

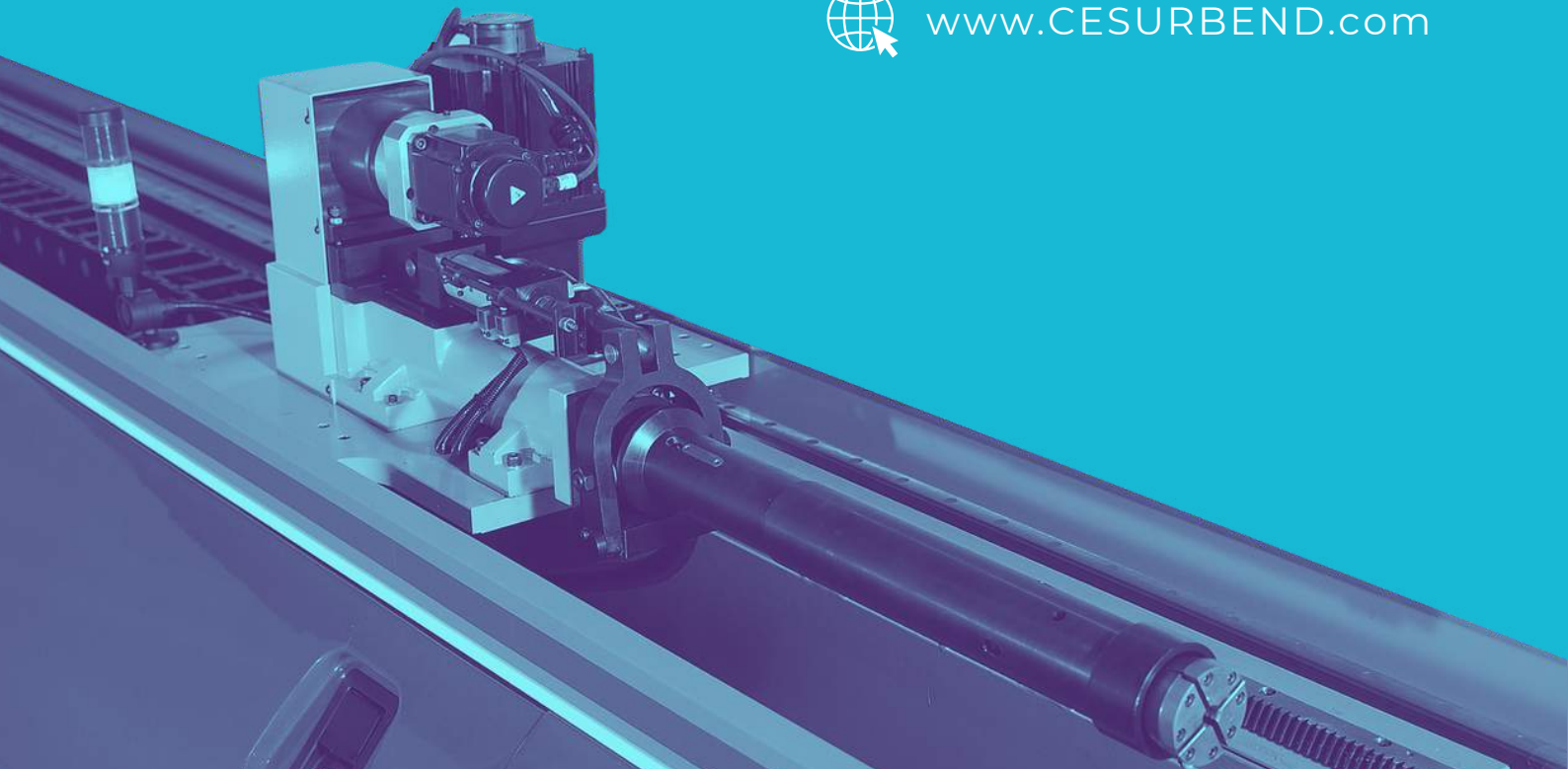
**CESURBEND®**

“Trust us, because Cesurbend made it...”

# 2024 PRODUCT CATALOG



[www.CESURBEND.com](http://www.CESURBEND.com)



# ABOUT US

## CESURBEND

As a Turkish manufacturer, with 20 years of experience Cesurbend Makina manufactures Pipe forming machines used worldwide today. Hydraulic squeezing pipe bending machines, pipe and profile bending machines with and without mandrel, three-roll pipe and profile bending machines, pipe end forming machines, designed and manufactured entirely by Cesurbend in Bursa, It has launched horizontal press machines, spinning type profile bending machine, accessories and spare parts to the market.

In 2019, it expanded its product range by adding Cylinder machines to its structure. With its strong experience and continuously renewed infrastructure, Cesurbend develops its technology day by day to produce high efficiency machines.

Cesurbend produces and offers machines, especially in sectors such as hospital equipment, furniture sector, agricultural machinery sector, park and garden equipment, education equipment sector, yacht-ship sector, construction sector, automotive sector, food equipment sector, heating and cooling. It provides services to companies operating in many fields.

With its friendly, knowledgeable sales and customer service personnel, it offers sales and support to customers and dealers. The purpose of the company; It is aimed to meet the bending and manufacturing needs by offering high quality machines at affordable prices, to produce profitable solutions, and to develop long-term relationships with customers and dealers.

Cesurbend reflects the quality of the products produced in Bursa to companies outside the country. Export countries include; Afganistan, Albania, Algeria, America, Austria, Azerbaijan, Bosnia&Herzagovina, Bulgaria, Cameroon, Canary Islands, Colombia, Croatia, Denmark, England, Estonia, France, Gana, Germany, Greece, Hungary, India, Iran, Iraq, Ireland, Israel, Italy, Jordan, Kazakhstan, Kosovo, Kuwait, Kyrgyzstan, Lebanon, Latvia, Lithuania, Macedonia, Malaysia, Maldives, Mexico, Moldova, Morocco, Netherland, Norway, Palestine, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Serbia, Singapore, South Africa, Spain, Sudan, Syria, Tajikistan, Turkmenistan, Ukraine, United Arab Emirates, Vietnam.

Our company, which included the Bravebend brand in 2017, never forgets an understanding of ethics that stands behind its work. It participates in domestic and international fairs with Cesurbend-Bravebend brands and enables the sharing of thoughts, wishes and expectations by removing the physical distance between customers.

Our company continues to produce in 2600 square meter factory in Bursa, and continues to meet customer demands in the fastest and highest quality.

