

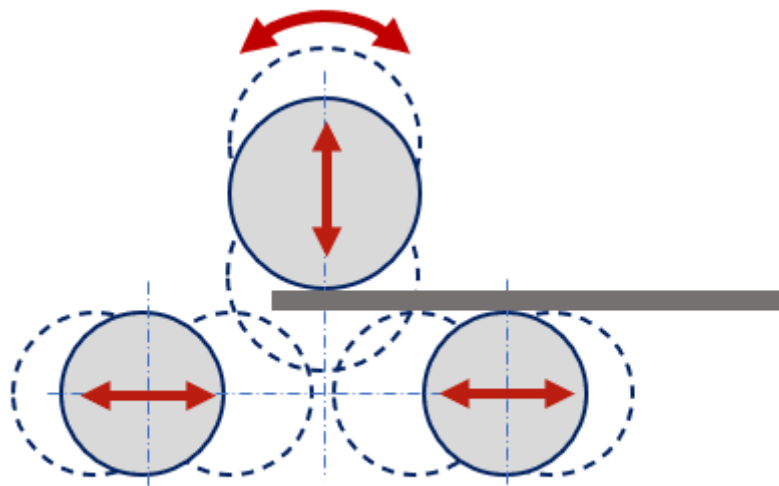
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SECOND HAND 3 ROLLS PLATE BENDING MACHINE “**SERTOM**” MODEL EMO 30-25 VARIABLE GEOMETRY



EMO Variable geometry system

The **EMO** is a variable geometry 3-roll plate bending machine capable of working medium-thick plates.



Geometria variabile - Variable geometry

The two side rolls and the top roll can move independently, creating any geometry necessary for processing, ensuring maximum flexibility and significantly reducing the straight line of entry. The top roll is motorized while the two side rolls are free and with an automatic braking system.

The geometry of the rolls can be adapted (variable) in the various work operations: pre-bending, bending (rolling) and calibration phases, based on the thickness, the bending radius to be obtained and the hardness of the plate.

EMO - MAIN BENEFITS OF VARIABLE GEOMETRY

Often believed that the 4 roll machines represent the latest technology in terms of rolling.

Really the **plate roll with variable geometry** has more advantages and better performances compared to a 4 roll machine:

- **Allows to work a wide range of thickness, diameters and materials** thanks to the possibility to create **all necessary configuration** using the independent movements of all 3 rolls (*on the 4 roll machine we have only ONE geometry*) and the **interchangeability of the top roll**;
- Allows to keep the **plate always in horizontal position** even during the pre-bending phase, preventing it from slipping off or tipping over, giving **best safety to the operator and avoid damage to the material** (*on the 4 roll the only way to avoid these risks is to use crane or support the plate with a tilting feeding table*);
- Thanks to the controlled movement of the rolls, the **pre-bending operations are particularly easy and are performed with a lower straight section** and with **greater simplicity and speed** than a 4-roll;
- The **possibility of considerably tilting the rolls**, allows you to roll cones that would not be possible with a 4 rolls, with precision and very short times.
The best machine and solution currently on the market;
- The **flexibility of the variable geometry** makes it **easy to calibrate** rolled and welded ferrules, with final results not possible with a 4 roll machine;
- **Easy replacement of the top roll** with an **interchangeable one very small that assure a wide range of diameters & thickness**.
Not possible with a 4-roll due to problems of peripheral speed adjustment and of adjusting the strokes of the lower rolls;
- **Hydraulic brakes** in order to guarantee a braking action for the side rolls.



TECHNICAL SPECIFICATIONS:

-TOP ROLL TABLE LENGTH	:	3050	mm
-SIDE ROLL TABLE LENGTH	:	3050	mm
-TOP ROLL DIAMETER	:	400	mm
-SIDE ROLLS DIAMETER	:	350	mm
-MAX. OPENING BETWEEN TOP/SIDE ROLLS	:	75	mm
-MAX. WORKING HEIGHT FROM THE GROUND	:	1000	mm
-MAX LOAD ON TOP ROLL	:	195	TON
-TILTING OF TOP ROLL	:	max ±10	mm
-TILTING OF SIDE ROLLS FOR CONE BENDING	:	max 2°	degrees
-ROLLS ROTATION SPEED	:	2,8- 5	m/min
-TOP ROLL POSITIONING SPEED (SLOW – FAST)	:	380 mm/min	
-TOTAL INSTALLED POWER	:	44	Hp
-VOLTAGE/FREQUENCY/PHASES	:	380/50/3	
-APPROX MACHINE WEIGHT	:	17.000	Kg
-APPROX MACHINE DIMENSION	cm :	550 x 235 x 180	h

MANUFACTURING YEAR: 2001

MACHINE CAPACITY:

*Calculated considering mild steel plate with **yield strength 260 N/mm²**, with **tensile strength 400 N/mm²**.*

PREBENDING CAPACITY

-MAX. WORKING PLATE WIDTH	:	3000	mm
-PREBENDING THICKNESS (with flat end=1,5-2,5 x plate thickness)	:	20	mm
-TUBE INTERNAL DIAMETER	:	600	mm
-PREBENDING THICKNESS (with flat end=1,5-2,5 x plate thickness)	:	25	mm
-TUBE INTERNAL DIAMETER	:	2000	mm
-WORKING PLATE WIDTH (half table)	:	1500	mm
-PREBENDING THICKNESS	:	32	mm
-TUBE INTERNAL DIAMETER	:	600	mm

