FABRICATING MACHINERY
WELDING SOLUTIONS

BENDMAK

BENDING & DRILLING & WELDING SOLUTIONS

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BENDMAK

BENDING & DRILLING & WELDING SOLUTIONS

FABRICATING MACHINERY & WELDING SOLUTIONS

The most effective solutions to the steel fabricating industry

Bendmak was founded in Bursa, Turkey in 2010. Since the first day, Bendmak has made an impression on clients with its fast response capability and meticilious understanding of customer needs. Bendmak has earned trust in the market with its reliable solutions that exceed customer expectations.

Bendmak continuously develops technology and improves quality of service with an innovative mindset. Its advanced manufacturing capabilities also separate Bendmak from typical machinery manufacturers, which enables us to boost production efficiency, quality and speed.

Having certifications such as ISO:9001 which approve its international quality standards, and compliance with CE norms, Bendmak provides synchronized and unparalleled service from initial contact through delivery and to after-sales.

- **Plate and Angle Rolls:** 3 and 4 Roll Hydraulic Plate and Profile Rollers
- **Structural Steel and Plate Processing:** Single and Three Spindle Drill Lines, Plasma Cutting Tables, Plate Drilling Machines, Combined Oxy-Plasma & Drilling Machines, Punching Machines, Bandsaws
- **Dishing and Flanging Machines**
- **Welding Solutions:** Colum-Boom Welders, Tank Rotators and Welding Positioners, Rope and Chain Rotators, H-Profile Welding and Straightening Lines

B3DL 1200

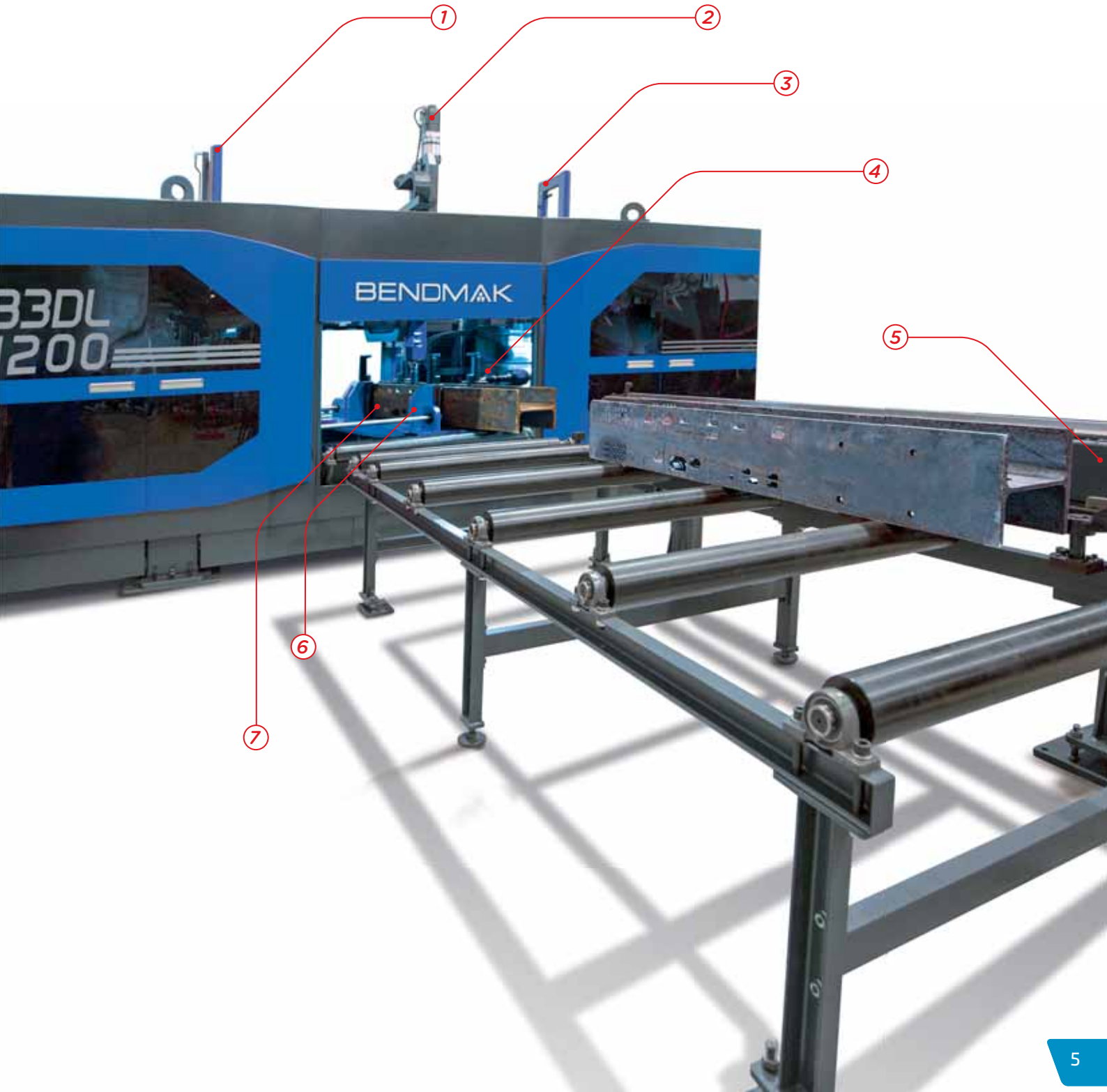
“The most effective equipments available to the structural steel industry”

B3DL has 3 independent spindle units which enables simultaneous processing on three sides of a profile. Equipped with sub-axes, the drill heads process materials without repositioning them. This feature results in significant time saving and reduction in operational costs.

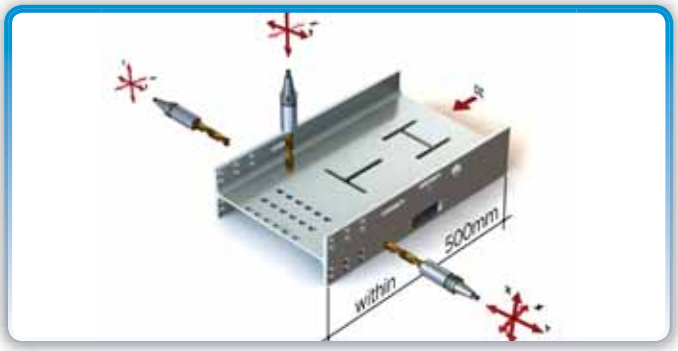
The B3DL, which has extensive functional capabilities such as drilling, thread tapping, milling, scribe marking and countersinking, processes structural steels with high precision.

10-AXIS THREE SPINDLE BEAM DRILL LINES

DRILLING MILLING TAPPING COUNTERSINKING SCRIBE MARKING BEAM CHANNEL TUBE ANGLE PLATE



B3DL 1200



1 - Sub-axis

- Eliminates material movement for precision and maximum speed.
- Spindle moves in horizontal plane up to 20” for maximum efficiency while the material is kept stationary.

2 - Spindle motors

- High torque spindle motors at 3000 rpm
- Poweful 30 HP spindle motors

3 - Feeding Arm

- Servo driven rack and pinion system ensures precise motions
- This system is not effected by scale, rust and weather conditions

4 - Axis motions

- Servo driven ball screws ensure precise axis motions
- Roller linear guides provide high rigidity and a loading capacity

5 - Scribe Marking

- Available on up to 4 surfaces
- High readability even after painting or blasting processes

6 - Automatic Tool Changer

- Three automatic tool changers, each with 4 stations
- Eliminates manual tool change reducing downtime.

7 - Robust Clamping

- Deflection and vibrations generated during processing are prevented
- Longer tool life and better drill quality

8 - Slot Making

- Slotting capability without moving materials within 20” in the length

B3DL ECO 1200

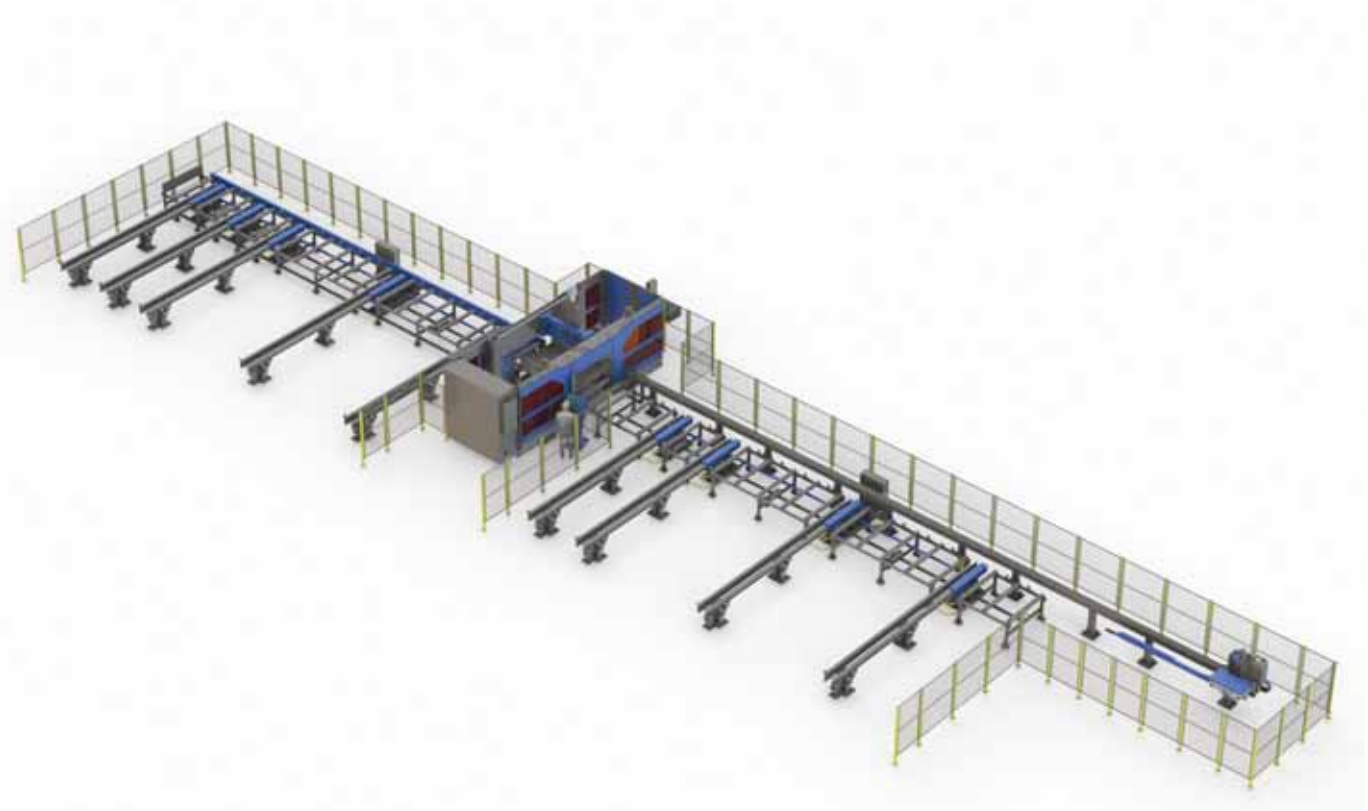
B3DL ECO is a budget-friendly drill line with 3 spindle for the fabricators with limited source but who also want to stay competitive. On the B3DL ECO model, material is repositioned after each horizontal drilling operation (z-axis).

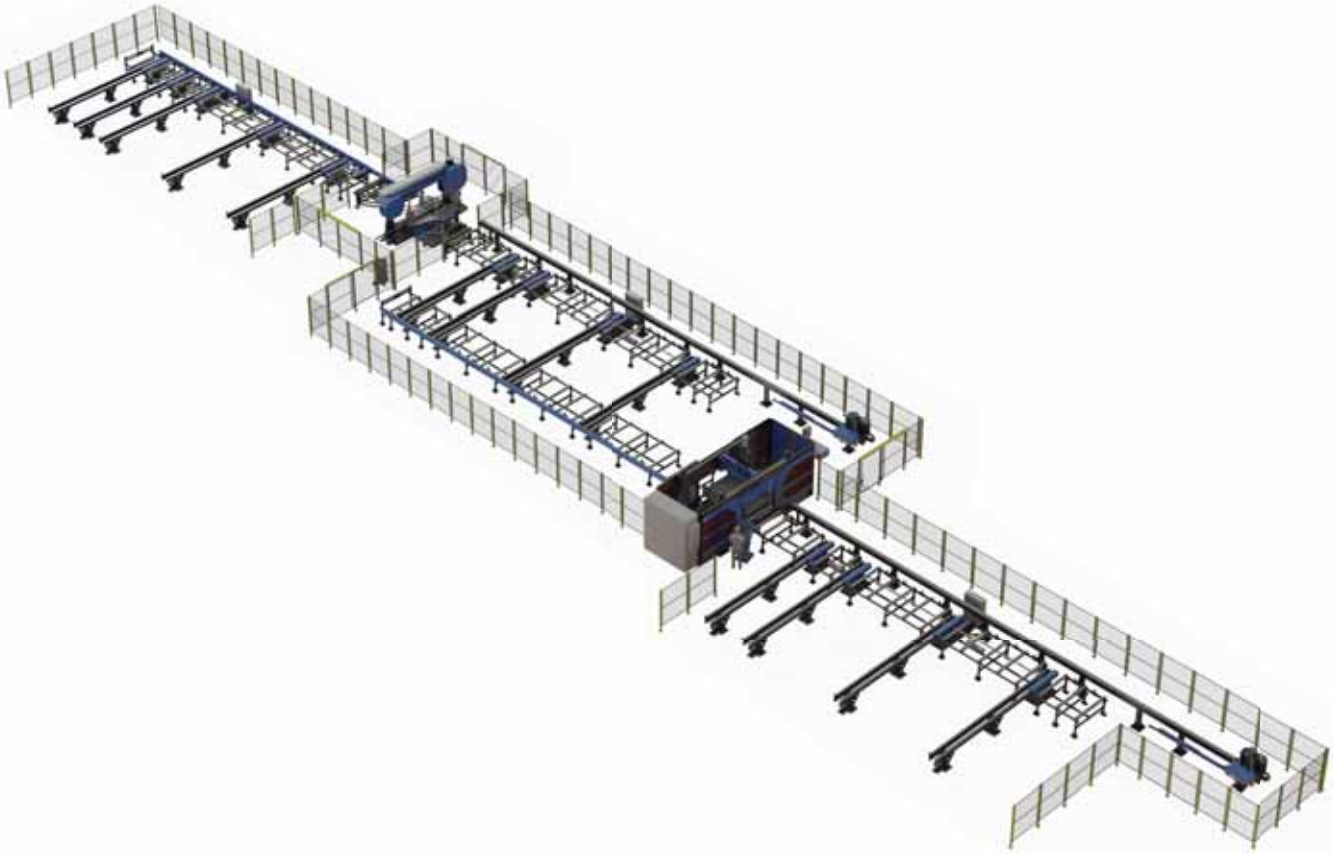
7-AXIS THREE SPINDLE BEAM DRILL LINE

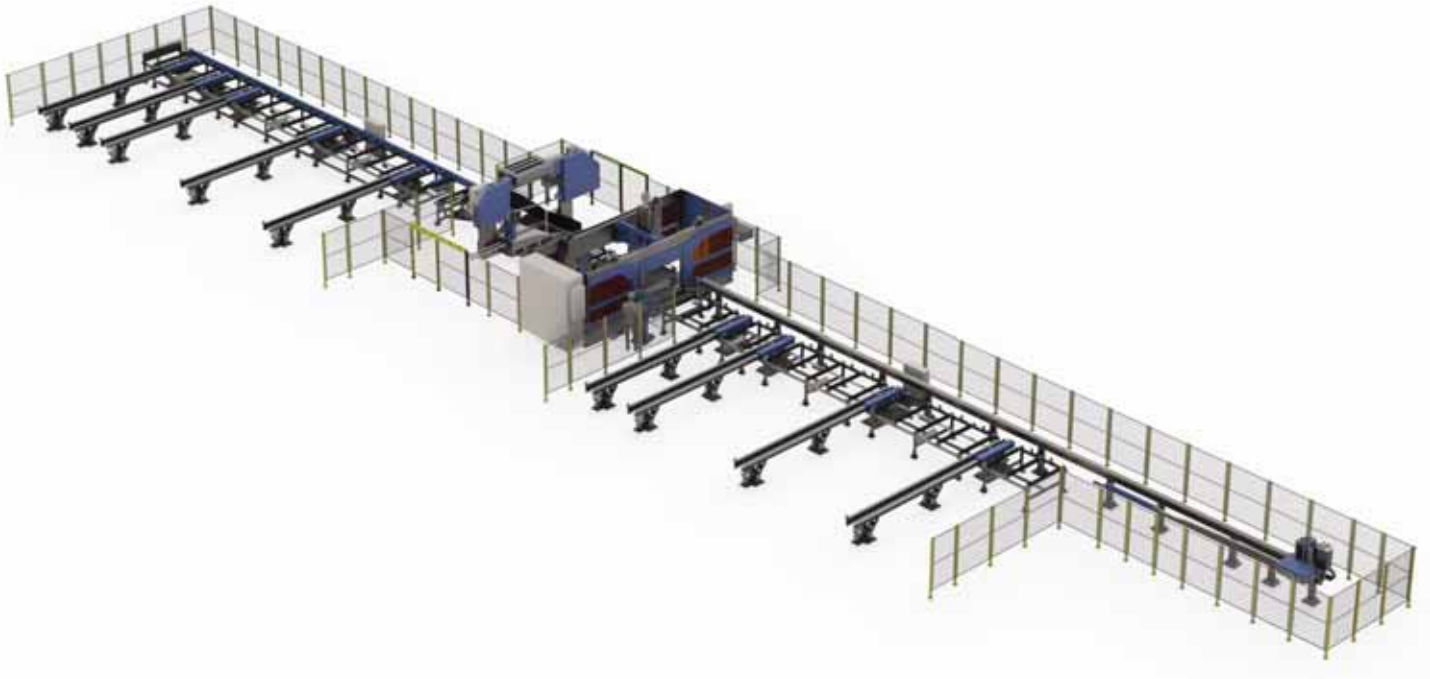
DL TECHNICAL INFORMATION	B3DL 1200	B3DL 1200 ECO
Control Panel	Mitsubishi/ Siemens	Mitsubishi/ Siemens
Number of Drilling Units - Vertical	1 Vertical	1 Vertical
Number of Drilling Units - Horizontal	2 Horizontal	2 Horizontal
Drilling diameter	3/8" - 1-1/2"	3/8" - 1-1/2"
Spindle Speed	50-3000 rpm	50-3000 rpm
Spindle Motor Power	30 HP / 103 lbf.ft	30 HP / 103 lbf.ft
Spindle torque	206 lbf.f t	206 lbf.ft
Automatic Tool Changing Unit	For each spindle one ATC with 4 tools	For each spindle one ATC with 4 tools
Tool Cooling System	MQL	
Tapping Tool for each drilling axes (Optional)	M10 - M24 (with special set)	M10 - M24 (with special set)
Beam width	48"	48"
Beam Height	20"	20"
Tool Holder	BT 40 (internal coolant hole)	BT 40 (internal coolant hole)
Weight	28.660 lbs	24.250 lbs
Machine Dimensions	7,9' x 23,0' x 10,5'	7,6' x 17,7' x 10,0'
Scribe Marking	3 Side Standard, 4th is Optional	On one side

BANDSAW INTEGRATION and LAYOUT DESIGN

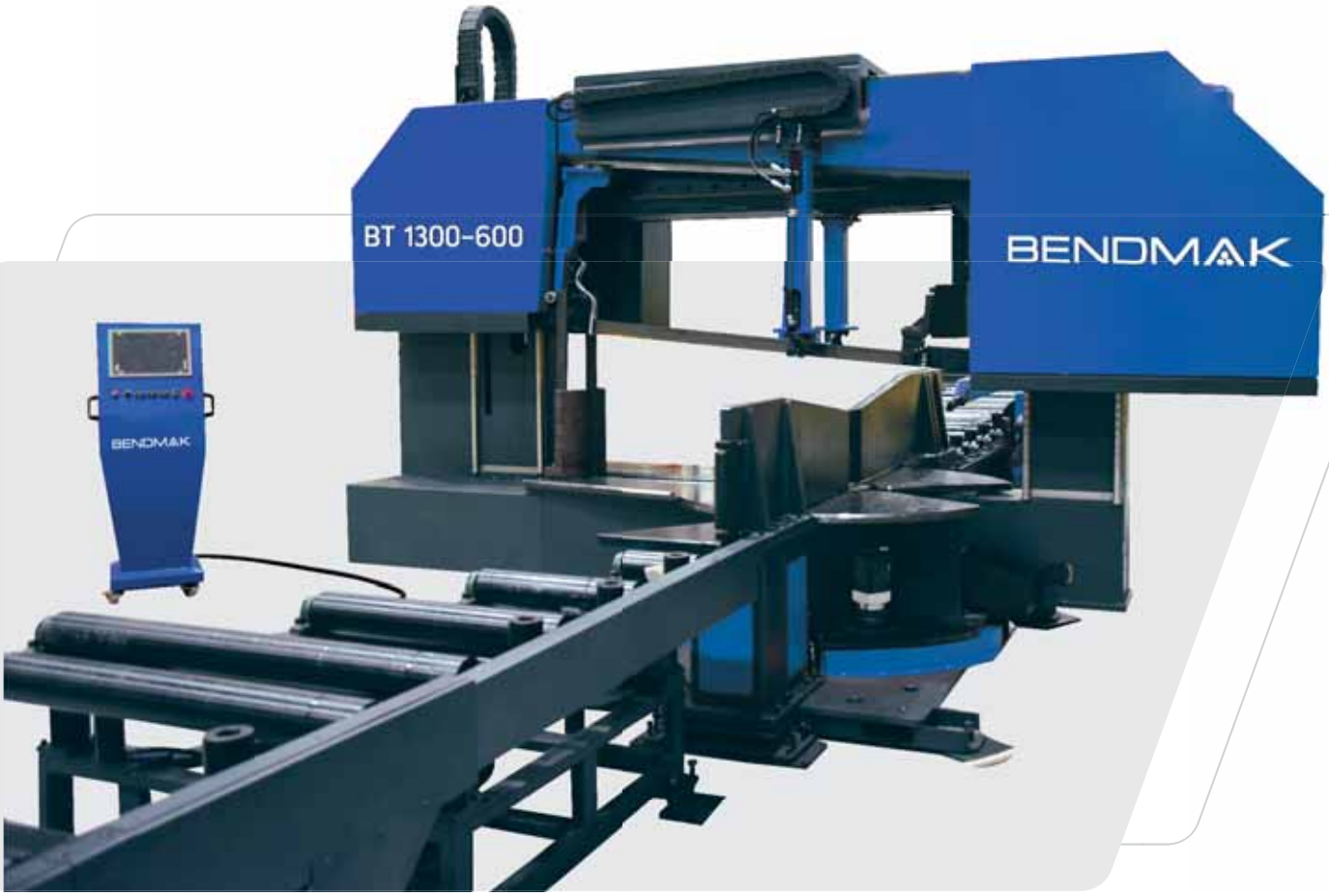
Bendmak offers bandsaw integration with various line configurations. The bandsaws can work in tandem or can be set up as separate lines. Thanks to synchronized processes and modular units, manual operations are eliminated and production continuity is ensured.



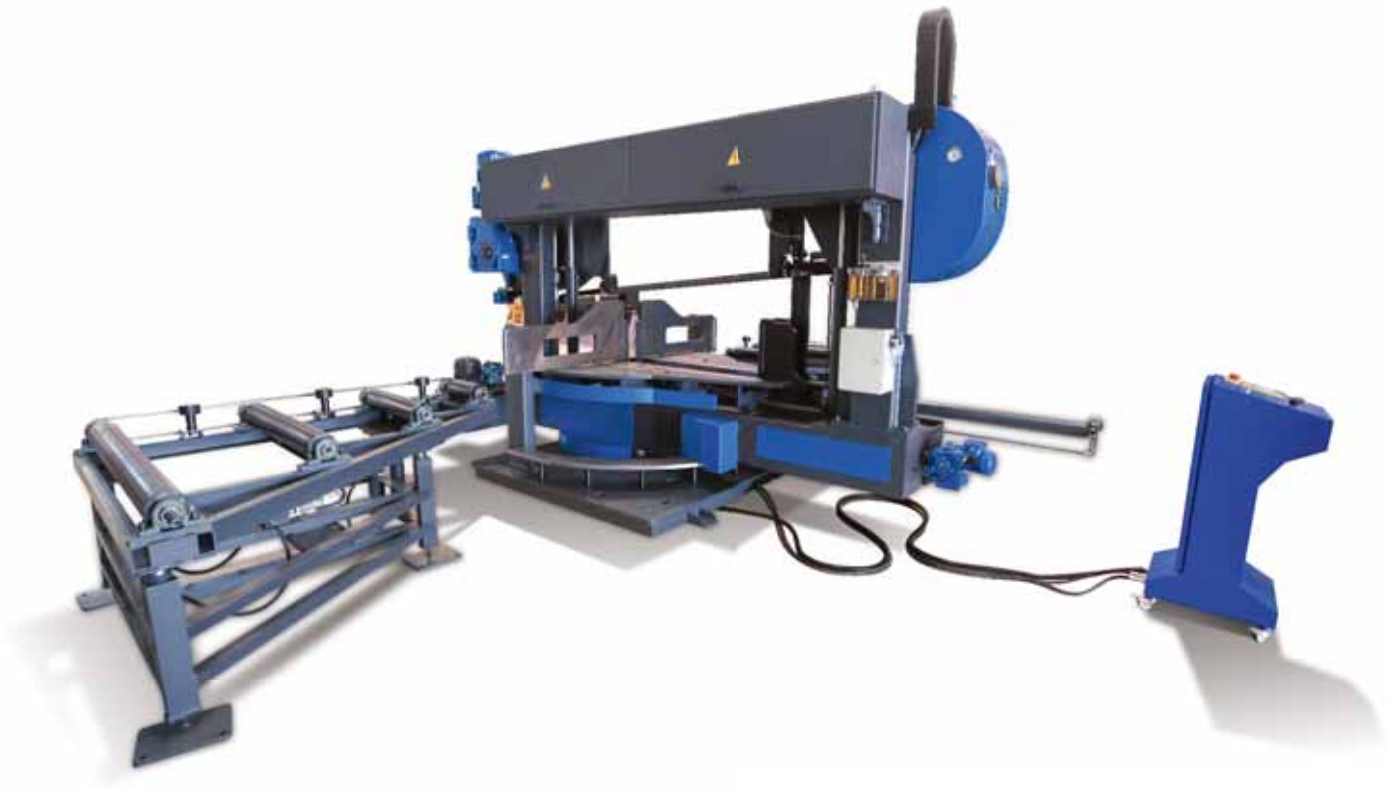




BT 1300-600
BANDSAW



BT TECHNICAL INFORMATION		BT 1200-500	BT 1300-600
Main Saw Motor	HP	15	20
Mitering Servo Motor	HP	2,0	2,0
Chip Brush Motor	HP	0,16	0,16
Hydraulic Pump Motor	HP	7,4	7,4
Blade length	feet	29,56	32,8
Recommended Blade Type	Lenox	ARMOR Rx(EHS)2/3 54x1,60	RX+(EHS) 3/4 67x1.60
Cutting Speed	ft/min	65-328	65-328
Length x Width x Height	feet	15,6x7,7x8,2	16,6x7,7x8,9
Working Height	inch	31,5	31,5
Weight	lbs	14,770	17,637
Mitering angle	°	+60/-45	+60°/-60°
Sawing Capacity Max (WxH)	inch	48x20	51,5x24
Sawing Capacity Min. (WxH)	inch	2,56x1,77	2,56x1,77



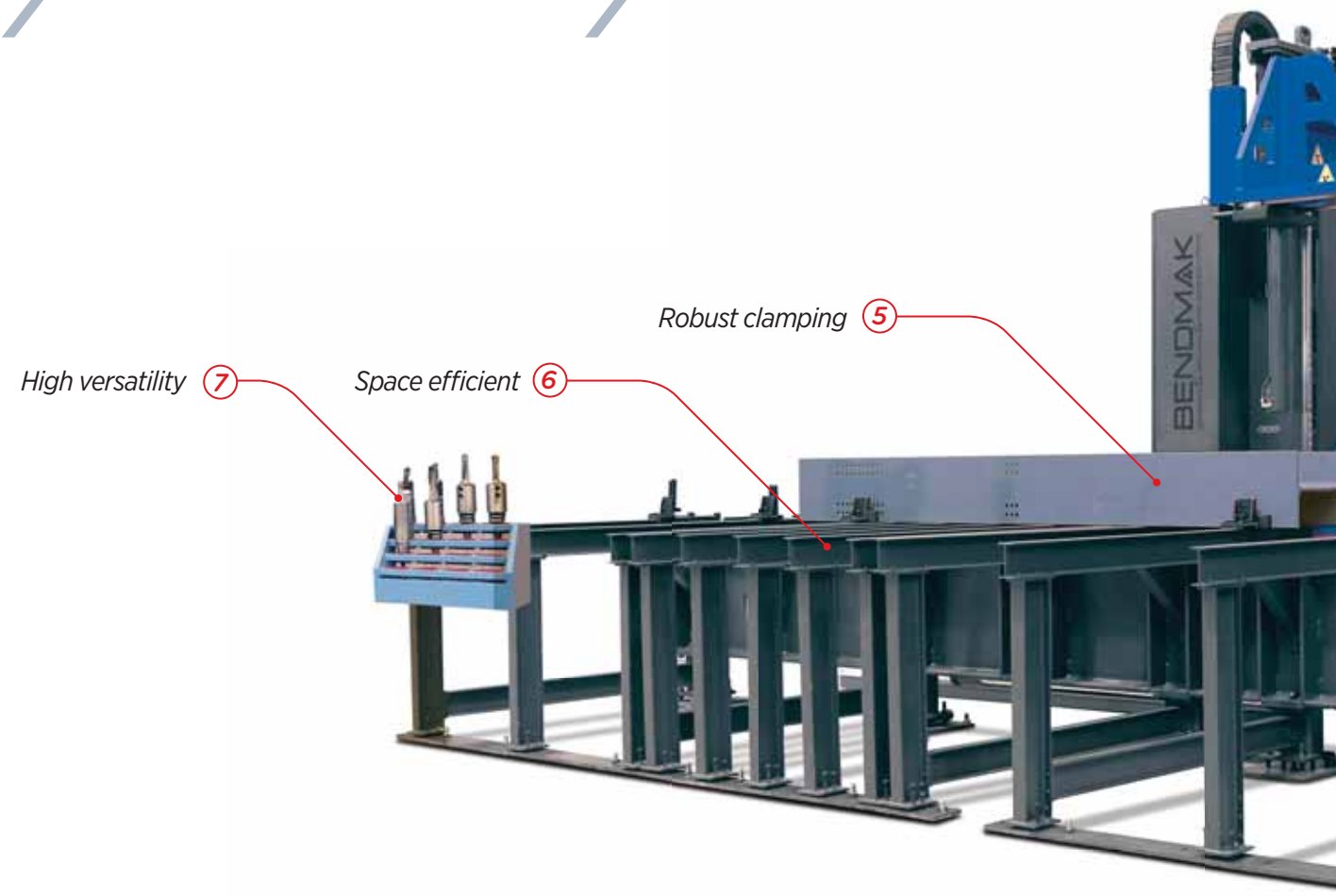
*The workpiece in the bandsaw is lifted up by 0.4" by hydraulic platforms placed at the entrance and exit of the saw for easy and fast turning of the saw body.