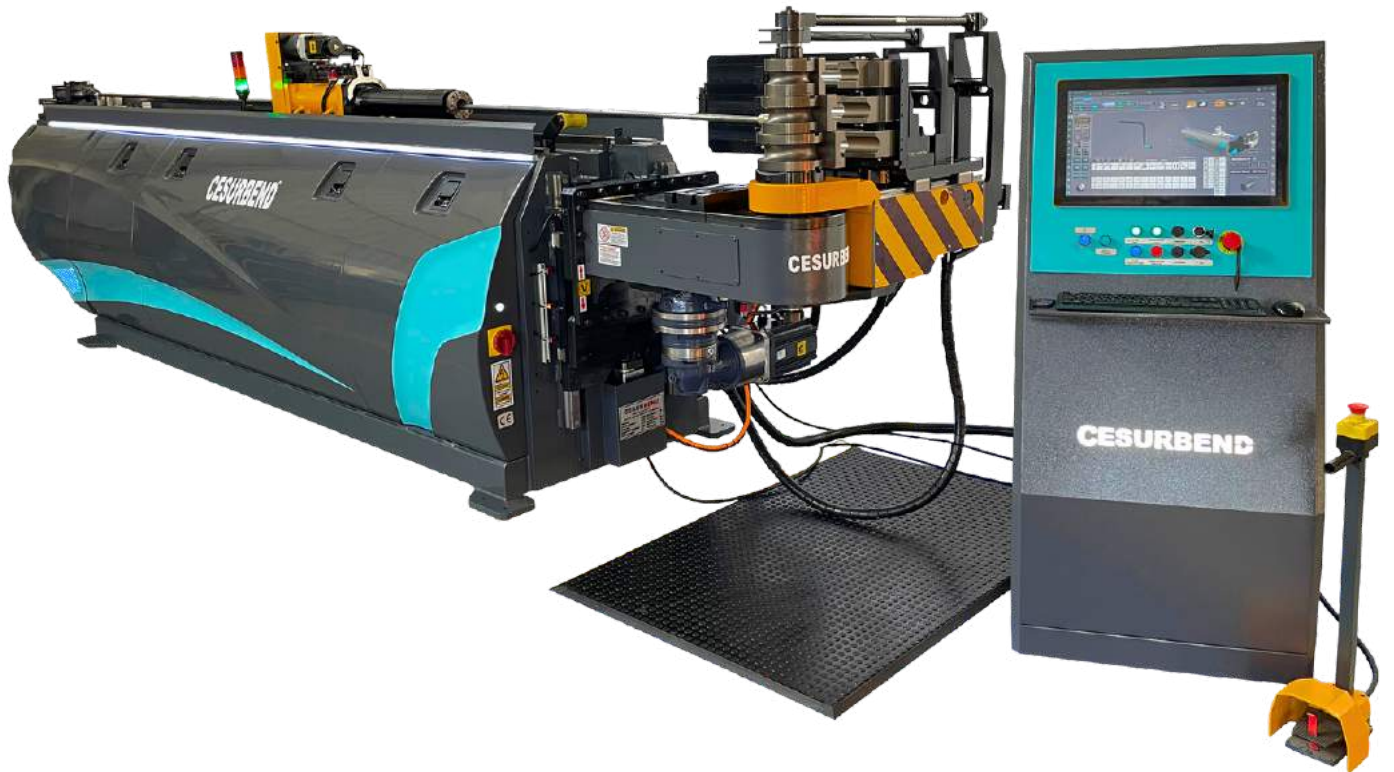


AFGANISTAN - ALBENIA - ALGERIA - AMERICA - AUSTRIA - AZERBAIJAN - BOSNIA&HERZAGOVINA - BULGARIA - CAMEROON - CANARY ISLANDS - COLOMBIA - CROATIA - DENMARK - ENGLAND - ESTONIA - FRANCE - GANA - GERMANY - GREECE - HUNGARY - INDIA - IRAN - IRAQ - IRELAND - ISRAEL - ITALY - JORDAN - KAZAKHSTAN - KOSOVO - KUWAIT - KYRGYZSTAN - LEBANON - LATVIA - LITHUANIA - MACEDONIA - MALAYSIA - MALDIVES - MEXICO - MOLDOVA - MOROCCO - NETHERLAND - NORWAY - PALESTINE - POLAND - PORTUGAL - QATAR - ROMANIA - RUSSIA - SAUDI ARABIA - SERBIA - SINGAPORE - SOUTH AFRICA - SPAIN - SUDAN - SYRIA - TAJIKISTAN - TURKMENISTAN - UKRAINE - UNITED ARAB EMIRATES - VIETNAM



# CNC PIPE AND TUBE BENDING MACHINE (5 AXIS)

CESUR-65



## MAIN TECHNICAL SPECIFICATIONS

Max. Pipe Diameter	Ø 65 mm	Feed Axis Movement	7,5 Kw Servo Motor (OMRON)
Max. Wall Thickness	3 mm	Rotation Axis Movement	1,5 Kw Servo Motor (OMRON)
Max. Bending Angle	190°	Bending Axis Movement	7,5 Kw Servo Motor (OMRON)
Max. Bending Radius	200 mm	Right-Left Axis Movement	1,5 Kw Servo Motor (OMRON)
Min. Bending Radius	25 mm	Up-Down Movement	1,5 Kw Servo Motor (OMRON)
Max. Pipe / Tube Length Capacity with Mandrel	4000 mm	Oil Tank Capacity	100 Lt
Max. Length Capacity with Non Mandrel	Unlimited	Cooling Capacity	100 Lt / min.
Hydraulic Engine Power	7,5 Kw	Machine Size (WxLxH)	1400x7500x2000
Max. Hydraulic Pressure	140 Kg / cm <sup>2</sup> (bar)	Machine Weight	4250 Kg

Working Speed	Feeding Speed	1500 mm / sec	Working Tolerance	Feeding	±0.1 mm
	Rotation Speed	100 / sec		Rotation	±0.1 mm
	Bending Speed	100 / sec		Bending	±0.1 mm

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# CNC PIPE AND TUBE BENDING MACHINE (5 AXIS)

CESUR-38



## MAIN TECHNICAL SPECIFICATIONS

Max. Pipe Diameter	Ø 38 mm	Feed Axis Movement	5 Kw Servo Motor (OMRON)		
Max. Wall Thickness	2 mm	Rotation Axis Movement	0,75 Kw Servo Motor (OMRON)		
Max. Bending Angle	190°	Bending Axis Movement	5 Kw Servo Motor (OMRON)		
Max. Bending Radius	250 mm	Right-Left Axis Movement	0,75 Kw Servo Motor (OMRON)		
Min. Bending Radius	25 mm	Up-Down Movement	1,5 Kw Servo Motor (OMRON)		
Max. Pipe / Tube Length Capacity with Mandrel	4000 mm	Oil Tank Capacity	100 lt		
Max. Length Capacity with Non Mandrel	Unlimited	Cooling Capacity	100 lt / min.		
Hydraulic Engine Power	5,5 Kw	Machine Size (WxLxH)	1400x6200x1800		
Max. Hydraulic Pressure	140 Kg / cm <sup>2</sup> (bar)	Machine Weight	4250 Kg		
Working Speed	Feeding Speed	1500 mm / sec	Working Tolerance	Feeding	±0.1 mm
	Rotation Speed	180 / sec		Rotation	±0.1 mm
	Bending Speed	150 / sec		Bending	±0.1 mm



# CNC PIPE AND TUBE BENDING MACHINES (5 AXIS)

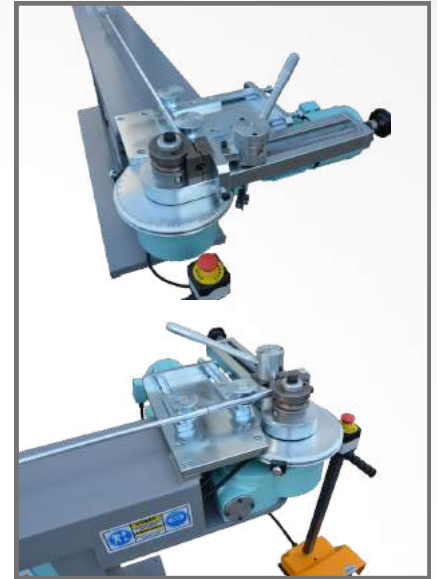
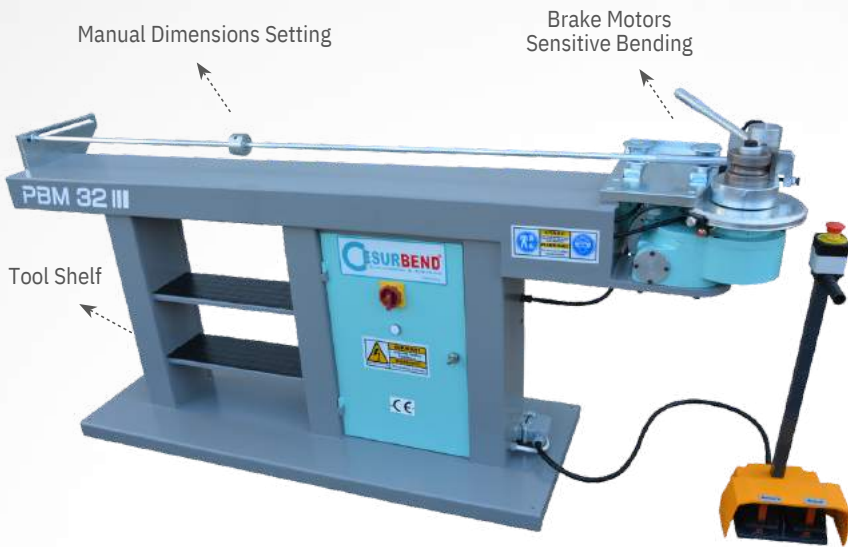
## GENERAL FEATURES OF **CESUR-38** & **CESUR-65**

- 21,5" color touch PC  
(Intel Core I5 CPU, Ram 8gb, Windows 10)
  - 5 axis servo control (Y, B, C, H, V).
  - 4 axial centerpolation movements.
  - Improved 3D tubular simulation.
  - 3D Machine bending simulation (Colision).
  - Automatic pipe length calculation.
  - Perforating feature between 4 - 10 mm. **(OPTIONAL)**
  - Safety PLC (Omron).
  - Safety OverEtherCat.
  - Safety mat (750x1000mm). **(OPTIONAL)**
  - 2D Drawing program **"FREE"**.
  - Hydraulic clamping.
  - Hydraulic mandrel.
  - Hydraulic pressure.
  - Hydraulic slider.
  - Hydraulic shaft carrier / mandrel shaft **(3 SIDE GRIP)**
  - Hydraulic collet.
  - Y axis movement "Linear Guide" (THK) Japan
  - Y axis movement rack and pinion ground (Güdel) Switzerland
  - On Cesur 38; C axis movement is done with **"DIRECT DRIVE" gear system**, on Cesur 65 with **"CHAIN" gear system**.
  - H Axis Movement "Linear Guide", Screwed Shaft(THK) Japan
  - V Axis Movement "Linear Guide", Screwed Shaft (THK) Japan
  - Security Switches.
  - Foot pedal control.
  - Manual and fully automatic operation feature.
  - Working without mandrel and with mandrel feature.
  - Mandrel early draw feature.
  - Automatic yellow guide lubrication. **(ONLY FOR CESUR 38)**
- Possibility of bending pipes longer than the machine length **(NOT APPLICABLE FOR ALL DIAMETER)**
  - Unlimited radius with rolling system.  
**(PUSHING AND BENDING)**
  - Spiral bending capability.  
**(ONLY VALID FOR CERTAIN DIAMETERS)**
  - Hydraulic oil cooling system.
  - Programming in YBC mode and converting it to X, Y, Z, R format.
  - Ability to add and delete lines in the program.
  - Clicking feature in 3D pipe simulation.  
**(Y, B, C INDEX VIEWING)**
  - Converting X, Y, Z, R coordinates to Y, B, C, R format with a button.
  - Conversion of DXF format chicory to Y, B, C format with a button.
  - Conversion of STEP format chicydosian to Y, B, C format with a button.
  - Open and view file in STL format.  
**(COMPARE WITH STEP FILE)**
  - By defining the angle obtained after the first bending of various materials to the machine, automatic calculation of the difference in the following bends and taking the correct result in the bends.
  - Cesurbend CNC software sends automatic reporting of all daily, weekly, monthly items to your e-mail addresses.
  - The feature of restarting from the place where the program is taken as a result of the machine stop with power failure or emergency stop.
  - Showing work time.
  - Possibility to receive remote assistance and updates.
  - Compliance with standards.