ROLLING CAPACITY

-MAX. WORKING PLATE WIDTH	:	3000	mm
-ROLLING THICKNESS	:	32	mm
-TUBE INTERNAL DIAMETER	:	600	mm
-ROLLING THICKNESS	:	36	mm
-TUBE INTERNAL DIAMETER	:	2000	mm
-ROLLING THICKNESS	:	40	mm
-TUBE INTERNAL DIAMETER (with tube diam. $\geq$)	:	3000	mm
-WORKING PLATE WIDTH (half table)	:	1500	mm
-ROLLING THICKNESS	:	42	mm
-TUBE INTERNAL DIAMETER	:	600	mm
-ROLLING THICKNESS	:	48	mm
-TUBE INTERNAL DIAMETER (with tube diam. $\geq$)	:	3000	mm

MACHINE CAPACITY:

*Calculated considering steel plate with **yield strength 360 N/mm²**, with **tensile strength 520 N/mm²**.*

PREBENDING CAPACITY

-MAX. WORKING PLATE WIDTH	:	3000	mm
-PREBENDING THICKNESS (with flat end=1,5-2,5 x plate thickness)	:	15	mm
-TUBE INTERNAL DIAMETER	:	600	mm
-PREBENDING THICKNESS (with flat end=1,5-2,5 x plate thickness)	:	18	mm
-TUBE INTERNAL DIAMETER	:	2000	mm
-WORKING PLATE WIDTH (half table)	:	1500	mm
-PREBENDING THICKNESS	:	25	mm
-TUBE INTERNAL DIAMETER	:	600	mm

ROLLING CAPACITY

-MAX. WORKING PLATE WIDTH	:	3000	mm
-ROLLING THICKNESS	:	28	mm
-TUBE INTERNAL DIAMETER	:	600	mm
-ROLLING THICKNESS	:	32	mm
-TUBE INTERNAL DIAMETER	:	2000	mm
-ROLLING THICKNESS	:	34	mm
-TUBE INTERNAL DIAMETER (with tube diam. ≥)	:	3000	mm
-WORKING PLATE WIDTH (half table)	:	1500	mm
-ROLLING THICKNESS	:	36	mm
-TUBE INTERNAL DIAMETER	:	600	mm
-ROLLING THICKNESS	:	40	mm
-TUBE INTERNAL DIAMETER (with tube diam. ≥)	:	2000	mm

CONE BENDING MACHINE CAPACITY

-with continuous bending

approx. 65% of pre-bending capacity

-with press method

approx. 100% of pre-bending capacity



MACHINE COMPLETE WITH ALL STANDARD EQUIPMENT:

- **Exclusive Sertom translating geometry** design “EMO” type;
- **Fully hydraulic machine**;
- **Lower rolls are placed on bearings** on orientable double crown of rolls;
- **Rolls in special carbon steel**;
- **Three rolls with adjustable position** through hydraulic cylinders;
- **N° 2 preset rolls rotation speeds**, pre-selectionable with selector;
- **Hydraulic control of balancing system on the top roll**;
- **Hydraulic control of balancing system on the side rolls**;
- **Inclination of side rolls for conical production**;
- **Centralized lubrication**;
- **All controls conveniently located on an independent control console**;
- **Low voltage at controls, 24VAC**;
- **Hydraulic unit** consisting of motor pump group, solenoid valves, max pressure by-pass valve to guarantee overload protection;
- **Hydraulic components** Rexroth;
- **Hydraulic motors coupled to planetary gear unit** speed reducer directly mounted on the top roll;
- **Hydraulic drop end** opening to allow produced tube removal in horizontal position;
- **Automatic speed and pressure compensation** between top and lateral rolls;
- **Electric components** of best brands;
- **Warning light** to advise lack of lubrication;
- **Warning light** to advise clogged oil filters;
- **Safety device with immediate stop of all movement**, consisting of stop switches and peripheral trim wire;
- **Machine manufactured according to the “CE” rules certified**;
- **Instruction manual** in English language completes of hydraulic and electrical schemes

EQUIPMENT INCLUDED IN THE SUPPLY :

- Induction hardened rolls
- Mobile control panel for machine functions
- Manual centralized lubrication
- Siemens PLC with Touch Screen

GENERAL SALE CONDITIONS

Delivery terms:	Ex-works our deposit Brescia (BS) – Italy Shipment by road is required N.1 trucks (not included) Shipment by sea is required N.1 container 20' OT. (not included)
Packaging	Not included
Delivery time	Available subject to prior sale
Payment:	100% at order receipt, with bank transfer before delivery
Acceptance test:	Seen and liked.
Pre-acceptance testing:	It is possible to view the working machine at the place where the machine is currently located. In case a functional test of the machine with the use of a plate is required before shipment, the request must be agreed before the final order. The costs of the test are Customer charge and will be charged at cost. Cost of one of our technician Euro 65,00/h.
Commissioning, Start-up and training:	1 technician at Euro 800,00 daily (for 9 working hours), Foreseen time: 1 day for commissioning 2 days for training Air-fare, board and lodging at customer charge
Offer validity:	Subject to prior sale
Excluded from the supply	Assembly of the machine, water/air connection; -power line connection, wiring, dead grounds connection; canalisation cables; foundation and civil works; foundation covers; lifting cranes for the assembly; -hydraulic unit oil first filling; everything not expressly mentioned

*Our staff is at your complete disposal for any information you may need.
The data shown in this offer are not binding.*