CAPACITY TABLE				BT 1200x500	BT 1300x600
Cutting Capacity 0°		Square	inch	20	24
		Flat	inch	48x20	51,5x24
Cutting Capacity ±45°		Square	inch	20	24
		Flat	inch	31,5x20	33,4x24
Cutting Capacity ±60°		Square	inch	20	24
		Flat	inch	20x20 (only+60°)	21,2x24
Cutting Capacity ±15°		Square	inch	20	24
		Flat	inch	43,2x20	49x24
Cutting Capacity ±30°		Square	inch	20	24
		Flat	inch	40x20	41,3x24

- Angular cutting position is adjusted by servo-motor.
- Adjustable cutting speed based on materials.

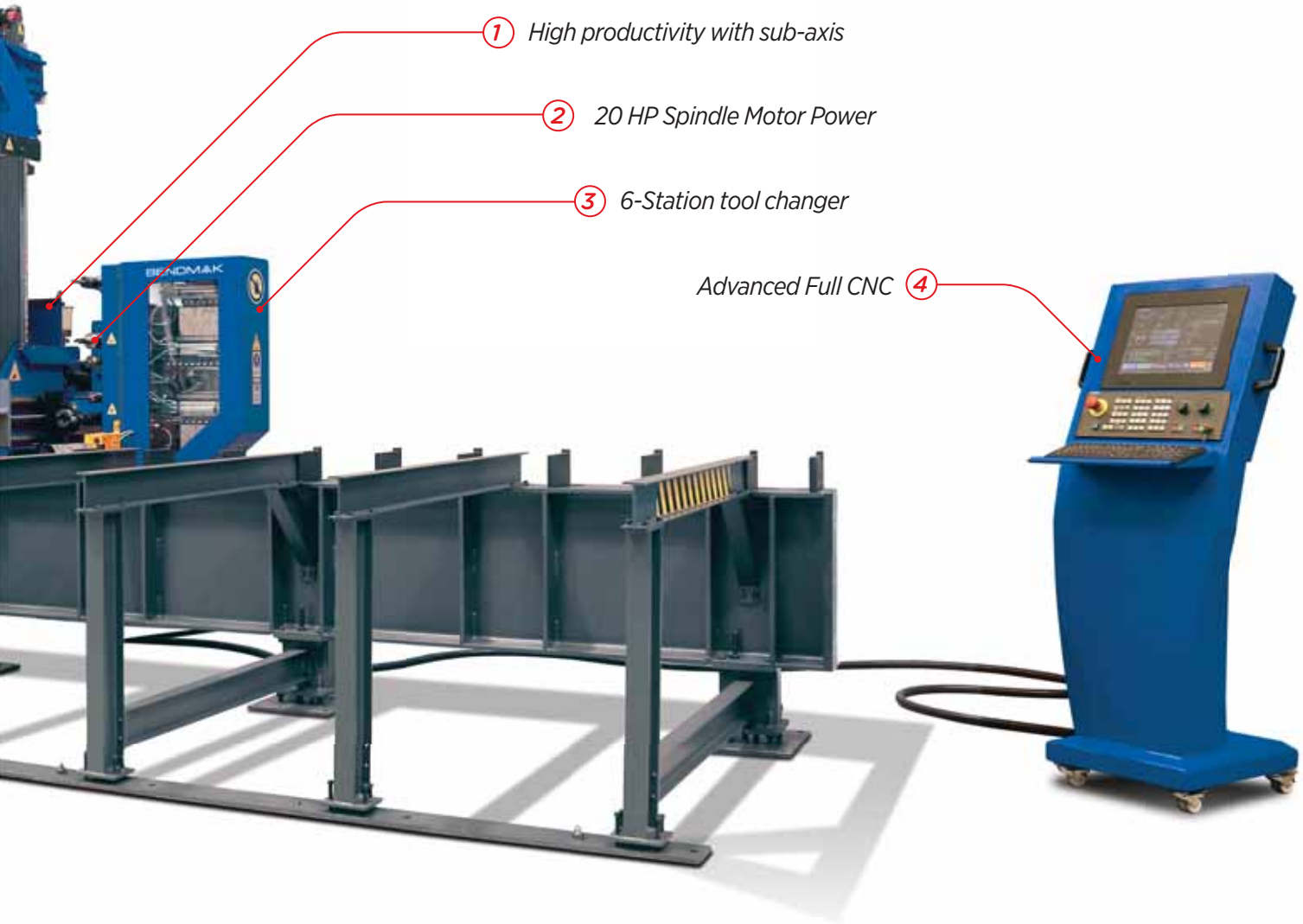
- Automatic feeding according to section geometry.
- Cutting speed=Band speed

1ADL 1200



1ADL 1200 TECHNICAL INFORMATION

Controller	Siemens	
Working length	feet	20-33-46-59-72-85
Profile height	inch	2-47
Profile width	inch	2-47
Support table height	inch	39,4
Length	feet	Working length + 11,8 feet
Height	inch	124
Width	inch	118
Weight	lbs	Length Dependent
Maximum tool length	inch	12,6
Drilling capacity	inch	3/8 - 1- 1/4
RPM	rpm	10 - 3.000
Spindle Motor Power	HP	20
Total Power	HP	60
ATC station	nos.	6

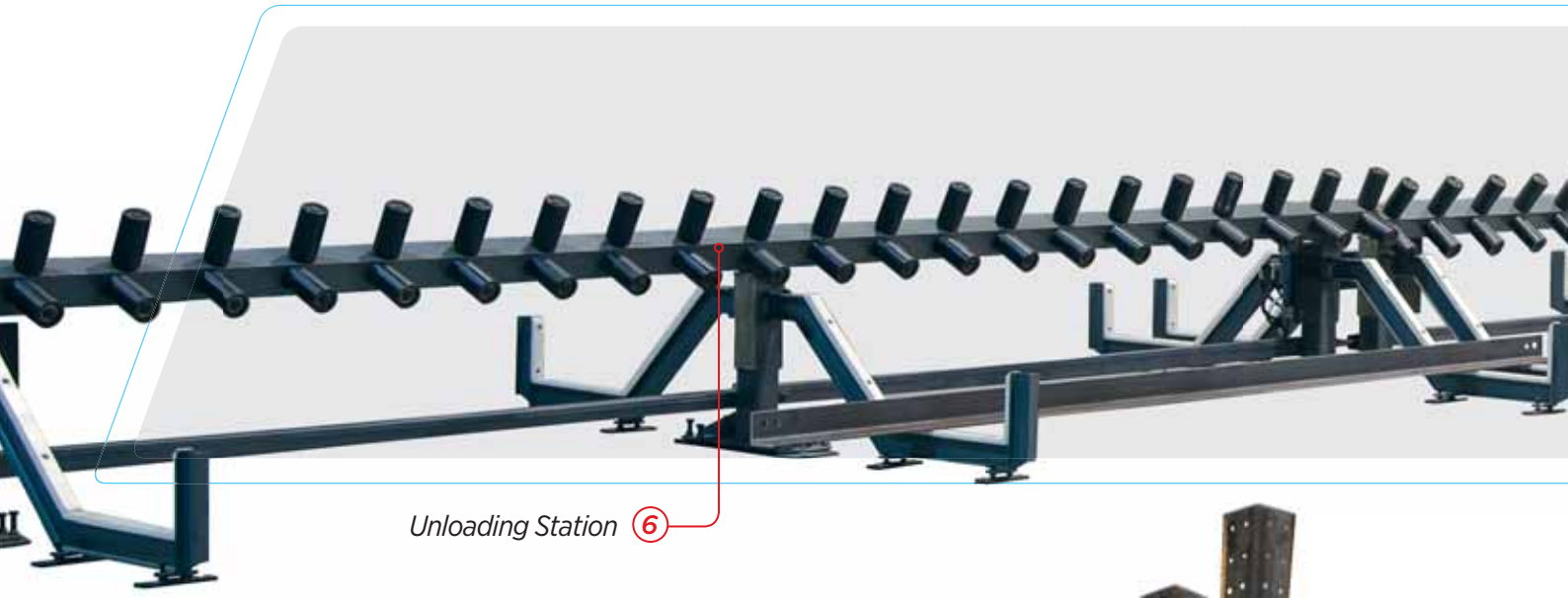


Ideal for small and medium-sized fabricators

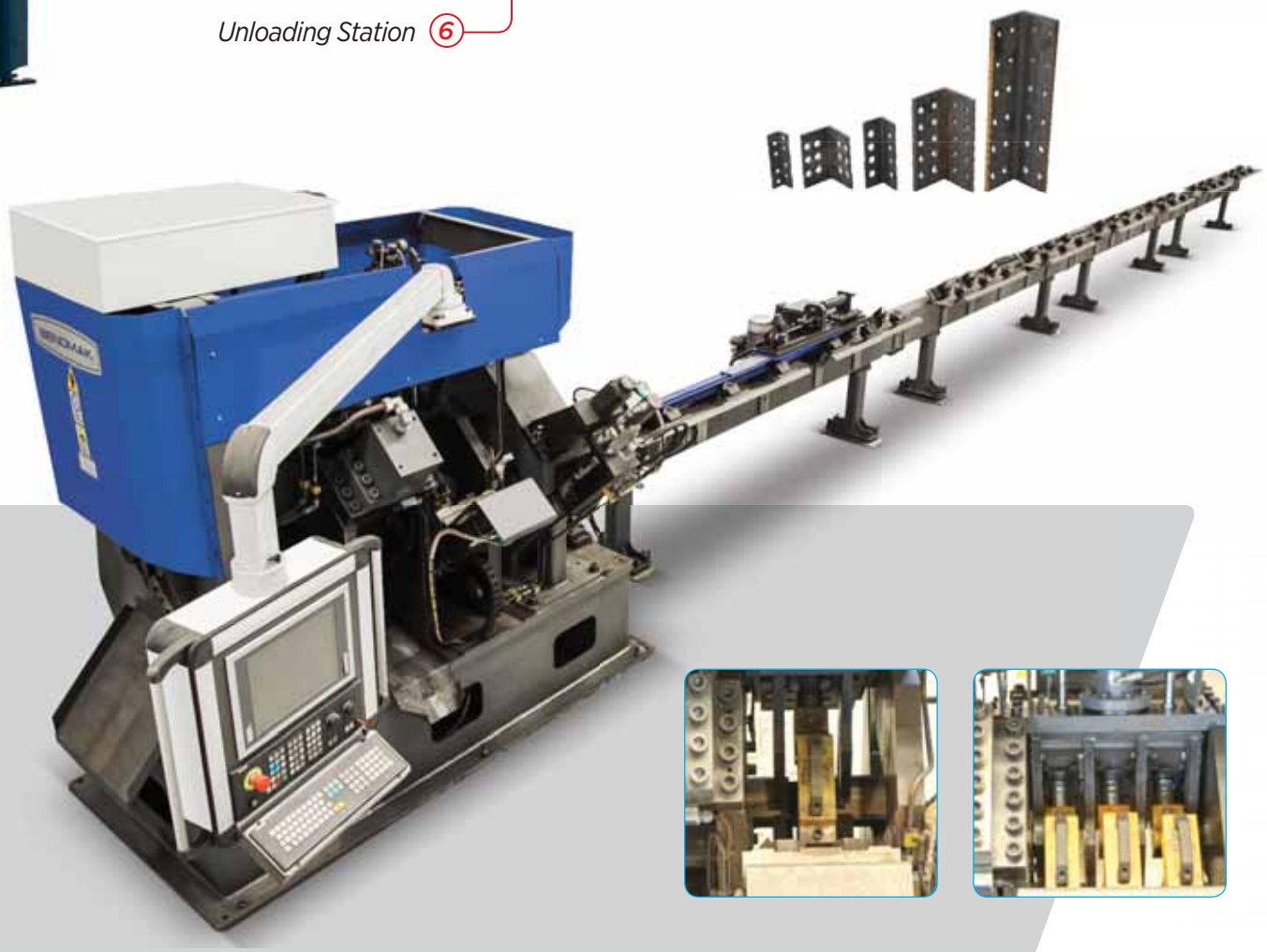
Maximized space efficiency and faster processing with ease.

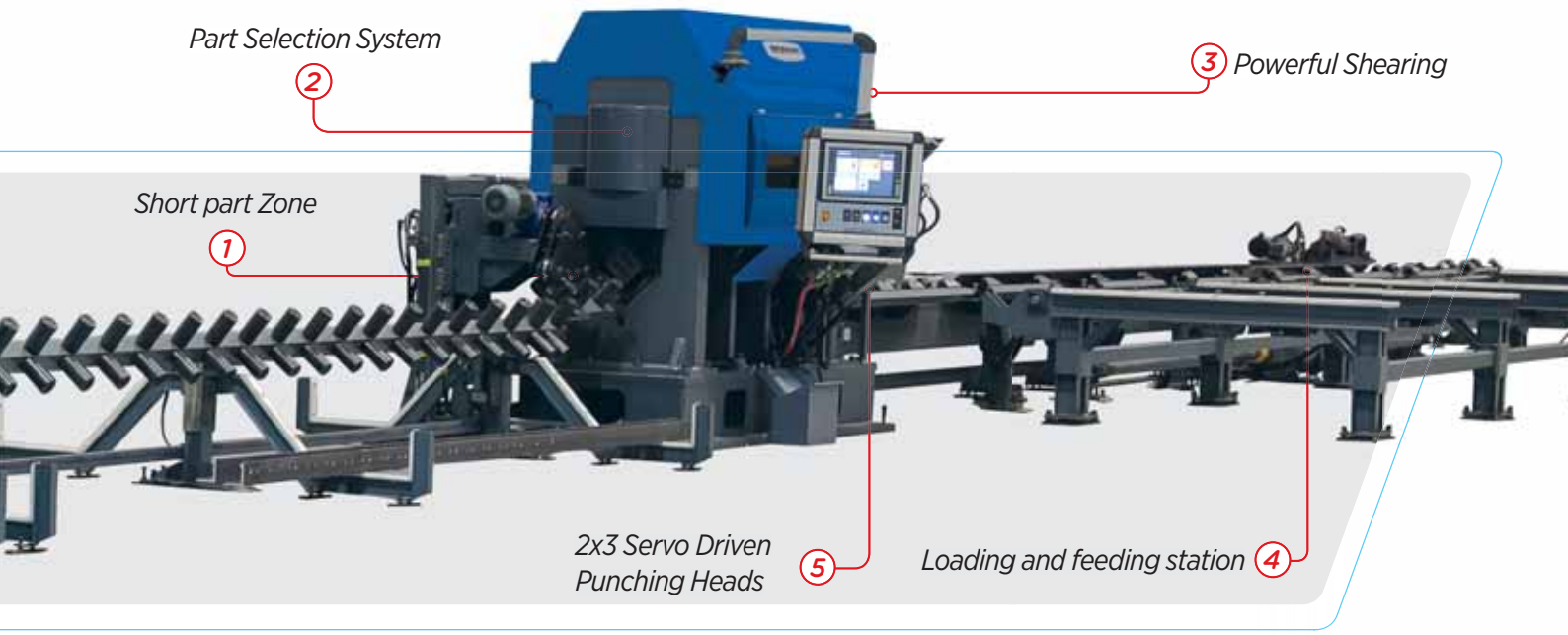
BEAP

BEAP Angle Punching, Shearing & Marking Line will save your time...



Unloading Station 6





Feeding arm

Controller unit

Marking Station

BEAP TECHNICAL INFORMATION

Punching Capacity : Angle Steel min: 1-1/2” x 1-1/2” x 3/16” max. 6-5/16” x 6-5/16” x 11/16”
2 x Triple C-Frame Punching Unit
2 punch stations with 90 tons hydraulic cylinder each holds 3 quick punches
Max.hydraulic operating pressure is 3626 psi
Max.diameter : 1-1/4”
Max.thickness : 13/16”
Marking Systems : 1) Marking Cartridge 8 cassettes / 8 character
Shearing Capacity : Angle Steel min: 1-1/2” x 1-1/2” x 3/16” max. 6-5/16” x 6-5/16” x 11/16”

BPP 80

OPTIONAL FEATURES

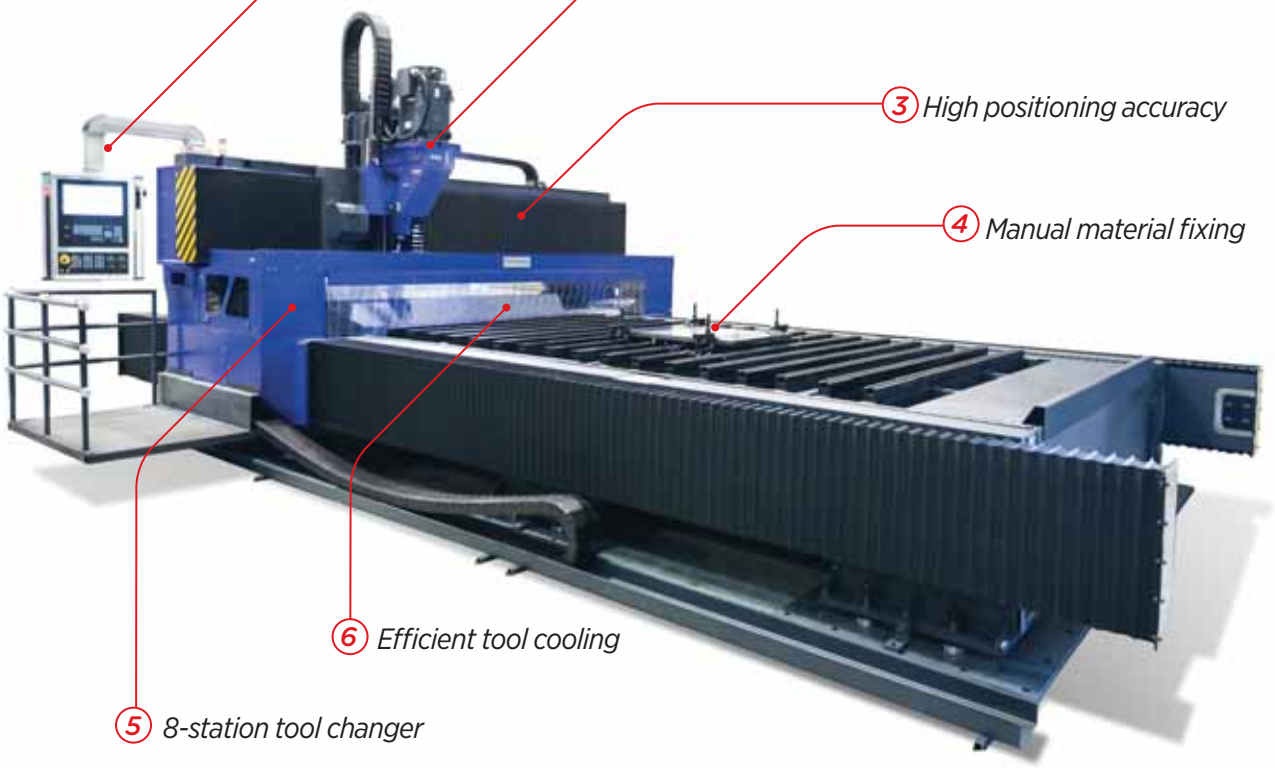
- Marking (when this feature is requested, the number of punching head is two)
- Maximum 8 characters can be marked as group. Character size is 5/8”x5/16”. For marking with more characters, it is required to move the plate and place suitable characters.

BPP 80 TECHNICAL INFORMATION

Model	Maximum Punch Capacity (ton-force Short)	Material Thickness with Standard Tools		Max. Punching Diameter (inch)	Punching max. thickness with shear strength 58.000 PSI dia. Max. Through (inch)	Maximum plate size with programmed repositioning (inch)	X and Y axes positioning stroke (inch)	Positioning speed through X Axes (ft/min)	Positioning speed through Y Axes (ft/min)	Maximum plate weight at a standard positioning speed (lbs)	Punches	(Optional) Marking Features	1 Marking and 2 Punches featured set	Characters per marking group	Size of characters (inch)	Table Dimensions (inch)
		min	max													
BPP 80	88	11 ga.	1"	Ø1-13/16	Ø1-1/4x13/16	20	40x20	65	65	220	3		1	8	5/8x5/16	Customer Spesific

Bendmak reserves the right to change all above specifications without prior notice.

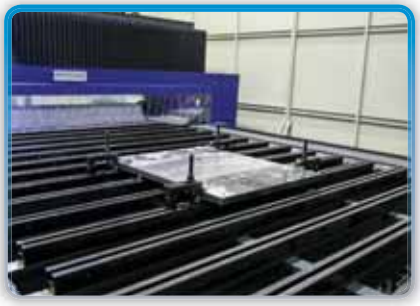
BEP



1 3-axis CNC

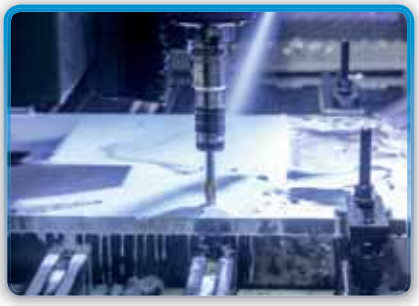
2 Versatile operations

3 High positioning accuracy



4 Manual material fixing

5 8-station tool changer



6 Efficient tool cooling

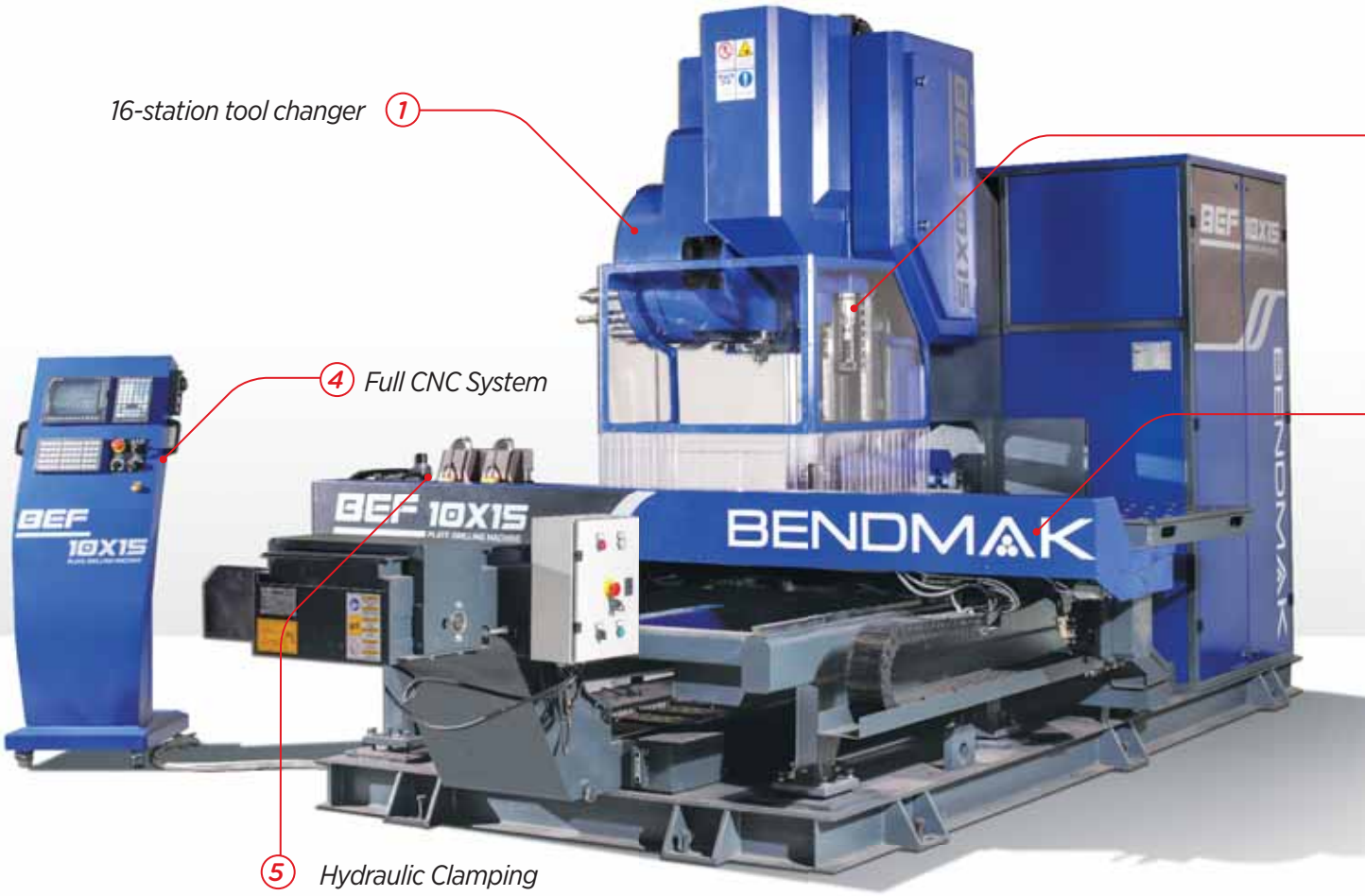
HEAVY-DUTY PLATE DRILLING MACHINES

BEP 2000X4000 TECHNICAL INFORMATION

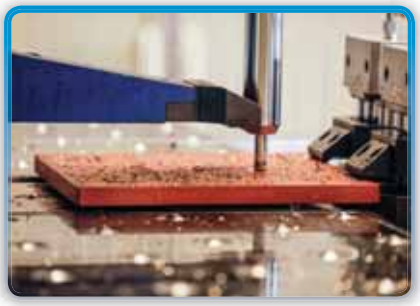
Control panel	SIEMENS
Number of Drilling Units	1 vertical
Drilling diameter Ø	19/32" – 19/16" (tool with replaceable carbide head. 19/16''- 3" with U-tool)
Spindle Speed	10 - 1650 rpm
Spindle Power	40 HP / 140 lbf.ft
Spindle Torque	282 lbf.ft / 750 rpm
Max. travelling speed under no-load condition (forward – backWard)	33 ft/min
Motion Transmission System	Rack and pinion, preloaded ball screws
Automatic tool changing unit (ATC)	1 UNIT - 8 TOOLS
Central lubrication system	Standard
Cooling system	External tool cooling (for HSS-drills) Internal tool cooling (for carbide drills) BT40 hydraulic tool holder
Thread tapping	7/16" – 1-1/4"
Material width	6,5'x13,1' (Other dimensions are optional)
Material height	3/8" to 4"
Tool Holder	BT40, (suitable for ATC system)
Work piece	Fixed
Work piece weight (max)	14.330 lbs
Chip Conveyor	Standard
Machine dimensions	19,7x29,5x10,1'
Weight	60,000 lbs

The specifications above are for the BEP 2000X4000 model. Custom machine sizes and specifications are available upon request.