# MANDREL PIPE & TUBE BENDING MACHINES

## PBM-32



## PBM-32E



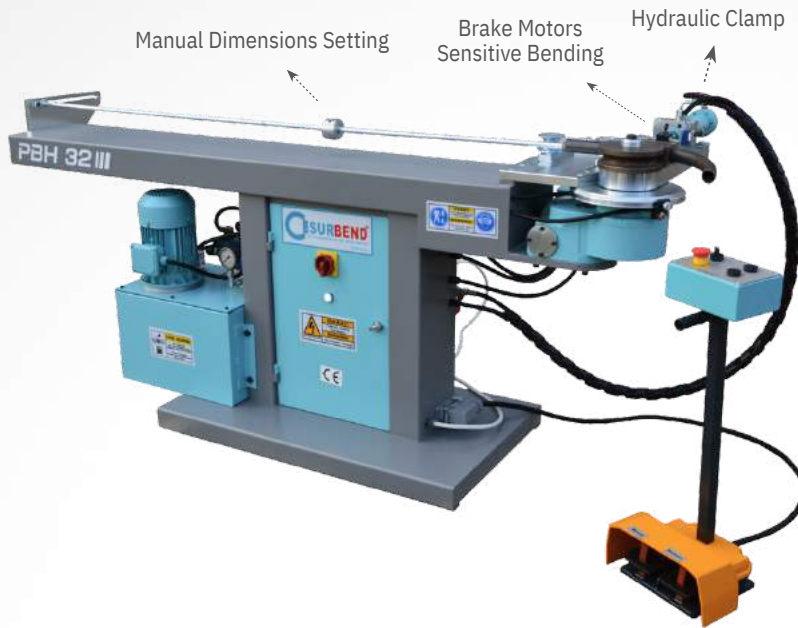
- 100 program memory capacity
- PLC Control (OMRON)
- 10 sequential bending possibilities.

### MAIN TECHNICAL SPECIFICATIONS FOR **PBM-32** & **PBM-32E**

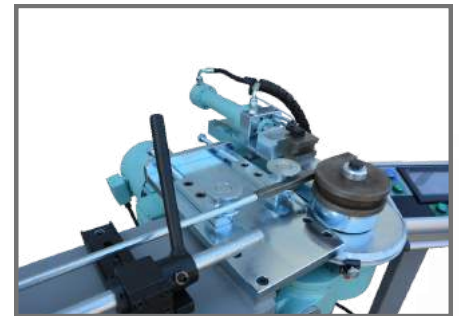
Max. Pipe Diameter (mm)	32	Pipe Loading Length (mm)	2000
Max. Wall Thickness (mm)	3	Machine Width (mm)	1000
Max. Bending Radius (mm)	275	Machine Length (mm)	2300
Max. Bending Angle (°)	190	Machine Height (mm)	1050
Bending Speed (rev/min)	8,5	Machine Weight (kg)	300
Bending Engine Power (kW)	2,2		

# MANDREL PIPE & TUBE BENDING MACHINES

## PBH-32



## PBH-32E



- 100 program memory capacity
- PLC Control (OMRON)
- 10 sequential bending possibilities.

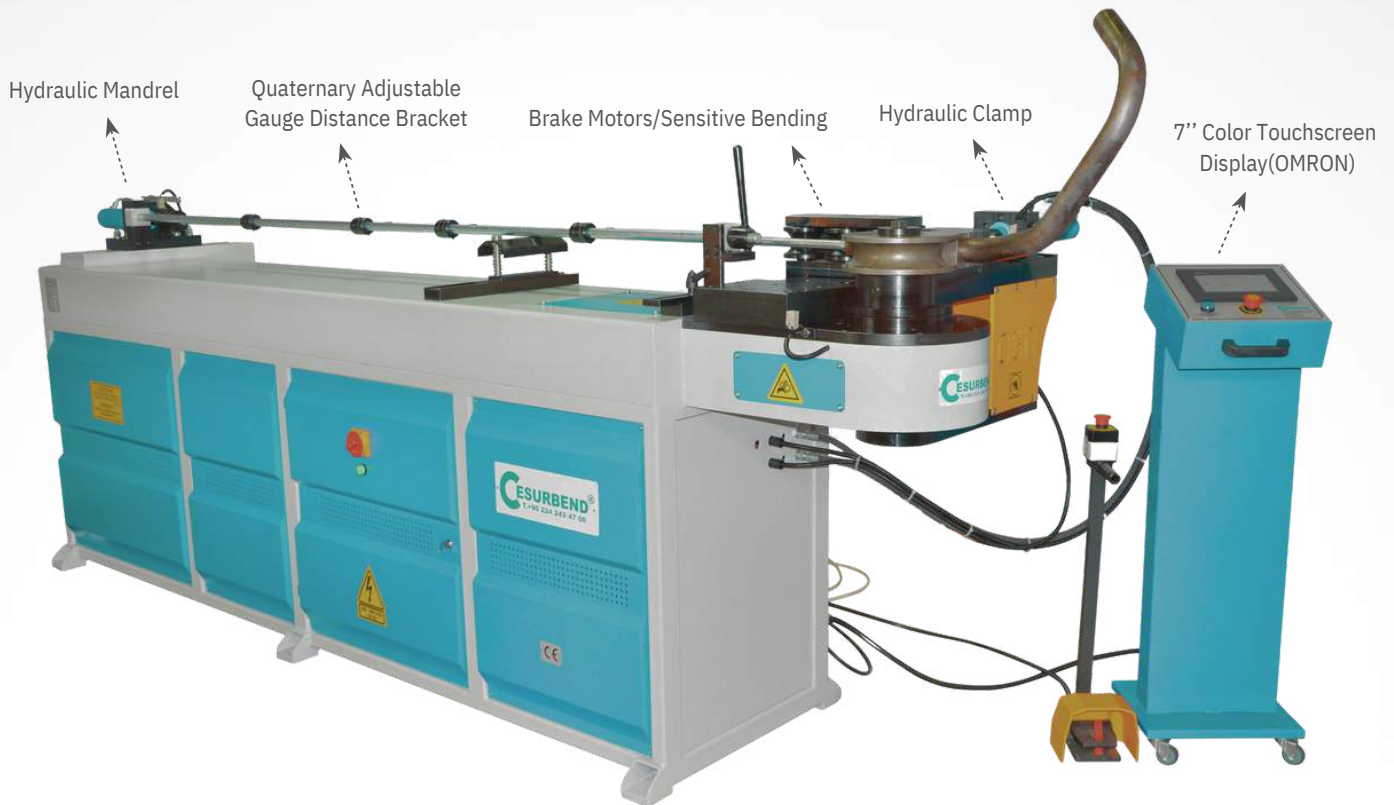
### MAIN TECHNICAL SPECIFICATIONS FOR **PBH-32** & **PBH-32E**

Max. Pipe Diameter (mm)	32	Bending Engine Power (kW)	2,2
Max. Wall Thickness (mm)	3	Pipe Loading Length (mm)	2000
Max. Bending Radius (mm)	275	Machine Width (mm)	1000
Max. Bending Angle (°)	190	Machine Length (mm)	2300
Bending Speed (rev/min)	8,5	Machine Height (mm)	1050
Hydraulic Engine Power (kW)	1,5	Machine Weight (kg)	400



# MANDREL PIPE & TUBE BENDING MACHINES

PBCM-32 | PBCM-38 | PBCM-51 | PBCM-65



- 100 program memory capacity
- PLC Control (OMRON)
- 10 sequential bending possibilities.

