x28	Ø1600	200x28	Ø1600
8		mm.	90x8		100x8		120x8		150x8		160x10		200x13		260x13		310x13	
9		mm.	110x12	Ø1100	130x15	Ø1500	150x16	Ø1500	180x16	Ø1800	200x20	Ø3000	200x28	Ø2500	200x28	Ø2000	200x28	Ø2000
10		mm.	110x12	Ø1500	125x12	Ø1600	140x15	Ø1600	180x16	Ø3000	180x18	Ø4000	200x20	Ø2500	200x28	Ø2500	200x28	Ø2500
11	UPs	mm.	200	Ø1000	220	Ø1000	320	Ø1600	400	Ø2000	400	Ø2500	500	Ø2000	550	Ø2000	600	Ø1500
12	UPN	mm.	200	Ø1500	220	Ø1100	320	Ø1800	400	Ø2200	400	Ø1600	500	Ø2300	550	Ø2000	600	Ø1500
13	FE	mm.	200	Ø1000	220	Ø1000	320	Ø1600	400	Ø1500	450	Ø2500	500	Ø2500	550	Ø2000	600	Ø2200
14	HEA	mm.	140	Ø1500	160	Ø1700	200	Ø2000	260	Ø2000	280	Ø2200	320	Ø2600	450	Ø3000	600	Ø3000
15	HER	mm.	120	Ø1500	140	Ø1700	180	Ø1600	220	Ø2000	240	Ø2200	280	Ø2200	320	Ø2100	550	Ø3200
16	0	mm.	Ø100x6	Ø1200	Ø140x5	Ø1500	170x6	Ø1500	190x7	Ø2200	220x8	Ø3000	320x9	Ø4000	330x10	Ø6000	400x12	Ø8000
17	UPN	mm.	80	Ø5000	120	Ø6000	160	Ø8000	200	Ø12000	240	Ø10000	260	Ø10000	300	Ø22000	320	Ø20000
18	Pt.	mm.	100	Ø2000	120	Ø2500	160	Ø3600	200	Ø6000	240	Ø12000	300	Ø13000	330	Ø20000	360	Ø22000
19	HEA	mm.	100	Ø4000	100	Ø3500	140	Ø5000	180	Ø4500	200	Ø9000	220	Ø10000	240	Ø10000	300	Ø28000
20	HEB H	mm.	100	Ø6000	100	Ø4000	140	Ø3600	160	Ø4000	180	Ø5000	200	Ø6000	240	Ø7000	300	Ø9500
W cm3		55		90		160		360		600		720		1100		1750		



Angle Rolls Case History



Special versions and Special Tooling for rolling complex shapes and aluminium extrusions.



Variable Geometry Beam and Section Benders with capacities up to section modulus 17.000 cubic centimetres.



Spiral Rolling equipment and Spiral Supports for medium and heavy duty applications.



Rotating Table Ring Rolling Machines, ideal for flat and angle bars used as flanges and bearing housings. Capacities up to 70.000 square mm cross-section.