BEF



1 16-station tool changer



2 Powerful 30 HP Drill Head

3 High positioning accuracy with speed

4 Full CNC System

5 Hydraulic Clamping

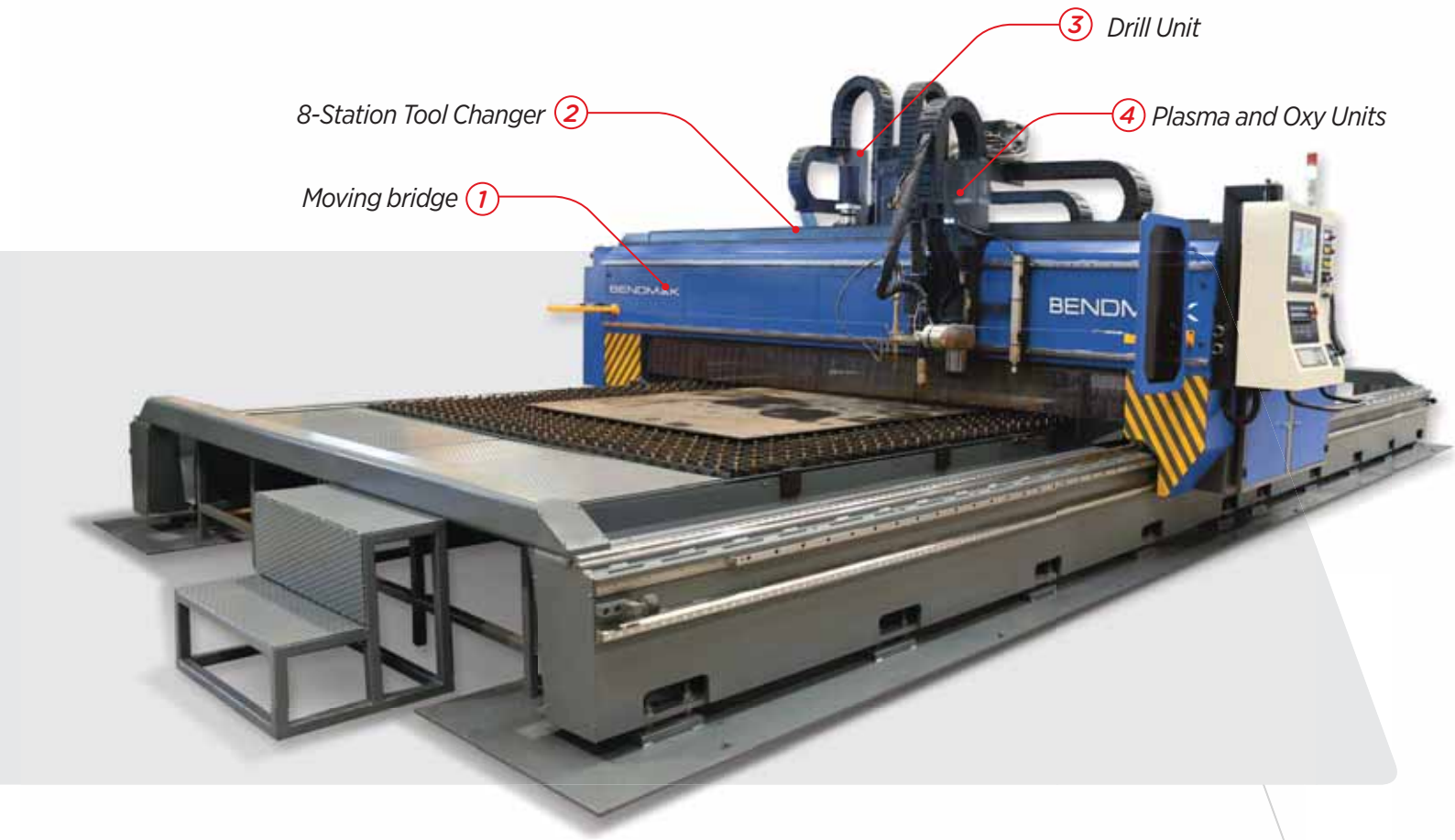
PLATE DRILLING MACHINES

2 *Powerful 30 HP Drill Head*

3 *High positioning accuracy with speed*

BEF TECHNICAL INFORMATION	BEF 10	BEF 07
Control panel	Mitsubishi M70 V	Mitsubishi M70 V
Number of Drilling Units	1 Vertical	1 Vertical
Speed Range	10-3000 rpm	10-3000 rpm
Tool Holder	BT 40	BT 40
Motor Power	30 HP / 103 lbf.ft	30 HP / 103 lbf.ft
Spindel Torque	206 lbf.ft	206 lbf.ft
Plate Dimensions Min. (inch)	4x4x1/4	8x8x1/4
Plate Dimensions Max. (inch) *The dimensions are based on maximum material weight that can be positioned	40x59x2-1/2 40x47x3-1/8 31-5/16x59x3-1/8	27,6x49,2x1-9/16
Plate Thickness min/max (inch)	1/4 - 3-1/8	1/4 - 3-1/8
Maximum material weight that can be positioned (lbs)	1650	1100
Max. Drilling Capacity (inch)	1-9/16	1-9/16
Tapping min./max.	3/8" - 1"	3/8" - 1"
Axis X Speed	65 ft/min	65 ft/min
Axis Y Speed	65 ft/min	65 ft/min
Axis Z Speed	49 ft/min	49 ft/min
Automatic Tool Changing (ATC)	16 Units	16 Units
Machine Weight (lbs)	~16.000	~14.330
Area Covered by the Machine (feet)	~21,3x16,4x8,4	~19x15,8x8,9

BPM-D
GANTRY



BPM-D GANTRY TECHNICAL INFORMATION

Plate thickness with plasma*	max. mm	2.0”
Plasma torches	No.	1
Plate thickness with Oxy	max. mm	4.0”
Drilling head	No.	1
Drilling tools per head	No.	8
Spindle power	HP	30
Spindle speed	RPM	3000

*The capacity with plasma varies based on plasma unit chosen.

COMBINED DRILLING OXY-FUEL / PLASMA CUTTING MACHINES

1 *Moving bridge*

2 *8-Station Tool Changer*

3 *Drill Unit*

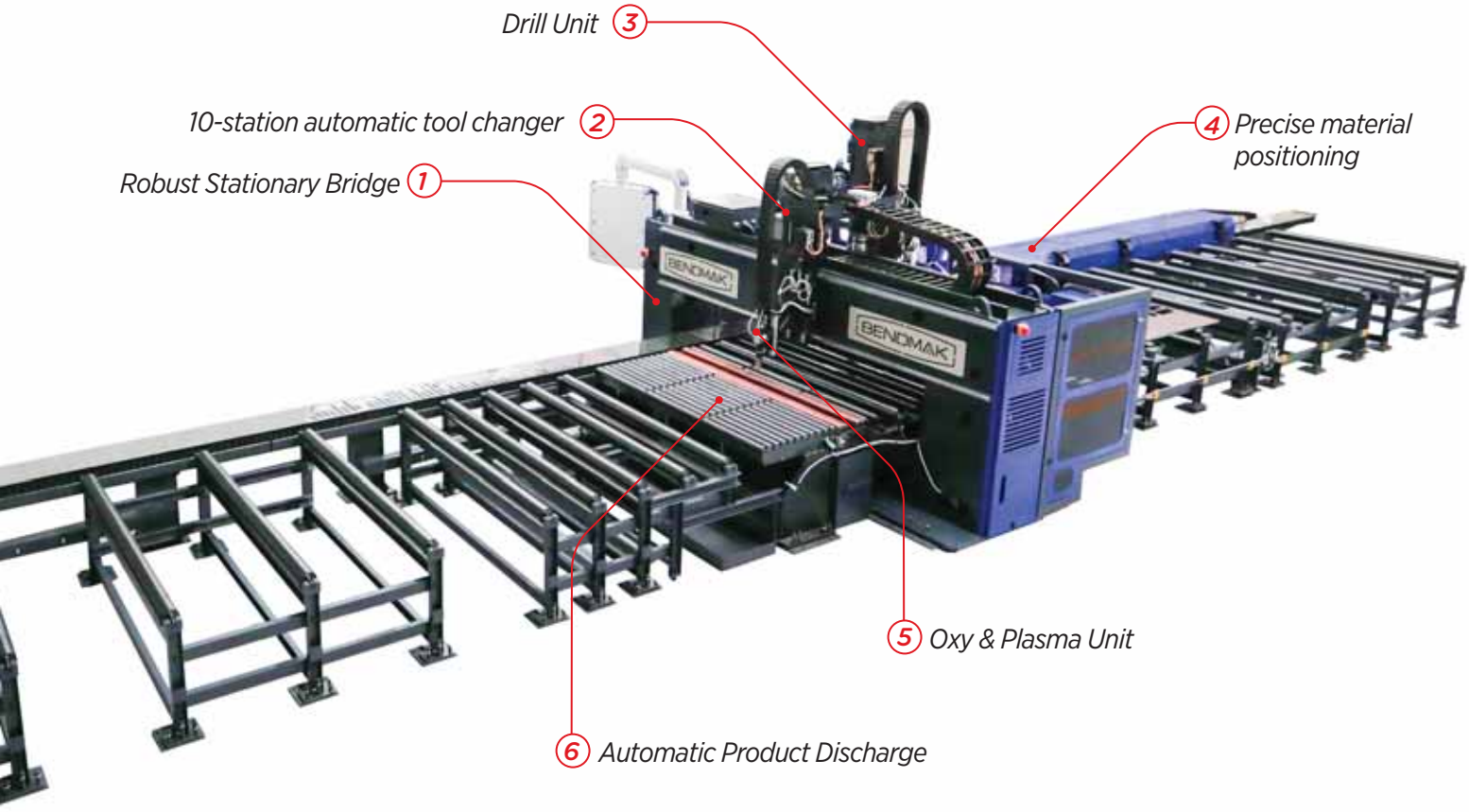
4 *Plasma and Oxy Units*

BECOP

1 *Robust Stationary Bridge*

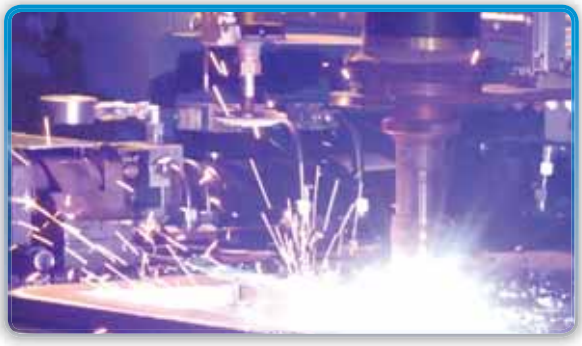
2 *10-station automatic tool changer*

COMBINED DRILLING & OXY-FUEL PLASMA CUTTING MACHINES



3 Drill Unit

4 Precise material positioning



5 Oxy & Plasma Unit

6 Automatic Product Discharge

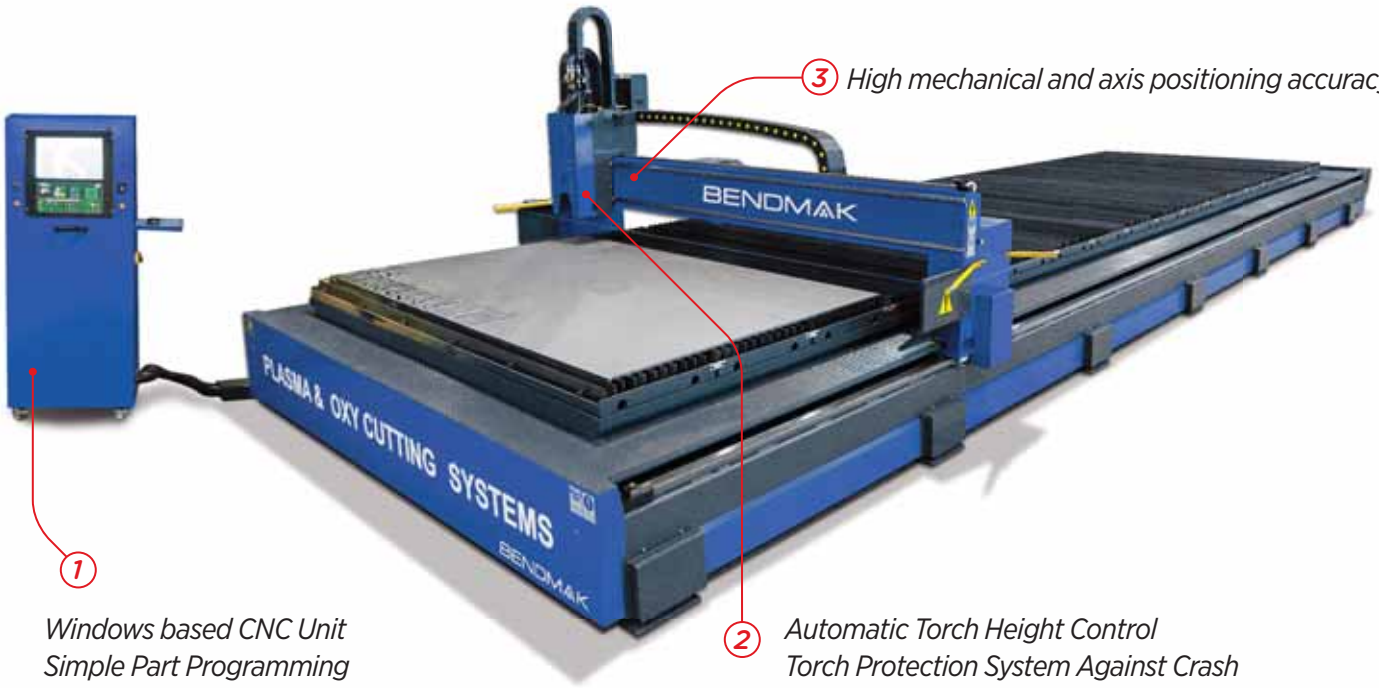
BECOP

BECOP TECHNICAL INFORMATION

Controller	CNC (Mitsubishi or Siemens)
Axis Drive	Servomotor
Spindle Motor Power	30 HP / 103 lbf.ft
Spindle Motor Torque	206 lbf.ft
Drilling capacity	3/8" - 1-9/16"
Thread tapping capacity	15/32" - 1"
Inner cooling carbide drill	Yes
Tool inner cooling	MQL is Standard. Boron-water mixed as optional.(carbide tip drills)
Motion Bearings of Spindle and Cutting Units (Horizontal/Vertical)	Preloaded linear units
Motion Transmission System	Preloaded ball screws / nut system
Scribe Marking	Yes
Automatic tool changing (ATC) unit	Yes
ATC Capacity	10 Tools
Plate positioning weight	16.500 lbs
Plasma cutting capacity	max. 2-1/2" (1-1/4" piercing)
Oxy cutting capacity	max. 4"
Oxy and plasma slag and powder collection plate	Yes
Oxy and plasma dust filtration unit	Yes
Swarf collection plate (wheeled)	Yes
Plate feeding system	Servomotor + Gearbox / Rack-and-Pinion
Plate blockage	Hydraulic remote controlled clamping

BPM

PLASMA CUTTING MACHINES

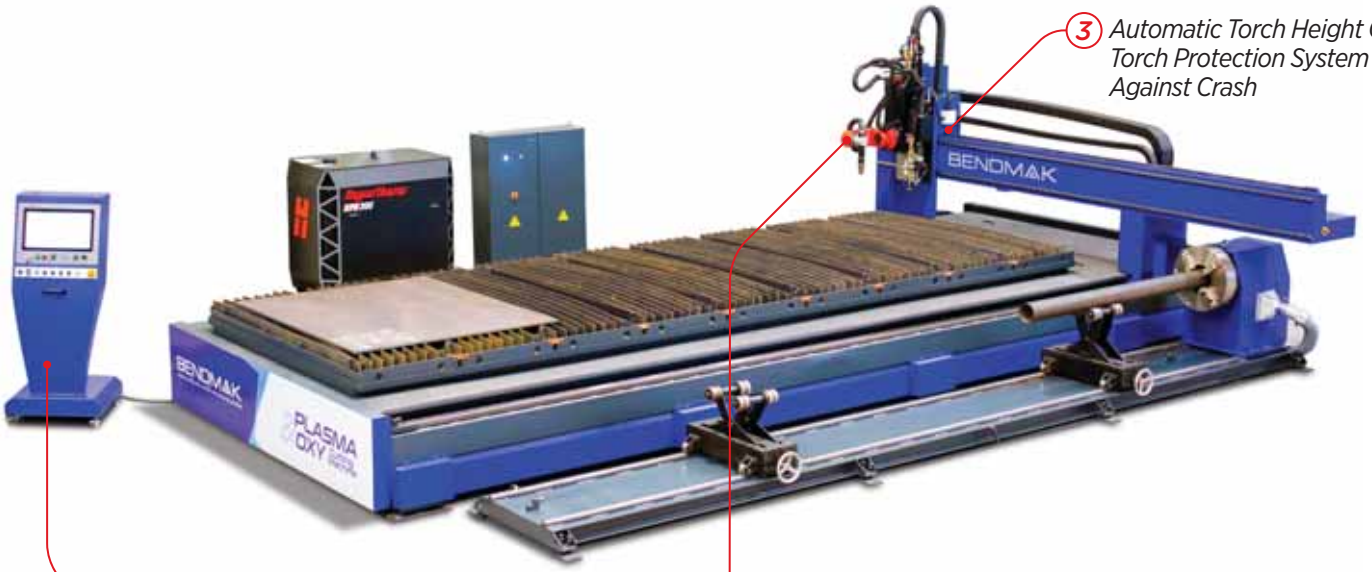


3 *High mechanical and axis positioning accuracy*

1 *Windows based CNC Unit*
Simple Part Programming
Nesting Software

2 *Automatic Torch Height Control*
Torch Protection System Against Crash

BPM-T

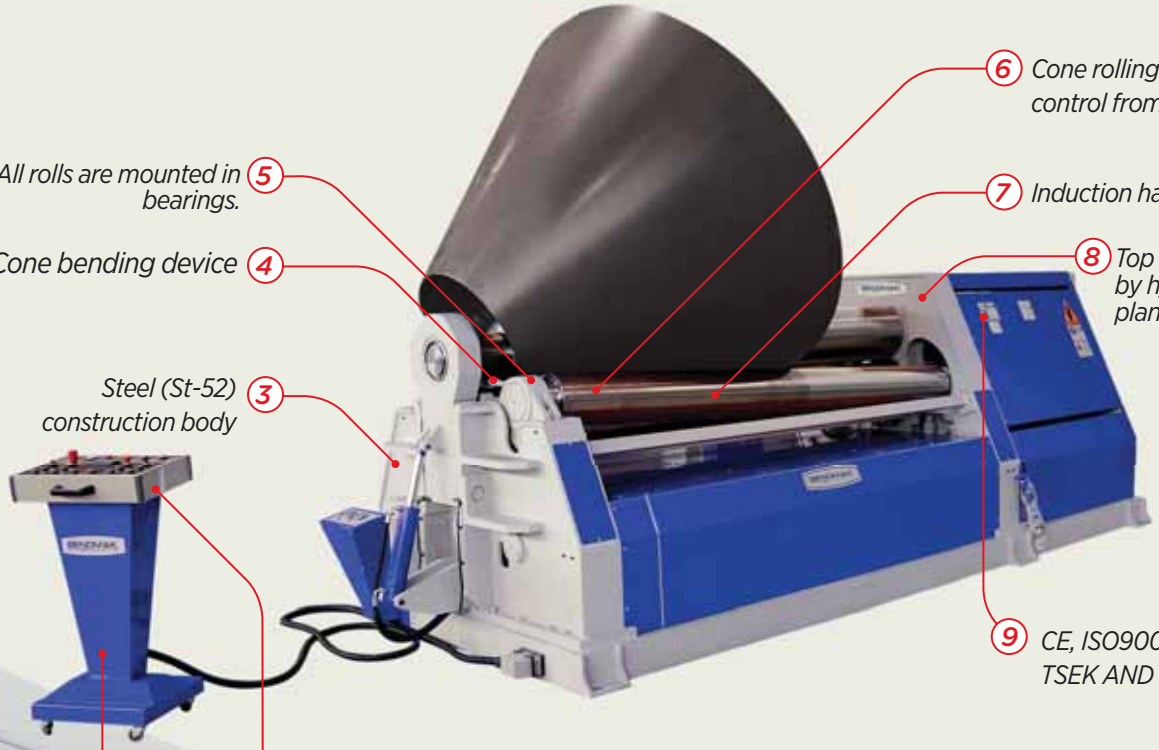


3 *Automatic Torch Height Control*
Torch Protection System
Against Crash

1 *Windows based CNC Unit*
Simple Part Programming
Automatic Nesting Software

2 *High mechanical and axis positioning accuracy*

CY4R-HHS



6 Cone rolling and positioning control from the control panel

7 Induction hardened rolls

8 Top and pinch rolls driven by hydraulic motors and planetary gear reducers.

All rolls are mounted in bearings. 5

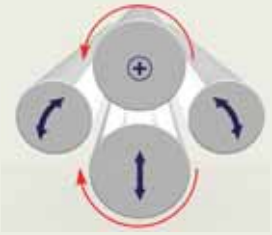
Cone bending device 4

Steel (St-52) construction body 3

9 CE, ISO9001 - 2015, TSEK AND TURQUM Certifications

2 Digital readout for side rolls

1 Separate moveable control panel



OPTIONAL ACCESSORIES

- Infinitely variable speed of rotation
- Side and central supports for large diameters
- Material feeding table
- Material ejector
- Interchangeable top roll
- Oil cooling system
- Motors with different voltages and frequencies.
- CNC
- NC

CYR4-HHS TECHNICAL INFORMATION

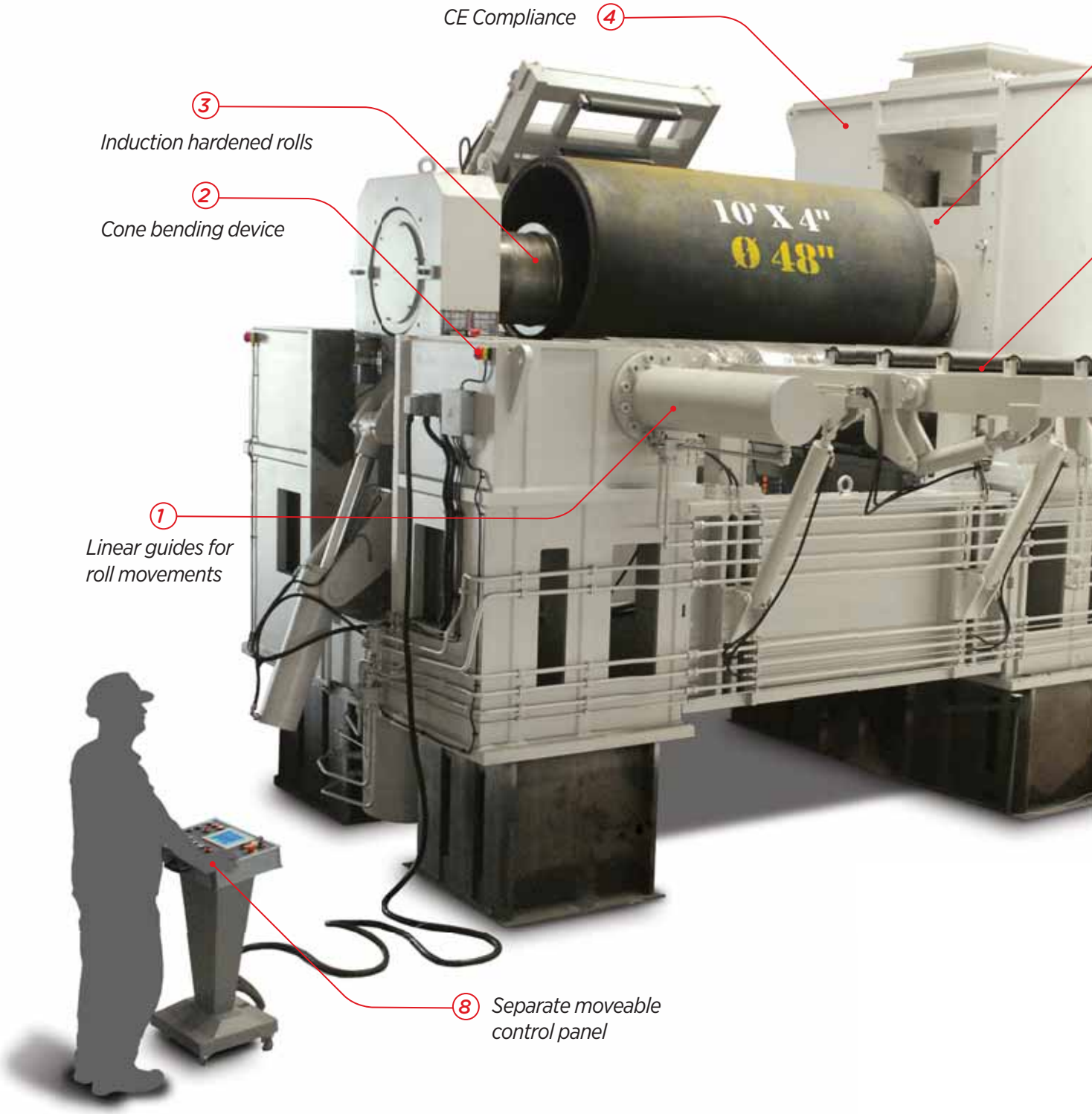
MODEL	Working Length	Max. Thickness	Pre-Bending Thickness	Top Roll Dia.	Bottom Roll Dia.	Side Roll Dia.	Motor Power	Length	Height	Width	Weight	
	feet	inch	inch	inch	inch	inch	HP	feet	feet	feet	lbs	
CY4R-HHS 120-12/6.0	4	1/4	8 ga.	4,7	4,7	4,3	3	9,9	3,2	3,1	3,307	
CY4R-HHS 140-15/6.0	5	1/4	8 ga.	5,5	5,5	4,7	3	12,1	4,2	4,3	4.409	Min Ø : Top Roll Dia. x 3
CY4R-HHS 160-15/7.0	5	9/32	6 ga.	6,3	5,5	4,7	3	12	3,4	3,7	4.630	
CY4R-HHS 190-15/10	5	3/8	5/16	7,5	6,7	5,9	4	12	3,4	3,7	4.453	
CY4R-HHS 140-20/4.0	6	8 ga.	14 ga.	5,5	5,5	4,7	3	13,1	3,4	3,7	4.938	
CY4R-HHS 160-20/6.0	6	1/4	8 ga.	6,3	5,5	4,7	3	13,6	3,4	3,7	5.181	
CY4R-HHS 190-20/8.0	6	5/16	1/4	7,5	6,7	5,9	4	13,3	4,1	4,5	7.606	
CY4R-HHS 210-20/10	6	3/8	5/16	8,3	7,5	6,7	10	13,6	4,3	4,6	9.700	
CY4R-HHS 230-20/13	6	1/2	3/8	9,1	8,3	7,5	10	13,6	4,3	4,6	10.472	
CY4R-HHS 270-20/16	6	5/8	1/2	10,6	9,8	8,3	15	14,8	4,7	5	12.897	
CY4R-HHS 300-20/20	6	13/16	5/8	11,8	10,6	8,3	20	14,9	4,9	5,7	15.212	Min Ø : Top Roll Dia. x 3
CY4R-HHS 330-20/25	6	1	13/16	13	11,8	9,4	20	15	5,3	6	20.106	
CY4R-HHS 360-20/30	6	1-3/16	1	14,2	13	9,8	25	15,1	6,6	6,3	25.904	
CY4R-HHS 390-20/40	6	1-9/16	1-3/16	15,4	14,2	11,8	30	16,6	7,2	7,2	37.920	
CY4R-HHS 430-20/45	6	1-3/4	1-3/8	16,9	15,4	13	40	17,4	8,5	7,5	54.564	
CY4R-HHS 460-20/50	6	2	1-9/16	18,1	16,5	14,2	50	17,9	8,5	7,5	55.116	
CY4R-HHS 540-20/60	6	2-3/8	2	21,3	16,5	14,2	50	17,9	8,5	7,5	81,57	
CY4R-HHS 190-25/6.0	8	1/4	8 ga.	7,5	6,7	5,9	4	14,9	4,1	4,5	7.937	
CY4R-HHS 210-25/8.0	8	5/16	1/4	8,3	7,5	6,7	10	15,2	4,3	4,6	10.582	
CY4R-HHS 230-25/10	8	3/8	5/16	9,1	8,3	7,5	10	15,2	4,3	4,6	11.773	
CY4R-HHS 270-25/13	8	1/2	3/8	10,6	9,8	8,3	15	16,5	4,7	5	14.991	
CY4R-HHS 300-25/16	8	5/8	1/2	11,8	10,6	8,3	15	16,5	4,9	5,7	17.857	
CY4R-HHS 330-25/20	8	13/16	5/8	13	11,8	9,4	20	16,7	5,3	6	20.944	
CY4R-HHS 360-25/25	8	1	13/16	14,2	13	9,8	25	16,6	5,5	6,2	26.015	Min Ø : Top Roll Dia. x 3
CY4R-HHS 390-25/30	8	1-3/16	1	15,4	14,2	11,8	30	18,8	6,5	6,9	34.833	
CY4R-HHS 430-25/40	8	1-9/16	1-3/16	16,9	15,4	13	40	18,2	7,2	7,2	49.163	
CY4R-HHS 460-25/45	8	1-2/4	1-3/8	18,1	16,5	14,2	40	18,9	8,5	7,5	62.832	
CY4R-HHS 510-25/50	8	2	1-9/16	20,1	18,1	15,4	60	19,3	9,8	7,5	67.682	
CY4R-HHS 540-25/60	8	2-3/8	2	21,3	20,1	17,3	74	20,2	9,8	9,8	88.185	
CY4R-HHS 210-30/6.0	10	1/4	8 ga.	8,3	7,5	6,7	10	17,1	4,3	4,6	11.905	
CY4R-HHS 230-30/8.0	10	5/16	1/4	9,1	8,3	7,5	10	17,1	4,3	4,6	12.853	
CY4R-HHS 270-30/10	10	3/8	5/16	10,6	9,8	8,3	15	18,4	4,8	5,2	17.086	
CY4R-HHS 300-30/13	10	1/2	3/8	11,8	10,6	8,3	15	18,4	4,9	5,9	19.401	
CY4R-HHS 330-30/16	10	5/8	1/2	13	11,8	9,4	15	18,4	5,4	6,2	23.369	Min Ø : Top Roll Dia. x 3
CY4R-HHS 360-30/20	10	13/16	5/8	14,2	13	9,8	20	18,4	5,6	6,2	26.632	
CY4R-HHS 390-30/25	10	1	13/16	15,4	14,2	11,8	25	19	6,6	6,9	37.699	
CY4R-HHS 430-30/33	10	1-3/8	1-1/8	16,9	15,4	13	30	20	7,2	7,2	49.780	
CY4R-HHS 460-30/40	10	1-9/16	1-1/4	18,1	16,5	14,2	40	20,7	8,5	7,5	66.756	
CY4R-HHS 510-30/45	10	1-3/4	1-3/8	20,1	18,1	15,3	60	20,7	8,5	7,5	73,855	Min Ø : Top Roll Dia. x 3
CY4R-HHS 540-30/50	10	1-2/4	1-9/16	21,3	20	17,3	74	22	9,8	9,8	88,185	
CY4R-HHS 570-30/60	10	2-3/8	2	22,4	20,5	17,7	74	22	11,4	9,8	101,412	