## MAIN TECHNICAL SPECIFICATIONS

	PBCM-32	PBCM-38	PBCM-51	PBCM-65
Max. Tube o.d. Bending Capacity	32 mm (steel)	38 mm (steel)	51 mm (steel)	65 mm (steel)
Max. Tube Wall Thickness	2 mm (steel)	2,5 mm (steel)	3 mm (steel)	3 mm (steel)
Max. Bending Angle	190 degree	190 degree	190 degree	190 degree
Max. Bending Radius	250 mm	250 mm	250 mm	250 mm
Max. Pipe / Tube Length Capacity	2500 mm	2750 mm	2750 mm	3000 mm
Bending Speed	8,5 rev/min	8,5 rev/min	8,5 rev/min	8,5 rev/min
Bending Motor Power	2,2 kW	3 kW	5,5 kW	7,5 kW
Hydraulic Power	1,5 kW	1,5 kW	3 kW	4 kW
Width	1000 mm	1000 mm	1150 mm	1150 mm
Length	2800 mm	3000 mm	3500 mm	3700 mm
Height	1150 mm	1100 mm	1150 mm	1200 mm
Weight	600 kg	650 kg	1050 kg	1100 kg



# MANDREL PIPE & TUBE BENDING MACHINES

PBH-38E | PBH-51E | PBH-65E



- 100 program memory capacity
- PLC Control (OMRON)
- 10 sequential bending possibilities.

## MAIN TECHNICAL SPECIFICATIONS

	PBH-38E	PBH-51E	PBH-65E
Max. Tube o.d. Bending Capacity	32 mm (steel)	51 mm (steel)	65 mm (steel)
Max. Tube Wall Thickness	3 mm (steel)	3 mm (steel)	3,5 mm (steel)
Max. Bending Angle	190 degree	190 degree	190 degree
Max. Bending Radius	250 mm	250 mm	250 mm
Max. Pipe / Tube Length Capacity	2000 mm	3000 mm	3000 mm
Bending Speed	8,5 rev/min	8,5 rev/min	8,5 rev/min
Bending Motor Power	2,2 kW	5,5 kW	5,5 kW
Hydraulic Power	1,5 kW	3 kW	3 kW
Width	1000 mm	950 mm	950 mm
Length	2100 mm	3700 mm	3700 mm
Height	1050 mm	1200 mm	1200 mm
Weight	420 kg	900 kg	1250 kg

# MANDREL PIPE & TUBE BENDING MACHINE

PBNC-38



- 100 program memory capacity
- PLC Control (OMRON)
- 15 sequential bending possibilities.



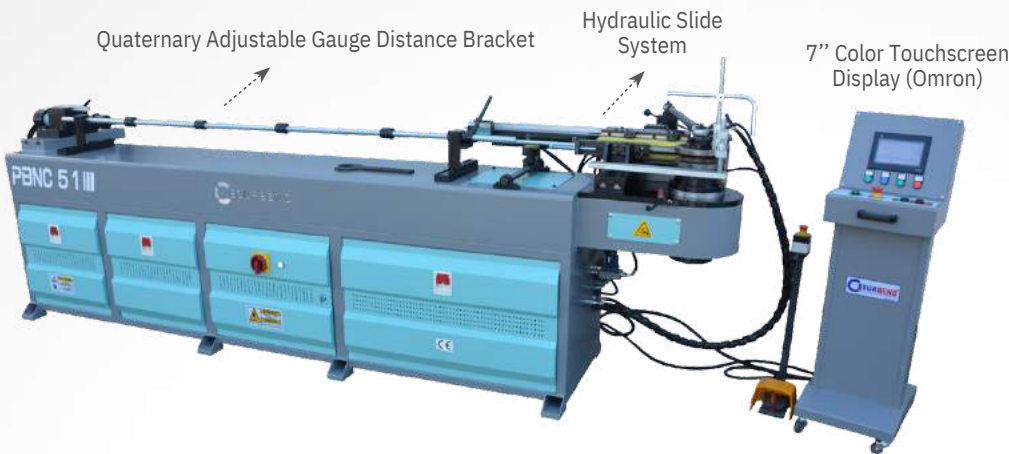
- The possibility of using mandrel and wiper die in our NC machines
- The sled system is provided by a linear rail and a car.
- Connection equipment is standard. The mandrel and wiper die are extra options.

## MAIN TECHNICAL SPECIFICATIONS

Max. Pipe Diameter (mm)	38
Max. Wall Thickness (mm)	3
Max. Bending Radius (mm)	250
Max. Bending Angle (°)	190
Bending Speed (rev/min)	8-10
Hydraulic Engine Power (kW)	1,5
Bending Engine Power (kW)	3
Pipe Loading Length (mm)	2500
Machine Width (mm)	1400
Machine Length (mm)	3250
Machine Height (mm)	1200
Machine Weight (kg)	700

# MANDREL PIPE & TUBE BENDING MACHINES

## PBNC-51



- 15 sequential bending possibilities
- 100 program memory capacity programming
- PLC Control (Omron)



## PBNC-51A



- Feeding Manual  
Digital Controlled & Rotation  
Servo Motor Controlled
- Hydraulic Pins Clamp



THE MACHINE IS 5 PISTONS

### THE DIFFERENCES

PBNC-51		PBNC-51A	
Pipe Loading Length (mm)	3000	Pipe Loading Length (mm)	4000
Machine Width (mm)	1400	Machine Width (mm)	1300
Machine Length (mm)	4215	Machine Length (mm)	5750
Machine Height (mm)	1450	Machine Height (mm)	1500
Machine Weight (kg)	1600	Machine Weight (kg)	2000

### MAIN TECHNICAL SPECIFICATIONS FOR PBNC-51 & PBNC-51A

Max. Pipe Diameter (mm)	51	Max. Hydraulic Pressure (bar)	200
Max. Wall Thickness (mm)	3	Bending Speed (rev/min)	7-10
Max. Bending Radius (mm)	250	Hydraulic Engine Power (kW)	3
Max. Bending Angle (°)	190	Bending Engine Power (kW)	5,5



# MANDREL PIPE & TUBE BENDING MACHINES

## PBNC-65



- 15 sequential bending possibilities
- 100 program memory capacity programming
- PLC Control (Omron)



THE MACHINE IS 4 PISTONS

## PBNC-65A



- Feeding Manual  
Digital Controlled & Rotation  
Servo Motor Controlled
- Hydraulic Pins Clamp



THE MACHINE IS 5 PISTONS

### THE DIFFERENCES

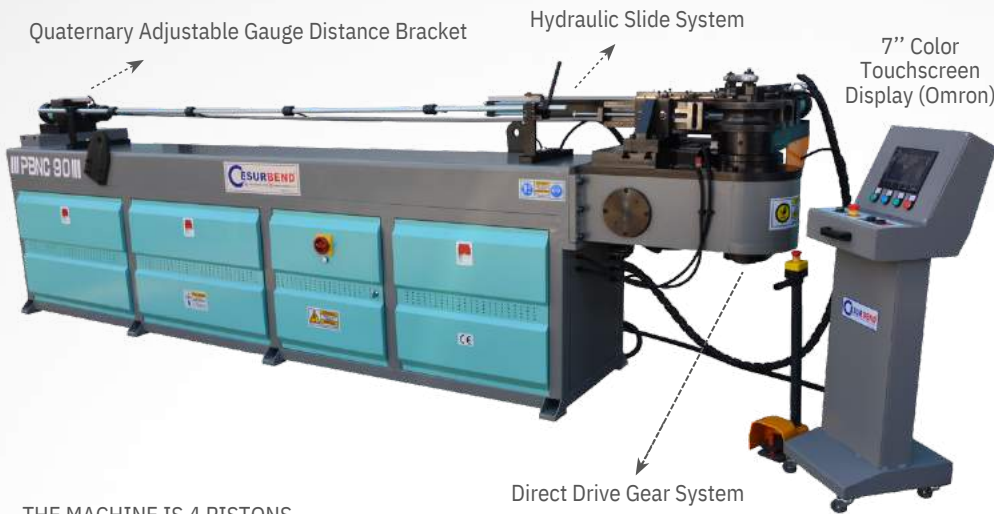
PBNC-65		PBNC-65A	
Pipe Loading Length (mm)	3500	Pipe Loading Length (mm)	4000
Machine Width (mm)	1450	Machine Width (mm)	1500
Machine Length (mm)	4250	Machine Length (mm)	6200
Machine Height (mm)	1200	Machine Height (mm)	1500
Machine Weight (kg)	1600	Machine Weight (kg)	2000

### MAIN TECHNICAL SPECIFICATIONS FOR PBNC-65 & PBNC-65A

Max. Pipe Diameter (mm)	63	Max. Hydraulic Pressure (bar)	200
Max. Wall Thickness (mm)	3	Bending Speed (rev/min)	7-10
Max. Bending Radius (mm)	250	Hydraulic Engine Power (kW)	4
Max. Bending Angle (°)	190	Bending Engine Power (kW)	7,5