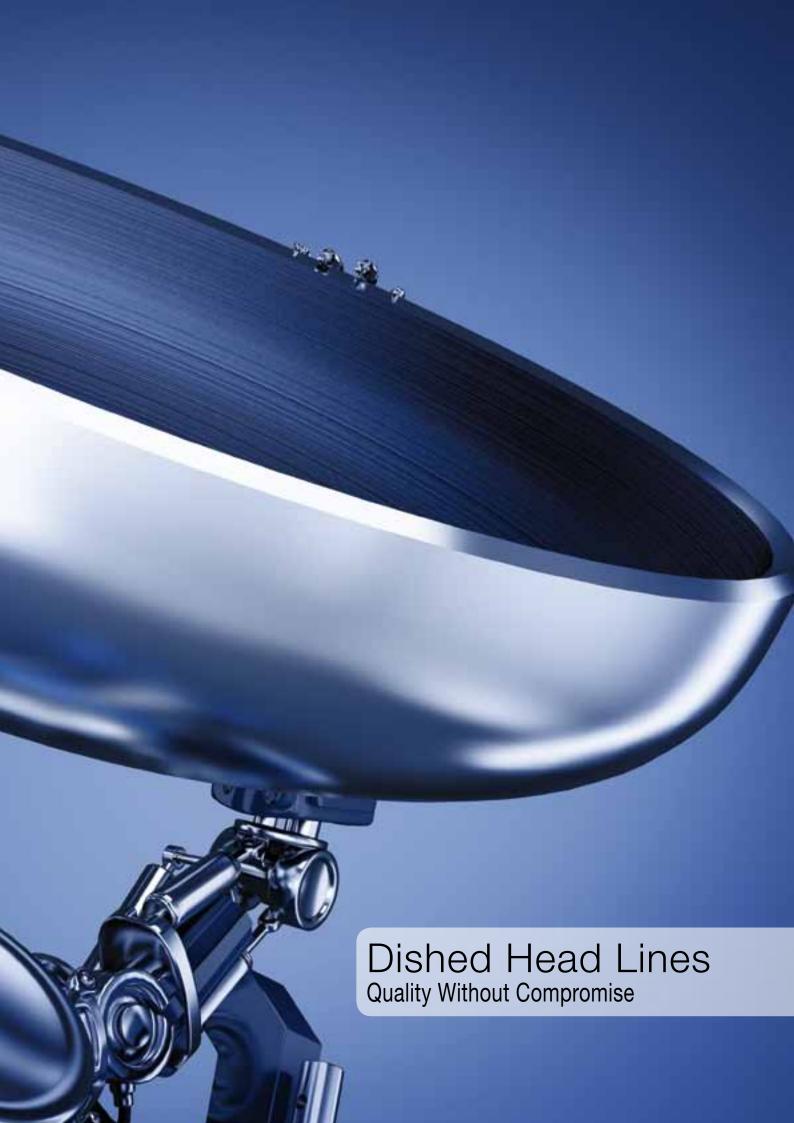


Ship frame and bulb benders for the shipbuilding industry.



Ask for any special requirement, Faccin can offer any solution that is technologically feasible.

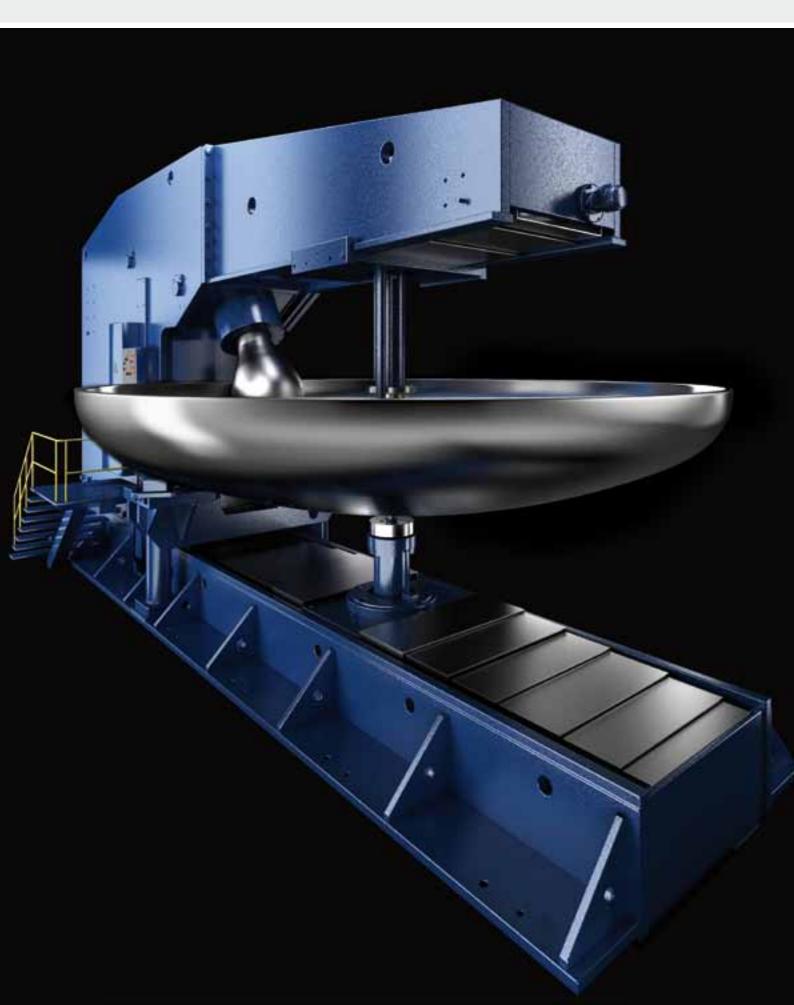






Dished Heads

"State of the Art Production Equipment"