CYR4-HHS TECHNICAL INFORMATION

MODEL	Working Length	Max. Thickness	Pre-Bending Thickness	Top Roll Dia.	Bottom Roll Dia.	Side Roll Dia.	Motor Power	Length	Height	Width	Weight	
	feet	inch	inch	inch	inch	inch	HP	feet	feet	feet	lbs	
CY4R-HHS 610-30/73	10	3	2-3/8	24	21,7	18,1	101	22,1	11,4	9,8	112.877	Min Ø : Top Roll Dia. x 5
CY4R-HHS 650-30/81	10	3-3/16	2-11/16	25,6	23,6	20,1	121	23,6	12,1	11,3	133.159	
CY4R-HHS 700-30/90	10	3-9/16	3	27,6	25,6	22	148	23,6	12,1	11,3	157.190	
CY4R-HHS 750-30/100	10	4	3-3/8	29,5	27,6	23,6	177	25,5	13,5	12,3	179.897	
CY4R-HHS 800-30/110	10	4-5/16	3-13/16	31,5	29,1	24,4	215	26,1	14,3	13	223.108	
CY4R-HHS 900-30/141	10	5-9/16	5-1/8	35,4	32,3	27,2	248	28,4	18,1	14,3	289.246	
CY4R-HHS 1000-30/172	10	6-3/4	6-1/8	39,4	35,8	29,5	268	30,2	17,9	16,1	355.826	
CY4R-HHS 270-40/6.0	13 ft. 3"	1/4	8 ga.	10,6	9,8	8,3	10,1	21,4	4,7	5	19.621	Min Ø : Top Roll Dia. x 3
CY4R-HHS 300-40/8.0	13 ft. 3"	5/16	1-Apr	11,8	10,6	8,3	10,1	21,4	4,9	5,7	21.892	
CY4R-HHS 330-40/10	13 ft. 3"	3/8	5/16	13	11,8	9,4	10,1	21,6	5,3	6	32.893	
CY4R-HHS 360-40/13	13 ft. 3"	1/2	3/8	14,2	13	9,8	14,8	21,5	5,5	6,2	35.274	
CY4R-HHS 390-40/16	13 ft. 3"	5/8	1/2	15,4	14,2	11,8	20,1	22,1	6,5	6,9	44.313	
CY4R-HHS 430-40/20	13 ft. 3"	13/16	5/8	16,9	15,4	13	24,8	23,2	7,2	7,2	53.352	
CY4R-HHS 460-40/25	13 ft. 3"	1	13/16	18,1	16,5	14,2	29,5	23,9	8,5	7,5	75.839	
CY4R-HHS 510-40/30	13 ft. 3"	1-3/16	1	20,1	18,1	15,4	40,2	23,9	9	8,2	85.098	
CY4R-HHS 540-40/35	13 ft. 3"	1-3/8	1-1/8	21,3	20,1	17,3	49,6	25,2	9,6	9,8	106.042	
CY4R-HHS 580-40/40	13 ft. 3"	1-916	1-1/4	22,8	21,3	18,1	60,3	25,2	9,6	9,8	113.318	
CY4R-HHS 630-40/50	13 ft. 3"	2	1-9/16	24,8	23,6	21,7	60,3	25,4	11,5	9,8	141.537	Min Ø : Top Roll Dia. x 5
CY4R-HHS 360-50/10	16 ft. 6"	3/8	5/16	14,2	13	9,8	14,8	22,1	5,5	6,2	49.604	Min Ø : Top Roll Dia. x 3
CY4R-HHS 390-50/13	16 ft. 6"	1/2	3/8	15,4	14,2	11,8	14,8	25,4	6,5	6,9	50.045	
CY4R-HHS 430-50/16	16 ft. 6"	5/8	1/2	16,9	15,4	13	20,1	26,4	7,2	7,2	65.036	
CY4R-HHS 460-50/20	16 ft. 6"	13/16	5/8	18,1	16,5	14,2	24,8	27,1	8,5	7,5	86.421	
CY4R-HHS 510-50/25	16 ft. 6"	1	13/16	20,1	18,1	15,4	40,2	27,1	8,5	7,5	95.901	
CY4R-HHS 560-50/30	16 ft. 6"	1-3/16	1	22	20,5	17,3	49,6	28,4	9,6	9,8	118.609	
CY4R-HHS 630-50/45	16 ft. 6"	1-3/4	1-7/16	24,8	23,6	20,5	60,3	28,7	11,5	9,8	159.174	
CY4R-HHS 720-50/55	16 ft. 6"	2-3/16	1-3/4	28,3	26,8	23,6	73,8	29,4	12,1	11,3	197.755	Min Ø : Top Roll Dia. x 5
CY4R-HHS 360-60/8.0	20	5/16	1/4	14,2	13	9,8	14,8	28,1	5,5	6,2	47.620	Min Ø : Top Roll Dia. x 3
CY4R-HHS 390-60/10	20	3/8	5/16	15,4	14,2	11,8	14,8	27,1	6,5	6,9	55.667	
CY4R-HHS 430-60/13	20	1/2	3/8	16,9	15,4	13	20,1	29,7	7,2	7,2	72.753	
CY4R-HHS 460-60/16	20	5/8	1/2	18,1	16,5	14,2	24,8	30,4	8,5	7,5	95.901	
CY4R-HHS 510-60/20	20	13/16	5/8	20,1	18,1	15,4	40,2	30,4	8,5	7,5	106.924	
CY4R-HHS 560-60/25	20	1	13/16	22	20,5	17,3	49,6	31,7	9,6	9,8	132.939	
CY4R-HHS 650-60/40	20	1-9/16	1-1/8	25,6	24	20,5	73,8	32	9,6	9,8	163.583	Min Ø : Top Roll Dia. x 5
CY4R-HHS 750-60/45	20	2	1-7/16	29,5	27,6	22,8	100,6	32	11,5	9,8	216.000	

- Data indicated above are based on steel with yield point 34.800 PSI
- For cone bending, all bending values must be reduced %50.
- All specifications are subject to change without notice.
- Gauge (ga.) dimensions for standard steels.

BHV


CE Compliance
4
3
Induction hardened rolls
2
Cone bending device
1
Linear guides for
roll movements
8
Separate moveable
control panel
10' X 4"
Ø 48"

5 *Special braking system*

6 *Electronic balancing system*

7 *Integrated Safety Equipment throughout the Design*

OPTIONAL ACCESSORIES

- Material feeding tables with various features
- Overhead and side supports

BHV TECHNICAL INFORMATION

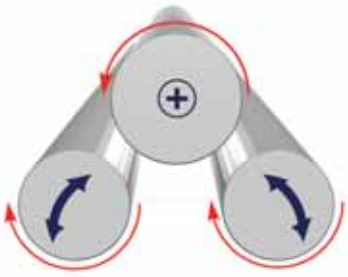
MODEL	Working Length	Max.Thickness	Pre-Bending Thickness	Top Roll Dia.	Side Roll Dia.	Motor Power	Length	Height	Width	Weight	
	feet	inch	inch	inch	inch	HP	feet	feet	feet	lbs	
BHV 30/70	10	3-3/8	2-3/4	23,6	21,3	101	23,0	11,5	11,8	105.822	Min Ø : Top Roll Dia. x 5
BHV 30/85	10	4-1/8	3-3/8	28,3	25,6	148	24,3	13,5	14,1	169.756	
BHV 30/105	10	4-15/16	4-1/8	31,5	26,8	177	24,9	14,4	14,8	200,621	
BHV 30/125	10	5-1/2	4-15/16	33,5	28,7	215	25,6	15,4	15,7	224.872	
BHV 30/135	10	5-15/16	5-5/16	34,6	29,9	229	26,9	16,4	16,4	277.782	
BHV 30/150	10	6-1/2	5-15/16	36,6	31,5	268	29,5	17,4	17,4	313.056	
BHV 30/190	10	7-7/8	7-1/2	39,4	33,1	308	32,2	19,4	19,0	348.330	
BHV 30/200	10	8-11/16	7-7/8	43,3	33,9	355	36,1	21,3	20,7	557.770	
BHV 30/240	10	10-1/4	9-7/16	48,0	38,6	375	39,4	22,8	23,0	767.209	

- Data indicated above are based on steel with yield point 34.800 PSI
- For cone bending, all bending values must be reduced %50.
- All specifications are subject to change without notice.
- Gauge (ga.) dimensions for standard steels.

CY3R-HHS

OPTIONAL ACCESSORIES

- Infinitely variable speed of rotation
- Side and central supports for large diameters
- Material feeding table
- Material ejector
- Interchangeable top roll
- Oil cooling system



In CY3R-HHS Roll Plate Rolling Machines, every 3 rolls are independently-driven with the reducers and hydraulic motors in the models with a roll diameter of 9" and over, and in the models with a roll diameter of less than 9", the side rolls are driven by a hydraulic motor, reducer + gear and the upper roll is driven by means of chain gear.

CYR3-HHS TECHNICAL INFORMATION

MODEL	Working Length	Max.Thick-ness	Pre-Bending Thickness	Top Roll Dia.	Side Roll Dia.	Motor Power	Length	Height	Width	Weight	
	feet	inch	inch	inch	inch	HP	feet	feet	feet	lbs	
CY3R-HHS 160-20/6.0	6	1/4	8 ga.	6,3	7,1	3	13	3,8	3,5	4.630	Min Ø : Top Roll Ø x 3
CY3R-HHS 190-20/8.0	6	5/16	1/4	7,5	7,1	4	13	3,8	3,5	6.504	
CY3R-HHS 210-20/10	6	3/8	5/16	8,3	7,5	10	13	3,8	3,5	8.708	
CY3R-HHS 230-20/13	6	1/2	3/8	9,1	8,3	10	13,2	4,2	4,5	10.318	
CY3R-HHS 270-20/16	6	5/8	1/2	10,6	9,8	15	13,7	4,5	4,7	11.574	
CY3R-HHS 300-20/20	6	13/16	5/8	11,8	10,6	20	14,6	5,3	5,3	15.256	
CY3R-HHS 330-20/25	6	1	13/16	13	11,8	20	13,9	6	5,9	18.850	
CY3R-HHS 360-20/30	6	1-3/16	1	14,2	13	30	14,8	6,6	6,2	20.723	
CY3R-HHS 390-20/40	6	1-9/16	1-3/16	15,4	14,2	30	16,1	7,2	6,4	37.479	
CY3R-HHS 430-20/45	6	1-3/4	1-3/8	16,9	15,4	40	17,1	8,2	7,2	42.439	
CY3R-HHS 190-25/6.0	8	1/4	8 ga.	7,5	6,7	4	14,6	3,8	3,5	7.385	Min Ø : Top Roll Ø x 3
CY3R-HHS 210-25/8.0	8	5/16	1/4	8,3	7,5	10	14,6	3,8	3,5	9.259	
CY3R-HHS 230-25/10	8	3/8	5/16	9,1	8,3	10	14,9	4,2	4,5	10.141	
CY3R-HHS 270-25/13	8	1/2	3/8	10,6	9,8	15	15,4	4,5	4,7	12.125	
CY3R-HHS 300-25/16	8	5/8	1/2	11,8	10,6	15	16,4	5,4	5,4	16.865	
CY3R-HHS 330-25/20	8	13/16	5/8	13	11,8	20	16,4	6,1	6,1	20.944	
CY3R-HHS 360-25/25	8	1	13/16	14,2	13	25	16,1	6,1	6,1	26.235	
CY3R-HHS 390-25/30	8	1-3/16	1	15,4	14,2	30	17,7	6,6	7,1	32.408	
CY3R-HHS 430-25/40	8	1-9/16	1-3/16	16,9	15,4	40	19,7	7,2	7,2	36.817	
CY3R-HHS 210-30/6.0	10	1/4	8 ga.	8,3	7,5	10	16,4	3,9	3,6	9.590	Min Ø : Top Roll Ø x 3
CY3R-HHS 230-30/8.0	10	5/16	1/4	9,1	8,3	10	16,7	4,3	4,6	11.354	
CY3R-HHS 270-30/10	10	3/8	5/16	10,6	9,8	15	17,1	4,6	4,9	15.432	
CY3R-HHS 300-30/13	10	1/2	3/8	11,8	10,6	15	18	5,6	5,6	18.673	
CY3R-HHS 330-30/16	10	5/8	1/2	13	11,8	15	17,4	6,2	6,2	23.325	
CY3R-HHS 360-30/20	10	13/16	5/8	14,2	13	20	17,7	6,2	6,2	29.101	
CY3R-HHS 390-30/25	10	1	13/16	15,4	14,2	25	19,4	6,6	7,2	37.479	
CY3R-HHS 430-30/35	10	1-3/8	1-1/8	16,9	15,4	30	19,7	7,2	7,2	44.754	
CY3R-HHS 460-30/40	10	1-9/16	1-1/4	18,1	16,5	40	20,3	8	7,2	63.934	
CY3R-HHS 510-30/45	10	1-3/4	1-3/8	20,1	18,1	60	20,7	9,2	8,2	69.446	
CY3R-HHS 270-40/6.0	13 ft. 3"	1/4	8 ga.	10,6	9,8	10	20,3	4,6	4,9	17.637	Min Ø : Top Roll Ø x 3
CY3R-HHS 300-40/8.0	13 ft. 3"	5/16	1/4	11,8	10,6	10	21,3	5,6	5,6	19.842	
CY3R-HHS 330-40/10	13 ft. 3"	3/8	5/16	13	11,8	15	20,7	6,2	6,2	27.778	
CY3R-HHS 360-40/13	13 ft. 3"	1/2	3/8	14,2	13	15	21	6,2	6,2	31.967	
CY3R-HHS 390-40/16	13 ft. 3"	5/8	1/2	15,4	14,2	20	23	6,6	7,1	41.337	
CY3R-HHS 430-40/20	13 ft. 3"	13/16	5/8	16,9	15,4	25	23	7,2	7,2	50.706	
CY3R-HHS 460-40/25	13 ft. 3"	1	13/16	18,1	16,5	30	23,6	8,2	7,2	68.343	
CY3R-HHS 510-40/30	13 ft. 3"	1-3/16	1	20,1	18,1	40	24	9,2	8,2	72.753	
CY3R-HHS 540-40/35	13 ft. 3"	1-3/8	1-1/8	21,3	20,1	50	24	9,2	8,2	99.208	

- Data indicated above are based on steel with yield point 34.800 PSI
- For cone bending, all bending values must be reduced %50.
- All specifications are subject to change without notice.
- Gauge (ga.) dimensions for standard steels.

CYL-ST

3-ROLL INITIAL PINCH PLATE ROLLS

OPTIONAL ACCESSORIES

- Extended rolls
- Profile rolls
- Digital readout for displaying positions of the back roll
- Motorized up and down movement of the bottom roll

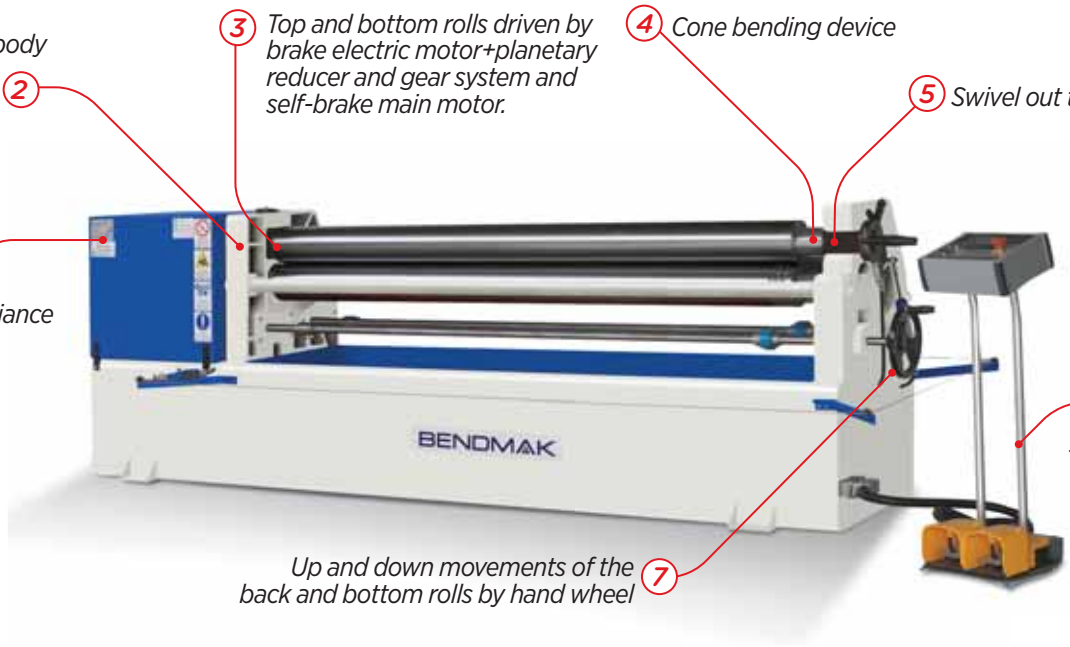
CYL-ST TECHNICAL INFORMATION

MODEL	Working Length	Pre-Bending Thickness	Max.Thickness	Top Roll Dia.	Min. Bending Dia.	Motor Power	Bending Speed	Lenght	Height	Width	Weight
	feet	inch	inch	inch	inch	HP	feet/min	feet	feet	feet	lbs
CYL-ST 140-15/6.0	5	3/16	1/4	5,5	8,3	3	19,7	10,2	3,7	3	3.197
CYL-ST 140-20/5.0	6	8 ga.	3/16	5,5	8,3	3	19,7	11,8	3,7	3	3.924
CYL-ST 170-15/8.0	5	9/32	5/16	6,7	10	5,4	14,8	10,8	3,7	3,6	5.093
CYL-ST 170-20/6.0	6	3/16	1/4	6,7	10	5,4	14,8	12,5	3,7	3,6	5.732
CYL-ST 170-25/5.0	8	8 ga.	3/16	6,7	10	5,4	14,8	14,1	3,7	3,6	5.732
CYL-ST 170-30/4.0	10	11 ga.	8 ga.	6,7	10	5,4	14,8	15,7	3,7	3,6	7.055
CYL-ST 190-15/8.0	5	9/32	5/16	7,5	11,2	5,4	16,4	10,2	4,4	4,3	7,055
CYL-ST 190-20/7.0	6	1/4	9/32	7,5	11,2	5,4	16,4	12,5	4,4	4,3	7.055
CYL-ST 190-25/6.0	8	3/16	1/4	7,5	11,2	5,4	16,4	14,1	3,9	4,3	7,937
CYL-ST 190-30/5.0	10	8 ga.	3/16	7,5	11,2	5,4	16,4	15,7	4,5	4,3	8,664
CYL-ST 200-20/8.0	6	9/32	5/16	7,9	11,8	7,4	16,4	12,5	4,1	4,3	7,496
CYL-ST 200-25/7.0	8	1/4	9/32	7,9	11,8	7,4	16,4	14,1	4,1	4,3	8,4
CYL-ST 200-30/6.0	10	3/16	1/4	7,9	11,8	7,4	16,4	15,7	4,2	4,3	8.818

- Data indicated above are based on steel with yield point 34.800 PSI
- For cone bending, all bending values must be reduced %50.
- All specifications are subject to change without notice.
- Gauge (ga.) dimensions for standard steels.

3-ROLL INITIAL PINCH PLATE ROLLS

CYL



OPTIONAL ACCESSORIES

- Induction hardened rolls
- Digital readout for displaying positions of the back roll
- Motorized up and down movement of the bottom roll
- Motorized up and down movement of the back roll

CYL TECHNICAL INFORMATION

MODEL	Working Length	Pre-Bending Thickness	Max.Thickness	Top Roll Dia.	Min. Bending Dia.	Motor Power	Bending Speed	Lenght	Height	Width	Weight
	feet	inch	inch	inch	inch	HP	feet/min	feet	feet	feet	lbs
CYL 110-10/5.0	3	8 ga.	3/16	4,3	5,9	3	14,8	6	3,8	2,8	1.984
CYL 110-12/4.0	4	10 ga.	8 ga.	4,3	5,9	3	14,8	7,6	3,8	2,8	2.535
CYL 110-15/3.5	5	11 ga.	10 ga.	4,3	5,9	3	14,8	8,6	3,8	2,8	2.359
CYL 110-20/3.0	6	14 ga.	11 ga.	4,3	5,9	3	14,8	10,3	3,8	2,8	2.425
CYL 120-12/4.5	4	8 ga.	7 ga.	4,7	6,9	3	16,1	6,6	3,8	2,8	2.425
CYL 130-10/5.5	3	3/16	1/4	5,1	7,5	3	17,4	6	3,9	3	2.315
CYL 130-15/4.5	5	8 ga.	7 ga.	5,1	7,5	3	17,4	8,7	3,9	3	2.998
CYL 130-20/4.0	6	11 ga.	8 ga.	5,1	7,5	3	17,4	10,8	3,9	3	3.263
CYL 140-12/5.5	4	3/16	1/4	5,5	8,3	3	18	6,6	3,9	3	2.535
CYL 140-20/4.5	6	8 ga.	7 ga.	5,5	8,3	3	18	7,7	3,9	3	3.417

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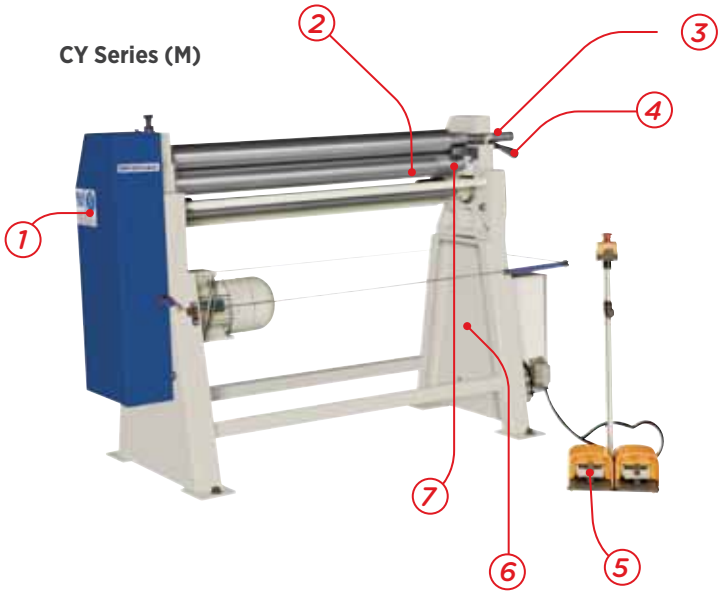
- Gauge (ga.) dimensions for standard steels.

CY

3-ROLL INITIAL PINCH PLATE ROLLS

CY Series (M)



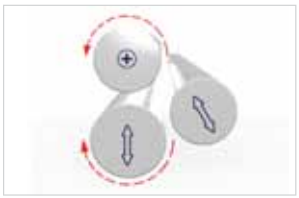
CY Series (MMIJG)

CY Series

1. *CE Compliance*
2. *Up and down movements of the back and bottom rolls by hand wheel*
3. *Manual rolling by hand wheel*
4. *Swivel out top roll*
5. *Cast iron body*
6. *Separate control foot pedal (if the electric drive is selected)*
7. *Cone bending device*

OPTIONAL ACCESSORIES

- Hardened rolls
- Digital readout for displaying positions of the back roll
- Motorized rolling
- Motorized up and down movement of the back roll
- Body panel (cover)



CY/C/CZ TECHNICAL INFORMATION

MODEL	Working Length	Pre-Bending Thickness	Max.Thickness	Top Roll Dia.	Min. Bending Dia.	Motor Power	Bending Speed	Lenght	Height	Width	Weight
	feet	inch	inch	inch	inch	HP	feet/min	feet	feet	feet	lbs
CY 70-10/1.8	3	16 ga.	14 ga.	2,76	4,13	1,5		5,6	3,6	2,3	705
CY 70-15/1.2	5	19 ga.	18 ga.	2,76	4,13	1,5		6,6	3,6	2,3	992
CY 75-12/2.0	4	16 ga.	14 ga.	2,95	4,61	1,5		6,6	3,6	2,6	1.014
CY 90-10/3.3	3	11 ga.	10 ga.	3,54	5,12	1,5		5,7	3,7	2,6	1.047
CY 90-12/3.0	4	12 ga.	11 ga.	3,54	5,12	1,5		6,4	3,7	3.0	1.102
CY 90-15/2.5	5	13 ga.	12 ga.	3,54	5,12	1,5		6,9	3,7	3.0	1.323
CY 95-20/1.8	6	16 ga.	14 ga.	3,74	5,31	1,5		9,9	3,7	3.0	1.400

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- Gauge (ga.) dimensions for standard steels.