# MANDREL PIPE & TUBE BENDING MACHINES

## PBNC-90



- 15 sequential bending possibilities
- 100 program memory capacity programming
- PLC Control (Omron)



THE MACHINE IS 4 PISTONS

## PBNC-90A



- Feeding Manual  
Digital Controlled & Rotation  
Servo Motor Controlled
- Hydraulic Pins Clamp

THE MACHINE IS 5 PISTONS

### THE DIFFERENCES

PBNC-90		PBNC-90A	
Pipe Loading Length (mm)	4000	Pipe Loading Length (mm)	3000
Machine Width (mm)	1300	Machine Width (mm)	1400
Machine Length (mm)	4600	Machine Length (mm)	4500
Machine Height (mm)	1400	Machine Height (mm)	1600
Machine Weight (kg)	2650	Machine Weight (kg)	3000

### MAIN TECHNICAL SPECIFICATIONS FOR PBNC-90 & PBNC-90A

Max. Pipe Diameter (mm)	90	Max. Hydraulic Pressure (bar)	200
Max. Wall Thickness (mm)	4	Bending Speed (rev/min)	3-6
Max. Bending Radius (mm)	250	Hydraulic Engine Power (kW)	5,5
Max. Bending Angle (°)	190	Bending Engine Power (kW)	15

# MANDREL PIPE & TUBE BENDING MACHINE

PBNC-120

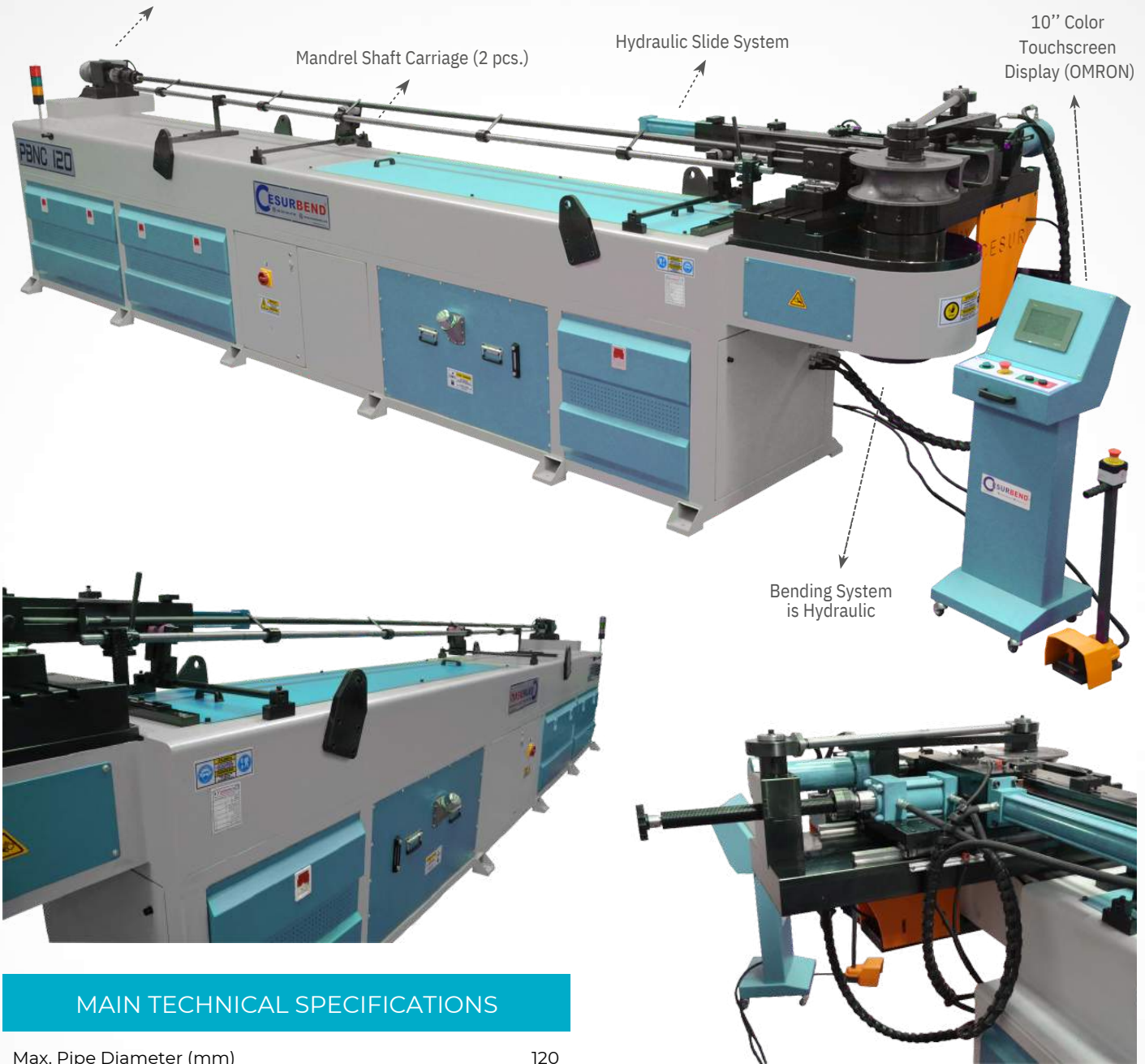
Quintet Adjustable Gauge Distance Bracket

Mandrel Shaft Carriage (2 pcs.)

Hydraulic Slide System

10" Color Touchscreen Display (OMRON)

Bending System is Hydraulic



## MAIN TECHNICAL SPECIFICATIONS

Max. Pipe Diameter (mm)	120
Max. Wall Thickness (mm)	6
Max. Bending Radius (mm)	300
Max. Bending Angle (°)	190
Bending Speed (rev/min)	2-4
Hydraulic Engine Power (kW)	15
Max. Hydraulic Pressure (bar)	200
Pipe Loading Length (mm)	6000
Machine Width (mm)	1300
Machine Length (mm)	6900
Machine Height (mm)	1300
Machine Weight (kg)	6650



# CNC PIPE & TUBE BENDING MACHINES (3 AXIS)

PBCNC-38 | PBCNC-65 | PBCNC-90



## MAIN TECHNICAL SPECIFICATIONS

	PBCNC-38	PBCNC-65	PBCNC-90
Max. Pipe Diameter	38 mm	65 mm	90 mm
Max. Wall Thickness	3 mm	3,5 mm	4 mm
Max. Bending Radius	250 mm	250 mm	250 mm
Max. Bending Angle	190°	190°	190°
Bending Speed	150 mm/sec	85 mm/sec	45 mm/sec
Rotary Speed	200 mm/sec	180 mm/sec	150 mm/sec
Feeding Speed	1000 mm/sec	900 mm/sec	800 mm/sec
Bending Accuracy	±0.1 mm	±0.1 mm	±0.1 mm
Hydraulic Engine Power	5,5 kW	7,5 kW	11 kW
Pipe Loading Length	4000 mm	4000 mm	6000 mm
Oil Tank Capacity	100 lt	120 lt	150 lt
Max. Hydraulic Pressure	200 bar	220 bar	250 bar
Machine Width	1200 mm	1100 mm	1900 mm
Machine Length	3000mm	5750mm	8386 mm
Machine Height	1700 mm	1500 mm	1600 mm
Machine Weight	2500 kg	3450 kg	3900 kg

# THREE ROLL PIPE & TUBE BENDING MACHINES

## PB-30

### STANDARD EQUIPMENTS

- Steel frame
- 2 Bottom rolls powered by gear system.
- It is powered by a gear system driven by gearbox directly.
- Top roll is idle ( free turning )
- Hardened rolls
- Rolls shafts are special steel material hardened and ground
- Double speed motor
- Standard rolls
- Adjustable guide rolls
- Horizontal and vertical working position

### OPTIONAL EQUIPMENTS

- Pipe/Tube bending rolls
- Special profile bending rolls
- Angle bending rolls
- Digital readout
- Special lateral angle guide rolls



## PB-35

### STANDARD EQUIPMENTS

- Steel frame
- Two rolls direct driven by a gear system
- Rolls are hardened
- Rolls shafts are special steel material hardened and ground
- Roll shafts housed by bearings
- Standard rolls
- Guide rolls
- Horizontal and vertical working position

### OPTIONAL EQUIPMENTS

- Pipe / Tube bending rolls
- Special profile bending rolls
- Angle bending rolls
- Digital Readout
- Special lateral angle guides
- Special Bar Twist Attachment
- C&S forming attachment
- Double speed motor



## MAIN TECHNICAL SPECIFICATIONS

	PB-30	PB-35
Shaft Diameters	30 mm	50 mm
Lower Rolls Diameters	118 mm	155 mm
Top Rolls Diameters	148 mm	148 mm
Working Speed	3-6 m/min	4,5 m/min
Engine Power	0,7-0,85 kW	1,5 kW
Width	500 mm	850 mm
Length	650 mm	1100 mm
Height	1400 mm	1500 mm
Weight	215 kg	400 kg

