

Станки для и ки ар ат р и рои водства ско Multiradius ни ски аракт ристики

По вопросам продаж и поддержки обращайтесь:

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Multiradius 36 BEND

SHAPING AND AUTOMATIC CALENDERING

The shaping and calendering centers of the **MULTIRADIUS 36 BEND** series, make it possible to produce circles, stirrups, shaped and calendered with clockwise and anticlockwise bends on both ends.

The shape is created in a completely automatic manner without manual intervention by the operator during the entire production cycle, from the loading of the bars to the evacuation and collection of the finished product, ensuring high productivity, precision and quality, guaranteeing the highest levels of safety.

HYBRID



VERSATILITY AND PRODUCTIVITY

The **MULTIRADIUS 36 BEND** is equipped with two moving heads able to perform all operations (translation, bending, calendering) independently, ensuring high productivity.

This feature is particularly highlighted when multiple bends are requested (clockwise and anticlockwise) on the two ends of the shape with angles ranging up to a maximum of $\pm 180^\circ$.

Large circles with or without hooks can be produced completely automatically without any operator intervention.

Bends without limits

The exclusive method used on the **MULTIRADIUS 36 BEND** series to create **clockwise and counterclockwise bends**, allows bending angles **up to $\pm 180^\circ$** to be obtained, thus guaranteeing **maximum freedom in shape and size**.

BENDS CLOCKWISE AND ANTI-CLOCKWISE

The **bending cycle** is carried out by means of a **retractable bending pin**. After making the first bend in an **anticlockwise** direction, -90° **1**, the **pin retracts** (**1**) **2** and repositions itself. The **contrast gripper** (**2**) **3** align the **bars** near the new position so that the next bend is opposite to the previous one. At this point the **pin comes out** again **4** and makes the bending in a **clockwise** direction, $+90^\circ$. All this happens in a very **short time** and **completely automatically**.

CHANGE PINS IN A HANDFUL OF SECONDS

The **MULTIRADIUS 36 BEND** shaping center it is equipped with an automatic device for the ejection of the central bending pin (monoblock) which facilitates its replacement. The pins used **conform to international standards**.



UNIVERSAL GRIPPERS

During the various stages of the processing, the grippers are activated automatically.

Once the bars have been received from the automatic feeder ①, the grippers move towards the bending unit to make bidirectional bends ②, also acting as contrast vices for a better quality of the finished product.

In the case in which circles or calendered shapes need to be made, the grippers position the bars near the rollers ③ suited for this function.



HEADING FAST

A floating heading plate positioned on the two ends of the automatic feeder, allows a perfect alignment of the bars (when required), ensuring the correct tolerance of the measurements.



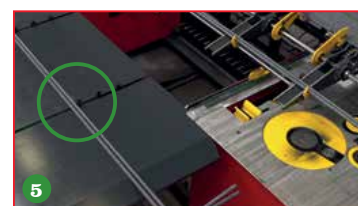
FEEDING AND AUTOMATIC DISCHARGE

The "cut to size" bars corresponding to a specific position to be processed are positioned on the support and alignment chains ①.

Completed the alignment (phase managed by the operator through a manual control) every single bar is extracted by the rotating arms equipped with selective magnets ② with extreme precision, avoiding any possible counting error (load of two bars instead of one).

The single or double bars depending on the sequence are held by the "buffer" station ③ waiting for the next cycle. From here they are released and directed to the clamps below ④.

Once finished (shaping or calendering) a series of ejectors ⑤ place the processed material on the underlying mobile collection stations ⑥.



WORLD SYSTEM Total Control

The World System through a "user friendly" interface allows a total control of all the devices of the system, enhancing its performance.

The **programming of the production cycle** allows to use the memorized parameters related to speed, compensations, etc. relative to shape, dimensions and diameter of each single element.