SWM/SW

SWM 400 Hydraulic
(with 3 set of rolls)

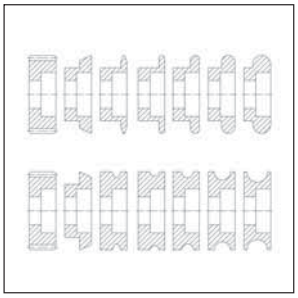
SWM 125 Motorised
(with 5 set of rolls)

SW 125 Manual
(with 5 set of rolls)

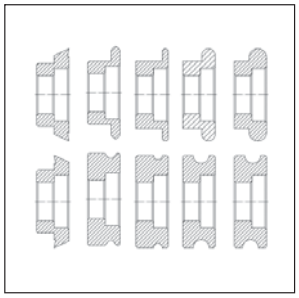
SWM 250 Hydraulic
(with 3 set of rolls)

SW 80 Manual
(with 7 set of rolls)

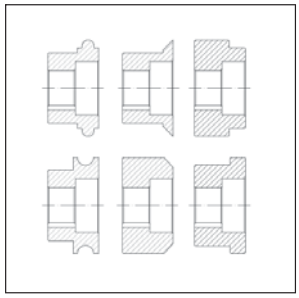
Special grade of material and hardened rolls



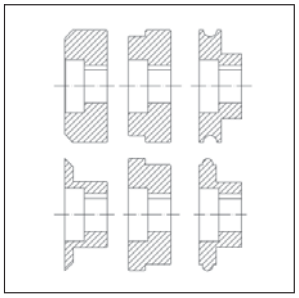
SW 80 standard rolls



SW 125 standard rolls



SWM 250 standard rolls



SWM 400 standard rolls

SWM/SW TECHNICAL INFORMATION

S.N.	Type	Thickness (inch)	Shafts axes distance (inch)	Roll-body distance (mm)	Motor power (HP)	Shaft diameter (inch)	Rotation linear speed (feet/min)	Throat depth (inch)	Length (inch)	Height (inch)	Width (inch)	Weight (inch)
1	**SW 80**	20 ga.	2,09	7,87	-	0,75	-	8,66	11,81	19,69	7,87	1,38
2	**SW 125**	16 ga.	2,44	9,84	-	1,02	-	10,24	23,62	21,65	13,78	1,97
3	**SWM 125**	16 ga.	2,44	9,84	0,94	1,02	20,664	10,24	40,16	59,06	23,62	6,69
4	**SWM 250**	12 ga.	3,62	10,24	2,01	1,38	11,48	19,69	47,24	47,24	27,56	11,61
5	**SWM 400**	7 ga.	5,20	10,24	2,95	1,57	16,4	19,69	64,96	50,39	27,56	13,78
6	**SWM 250 H**	10 ga.	3,62	10,24	2.01+0.74	1,38	11,48	19,69	47,24	47,24	27,56	12,60
7	**SWM 400 H**	7 ga.	5,20	10,24	2.95+0.74	1,57	16,4	19,69	70,87	62,99	27,56	17,72

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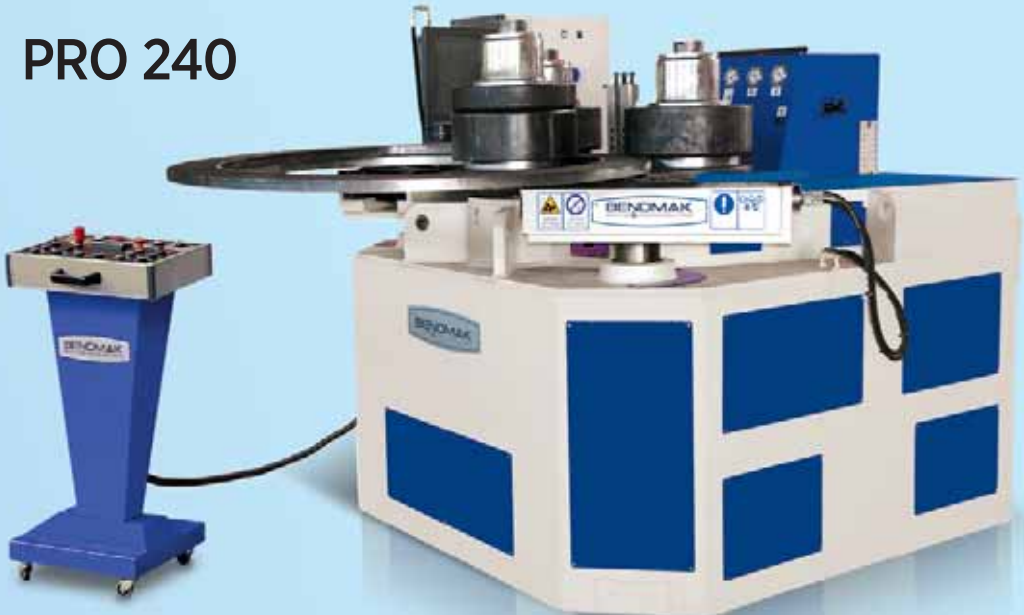
- Gauge (ga.) dimensions for standard steels.

ANGLE BENDING ROLLS

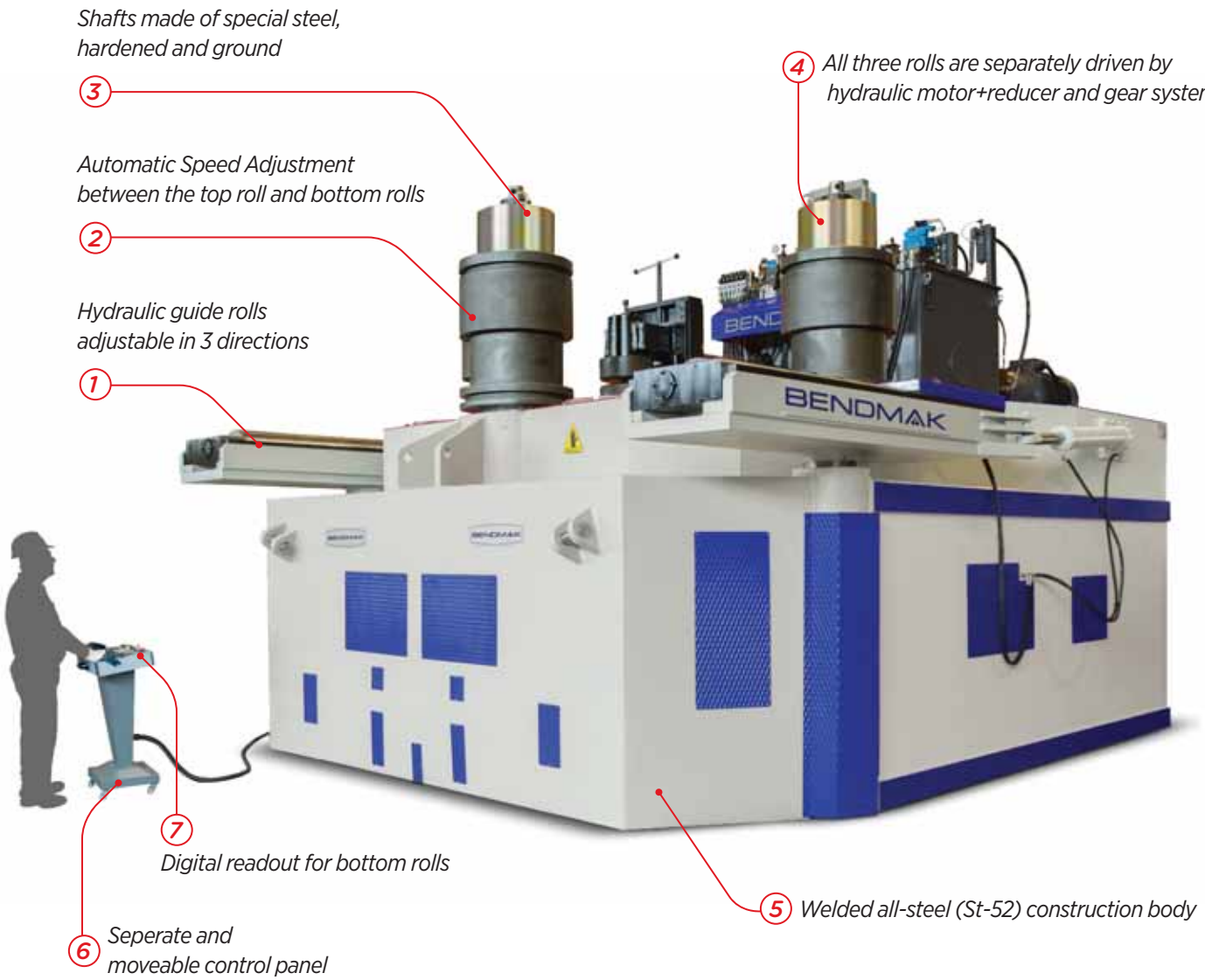
PRO 300

PRO 240



PRO 800

ANGLE BENDING ROLLS



OPTIONAL ACCESSORIES

- Special rolls for tubes, profiles and angles
- Hydraulic pulling system for H, U and I sections
- Digital readout for hydraulic guide rolls
- Joystick Control
- NC AK300
- CNC AK400

PRO 180

OPTIONAL ACCESSORIES

- Special rolls for tubes, profiles and angle bars
- Special tooling system for bending H,I,U profiles
- Digital readout for hydraulic guide rolls
- NC
- CNC
- Joystick Control
- Motors in variable voltages and frequencies

PRO 120/100

The rolls are driven by a hydraulic motor + reducer and gear system.

Standard guide rolls hydraulically adjustable in two directions (PRO 120)

2 *Bottom rolls hydraulically moveable up and down*

1 *Shafts made of special steel, hardened and ground*

4 *St-52 steel construction body*

5

OPTIONAL ACCESSORIES

- Special rolls for tubes, profiles and angles
- Variable speed of rotation
- Guide rolls hydraulically adjustable in two directions (for PRO 100)
- Special mechanic guide rolls for angle bending (for PRO 100)
- Digital readout for hydraulic guide rolls
- NC
- CNC
- Motors in variable voltages and frequencies
- Pulling device (for PRO 120)

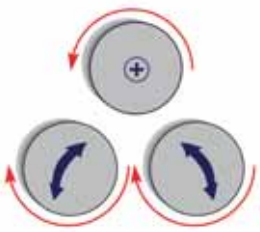
4 *CE Compliance*

3 *Horizontal & vertical working capability*

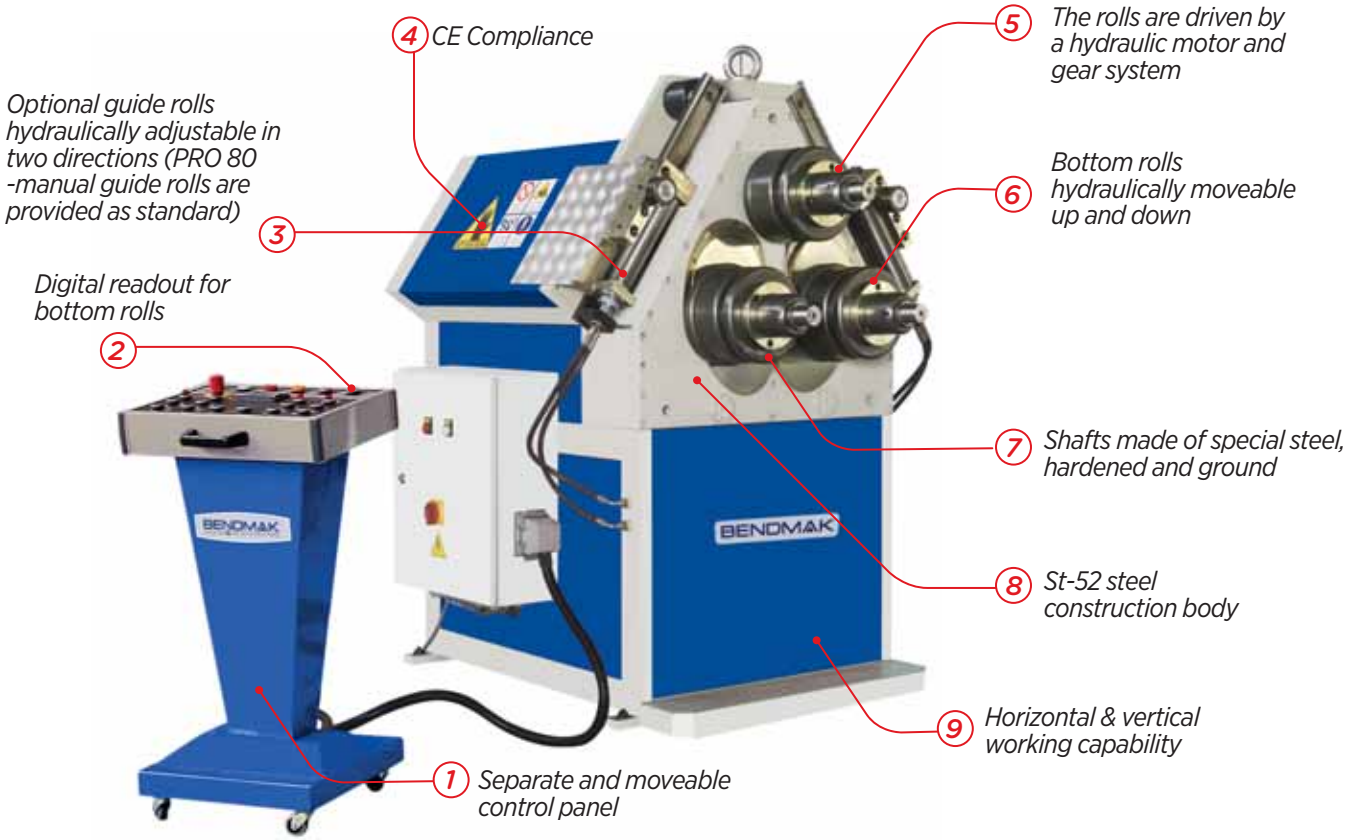
5 *Optional guide rolls hydraulically adjustable in two directions (PRO 100 -manual guide rolls are provided as standard)*

2 *Digital readout for bottom rolls*

1 *Separate and moveable control panel*



PRO 80



OPTIONAL ACCESSORIES

- Special rolls for tubes, profiles and angles
- Guide rolls hydraulically adjustable in two directions
- Special mechanic guide rolls for angle bending
- Digital readout for hydraulic guide rolls (for PRO 80)
- NC
- CNC
- Motors in variable voltages and frequencies
- Variable speed of rotation

PRO 60/55

PRO 60

PRO 55

PRO 60

Vertical & horizontal working capability

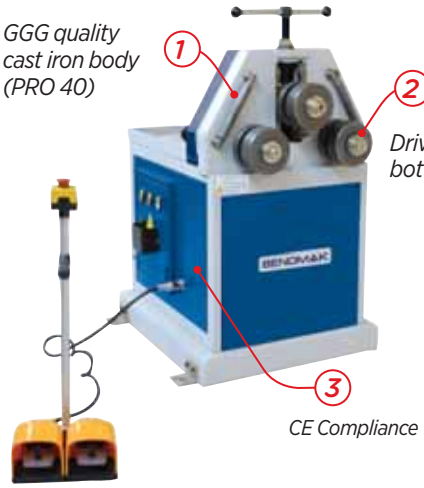
OPTIONAL ACCESSORIES

- Special rolls for tubes, profiles and angles
- Special mechanic guide rolls for angle bending
- Variable speed of rotation
- Motors in variable voltages and frequencies
- Two speeds

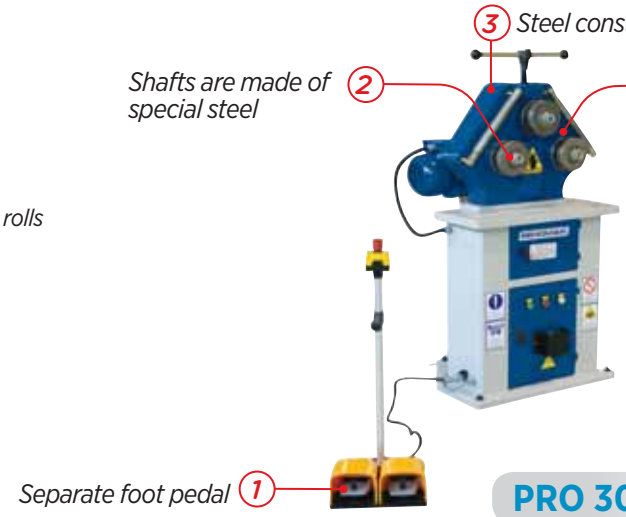
PRO 50/40/30

PRO 50

PRO 40



PRO 30



/ Scrolling Device

/ Twisting Device

OPTIONAL ACCESSORIES (PRO 50)

- Digital readout for the top roll
- Special rolls for tubes, profiles and angles
- Special voltage
- Two speeds

OPTIONAL ACCESSORIES (PRO 30-40)

- Digital readout for the top roll
- Special rolls for tubes, profiles and angles
- Special voltage
- Two speeds
- Twisting device
- Scrolling (s) device

TECHNICAL INFORMATION			PRO 1000		PRO 800		PRO 550		
			Size	Diameter	Size	Diameter	Size	Diameter	ROLLS
1		Angle leg out	L8x8 x1-1/4	135	L8x8 x1-1/4	70	L8x8x1	51	AD
2		Angle leg in	L8x8 x1-1/4	135	L8x8 x1-1/4	80	L8x8x1	59	AD
3		T section leg out	L8x8 x1-1/4	135	L8x8 x1-1/4	80	L8x8 x1-1/8	51	AD
4		T section leg in	WT7x404	135	WT8	60	WT8	79	AD
5		T section leg side	WT7x404	135	WT7x365	80	WT8	71	AD
6		Plate hard way	20x6	120	20x5	120	18x2-3/8 12x4	118 51	A
7		Plate easy way	40x7	120	40x6	70	26x5	67	A
8		Square	14x14	120	12x12	100	11x11	100	A
9		Round	16-1/2	150	14	90	12	100	B
10		Tube	24 SCH80	750	24 SCH40	600	22 SCH40	700	B
11		Square tube	24x3/4	-	20x3/4	-	18x3/4	-	B
12		Channel easy way-legs out	MC18x58	135	MC18x58	135	MC18x58	60	B
13		Channel easy way-legs in	MC18x58	135	MC18x58	135	MC18x58	600	B
14		Beam easy way	W40*593	200	W40*503	200	W 36*210	200	BC
15		Beam easy way	W40x593	200	W36*527	200	W33*241	200	B
16		Channel hard way	MC 18*58	700	MC18*58	700	MC15*58	700	B
17		Beam hard way	W40x183	2000	W40x183	2000	W24x117	150	BC
18		Beam hard way	W40x211	1400	W40x211	1400	W16x100	108	BC
Max. Section Modulus (in^3)			427-671		244-550		335		
Power (HP)			214		161		133		
Roll Diameter (inch)			33		34		31,5		
Shaft Diameter (inch)			20.47/16.5		15.75/15.75		14.17/14.17		
Bending Speed (feet/min)			2		23		23		
Weight (lbs)			188.000		165.570		135.600		
WxLxH (feet)			19,7x24,0x13,8		18,0x22,7x14,1		15,8x21,6x14,2		

Data indicated above are based on steel with yield point 34.800 PSI. All specifications are subject to change without prior notice.

TECHNICAL INFORMATION			PRO 360		PRO 300		PRO 280		
			Size	Diameter	Size	Diameter	Size	Diameter	ROLLS
1		Angle leg out	L8x8 x1-1/4	60	L8x8x1-1/8	80	L8x8x1	120	AD
2		Angle leg in	L8x8 x1-1/4	70	L8x8x1	100	L8x8x3/4	140	AD
3		T section leg out	WT8	50	WT8	70	WT8	100	AD
4		T section leg in	WT8	60	WT8	100	WT8	120	AD
5		T section leg side	WT7x213	60	WT7x116,5	70	WT8	100	AD
6		Plate hard way	16x2-3/8	120	10x2"	71	8x2	80	A
7		Plate easy way	22x4	70	20X3	80	16x3	80	A
8		Square	10x10	100	6x6	80	5-1/2x5-1/2	60	A
9		Round	10-1/2	80	7	80	6	59	B
10		Tube	20 SCH40	600	12 SCH40	160	10 SCH40	160	B
11		Square tube	16x5/8	-	9x1/2	-	7x1/2	-	B
12		Channel easy way-legs out	MC18x58	60	MC18x58	40	MC18x58	60	B
13		Channel easy way-legs in	MC18x58	60	MC18x58	40	MC18x58	60	B
14		Beam easy way	W33x241	200	W16x77	80	W16x67	80	B
15		Beam easy way	W36x210	200	W21x93	80	W18x76	100	B B
16		Channel hard way	MC18x58	700	MC12x50	350	MC10x41,1	450	BC
17		Beam hard way	W24x117	150	W12x35	500	W10x33	400	BC
18		Beam hard way	W16x100	108	W10x39	400	W8x40	400	BC
Max. Section Modulus (in^3)			287		42,7		36,6		
Power (HP)			95		87		37		
Roll Diameter (inch)			31,5		29,1		26		
Shaft Diameter (inch)			14,17/14,17		11,81/11,00		11,00/10,24		
Bending Speed (feet/min)			23		23		0-23		
Weight (lbs)			105.820		59.084		40.785		
WxLxH (feet)			15,8x21,6x13,4		11x14,3x7,4		9,4x12,5x7,3		

A: Standard rolls B: Special rolls C: Pulling device D: For bending without deformation and for serial production special rolls are required.

TECHNICAL INFORMATION			PRO 240		PRO 180		
			Size	Diameter	Size	Diameter	ROLLS
1		Angle leg out	L6x6x1	100	L6x6x5/8	85	AD
2		Angle leg in	L6x6x1	130	L5x5x3/4	85	AD
3		T section leg out	WT6	90	WT6	60	AD
4		T section leg in	WT6	110	WT5	65	AD
5		T section leg side	WT6	85	WT8	60	AD
6		Plate hard way	8x1-1/4	100	6x1-1/2	70	A
7		Plate easy way	12x2-1/2	45	10x2	40	A
8		Square	4-1/2	60	3-1/2	45	A
9		Round	5	50	4-3/8	55	B
10		Tube	8 SCH40	100	6 SCH40	85	B
11		Square tube	6x3/8 6x6x0.375		5x5/16 4.5x4.5x0.313		B
12		Channel easy way-legs out	C15x50	60	C12x30	40	B
13		Channel easy way-legs in	C15x50	70	C12x30	45	B
14		Channel hard way	C8x18,75	410	C7x12,25	350	BC
15		Beam easy way	W12x53	60	W8x31	45	B
16		Beam easy way	W14x38	60	W12x35	45	B
17		Beam hard way	W8x21	200	W6x16	120	BC
18		Beam hard way	W6x25	150	W5x19	100	BC
Max. Section Modulus (in^3)			19,5		12,8		
Power (HP)			40		20		
Roll Diameter (inch)			21,65		18,11		
Shaft Diameter (inch)			9,45/8,66		7,1/6,3		
Bending Speed (feet/min)			0-23		0-23		
Weight (lbs)			38.580		20.400		
WxLxH (feet)			7,4x11,0x6,8		6,6x7,9x5,6		

Data indicated above are based on steel with yield point 34.800 PSI. All specifications are subject to change without prior notice.

TECHNICAL INFORMATION			PRO 120		PRO 100		
			Size	Diameter	Size	Diameter	ROLLS
1		Angle leg out	L2x2x3/16 L4x4x3/8 L5x5x1/2	26 43 52	L2x2x1/4 L3-1/2x3-1/2x5/16 L4x4x3/8	28 40 55	AE F F
2		Angle leg in	L2x2x1/4 L3x3x5/16 L4x4x1/2	26 35 44	L2x2x1/4 L3x3x5/16 L4x4x3/8	32 47 63	AE
3		T section leg out	WT5	48	WT4	48	A
4		T section leg in	WT5	48	WT4	40	A
5		T section leg side	WT5	51	WT4	48	A
6		Flat hard way	1-1/2x3/8 5x1	20 60	1-1/2x3/8 4x13/16 4x1	16 24 63	AF
7		Flat easy way	8x2	40	2x3/8 4x1-9/16 7-1/2x1-3/8	16 24 40	AF
8		Square	3	32	1 2-3/8	16 40	AF
9		Round	3-3/8	36	1-1/2 2-3/4	16 32	B
10		Tube	2x0,79 6-1/4x0,157	24 118	2x0,79 5-1/2x0,118	24 118	B
11		Tube-Pipe	5 SCH40	70	2 SCH40 4 SCH40	16 63	B
12		Rectangle tube	2x5-1/2x0.196		1-1/2x1x0,078 5-1/2x1-1/2x0,125	23 157	B
13		Square tube	3-1/2x0.312		2x0.100 4x0,196	20 157	B
14		Channel easy way – legs out	C8x22.8	40	C7x12,75	32	AD F
15		Channel easy way – legs in	C8x22.8	47	C7x12,75	32	AD F
16		Channel hard way	C5x9	315			CB
17		Beam easy way	W6x20	51	W4x14	50	AD F
18		Beam easy way	S5x10	98	S7x20 W6x16	40 47	AD F
19		Beam hard way	S5x14,75	98	S5x14,75		CB
20		Beam hard way	W4x13 W6x16	102 59			CB
Max. Section Modulus (in^3)			4,3 - 7,3		2,7 - 4,9		
Power (HP)			20		15		
Roll Diameter (inch)			15,35		12,4		
Shaft Diameter (inch)			4,72		3,94		
Bending Speed (feet/min)			13		18		
Weight (lbs)			10.405		4.940		
WxLxH (feet)			4,8x6,5x6,7		4,9x5,4x6,9		

A: Standard rolls B: Special rolls C: Pulling device D: For bending without deformation and for serial production special rolls are required.
E: Angle device F: Stretching device

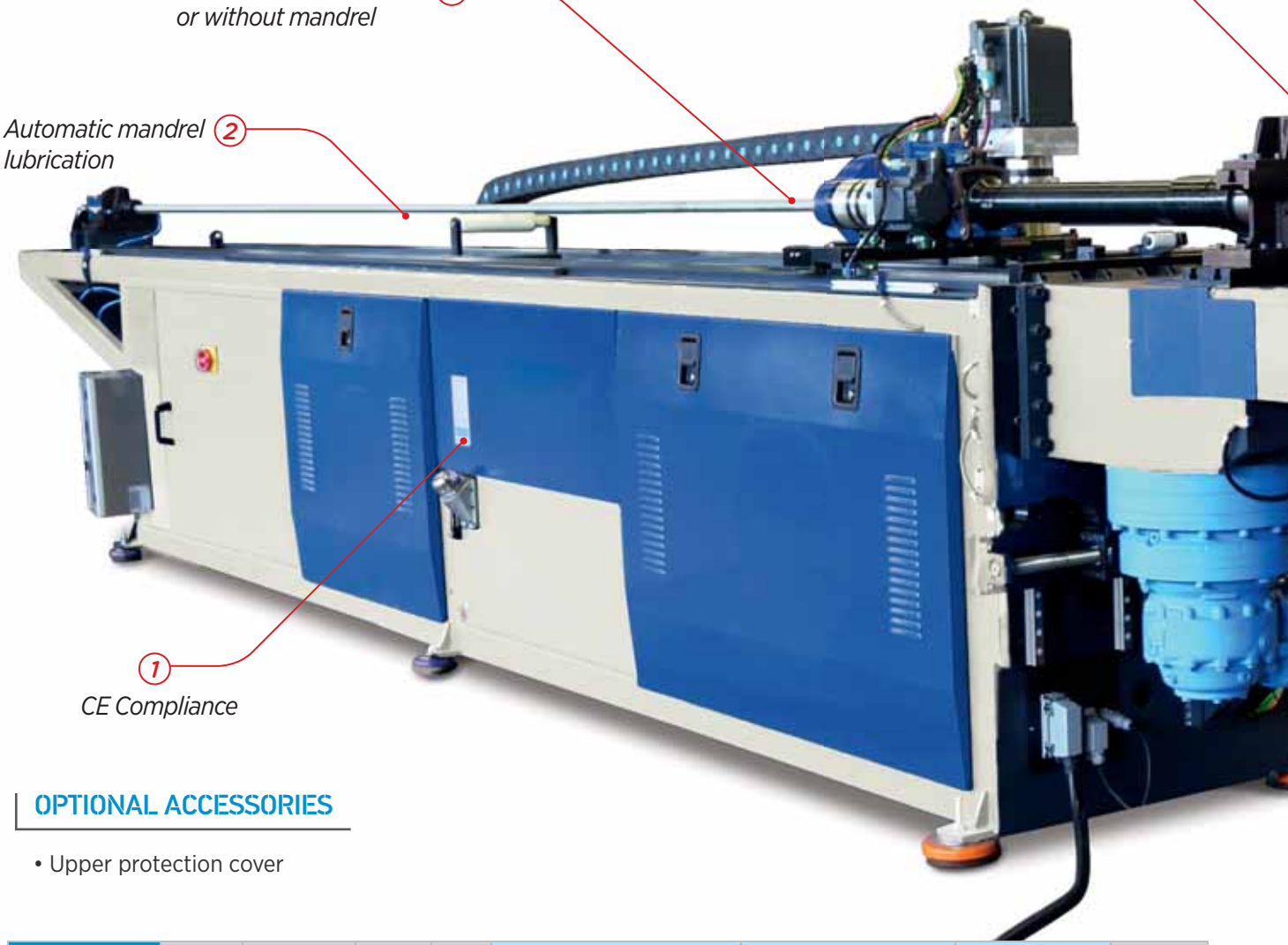
TECHNICAL INFORMATION			PRO 80		PRO 60		
			Size	Diameter	Size	Diameter	ROLLS
1		Angle leg out	L1-3/8x1-3/8x1/8 L2-1/2x2-1/2x5/16 L3x3x3/8	20 47 63	L1-1/8x1/8 L2x2x1/4	10 40	AD
2		Angle leg in	L1-1/2x1-1/2x1/8 L2-1/2x2-1/2x3/8 L3x3x3/8	24 40 78	L1-1/8x1/8 L2x2x3/16	16 40	AD
3		T section leg out	3x3x5/16	55	2x2x1/4	24	A
4		T section leg in	3x3x5/16	55	2x2x1/4	28	A
5		Plate hard way	1-9/16x3/8 3x1 4-13/16	12 28 82	1-3/4x3/8 2-3/8x13/16 3-1/8x1	9 20 83	A
6		Plate easy way	2x3/8 4-3/4x1-1/8	11 24	2x3/16 3x3/4	8 48	A
7		Sqouare	1-3/8 1-3/4	12 40	5/8 1-1/2	14 55	A
8		Round	1-3/8 1-3/4	12 20	3/4 2"	14 32	B
9		Tube	1-1/2x0.078 4x0,0125	16 118	1x0,060 2-3/4x0,078	8 63	B
10		Tube-Pipe	1-1/2 SCH40 3 SCH40	16 63	3/4 SCH40 2 SCH40	8 40	B
11		Rectangle tube	4x1-1/2x0,125	118	3-1-1/8X0,0125	266	B
12		Square tube	2-3/4x0,157	118	2x0.125	157	B
13		Channel easy way – legs out	5,5x2-3/8x5/16	48	3x2x1/4	32	AD
14		Channel easy way – legs in	5,5x2-3/8x5/16	48	3x2x1/4	32	AD
15		Beam easy way	S5x14,75	20			AD
Power (HP)			6,8		5,4		
Roll Diameter (inch)			9,65		6,97		
Shaft Diameter (inch)			3,15/3,15		2,36/2,36		
Bending Speed (feet/min)			13		21		
Weight (lbs)			3.285		2.140		
WxLxH (feet)			4,43x5,25x6,1		3,12x4,60x4,76		

Data indicated above are based on steel with yield point 34.800 PSI. All specifications are subject to change without prior notice.