# THREE ROLL PIPE & TUBE BENDING MACHINES

## HPB-45

### STANDARD EQUIPMENTS

- Stable cast steel frame
- 3 Rolls are motor driven
- Special hardened and polished rolls
- Horizontal and vertical working position
- Lateral side supports
- Brake motor equipped for the precision bending
- Hardened standard roll-set
- Mobile control panel
- Two digital readouts for position of bottom rolls
- Bottom rolls hydraulic movable up-down



### OPTIONAL EQUIPMENTS

- NC Control
- Spiral bending crane
- Special profile rolls

## HPB-50

### STANDARD EQUIPMENTS

- Steel welded construction frame
- 3 Rolls are motor driven
- Hardened shafts from special steel material
- Top roll hydraulic moveable up-down
- Horizontal and vertical working position
- Standard rolls
- Guide rolls
- Brake motor equipped for the precision bending
- Mobile control panel



### OPTIONAL EQUIPMENTS

- Pipe / Tube bending rolls
- Profile bending rolls
- Angle bending rolls
- Digital Readout
- Optional lateral angle guides
- Optional stairway bending attachment
- NC control
- Special DELRIN rolls to bend aluminium and stainless steel

## MAIN TECHNICAL SPECIFICATIONS

	HPB 45	HPB 50
Shaft Diameters	50 mm	50 mm
Lower Rolls Diameters	158 mm	158 mm
Top Rolls Diameters	158 mm	158 mm
Working Speed	4,5 m/min	4,5 m/min
Engine Power	1,1 kW	1,5 kW
Width	950 mm	850 mm
Length	810 mm	1100 mm
Height	1500 mm	1500 mm
Weight	500 kg	400 kg



# THREE ROLL PIPE & TUBE BENDING MACHINES

## HPB 65

### STANDARD EQUIPMANTS

- Steel construction welded frame
- 3 Rolls are powered
- Hardened and ground shafts made of high tensile special steel
- Rolls are hardened and ground
- Horizontal and vertical working position
- Mobile control panel
- 3 Axis mechanical lateral angle guide rolls
- Brake motor equipped for the precision bending
- Digital Readouts (2pcs)
- Bottom rolls hydraulic movable up-down

### OPTIONAL EQUIPMANTS

- Pipe, tube and profile bending rolls
- Hydraulic lateral guide rolls (2 axis)
- Automation with NC control
- Optional Crane System For Spiral Rollings



## HPB 80

### STANDARD EQUIPMANTS

- Steel construction welded frame
- 3 Rolls are powered
- Hardened and ground shafts made of high tensile special steel
- Rolls are hardened and ground
- Horizontal and vertical working position
- Mobile control panel
- 3 Axis mechanical lateral angle guide rolls
- Brake motor equipped for the precision bending
- Digital Readouts (2pcs)
- Bottom rolls hydraulic movable up-down

### OPTIONAL EQUIPMANTS

- Pipe, tube and profile bending rolls
- Hydraulic lateral guide rolls (2 axis)
- Automation with NC control
- Optional Crane System For Spiral Rollings



## MAIN TECHNICAL SPECIFICATIONS

	HPB 65	HPB 80
Lower Shaft Diameters	60 mm	80 mm
Top Shaft Diameters	50 mm	70 mm
Rolls Diameters	180 mm	245 mm
Engine Power	3 kW	4 kW
Working Speed	5 m/min	6 m/min
Width	850 mm	1000 mm
Length	1200 mm	1450 mm
Height	1200 mm	1400 mm
Weight	1000 kg	1700 kg

# NON MANDREL PIPE & TUBE BENDING MACHINES

## BB-60

- CK 45 monoblock body
- Gear drive system
- Operating system with NC digital program
- Sensitive compression counter
- Speed adjustment
- All necessary systems and millers are heat treatment and stoning



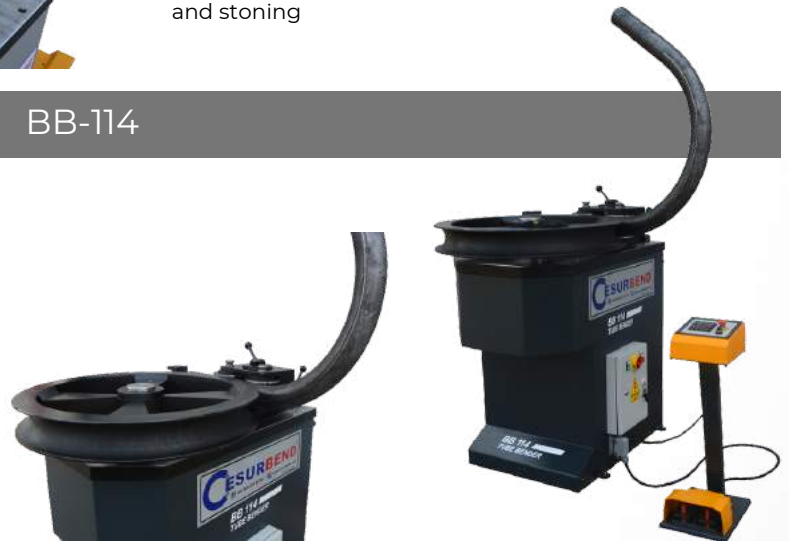
## BB-76



- CK 45 monoblock body
- Gearbox driven gear system
- Digital programmed unit for degree
- Precision counter at back
- Vertical working position
- Speed setting
- All shafts and the necessary parts are heat treated and grinded
- Shafts and rolls are SAE 1050 quality steel
- All necessary systems and millers are heat treatment and stoning

## BB-114

- One tooling set is included with the machine for one dimension
- CK 45 monoblock body
- Gearbox Power System
- All necessary systems and millers are heat treatment and stoning
- Digital Programmable System
- Precision Compression Counter



## MAIN TECHNICAL SPECIFICATIONS

	BB-60	BB-76	BB-114
Max. Pipe Diameter	60 mm	76 mm	114 mm
Max. Wall Thickness	3,5 mm	4 mm	5 mm
Working Speed	2-9 rpm	1-3 rpm	2 rpm
Engine Power	1,5 kW	4 kW	7,5 kW
Width	600 mm	600 mm	750 mm
Length	1000 mm	1000 mm	1200 mm
Height	1000 mm	1000 mm	1000 mm
Weight	400 kg	750 kg	1550 kg

# PIPE & TUBE NOTCHING MACHINE

## PN-76



## PN-76 2



- Charge to easily ability to open suitable dovetails according to the pipe and tube diameters with the help of processing drum.
- Ability to tighten and loosen the parts quickly as a result of moving clamp.
- Ability to opening dovetails up to 60.
- With hinged lid at the top of the machine grinding bearded materials facilities.
- Double-sided fence with a measurement accuracy of the system.
- 2 set of abrasive belts included as Standard equipment.

### MAIN TECHNICAL SPECIFICATIONS

Capacity	20-76 mm
Engine Power	2,2 kW 1500 rev/min
Mandrel Diameter	Ø 25-32-42-48-51-60-76
Abrasive Dimension	2000x100 mm
Machine Width	500 mm
Machine Length	1000 mm
Machine Height	1100 mm
Machine Weight	190 kg



# PIPE & TUBE NOTCHING MACHINE

PN-90

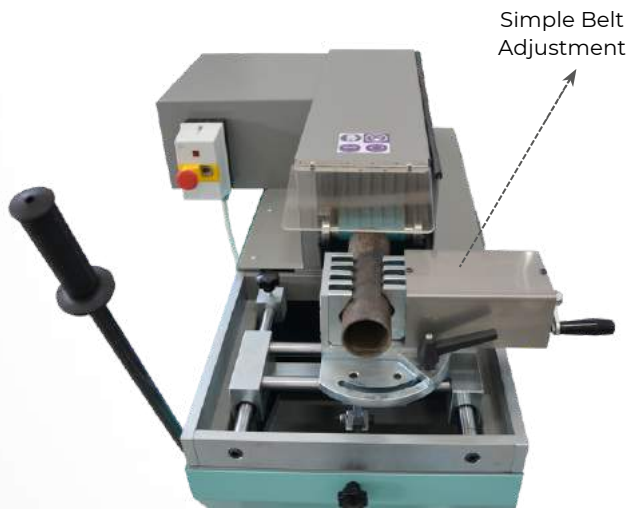


Standart Roller  
Diameters 7 Pieces

- Ø 25 mm
- Ø 32 mm
- Ø 38 mm
- Ø 42 mm
- Ø 48 mm
- Ø 60 mm
- Ø 76 mm



Optional Pneumatic Clamping



Simple Belt  
Adjustment



- Charge to easily ability to open suitable dovetails according to the pipe and tube diameters with the help of processing drum.
- Ability to tighten and loosen the parts quickly as a result of moving clamp.
- Ability to opening dovetails up to 60.
- With hinged lid at the top of the machine grinding bearded materials facilities.
- Double-sided fence with a measurement accuracy of the system.
- 2 set of abrasive belts included as Standard equipment.