The widest range of machines

FACCIN is the ideal partner for an investment in a modern dished ends fabrication line.

Over thirty years of experience in the field and a long list of satisfied customers are the guarantees for the total quality of the product and a source of new ideas for dedicated custom-made solutions. The range of automatic flangers goes from 6 mm to 45 mm in thickness of cold forming capacity (thicker heads can be manufactured with hot forming process).

The **PPM** Hydraulic Presses are manufactured with power up to 3.000 Tons and are suitable for dishing, straightening, and swaging. Automatic manipulators and global plate handling systems complete the range for a total automation of the whole manufacturing process.





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CB Circular Shears

From cutting to flanging

A fast and economical system to cut the blank from a square plate is represented by **FACCIN CB** series of circular shear.

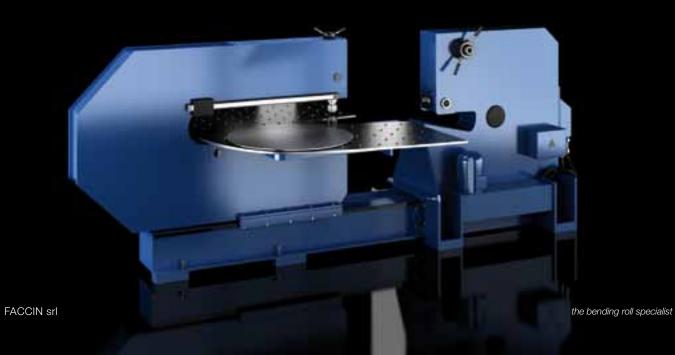
These machines are available in different capacities up to 10 mm in thickness and 5 metres in diameter. Normally, for thicker plates, thermal cutting is preferred.

The circular shear can be supplied as a traditional machine with manual loading/unloading of the work-piece or in a fully automated cell. Flanging tools are available for the whole **FACCIN** range of circular shears so that it is possible to use it both for cutting the disks and flanging those thin walled stainless steel heads typically used in the food processing industry.











PPM dishing presses

Exclusive tie-rods design

In order to choose the right size of press, it is necessary to calculate the developed dimension of the largest head to be formed. Then it is possible to decide the distance between the columns. The power of the press is related to the resistance of the material to be processed and to the required cycle times.

Higher pressing power guarantees lower dishing times because it is possible to press the plate with larger dies minimizing the number of hits to form the head completely.

The FACCIN PPM series of hydraulic presses guarantees superior forming accuracy and the highest reliability because they are designed with the exclusive HPT system to minimize the deformation of the frame.

With this solution, two solid forged tie rods are used to keep the base connected to the upper beam with a constant compression load. The tie-rods are permanently pre-stressed. There are cheaper alternatives in the construction of hydraulic presses for manufacturing tank heads. Usually, in the cheaper design, the base is connected to the upper beam with keyways machined on the frame or simply by welding the structure in a single monolithic piece.

FACCIN presses are all designed with **HPT** technology.

HANDLING SYSTEMS:

Automatic manipulators can be used to accurately position the plates under the press dies.

This solution guarantees very high and consistent quality. An important advantage given by the MA series of manipulators is the reduced production times for dished ends and the additional benefit to press a number of plates together. The possibility of multiple plate forming means consideration should be given to increasing the size of press.





BF Hydraulic Flangers

Automatic Flangers

With the widest range of flanging machines available on the market, **FACCIN** is the ideal supplier for those companies who need to improve the quality of their production and, in the meantime, reduce the production costs.

The **FACCIN BF** range of flanging machines is designed with a solid electro-welded and stress relieved C frame.