TECHNICAL INFORMATION			PRO 55		
			Size	Diameter	ROLLS
1		Angle leg out	L1-1/8x1/8	40	AC
2		Angle leg in	L1-1/8x1/8	47	AC
3		T section leg out	1-1/8x	23,6	A
4		T section leg in	1-1/8x	23,6	A
5		T section leg side	1-1/8x	23,6	A
6		Plate hard way	2x9/16	40	A
7		Plate easy way	3-1/8x13/16	47	A
8		Square	1,38x1,38	55	B
9		Round	1-1/2	31,5	B
10		Tube	2-3/4x1/16	63	B
11		Tube-Pipe	3/4SCH40	40	B
12		Rectangle tube	3-1-1/8x0,0125	157	B
13		Square tube	2x0,125	157	B
14		Channel easy way-legs out	3x2x1/4	31,5	A
15		Channel easy way-legs in	UNP80	40	A
Power (HP)			1.5		
Roll Diameter (inch)			6,18		
Shaft Diameter (inch)			2		
Bending Speed (feet/min)			9,7		
Weight (lbs)			1100		
WxLxH (feet)			3,11x3,28x4,76		

A: Standard rolls B: Special rolls C: Pulling device D: For bending without deformation and for serial production special rolls are required.

BT-BM
76 CNC 3



OPTIONAL ACCESSORIES

- Upper protection cover

BT-BM TECHNICAL SPECIFICATIONS	Tube Outer Diamatere (OD)	Wall Thickness Max.	Bending Degree Max.	Bending Radius Max.	Speed			Working Tolerance			Hydraulic		Oil Tank Volume
					Feeding	Rotation	Bending	Feeding (±)	Rotation (±)	Bending (±)	Total Power	Pressure Max.	
	inch	inch (ga.)	degree	inch	inch/sec	degree/ sec	degree/ sec	inch	degree	degree	HP	psi	gal
BT-BM CNC3	2 1/2	0.120 (11)	180	10,24	39	200	30	0,004	0,004	0,004	10	2610	31,7
BT-BM76 CNC1	2 1/2	0.120 (11)	180	10,24		100	30		0,004	0,02	10	2610	31,7
BT-BM76 NC	2 1/2	0.120 (11)	180	10,24		100	30		0,004	0,02	10	2610	31,7
BT-BM50CNC	1 1/2	0.120 (11)	180	6,7	39	200	max.90	0,004	0,004	0,004	10	2030	31,7
BT-BM38CNC	1	0.083 (14)	180	6	39	200	max. 90	0,004	0,004	0,004	7,5	2030	31,7

Data indicated above are based on steel with yield point 34.800 PSI. All specifications are subject to change without prior notice.

"Optimum Solutions for Tube Bending"

BT-BM
E-25

Online Modem Connection / CD-ROM Backup (5)

All electric (servo motor controlled) axes (3)

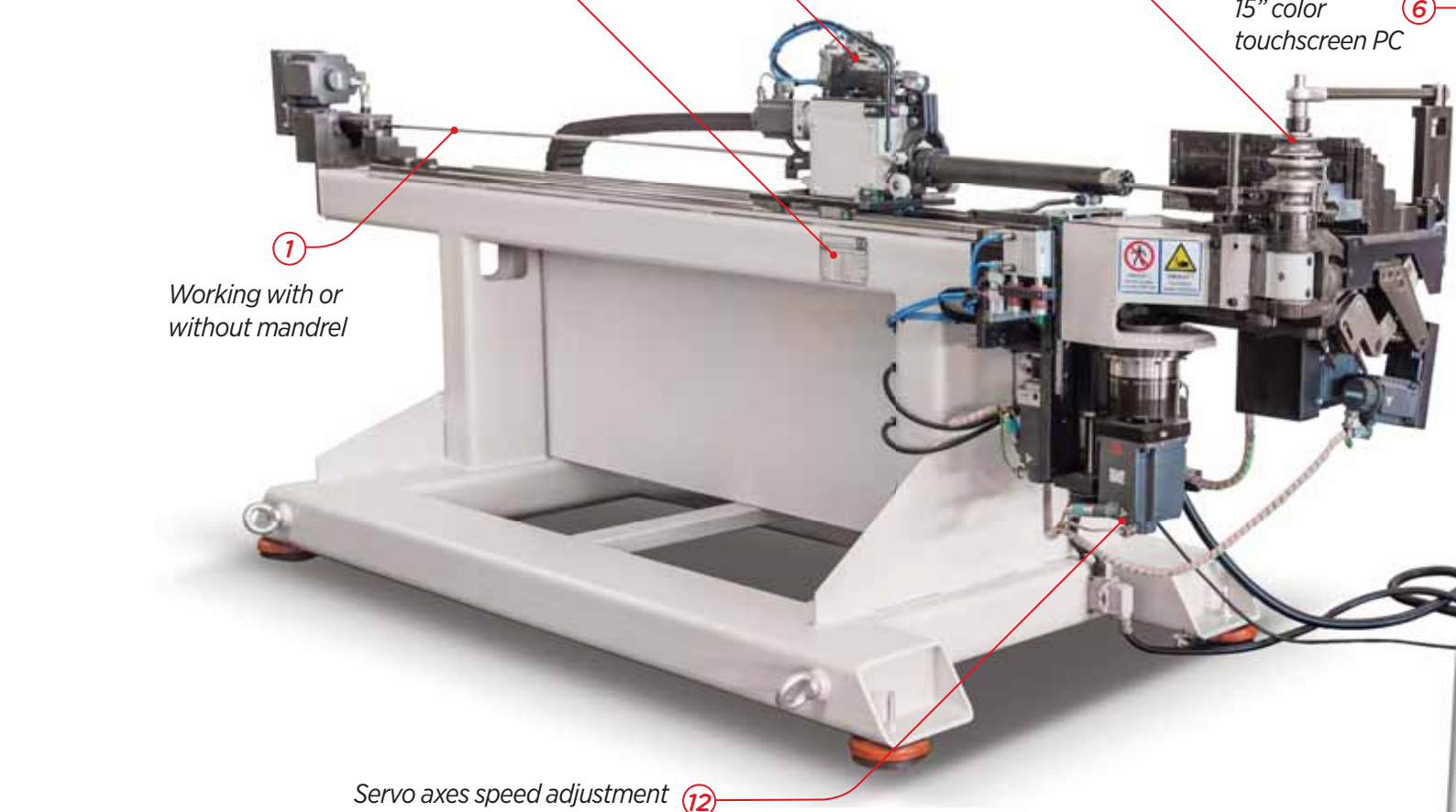
Multi-stack up to three dies (4)

CE Compliance (2)

15" color touchscreen PC (6)

(1) Working with or without mandrel

Servo axes speed adjustment from control panel (12)



ALL ELECTRIC PIPE BENDING MACHINE

7 *Step by step and fully automatic working capability*

8 *User-friendly interface, designed and engineered by Bendmak*

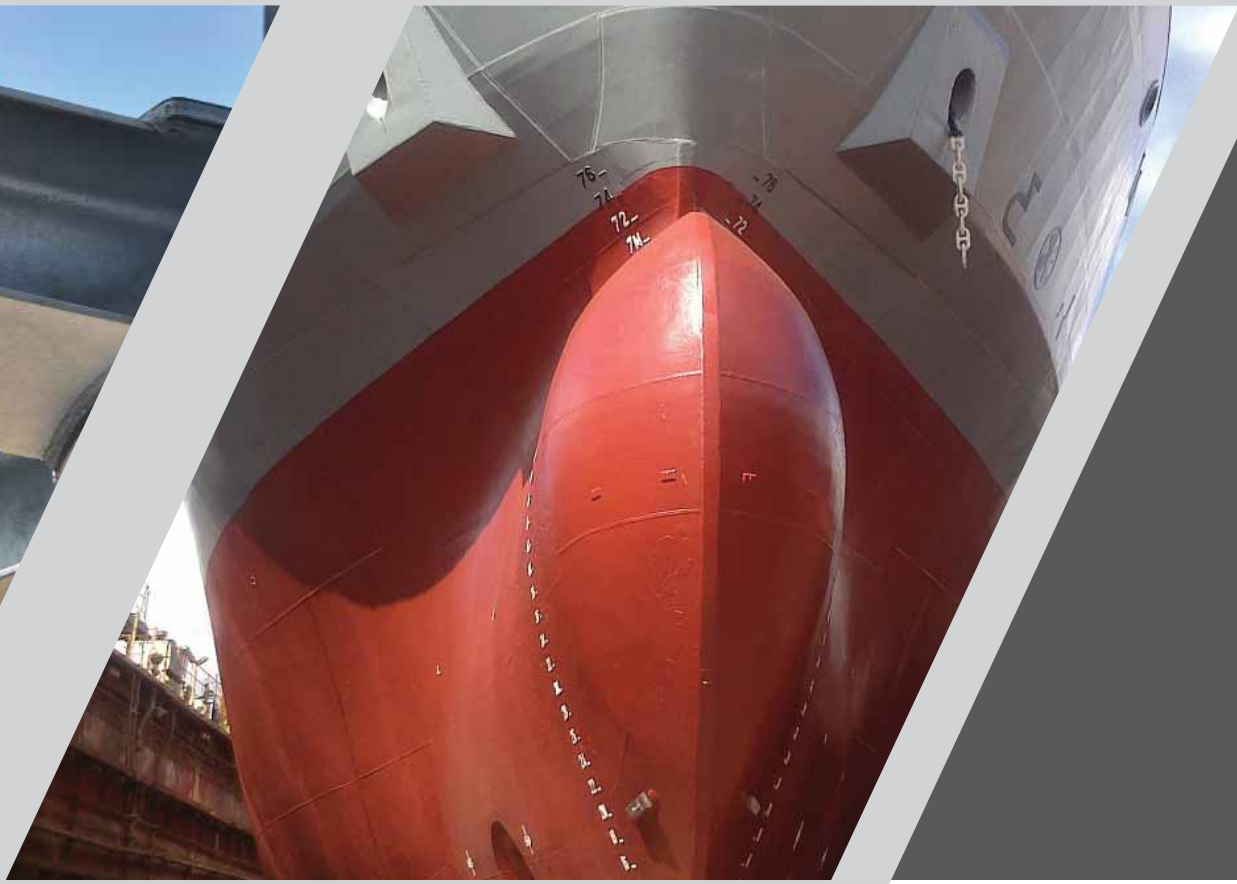
9 *Programming in YBC mode*

10 *Tube length calculation*

11 *Servo driven bending, feeding, shifting and axis turning*

BT-BM E-25 TECHNICAL INFORMATION	Max. Tube Outside Diameter	Max. Thickness	Bending Degree Max.	Bending Radius Max.	Operation Speed				Working Tolerance				Total Power
					Moving Ahead Axis Speed	Rotation Speed	Bending Speed	Shift Speed	Moving Ahead	Rotation	Bending	Shift	
	inch	inch	Degree	inch	inch/sec	Degree/sec	Degree/ sec	inch /sec	inch	inch	inch	inch	HP
	1	12 ga.	180	4,72	19.69	200	200	3.94	0.004	0.002	0.002	0.004	26.8

Data indicated above are based on steel with yield point 34.800 PSI. All specifications are subject to change without prior notice.



WELDING SOLUTIONS

www.bendmak.com.tr

BHW

① *Easy alignment of web and flanges*

② *Automatic Tilting Mechanism*

③ *Automation system*

OPTIONAL ACCESSORIES

- Back hydraulic centering unit at in-feed conveyor
- Camera system
- Motorized welding head slides
- Touchpad control panel (Standard for BHW 2000x1000)
- Part tilting arms for out-feed conveyor (Standard for BHW 2000x1000)

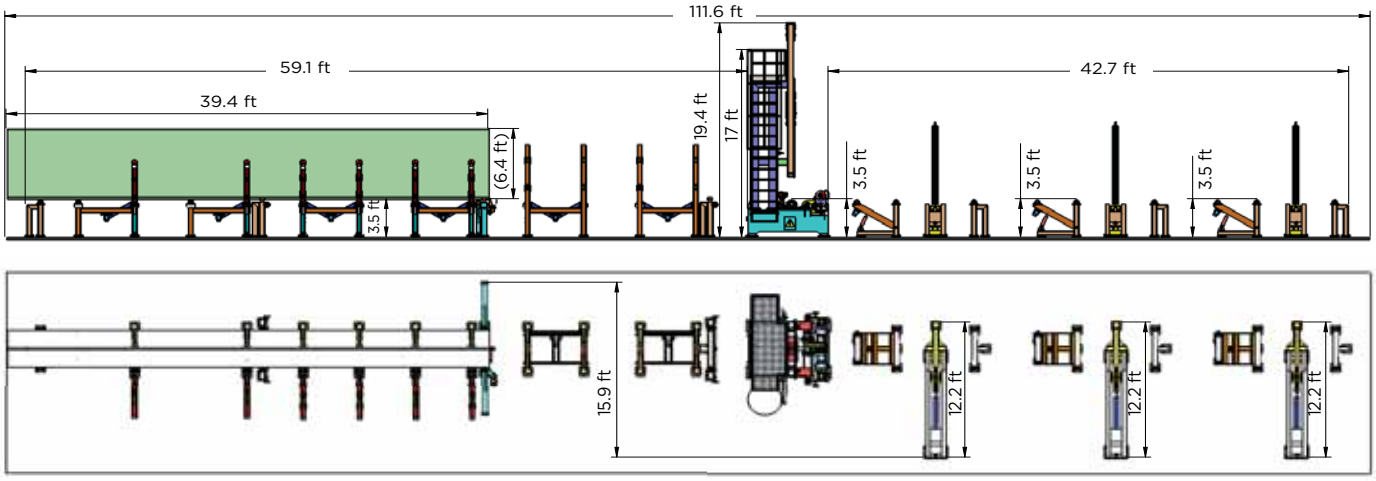
④ *Single, twin or tandem welding heads*

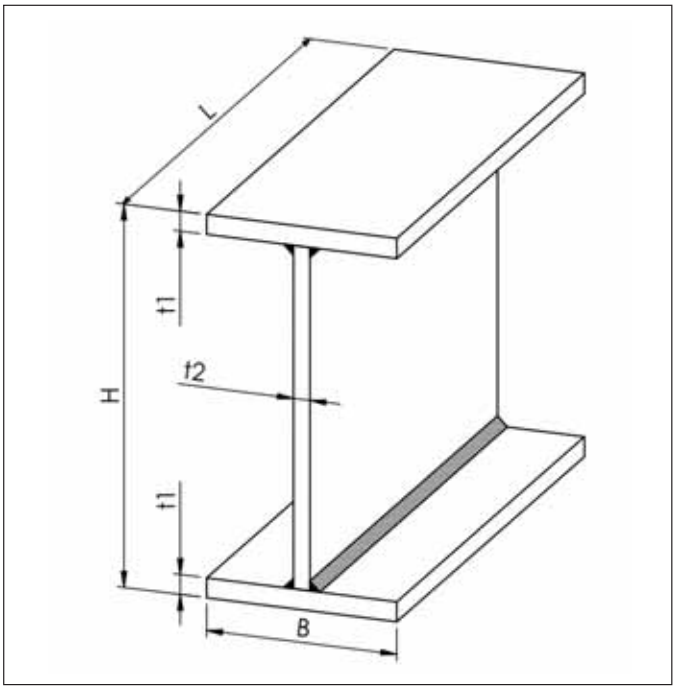
⑤ *Motorized and hydraulic side supports against distortion*

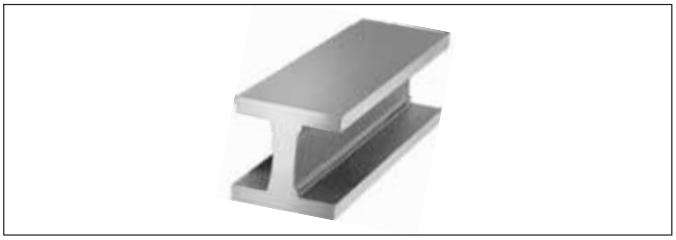
⑥ *Flange Straightening Integration*

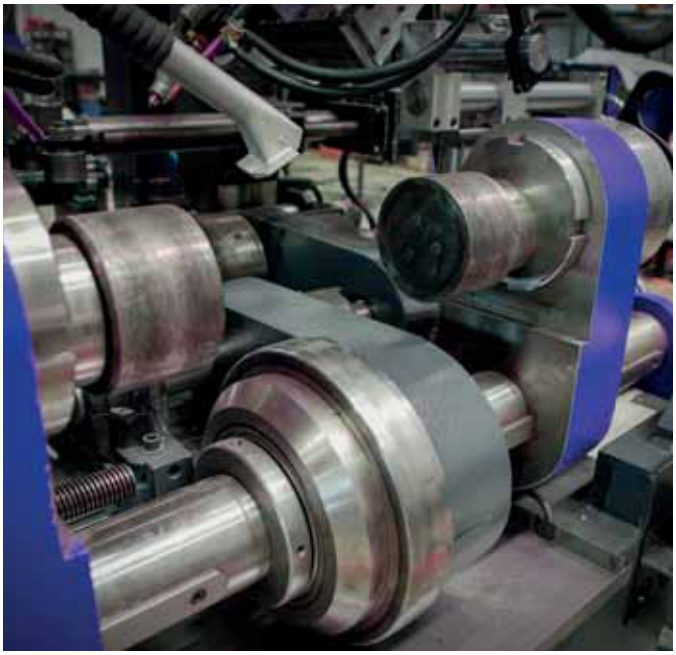
BHW

H BEAM WELDING LINES





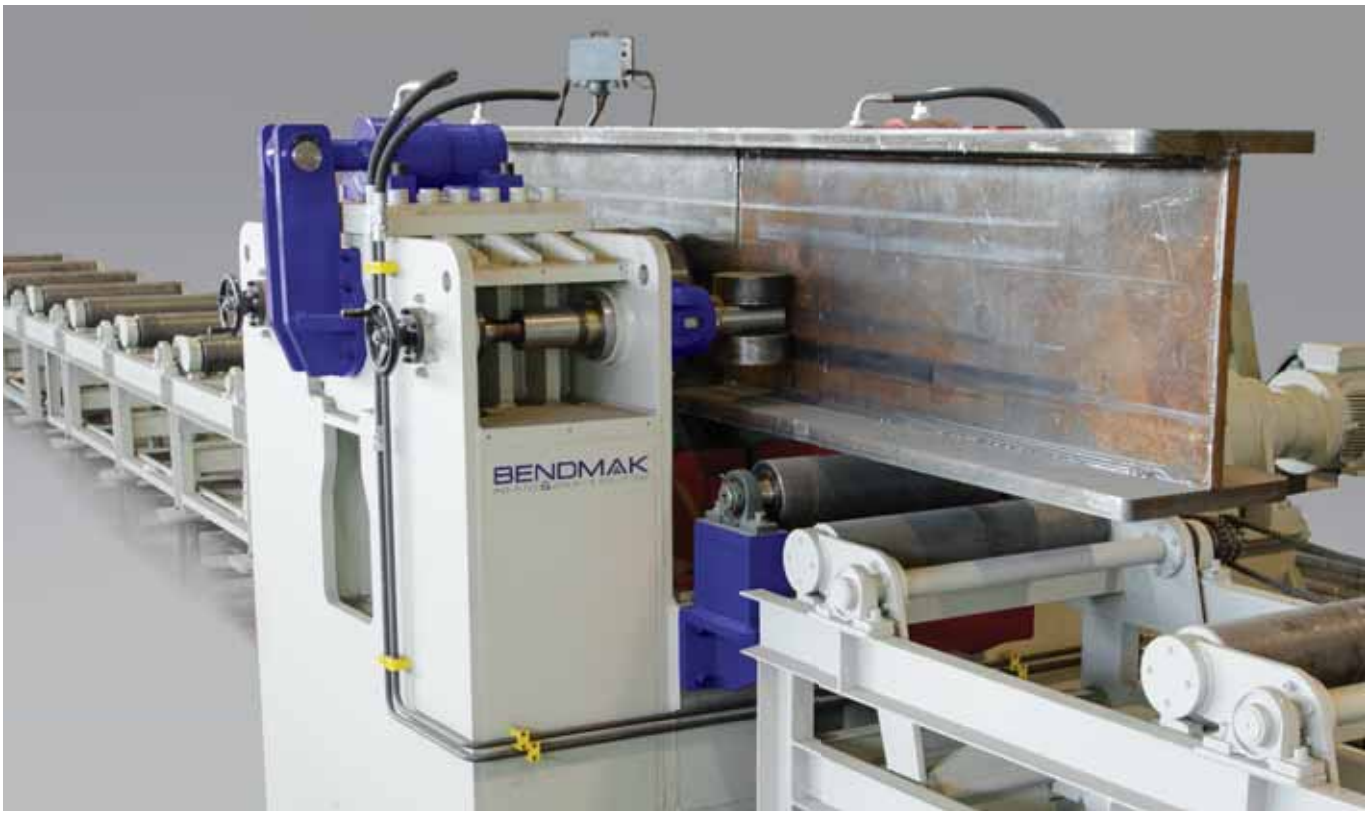


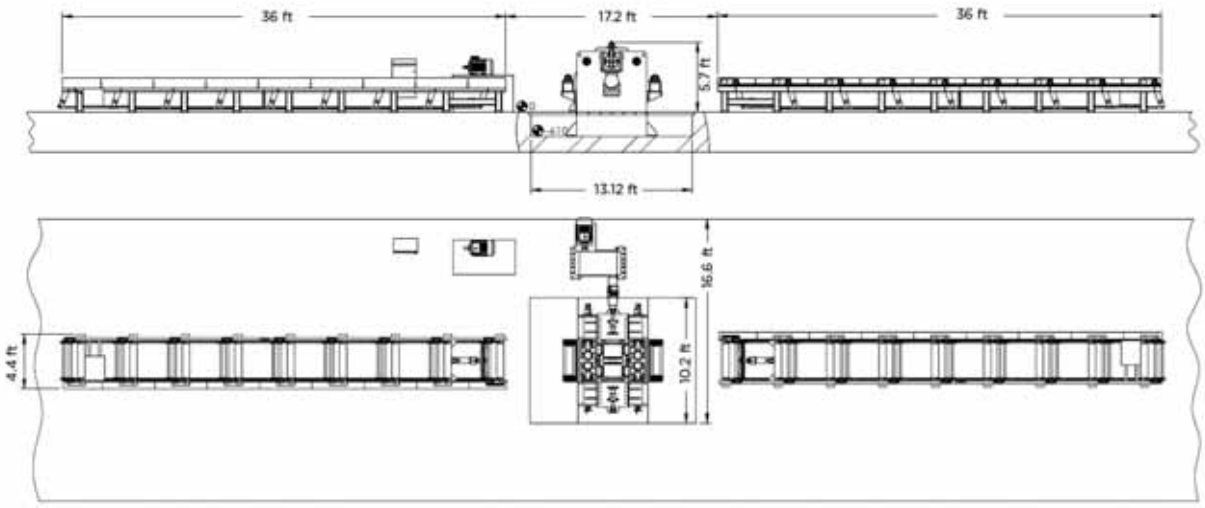


MODEL	Beam Height (inch)	Beam Width (inch)	Upper-Lower Flange Thickness (inch)	Web Thickness (inch)	Beam Length (inch)	Maximum Material Weight (lbs/ft)	Maximum Cylinder Stroke (inch)	Maximum Cylinder Force (ton-short)	Max. Beam Conveyance Speed (ft/min)	Welding Speed (ft/min)	Beam Types to be Welded	Welding Technology
	H	B	t1	t2	L							(SubMerged)
BHW 1200x600	8-47	6-23	1/4-2	3/16 - 1-3/16	Customer Specific	600	41,3	6,6	40	0,15-2,1 0,5-6,9	H,I,T,L	(Single Wire) DC (Twin Wire) DC Tandem Ark (Arc) AC/DC
BHW 2000x1000	8-79	6-40	5/16 - 2-3/8	1/4 - 1-9/16	Customer Specific	670	74,8	9,9	40	0,15-2,1 0,5-6,9	H,I,T,L	(Single Wire) DC (Twin Wire) DC Tandem Ark (Arc) AC/DC

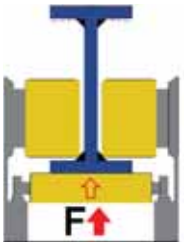
Bendmak reserves the right to change all above specifications without prior notice.

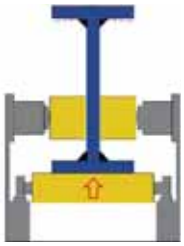
PSB

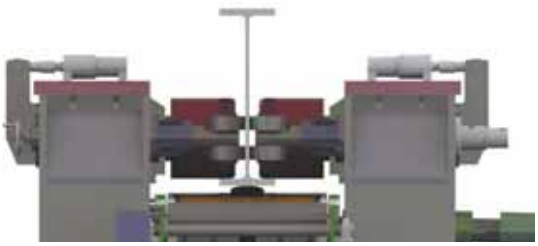




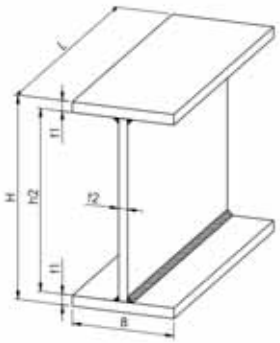
* Can be revised upon customer request.