Operator panel Industrial P.C.MEP "World System" composed of:

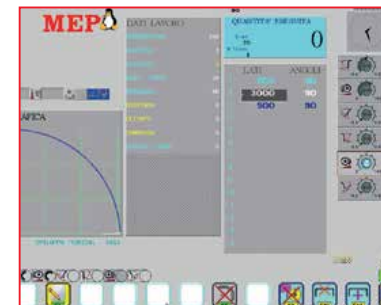
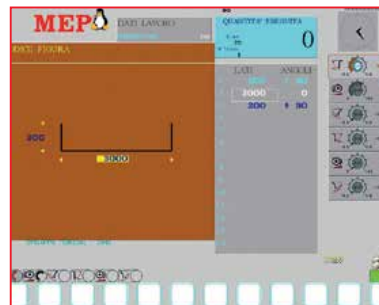
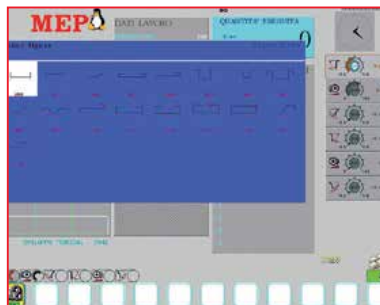
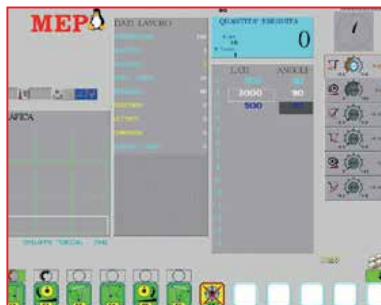
- "Touch screen" LCD screen for displaying all the information in a "user-friendly" graphic form.
- Compact ("embedded") low absorption ("fanless") microprocessor equipped with "compact flash disk" without moving parts ("diskless").
- Linux operating system.
- Automatic data backup system in case of accidental power interruptions to safeguard the archives and the integrity of the memory supports.



Control panel for Multiradius 36 bend

The software specially developed by MEP allows:

- Data entry with graphic display of programmed and pre-stored shapes.
- Possibility to create calendered products with different radii inside the same element.
- Control and memorization of the parameters and of the speed in execution through potentiometer.
- Memorizing and storage of data relating to work cycles and generation of daily production statistics (positions, diameters, times, weights, etc.).
- System of "active diagnostics" for a constant verification of the efficiency of all the devices of the plant.
- Automatic activation of the scheduled maintenance program.
- Provision for optical bar code reader via RS 232 port.
- USB port connection
- Possibility of connection to the company network via RJ45 Ethernet port (LAN port) or RS 232.
- Provision for remote assistance via VPN (via the factory network).



AUTOMATIC DISCHARGE SYSTEM



- The two bending and calendering heads are positioned parallel and near to the mobile collection stations. In this way it is possible to divide the products according to their processing position (tag) using the entire length of the worktop.

MONOBLOC BENDING PINS















- MULTIRADIUS 36 BEND** is equipped with a series of self-locking bending pins (patented) with self-locking fastening. The pins are made in compliance with international regulations and are quickly replaced when changing the diameter, allowing an immediate restart of production.

LIFTING AND SUPPLY SYSTEM



- The "support and alignment chains" can be equipped on request (optional) with a device for lifting the bars, integrated with one motorized roller conveyor

TECHNICAL AND PRODUCTIVE CHARACTERISTICS

			
	WORKING BARS DIAMETER		BENDING
	36 mm - #11		n° 1 bar
	32 mm - #10		n° 1 bar
	28 mm - #8		n° 1 bar
	25 mm - #8		n° 2 bars
	20 mm - #6		n° 2 bars
	16 mm - #5		n° 3 bars
	10 mm - #3		n° 4 bars
	WORKING BARS DIAMETER		CALENDERING
	36 mm - #11		n° 1 bar
	32 mm - #10		n° 1 bar
	28 mm - #8		n° 1 bar
	25 mm - #8		n° 1 bar
	20 mm - #6		n° 1 bar
	16 mm - #5		n° 2 bars
	10 mm - #3		n° 2 bars
	BENDING ANGLE		
	maximum		180°
	BENDING DISPLACEMENT SPEED		
			0.8 m/s - 2.62 fps
	BENDING SPEED		
			0 ÷ 11,5 rpm
	MAXIMUM BENDING SIDE		
	Clockwise *		3000 mm - 9' 10"
	Anti clockwise		1300 mm - 4' 3"
		BENDING PINS DIAMETER	
minimum		100 mm - 4"	
maximum		200 mm - 8"	
	OPERATING TEMPERATURE		
	standard		-5° C / +40° C - 23° F / 104° F
	optional upon request		-15° C / +55° C - 5° F / 131° F
	INSTALLED POWER		
			115 kW - 156.35 hp
THE PLANT DOES NOT REQUIRE COMPRESSED AIR.			
fy: max. unit yield point - ft: max. tensile strength			
* other loads upon request			

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