The movements are fully hydraulic and the whole system is protected from overload by safety valves.

Every **BF** flanging machine is designed to be very easy to operate. It is supplied, in its standard configuration, with a fast automatic working cycle to help inexperienced operators during the flanging process.

The **BF** range of flanging machines is available in "with centre hole" or "without centre hole design" and goes up to 45mm capacity.

A comprehensive range of accessories is available like: automatic tool change systems, automatic loading/unloading systems for the work-piece, edge beveling, numerical control units with graphic programming, digital feedback system for diameters control and special design solution for specific applications.

Longer life of the tooling is guaranteed by the use of special alloy forged steel for manufacturing the flanging and shaping rolls. The FACCIN special tooling can also be used as a substitute for the less reliable rolls originally supplied by other manufacturers.





Dished Heads Case History



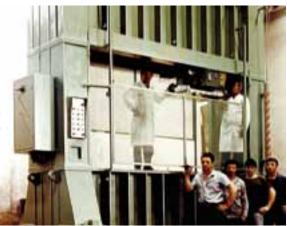
Dishing Presses and Manipulators are available in any size and capacity. Reliable and Modern Design provides maximum working speeds.



Automatic Flanging Machines are available in different design for heads with our without centre hole. Playback CNC controls are also available.



Dedicated Solutions are provided to optimize productivity, precision and ease of use in flanging of mild and stainless steel heads in any size and shape.



Hydraulic Presses are also designed specifically with movable tools for roll bending or straightening of plates. They are dedicated to general fabricators or shipbuilders.



Automatic Loading and Unloading Systems, Automatic Manipulators, Automatic Die Changing Systems, Advanced Numeric Controls complete the range of accessories.



Attention to the smallest details and continuous improvement of technological solution guarantee the highest reliability and efficiency of every Faccin Dishing and Flanging Unit.



Services









After sales

The first guarantee for minimum down-times after installation of a machine is the quality and the reliability of the product. An investment which is mainly based on the price of purchase generally brings about losses that are much larger than the percentage of initial savings. Nevertheless any machine may have some problems that have to be solved in the shortest time possible. Therefore the users of the best machines in the world still need efficient after sales service from the supplier. Faccin guarantees the best possible assistance because of the priority that is given to the mission of customer's satisfaction.



Commissioning and training

Most of the machines can be easily self-installed by the roll operator simply going through the detailed instructions available in the machine manuals always provided in hard and soft copies. For more complex equipment sometimes the support of a FACCIN service engineer may be required together with a short period of training.

Training sessions carried out by skilled operators are always available and periodical upgrades may be requested to enhance the productivity of the systems applying the most modern manufacturing techniques.



Call centre - specialist support

A qualified FACCIN service engineer is always available for our customers and agents through a dedicated telephone number. This service is designed to provide efficient first-aid and to close over 50% of the requests for help with one phone call.



Documentation

The efficiency of our after sales service is directly linked to the accuracy and completeness of the technical documentation that is filed for any machine and customer.

Machine manuals complete with digital pictures and videos are saved in our database with the historical data of the equipment. Dedicated software helps to manage the service calls, the in-filed technical interventions, the statistics and the customers satisfaction.



Tele-service

Modern telecommunication technology helps to overcome difficulties caused by geographical distance. Dedicated hardware and software can be used to link all FACCIN machines to our headquarters in Italy for real-time monitoring. Most of the problems that cannot be detected with a phone call can be solved at minimum cost and minimum downtime through on-line cooperation.



Spare parts availability

The large production volumes and the standardization of the design guarantees the availability of most spare parts within a few hours from the time of need. Moreover the internal production facility insures that all FACCIN customers have direct access to the means to manufacture any non-commercial component or part.

This capacity has driven many bending roll companies to rely on FACCIN for repairing or upgrading rolling machines manufactured by third parties.



The World Largest Rolling Equipment Manufacturing Plant



Direct Control over "in house" Design, Fabricating, Machining, Assembly is the best assurance of Superior Quality.

Guaranteed!

Quality System Certified ISO 9001 : 2008



Competence in Sales and After Sales Services through Officially Registered Worldwide Branches.

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