## MAIN TECHNICAL SPECIFICATIONS

Capacity	21-90 mm
Engine Power	2,2 kW 1500 rev/min
Mandrel Diameter	Ø 25-32-38-42-48-60-76
Abrasive Dimension	1250x100 mm
Machine Width	1000 mm
Machine Length	1000 mm
Machine Height	1150 mm
Machine Weight	200 kg

# HORIZONTAL PRESS

BP-20

BP-40



## MAIN TECHNICAL SPECIFICATIONS

	BP-20	BP-40
Workbench Dimensions (mm)	500x1000	620x1050
Height of Workbench From the Ground (mm)	920	930
Max. Operating Pressure (ton)	20	40
Max. Operating Pressure in Hydraulic Circuit (mm)	230	250
Engine Power (kW)	2,2	4
Advance and Return Speed m/min	1750/2000	1750/2000
Mobile Punch Operating Speed (m/min)	450	470
Min.Max.Axis Base Between (mm)	110/310	120/370
Mobile and Fixed Pins Height (mm)	120	120
Mobile and Fixed Pins Diameters (mm)	55/55	55/63
Max.Stroke of Mobile Punch (mm)	190	250
Hydraulic Oil Tank Capacity (lt)	45	70
Noise Level (db)	70	70
Machine Width (mm)	480	1150
Machine Length (mm)	1250	700
Machine Height (mm)	900	950
Machine Weight (kg)	650	920

# MOTORISED & MANUAL PLATE 3 ROLLS BENDING MACHINES

## MR SERIES



- Top and bottom rolls powered by a single Gearbox and gear system (MR)
- SAE 1050 Quality Certificated Steel Rolls with high tensile strength
- Cast Iron Main Frames
- Mobile Control Panel by foot pedal on MR models
- Conical Bending Device
- Manuel dropend
- Wire grooves at the end of the rolls
- Precision Bending with Brake Motor on MR models
- Built according to EC Safety Directives (CE Mark)
- User Manual

### Optional

- \* Motorised back roll adjustment
- \* Digital readout for rear roll
- \* Induction hardened rolls
- \* Optional variable speed system
- \* Optional full closed sheet covers

Plate bending capacities are given for 24kg/mm<sup>2</sup> plate yielding strength.

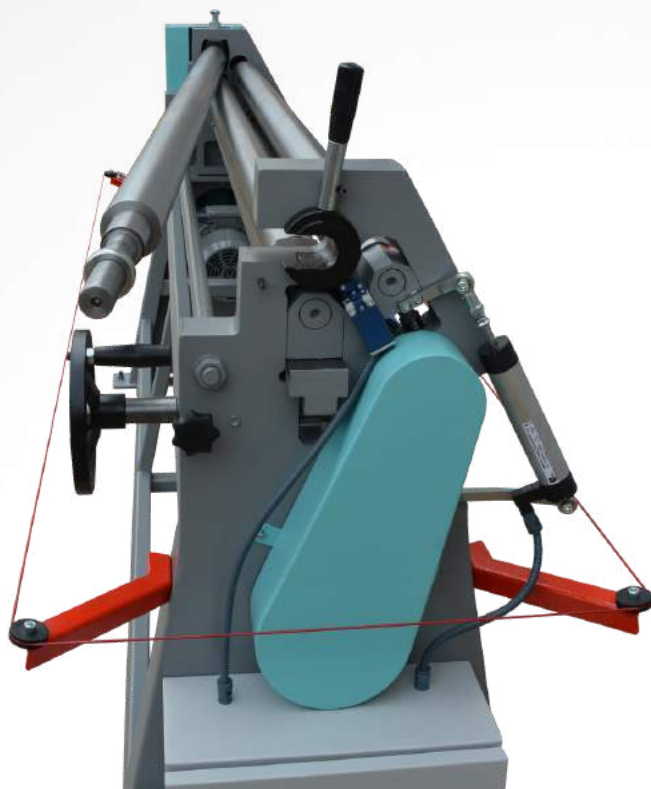
### MAIN TECHNICAL SPECIFICATIONS

	MR 1050x90	MR 1270x90	MR 1550x90	MR 1050x95
Working Length (mm)	1050	1270	1550	2050
Bending Capacity (mm)	3,3	2,5	2,2	1,5
Rolls Diameters (Ømm)	90	90	90	95
Width (mm)	850	850	850	850
Length (mm)	1910	2110	2410	2910
Height (mm)	1130	1130	1130	1130
Weight (kg)	450	520	550	585



# MOTORISED & MANUAL PLATE 3 ROLLS BENDING MACHINES

## MRM SERIES



- Top and bottom rolls powered by a single Gearbox and gear system (MR)
- SAE 1050 Quality Certificated Steel Rolls with high tensile strength
- Cast Iron Main Frames
- Mobile Control Panel by foot pedal on MR models
- Conical Bending Device
- Manuel dropend
- Wire grooves at the end of the rolls
- Precision Bending with Brake Motor on MR models
- Built according to EC Safety Directives (CE Mark)
- User Manual

### Optional

- \* Motorised back roll adjustment
- \* Digital readout for rear roll
- \* Induction hardened rolls
- \* Optional variable speed system
- \* Optional full closed sheet covers

Plate bending capacities are given for 24kg/mm<sup>2</sup> plate yielding strength.

### MAIN TECHNICAL SPECIFICATIONS

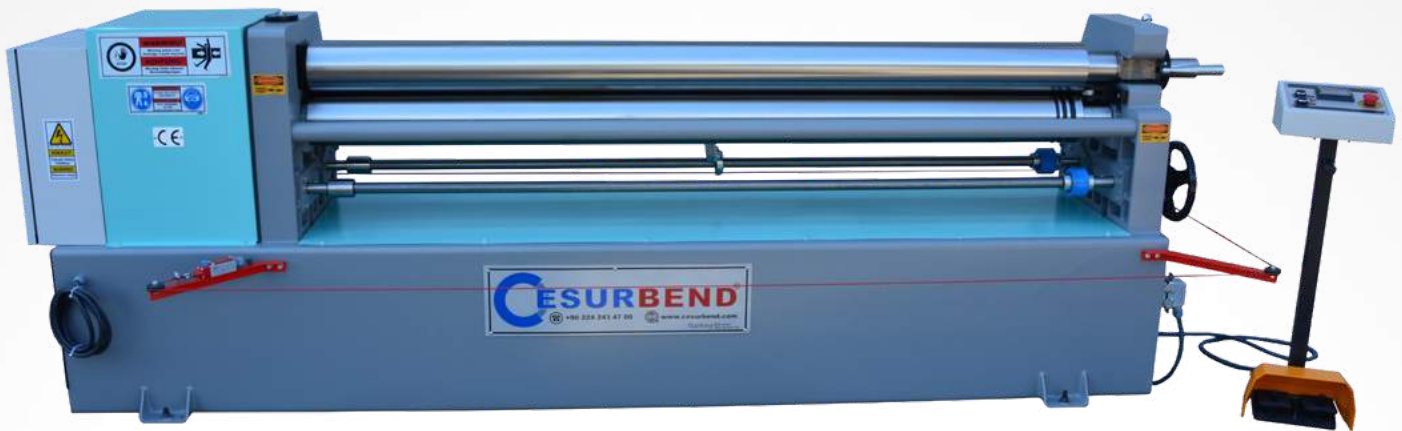
	MRM 1050x90	MRM 1270x90	MRM 1550x90	MRM 2050x95
Working Length (mm)	1050	1270	1550	2050
Bending Capacity (mm)	3,3	2,5	2,2	1,5
Rolls Diameters (Ømm)	90	90	90	95
Rolling Speed (m/min)	6	6	6	6
Motor Power (kW)	1,1	1,1	1,1	1,1
Width (mm)	850	850	850	850
Length (mm)	1750	1950	2250	3030
Height (mm)	1130	1130	1130	1130
Weight (kg)	500	570	600	635

	MRM 1050x70	MRM 1270x75	MRM 1550x70	MRM 2050x75
Working Length (mm)	1050	1270	1550	2050
Bending Capacity (mm)	1,5	1,5	1,0	1,0
Rolls Diameters (Ømm)	70	75	70	75
Rolling Speed (m/min)	6	6	6	6
Motor Power (kW)	1,1	1,1	1,1	1,1
Width (mm)	850	850	850	850
Length (mm)	1300	1550	2000	3030
Height (mm)	1100	1100	1100	1100
Weight (kg)	320	460	450	545

# MOTORISED 3 ROLLS BENDING MACHINES

## MRS SERIES



### Optional

- \* Motorised back roll adjustment
- \* Digital readout for rear roll
- \* Induction hardened rolls

- Two rolls powered by a single gearbox and gear system for top and bottom rolls
- SAE 1050 Quality Certificated Steel Rolls with high tensile strength
- Spheroid Cast Iron Main Frames
- Mobile Control Panel by foot pedal
- Conical bending device
- Manuel dropend / top roll support system
- Wire grooves at the end of the rolls
- Precision bending with brake motor
- Built according to EC safety directives (CE Mark)
- Model IRM 2550x140 produced standard with motorised back roll

Plate bending capacities are given for 24kg/mm<sup>2</sup> plate yielding strength.