H BEAM FLANGE STRAIGHTENING MACHINES

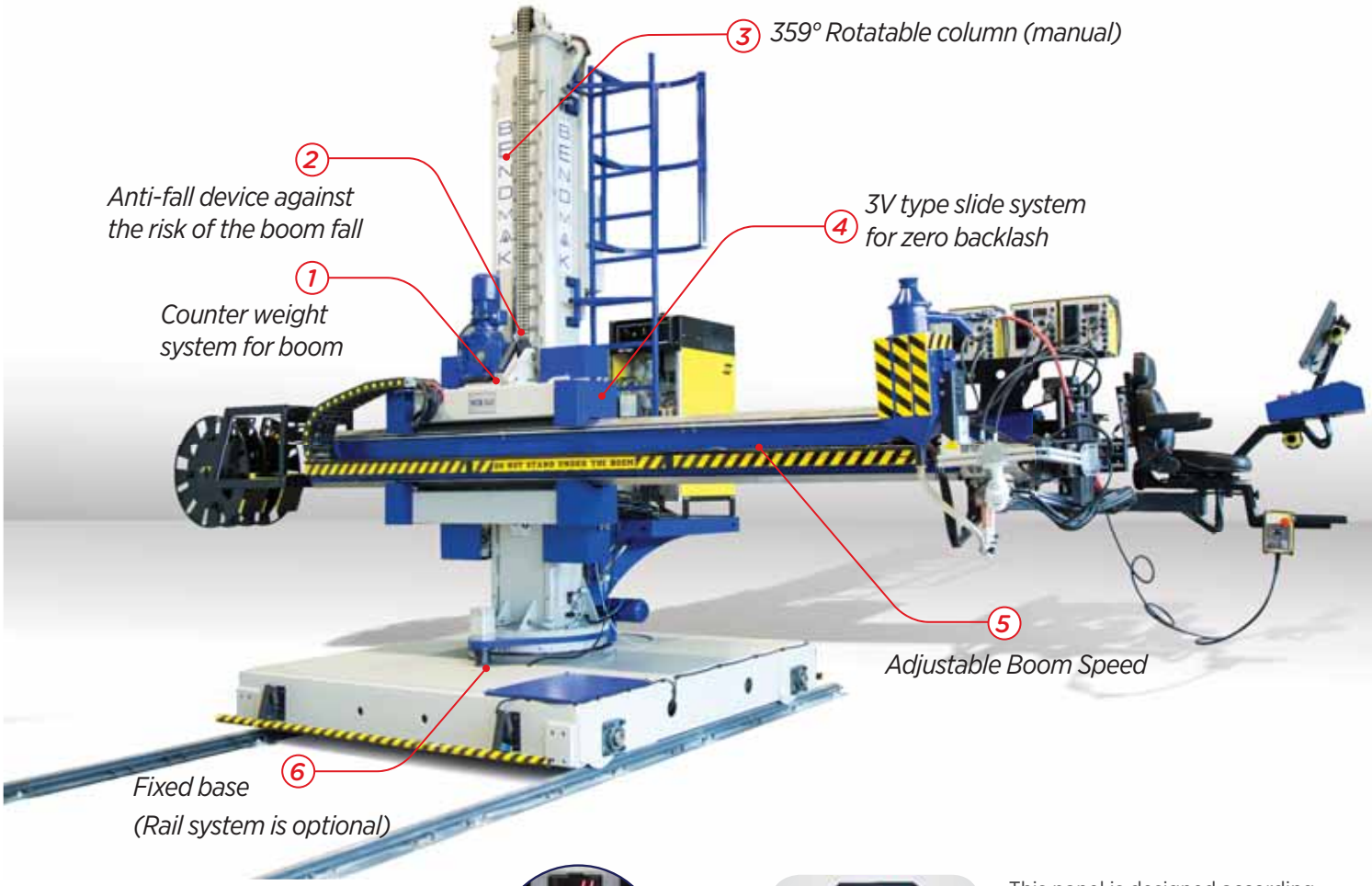


MODEL	Force (ton-short)	Beam Height (inch)	Beam Width (inch)	Beam Length (inch)	Flange Max. Thickness (inch)	Web Thickness (inch)	Web Min. Height (inch)	Tensile Strength of Flange (PSI)	Machine Power (HP)	Straightening Speed (ft/min)	System Pressure (PSI)	Conveyor Length (feet) *	Conveyor Amount (With Drive)	Optional Features	Conveyor Amount (Without Drive)
		H	B	L	t1	t2	h2								
PSB 500	440	Customer Specific	12-40	80-472	3-1/8	3-1/8	20	50.000	65	20	3.626	36	2		2

Data based upon steel 34.800PSI yield point. / BENDMAK reserves the right to change all above specifications without prior notice.

BCH

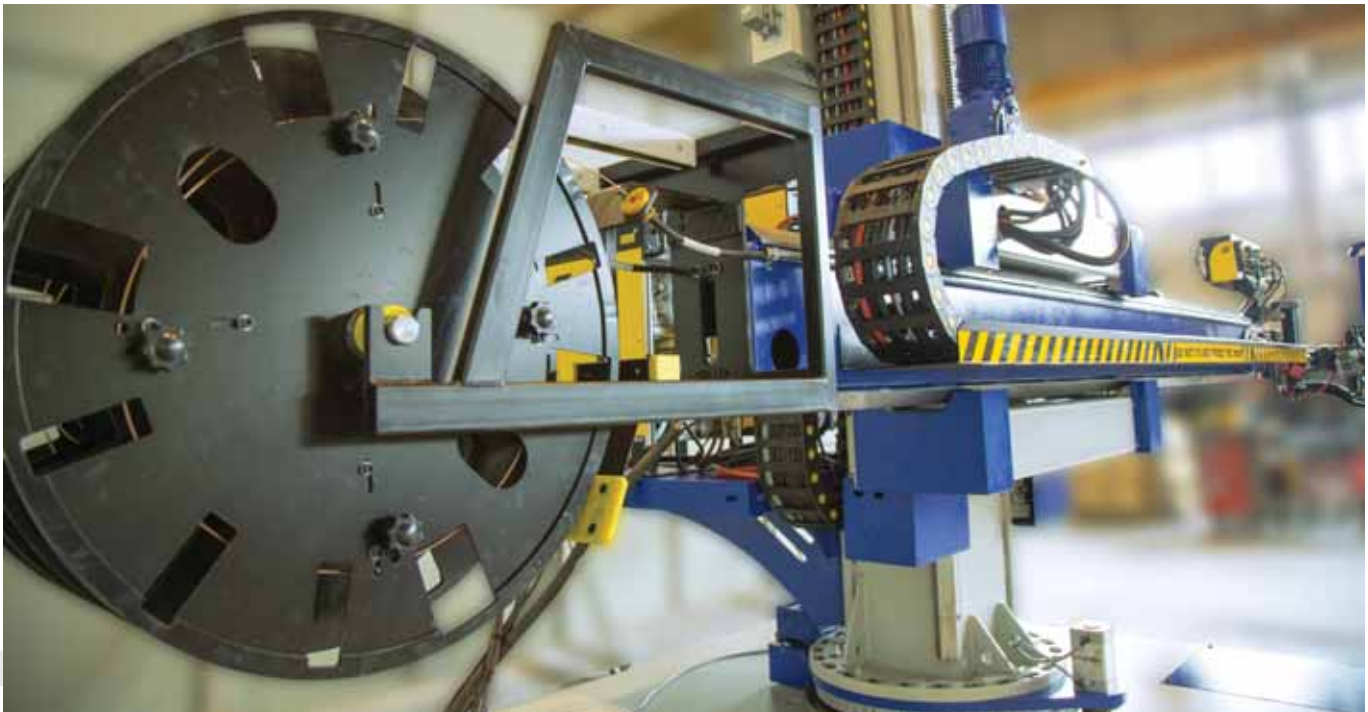
HEAVY DUTY COLUMN BOOM SYSTEMS



Standard control panel

Main Controller Panel

This panel is designed according to customer specific requests so as to column-boom, rotator, positioner and welding machine are all controlled from one point

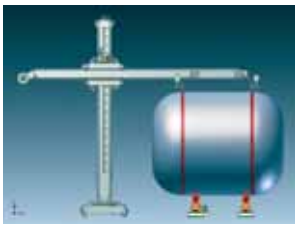


MEDIUM DUTY COLUMN BOOM SYSTEMS

BCM

Standard control panel

Mobile cabled controller (1)



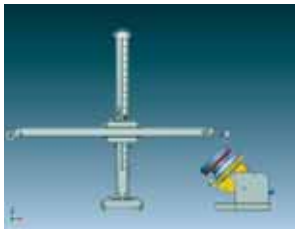
Outer peripheral welding by using the double welding head (with the rotator)

Inner linear welding (by the movement of the boom)

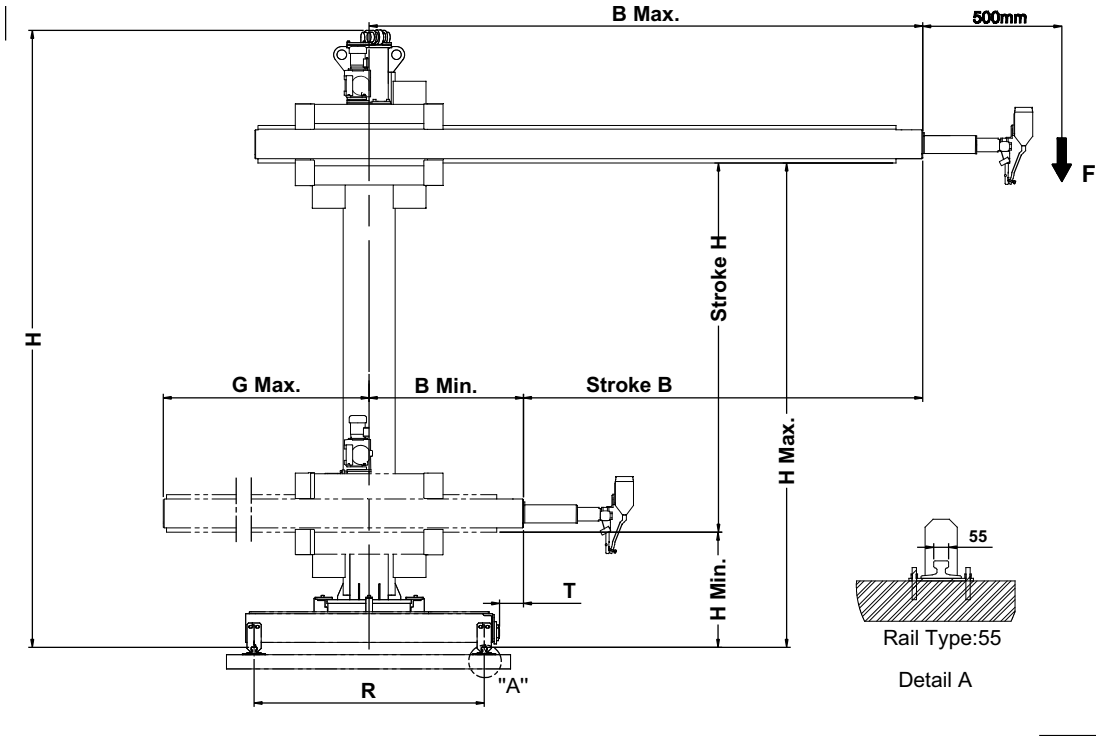
Outer peripheral welding (with the rotator)

Inner peripheral welding (with the rotator)

Outer linear welding (by the movement of the boom)



Circular flange welding (with the positioner)



Welding Types | *SUBMERGED, MIG, MAG*

OPTIONAL ACCESSORIES

- Central control panel
- Laser track following system
- Camera tracking system
- Lighting
- Synchronous working system with Rotators (with central control panel)
- Walk path (rail system)
- Operator's seat (with ladder option)
- Dust drying system (for SAW)
- 359 ° Rotatable column (with motor)
- Mobile console
- Automation system
- Isolation rated for facility's condition
- Manual controlled torch orientating system
- Mechanical track following system
- Controller stick (Joystick) for torch orientation system
- Oscillator (for Mig only)
- Heavy welding wire hanging group (at back of boom)
- Ladder
- Two head welding system
- Rail system
- Compliance to Atex Certificate

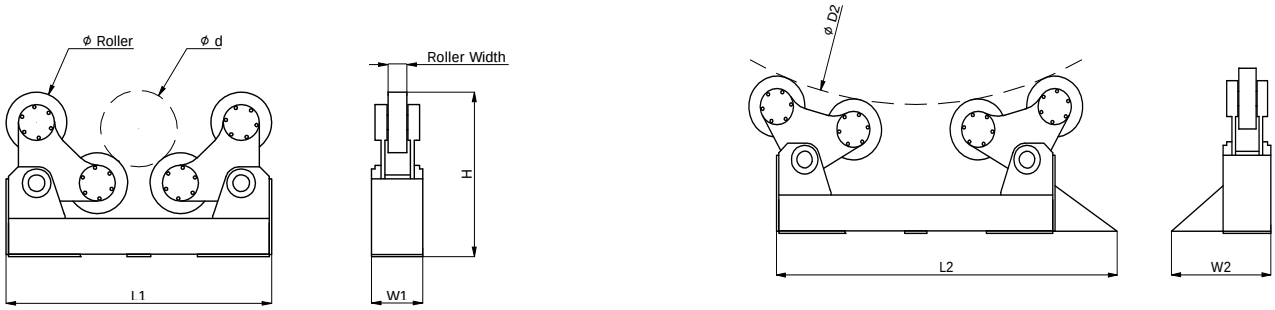
BCH/BCM TECHNICAL INFORMATION

S.N.	MODEL	Max. Load Capacity (lbs)	Min. Height Under boom (inch)	Max. Height Under boom (inch)	Total Height (inch)	Boom Min. Reach (inch)	Boom Max. Reach (inch)	Stroke B (inch)	Boom Rear Max. Reach (inch)	Boom - Carrier Distance (inch)	Rail Axe Distance (inch)	Elevation Speed Up-Down (ft/min)	Boom Travel Speed (ft/min)	Carrier Speed (ft/min)	Column Rotation Angle (°)	Lifting Motor (HP)	Boom / Carrier Motor (HP)
		F	Hmin	Hmax	H	Bmin	Bmax	H / B	Gmax	T	R						
1	**BCM - 3x3**	660	30,7	118,11	167,32	27,36	137,20	86,6 / 109,8	141,73	-190	58,66	6,5	200 - 1500 0,65-4,9	6,5	360	0,55	0,55 / 0,37
2	**BCM - 4x4**	550	30,7	157,48	206,69	27,36	176,57	126,77 / 149,21	181,10	-275	65,16	6,5	0,65-4,9	6,5	360	0,55	0,55 / 0,37
3	**BCM - 5x5**	440	30,7	196,85	246,06	25,39	216,14	166,14 / 190,75	222,44	-325	65,16	6,5	0,65-4,9	6,5	360	0,55	0,55 / 0,37
4	**BCM - 6x6**	330	30,7	236,22	285,43	37,20	265,35	205,51 / 228,15	269,69	-25	65,16	6,5	0,65-4,9	6,5	360	0,55	0,55 / 0,37
5	**BCH - 3x3**	1.320	47,2	118,11	175,20	63,39	152,36	74,8 / 89,17	131,89	245	94,49	7,7	0,65-6,5	6,5	360	1,1	0,55 / 0,37
6	**BCH - 4x4**	1.100	47,2	157,48	214,57	63,39	191,73	114,17 / 128,54	171,26	245	94,49	7,7	0,65-6,5	6,5	360	1,1	0,55 / 0,37
7	**BCH - 5x5**	992	47,2	196,85	253,94	63,39	227,17	151,57 / 163,97	210,63	245	94,49	7,7	0,65-6,5	6,5	360	1,1	0,55 / 0,37
8	**BCH - 6x6**	660	47,2	236,22	291,34	63,39	266,54	192,91 / 203,34	250,00	245	94,49	7,7	0,65-6,5	6,5	360	1,1	0,55 / 0,37
9	**EBCH - 9x6**	660	51,2	354,33	311,02	50,79	278,35	303,22 / 227,36	277,56	-95	94,49	7,7	0,65-6,5	6,5	360	1,1	1,1 / 0,55
10	**EBCH - 9x9**	440	51,2	354,33	429,13	50,79	396,46	303,22 / 345,47	395,67	-95	94,49	7,7	0,65-6,5	6,5	360	1,1	1,1 / 0,55

B-SAR

OPTIONAL ACCESSORIES

- Custom wheel designs for areas that require high temperature
- Support group which prevents axial movement of the parts
- Earthing Brush System
- Carriage System for Transport
- Synchronous operation with column & boom systems
- Compliance to Atex Certificate



B-SAR TECHNICAL INFORMATION

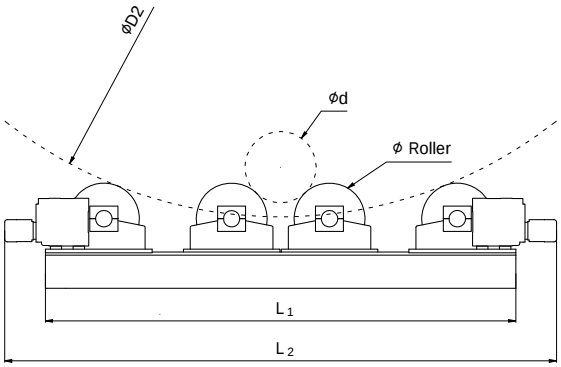
S.N.	MODEL	Load Capacity (lbs.)	Load Capacity per units (lbs.)	Minimum Diameter (inch)	Maximum Diameter (inch)	Roller Diameter (inch)	Roller Width (inch)	Roller Material	Overall Lenght Idler (inch)	Overall Widht Idler (inch)	Overall Lenght Drive (inch)	Overall Widht Drive (inch)	Height Over Rollers (inch)	Motor Power (HP)
				d	D2	Ø			L1	W1	L2	W2	H	
1	**B-SAR - 3**	6.600	3.300	9,25	96,46	10	3,0	Polyurethane	40,94	17,32	52,76	22,44	20,28	1 x 0,5
2	**B-SAR - 5**	11.000	5.500	15,75	118,11	10	3,0	Polyurethane	46,46	18,31	58,27	20,87	20,28	1 x 0,5
3	**B-SAR - 10**	22.000	11.000	17,72	181,10	15	4,0	Polyurethane	79,13	22,83	98,43	28,74	36,61	2 x 0,33
4	**B-SAR - 20**	44.000	22.000	17,72	181,10	15	5,0	Polyurethane	79,53	25,98	102,36	31,50	37,40	2 x 0,74
5	**B-SAR - 30**	66.000	33.000	17,72	204,72	18	5,0	Polyurethane	82,68	26,38	122,05	35,43	39,76	2 x 1
6	**B-SAR - 40**	88.000	44.000	17,72	204,72	18	5,0	Polyurethane	83,46	26,77	125,98	35,43	41,34	2 x 1,5
7	**B-SAR - 50**	110.000	55.000	17,72	204,72	18	6,0	Polyurethane	83,46	27,76	125,98	36,42	41,34	2 x 1,5
8	**B-SAR - 60**	132.000	66.000	19,69	216,54	22	5,0	Polyurethane	102,76	27,76	147,64	39,37	51,57	2 x 1,5
9	**B-SAR - 80**	176.000	88.000	19,69	216,54	22	7,0	Polyurethane	102,76	33,46	147,64	47,24	51,57	2 x 2,0
10	**B-SAR - 100 ***	220.000	110.000	23,62	236,22	22	10,2	Polyurethane	114,17	35,43	173,23	49,21	51,97	2 x 3,0
11	**B-SAR - 150 ***	330.000	165.000	23,62	236,22	22	12,2	Polyurethane	118,90	47,24	177,17	64,96	54,53	1 x 7,4
12	**B-SAR - 200 ***	440.000	220.000	39,37	275,59	22	14,2	Polyurethane	129,92	49,21	190,94	66,93	55,71	2 x 10
13	**B-SAR - 300 ***	660.000	330.000	39,37	275,59	22	8,0	Steel	129,92	41,34	194,88	61,02	55,71	2 x 10

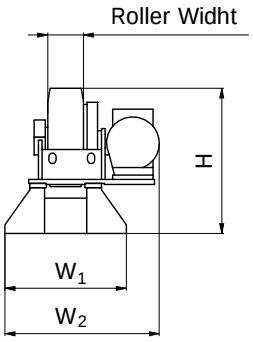
* Steel or PU Roller version optional

BCR

OPTIONAL ACCESSORIES

- Custom wheel designs for areas that require high temperature
- Automatic diameter / wheel axis adjustments (motor driven with worm gear spindle)
- Axial movement on rail (automatic /manual)
- Synchronous operation with column & boom systems
- Grounding Brush
- Compliance to Atex Certificate



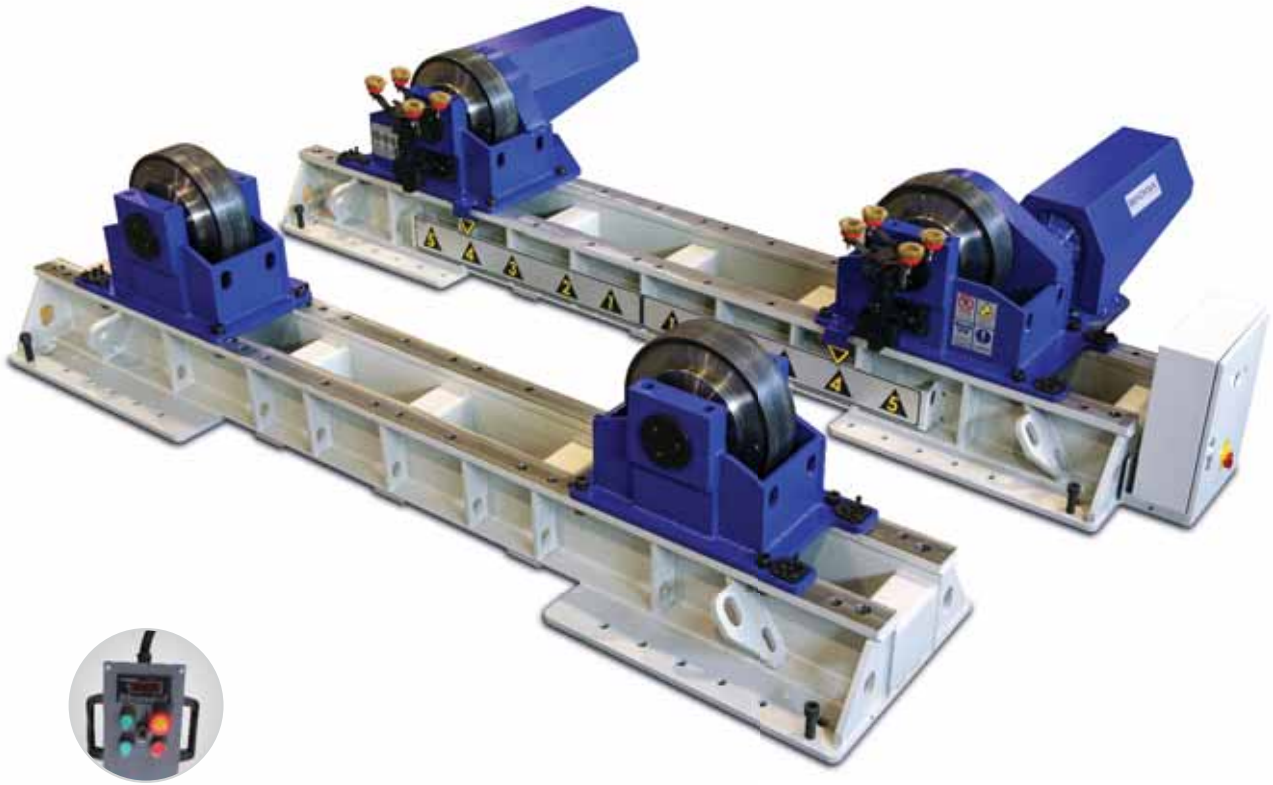


BCR TECHNICAL INFORMATION

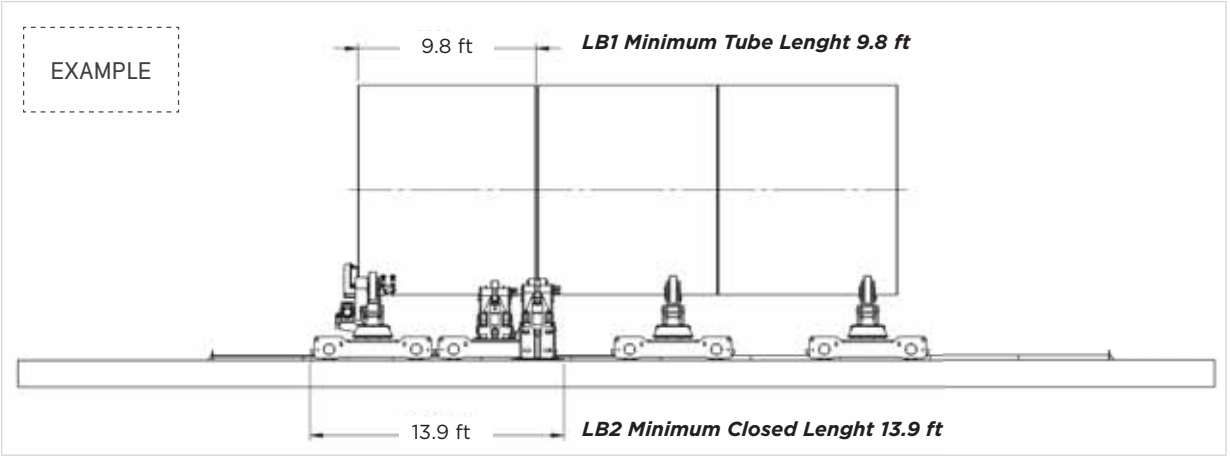
S.N.	MODEL	Load Capacity (lbs.)	Load Capacity per units (lbs.)	Minimum Diameter (inch)	Maximum Diameter (inch)	Roller Diameter (inch)	Roller Width (inch)	Roller Material	Overall Lenght Idler (inch)	Overall Widht Idler (inch)	Overall Lenght Drive (inch)	Overall Widht Drive (inch)	Height Over Rollers (inch)	Motor Power (HP)
				d	D2	Ø			L1	W1	L2	W2	H	
1	BCR - 1	2.200	1.100	7,09	108,27	10,0	3,0	Polyurethane	59,84	16,93	62,99	29,92	14,17	1 x 0,5
2	BCR - 3	6.600	3.300	7,09	108,27	10,0	4,0	Polyurethane	59,84	17,72	62,99	30,71	14,96	1 x 0,5
3	BCR - 5	11.000	5.500	9,84	118,11	15,0	4,0	Polyurethane	78,74	18,90	94,49	23,23	22,05	1 x 0,5
4	BCR - 10	22.000	11.000	9,84	118,11	15,0	4,0	Polyurethane	78,74	18,90	110,24	23,23	22,05	2 x 0,24
5	BCR - 20	44.000	22.000	17,72	181,10	18,0	5,0	Polyurethane	112,60	19,69	112,60	25,98	27,95	2 x 0,55
6	BCR - 30	66.000	33.000	17,72	181,10	18,0	6,0	Polyurethane	112,60	19,69	112,60	25,98	27,95	2 x 0,74
7	BCR - 40	88.000	44.000	20,47	204,72	22,0	7,0	Polyurethane	129,92	27,56	177,17	33,66	33,46	2 x 1
8	BCR - 50	110.000	55.000	20,47	204,72	22,0	8,0	Polyurethane	129,92	27,56	177,17	34,65	33,46	2 x 1,5
9	BCR - 60	132.000	66.000	20,47	204,72	22,0	9,0	Polyurethane	129,92	28,74	177,17	35,83	33,46	2 x 1,5
10	BCR - 80	176.000	88.000	20,47	216,54	22,0	14,3	Polyurethane	129,92	33,86	177,17	41,34	33,46	2 x 1,5
11	BCR - 100 *	220.000	110.000	23,62	236,22	22,0	16,4	Polyurethane	129,92	36,22	192,91	47,24	33,46	2 x 2,0
12	BCR-150 *	330.000	165.000	17,72	236,22	22,0	5,9	Steel	132,68	31,69	169,29	35,43	38,78	2 x 5,4
13	BCR-200 *	440.000	220.000	29,33	275,59	28,0	5,9	Steel	176,77	38,58	194,49	44,88	48,19	2 x 5,4
14	BCR-300 S *	660.000	330.000	40,35	314,96	30,0	7,1	Steel	201,97	43,31	250,87	47,24	53,15	2 x 5,4
15	BCR-300 P *	660.000	330.000	40,35	314,96	30,0	24,4	Polyurethane	201,97	58,46	250,87	63,39	53,15	2 x 5,4

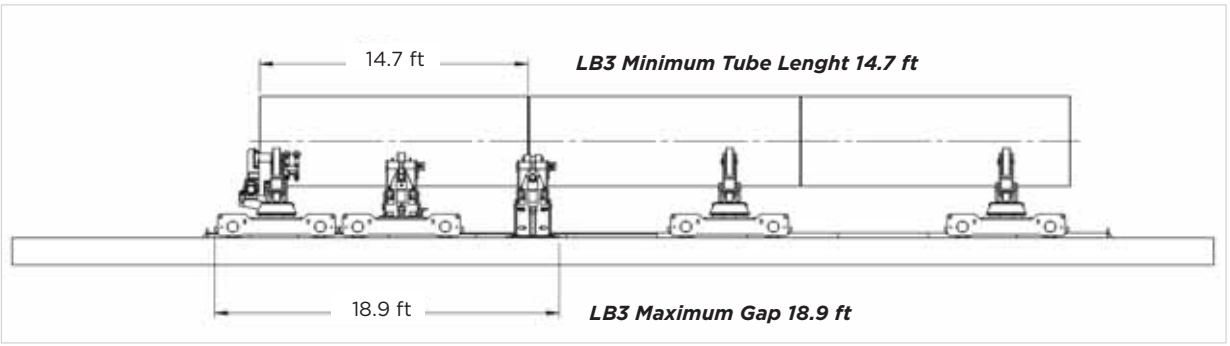
* Steel or PU Roller version available as optional.