### MAIN TECHNICAL SPECIFICATIONS

	MRS 1050x110	MRS1050x130	MRS 1270x110	MRS 1270x120	MRS 1270x140
Working Length (mm)	1050	1050	1270	1270	1270
Bending Capacity (mm)	5	5,5	3,5	4,5	5,5
Rolls Diameters (Ømm)	110	130	110	120	140
Motor Power (kW)	2,2	2,2	2,2	2,2	2,2
Width (mm)	850	850	850	900	850
Length (mm)	1820	1820	2020	2020	2320
Height (mm)	1150	1200	1150	1200	1150
Weight (kg)	1080	1220	1250	1365	1150

	MRS 1550x110	MRS 1550x130	MRS 2050x110	MRS 2050x130	MRS 2050x140
Working Length (mm)	1550	1550	2050	2050	2050
Bending Capacity (mm)	3,5	4,5	3	4	4,5
Rolls Diameters (Ømm)	110	130	110	130	140
Motor Power (kW)	2,2	2,2	2,2	2,2	2,2
Width (mm)	850	850	850	850	900
Length (mm)	2620	2320	2820	3300	3240
Height (mm)	1150	1200	1150	1200	1200
Weight (kg)	1250	1360	1350	1480	1530

# MOTORISED 3 ROLLS BENDING MACHINES

## MRS-S SERIES



- Two rolls powered by a single chain and belt driven Helical Type Gearbox and gear system
- Central lubrication system
- Steel Welded Main Frames
- Mechanical manual openable dropend / Motorised adjustment of back roll
- Mobile Control Panel / Conical Bending Device
- SAE 1050 (CK45) Quality certified steel rolls with high tensile strength
- Top roll support system
- Precision bending with brake motor
- Built according to EC safety directives (CE Mark)
- User's manual

### Optional

- \* Digital Read-Out for Rear (back) Roll
- \* Induction Hardened Rolls
- \* Extended Roll Shafts for Profile and pipe bending operation
- \* Profile and section bending rolls set
- \* Motorised bottom roll
- \* Plastic coated top roll for Alucobond bending

Plate bending capacities are given for 24kg/mm<sup>2</sup> plate yielding strength.

### MAIN TECHNICAL SPECIFICATIONS

	MRS-S 1050x130	MRS-S 1050x150	MRS-S 1550x170	MRS-S 1550x190	MRS-S 2050x130
Working Length (mm)	1550	1550	1550	1550	2050
Bending Capacity (mm)	6	7	8	9	4
Rolls Diameters (Ømm)	130	150	170	190	130
Min. Rolling Diameter	195	225	255	285	195
Motor Power (kW)	2,2	3	4	4	2,2
Back Roll Motor Power (kW)	1,1	1,1	1,1	1,5	1,1
Width (mm)	650	680	720	950	680
Length (mm)	3250	3250	3350	3700	3750
Height (mm)	1020	1040	1050	1300	1040
Weight (kg)	1400	1650	1850	2750	1550

	MRS-S 2050x150	MRS-S 2050x170	MRS-S 2050x190	MRS-S 2550x190	MRS-S 3050x190	MRS-S 3050x200
Working Length (mm)	250	250	2050	2550	3050	3050
Bending Capacity (mm)	5	6	7	6	4	5
Rolls Diameters (Ømm)	150	170	190	190	190	200
Min. Rolling Diameter	225	255	285	285	285	300
Motor Power (kW)	3	4	4	4	4	4
Back Roll Motor Power (kW)	1,1	1,1	1,5	1,5	1,5	1,5
Width (mm)	680	720	950	950	950	950
Length (mm)	3750	3850	4200	4700	5200	5200
Height (mm)	1040	1050	1300	1300	1300	1300
Weight (kg)	1885	2100	3100	3400	3750	4000



# SLIP ROLL WITHOUT STAND

## MS SERIES

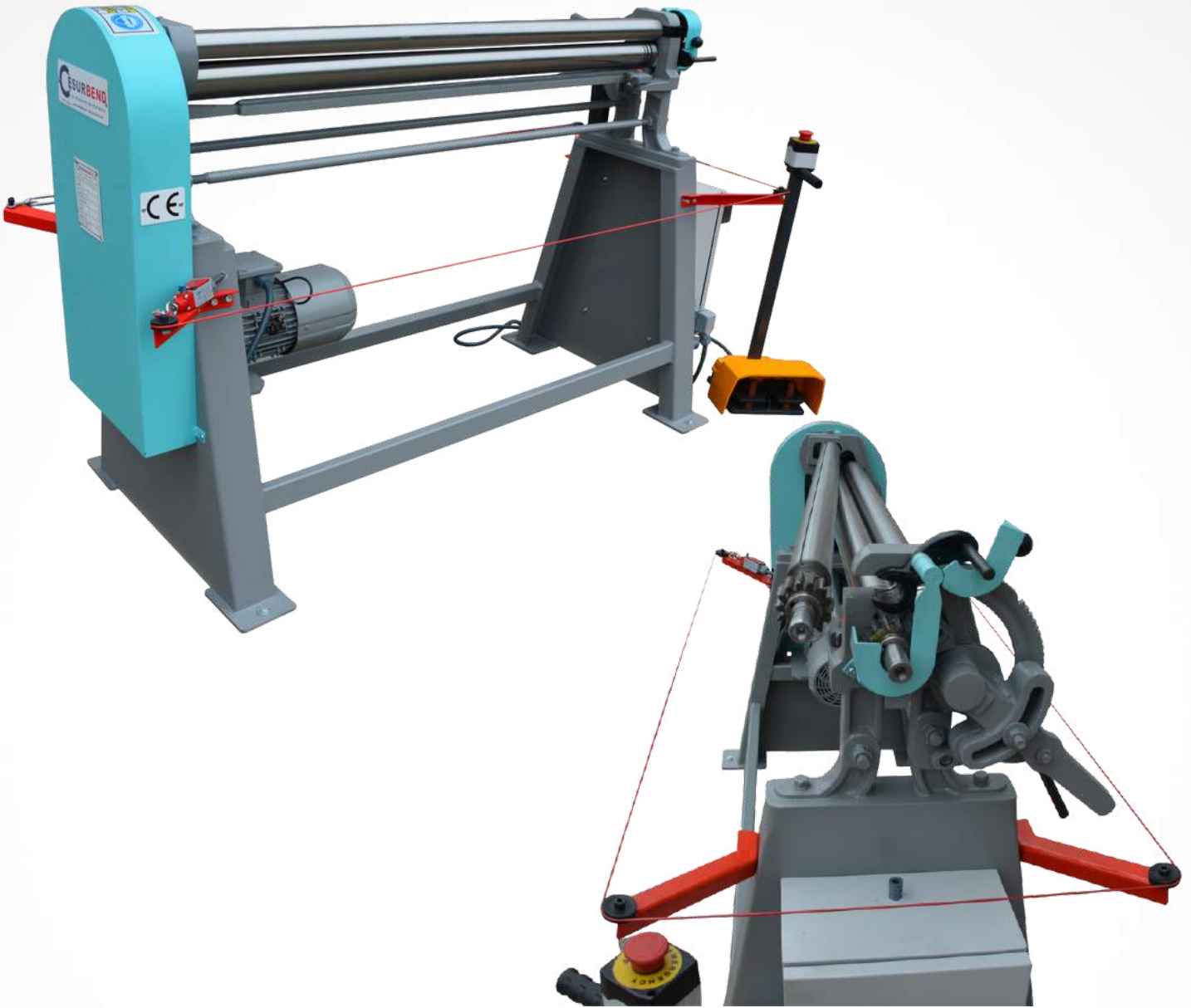


Plate bending capacities are given for 24kg/mm<sup>2</sup> plate yielding strength.

### MAIN TECHNICAL SPECIFICATIONS

	MS 670x46	MS 1550x46	MS 1270x46	MS 670x56	MS 1550x56	MS 1270x56
Working Length (mm)	600	1000	1250	600	1000	1250
Bending Capacity (mm)	1,0	0,8	0,6	1,2	1,0	0,8
Rolls Diameters (Ømm)	46	46	46	56	56	56
Wire Grooves (Ømm)	4/7/9	4/7/9	4/7/9	4/7/9	4/7/9	4/7/9
Width (mm)	500	500	500	500	500	500
Length (mm)	940	1300	1570	940	1300	1570
Height (mm)	500	500	500	500	500	500
Weight (kg)	90	120	150	110	150	180



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