B-SFU

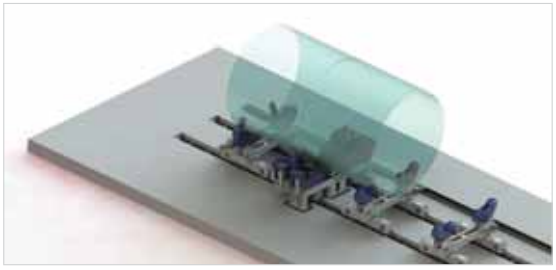


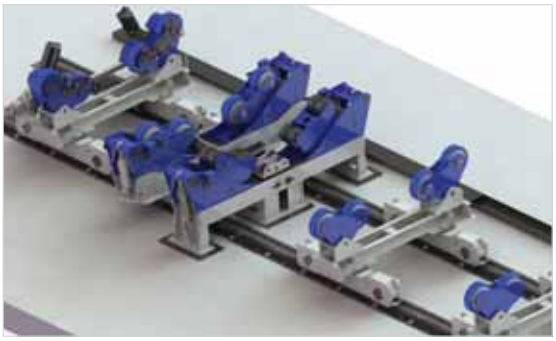
Standard control panel

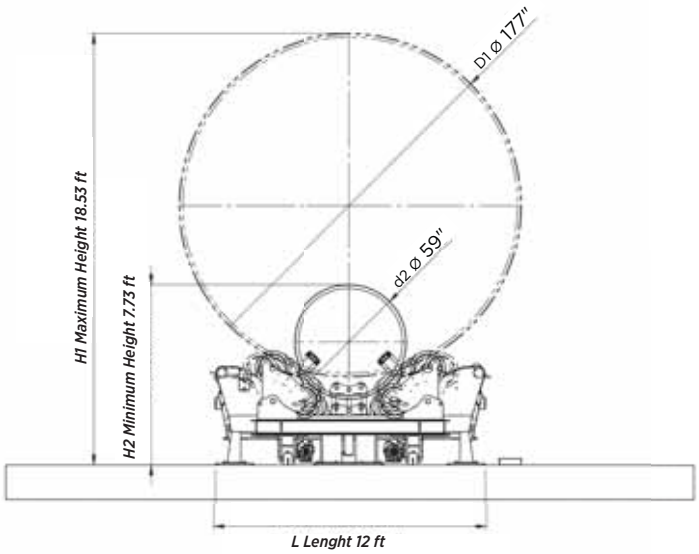




Please ask if different capacity required for your job solutions.



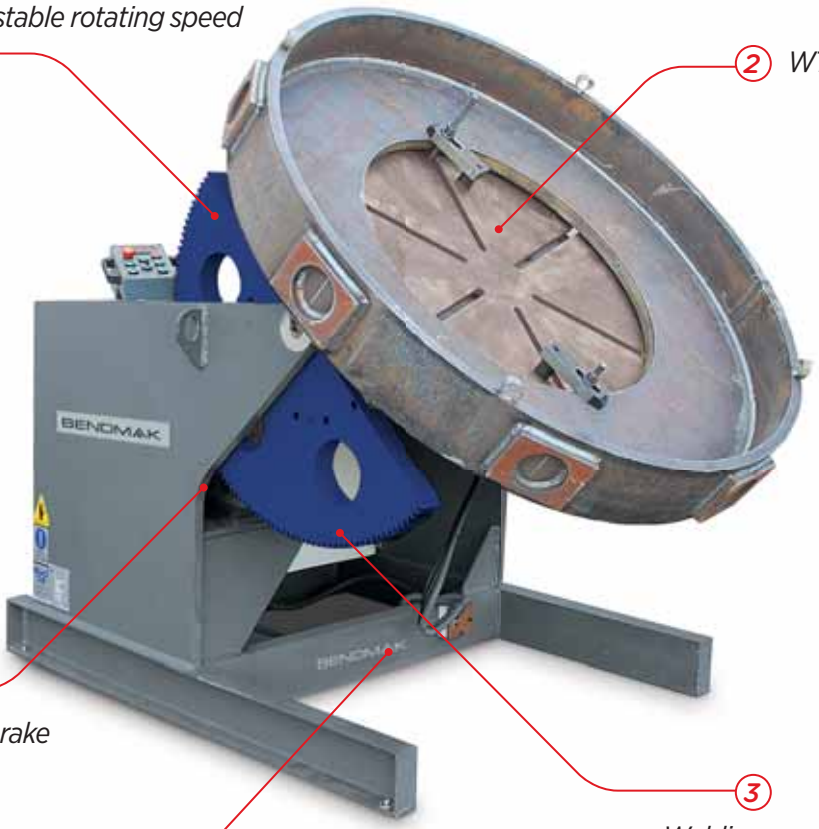




B-SFU FIT-UP TECHNICAL INFORMATION

MODEL	Load Capacity (lbs.)	Maximum Rotation Diameter (inch)	Minimum Rotation Diameter Ø (mm)	Minimum Tube Length (inch)	Maximum Tube Height (inch)	Minimum Tube Height (inch)	Welding Joint Distance (inch)	Rail Center Width (ft)	Floor Height Difference (ft)	Overall Width (inch)
		D	d	L	H	h	A	R	Z	W
B-SFU-5	11.000	120	24	52	108	47	71	40.3	+2.56	100
B-SFU-10	22.000	170	30	77	201	63	114	60.6	+1.97	122
B-SFU-20	44.000	180	30	79	210	64	114	60.6	+1.97	125
B-SFU-30	66.000	205	30	32	194	52	65	65.7	0	136
B-SFU-50	110.000	205	30	40	224	76	178	64.6	+2.36	175
B-SFU-100	220.000	235	40	134	248	71	165	86.6	+2.36	189

B-SRP



Standart control panel

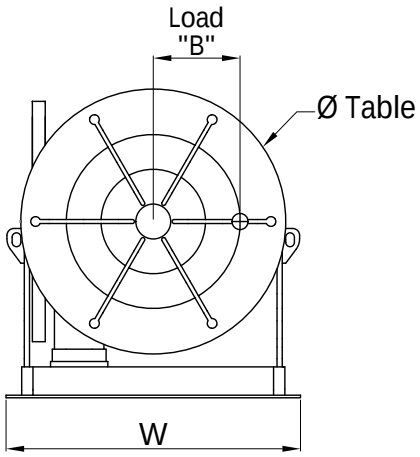
5 Digital speed indicator for monitoring rotation from control panel

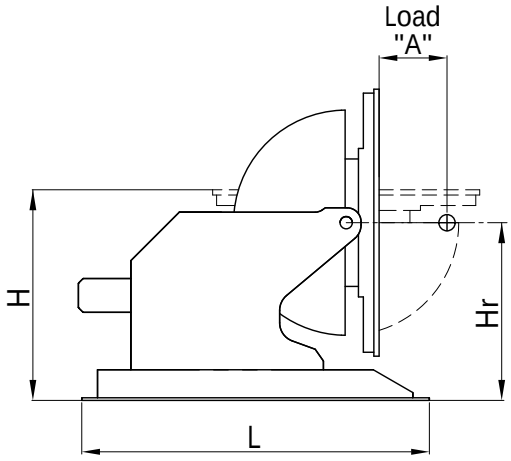
6 Remote controller with 5 meter cable length

B-SRP 15

OPTIONAL ACCESSORIES

- Programmable automation control
- Synchronous operation with column & boom systems
- Wireless remote controller
- Special insulations for worksite conditions

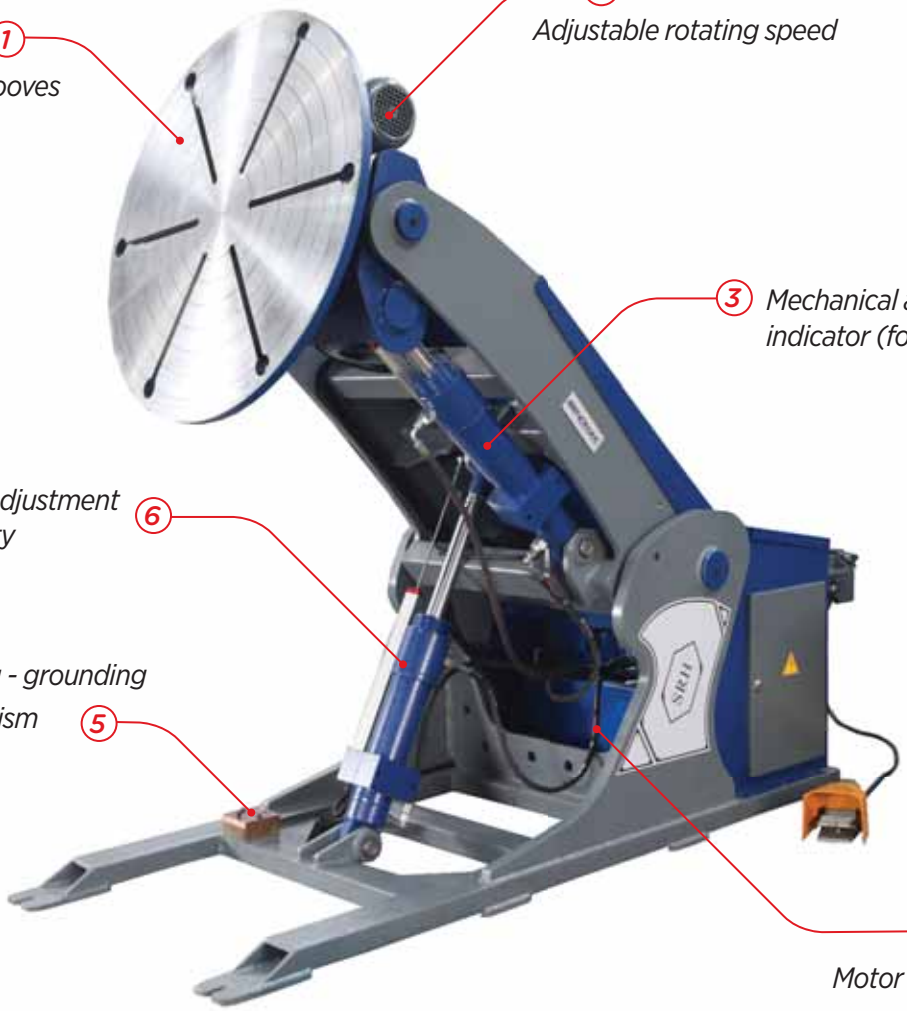




B-SRP TECHNICAL INFORMATION

S.N.	MODEL	Carrying Capacity (lbs)	Max. Frontal loading center (inch)	Max. Side loading center (inch)	Max. table tilting (degree)	Input Power (V)	Rotation Motor (HP)	Tilt Motor (HP)	Table Rotation Speed (RPM)		Tilting Speed (second)	Table Diameter (inch)	T - Slots (number-angle)	Height of Horizontal Rotation (inch)	Lenght Overall (inch)	Height Overall (inch)	Widht Overall (inch)	Earthing (Amp.)
			A	B					min	max		Ø		Hr	L	H	W	
1	**B-SRP - 015**	330	3,9	3,9	90	380	0,3	0,3	0,4	2,1	8	19,7	5-72	27,6	31,5	37,4	27,6	300
2	**B-SRP - 050**	1.100	3,9	3,9	135	380	0,3	0,3	0,17	0,58	30	27,6	6-60	31,6	52,4	37,4	31,5	300
3	**B-SRP - 1**	2.200	5,9	5,9	135	380	0,7	0,7	0,18	1	30	36,2	6-60	33,3	51,6	39,2	39,0	300
4	**B-SRP - 2**	4.400	5,9	5,9	135	380	1,0	1,0	0,05	1	45	41,3	6-60	33,7	59,1	39,8	47,6	300
5	**B-SRP - 3**	6.600	5,9	5,9	135	380	1,5	1,5	0,05	1	45	48,0	6-60	42,9	63,0	48,8	51,2	300
6	**B-SRP - 5**	11.000	11,8	5,9	135	380	2,0	3,0	0,2	1	36	60,0	6-60	40,0	70,9	47,2	60,6	300
7	**B-SRP - 10**	22.000	35,4	11,0	120	380	3,0	5,4	0,19	0,64	75	72,0	6-60	55,5	115,4	91,5	74,2	600
8	**B-SRP - 15**	33.000	19,7	5,9	135	380	4,0	7,4	0,033	0,7	110	86,6	6-60	58,1	126,0	48,8	86,6	300
9	**B-SRP - 20**	44.000	19,7	5,9	135	380	5,4	7,4	0,033	0,7	150	94,5	6-60	60,0	129,9	47,2	96,5	300
10	**B-SRP - 25**	55.000	39,4	3,9	135	380	7,4	10,1	0,013	0,3	220	115,7	12-30	65,0	149,6	54,3	115,7	600
11	**B-SRP - 40**	88.000	-	7,9	0	380	10,1	-	-	-	0	137,8	8-45		137,8	66,1	137,8	600

B-SRH



Standard Control Panel

5 Digital speed indicator for monitoring rotation from control panel

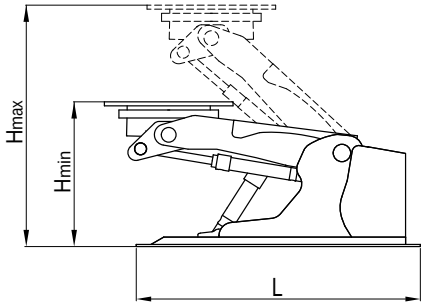
6 emote Controller with 15' cable length

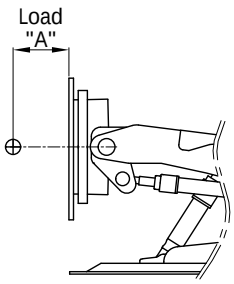
PLC Control Panel

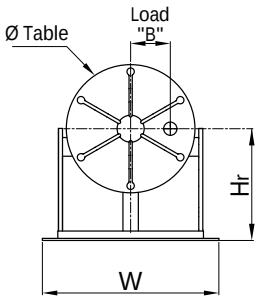
Fix the part
In order to fix the piece working on to the positioner easily, the operator positions the machine.

Take position
Welding area on the piece is positioned at optimum working range.

Weld
The piece is welded by using the proper method. Then the next welding area can be welded easily.







OPTIONAL ACCESSORIES

- Programmable automation control
- To record the positions and programmable main steps
- Synchronous operation with column & boom systems
- Saving programs using a USB memory

B-SRH TECHNICAL INFORMATION

S.N.	MODEL	Carrying Capacity (lbs)	Max. Frontal Loading Center (inch)	Max. Side Loading Center (inch)	Max. Table Tilting (degree)	Input Power (V)	Rotation Motor (HP)	Hydraulic Unit Motor (HP)	Table Rotation Speed (RPM)		Table Diameter (inch)	T - Slots (number-angle)	Lenght Overall (inch)	Hor. Table Height (inch)		Height of Hor. Rotation (inch)	Width (inch)	Earthing (Amp.)
			A	B					Min	Max	Ø		L	Hmin	Hmax	Hr	W	
1	**B-SRH-500**	1.100	5,9	5,9	0-115	380	0,33	1	0.1	1	28,1	6-60	76,8	21,3	43,3	15,4	41,3	500
2	**B-SRH-1000**	2.200	5,9	5,9	0-115	380	0,74	1,5	0.1	0.9	35,4	6-60	94,5	36,6	65,0	28,3	35,4	500
3	**B-SRH-3500**	7.700	5,9	5,9	0-110	380	1,5	2,0	0.1	0.9	37,8	6-60	92,5	42,1	70,9	32,7	53,1	500
4	**B-SRH-7000**	15.400	5,9	5,9	0-110	380	3,0	3,0	0.1	0.9	51,2	5-72	110,2	40,9	68,5	33,5	61,0	500
5	**B-SRH-15000**	33.000	5,9	5,9	0-90	380	5,4	5,4	0.1	0.9	63,0	6-60	137,8	59,1	92,5	44,7	76,8	500
6	**B-SRH-25000**	55.000	5,9	5,9	0-90	380	7,4	7,4	0.1	0.8	78,7	8-45	157,5	63,0	157,5	51,2	82,7	500
7	**B-SRH-35000**	77.000	5,9	5,9	0-90	380	10	10	0.1	0.8	78,7	8-45	177,2	78,7	169,3	66,9	86,6	500

BZR

Synchronized or independent working (for angular height adjustment)

Automatic closure of chain lever arms when a workpiece loaded.

3

4

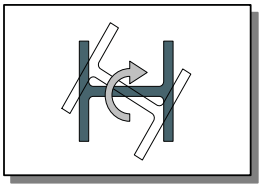
5 *Sturdy chain gear structure*

2 *The number of units can be increased*

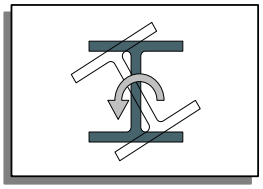
6 *Synchronized or independent working (for angular height adjustment)*

1 *Self-locking reducer setup*

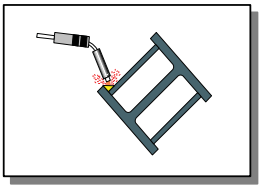
7 *Remote controller with 15 feet cable length*



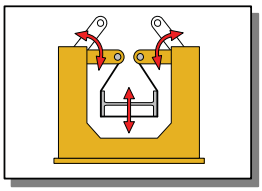
COCKWISE ROTATION



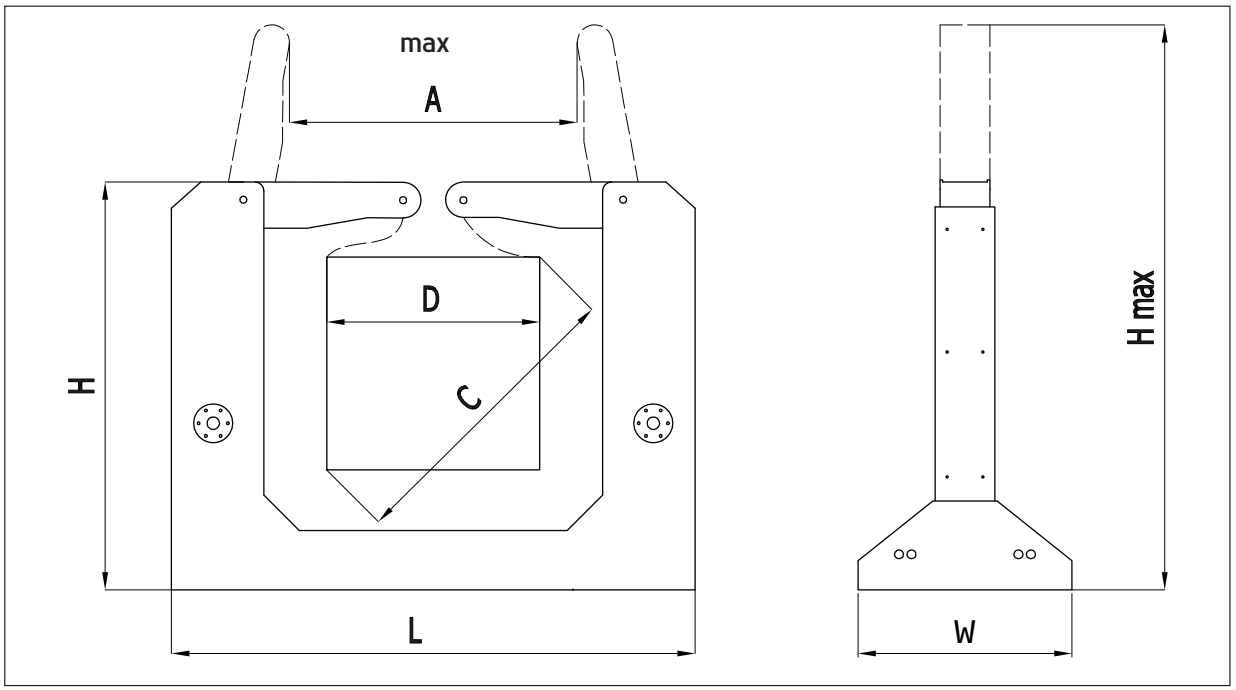
COUNTERCLOCKWISE ROTATION



CREATING THE REQUIRED WELDING EDGE



ADJUSTING THE HEIGHT



BZR TECHNICAL INFORMATION

S.N.	MODEL	Load capacity (lbs)	Rotating capacity (inch)	Working length (inch)	Length overall (inch)	Width overall (inch)	Height (inch)	Overall Height (inch)	Distance between the rolls (inch)	Rotation speed (rpm)	Rotation Motor (HP)
			D	C	L	W	H	H max	A max		
1	**BZR - 600**	13.000	23,6	33,5	63,0	31,5	51,2	68,9	29,5	5	4 x 1,5
2	**BZR - 1000**	13.000	39,4	57,1	80,7	39,4	66,9	96,5	45,3	5	4 x 1,5
3	**BZR - 1200**	26.000	47,2	68,9	108,3	47,2	82,7	118,1	53,1	4	4 x 2,0
4	**BZR - 1500**	26.000	59,1	84,6	131,9	54,3	110,2	149,6	65,0	4	4 x 2,0
5	**BZR - 2000**	26.000	78,7	112,2	177,2	72,8	147,6	192,9	84,6	4	4 x 2,0

BHR

3 Angle adjustment of rope arms (Hydraulically)

2 The number of units can be increased

4 Material-friendly (endless) ropes

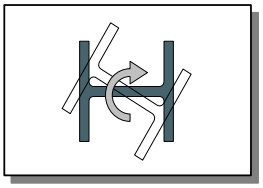
5 Hydraulic Unit for effortless run

6 Drive system with hydromotor

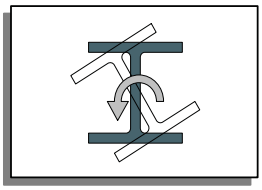
1 Synchronized or independent working (for angular height adjustment)

7 Carrier lifts

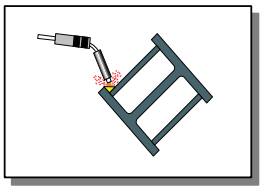
8 Remote controller with 15 feet cable length



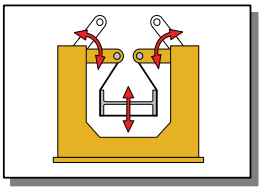
COCKWISE ROTATION



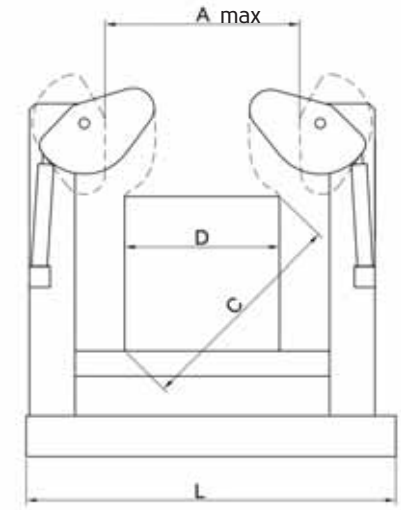
COUNTERCLOCKWISE ROTATION

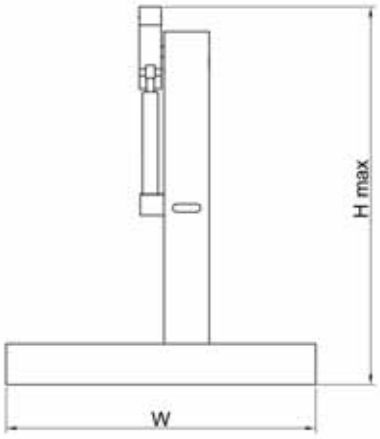


CREATING THE REQUIRED WELDING EDGE



ADJUSTING THE HEIGHT



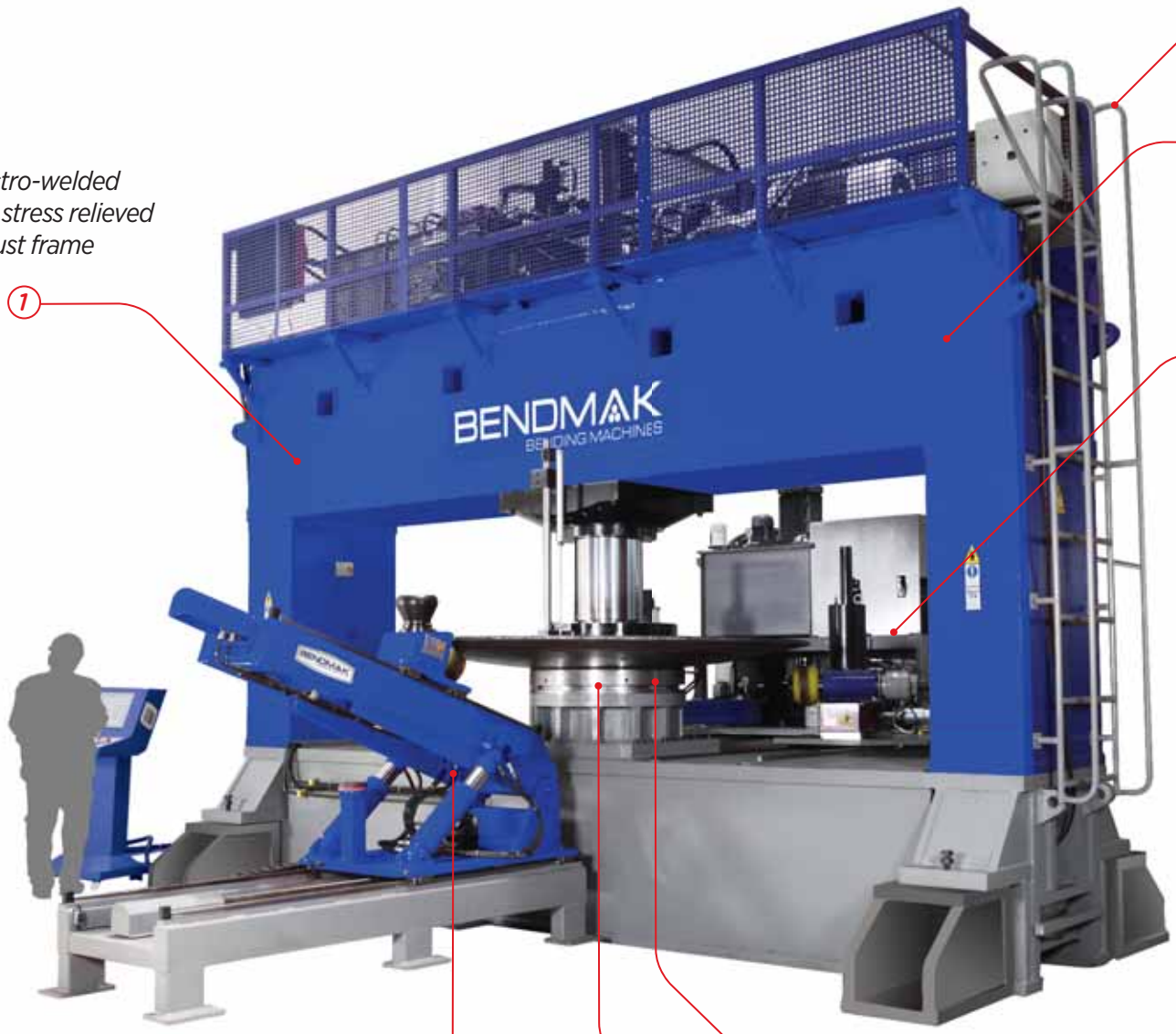


BHR TECHNICAL INFORMATION

S.N.	MODEL	Overall Load Capacity (lbs)	Rotating capacity (inch)	Working Width (inch)	Width (inch)	Length (inch)	Height (inch)	Distance between the rolls (inch)	Material Rotation Speed (RPM)	Power Pack Motor Amount and Power (HP)	Total Weight (lbs)	Input Power (V)
			D	C	W	L	Hmax	Amax				
1	**BHR-2500**	5.500	17,7 - 29,5	25,2 - 41,73	59,06	70,87	76,77	37,40	3	2x4,0	2.866	380
2	**BHR-10000**	22.000	39,37	55,5	66,54	100,79	93,11	40,16	1	2x4,0	7.718	380

Note: The rope rotator consists of two units. The carrying capacity of one unit is half of the total weight in the table above.
The BHR-1000 model is non-wheeled and the BHR-2500 model is wheeled.

DPB-P



Electro-welded and stress relieved robust frame

1

5 *Up to 50% reduced labor thanks to the bigger size dies.*

6 *Dies made of special steel and heat-treated*

7 *Easy utilization of cylinder and manipulator and easy management of all diagnostics and alarms for all functions.*

2 *Safety barriers and a stair which allows for maintenance on the machine*

3 *A special primer is applied for a long term corrosion resistance*

4 *Self-lubricating components for longer lifetime*

FMB

Knucle roll driven by radial piston hydraulic motor for high speed and torque (4)

A special primer is applied for a long term corrosion resistance (3)

Up and bottom head holders driven hydraulically (2)

Centralized lubrication system (1)

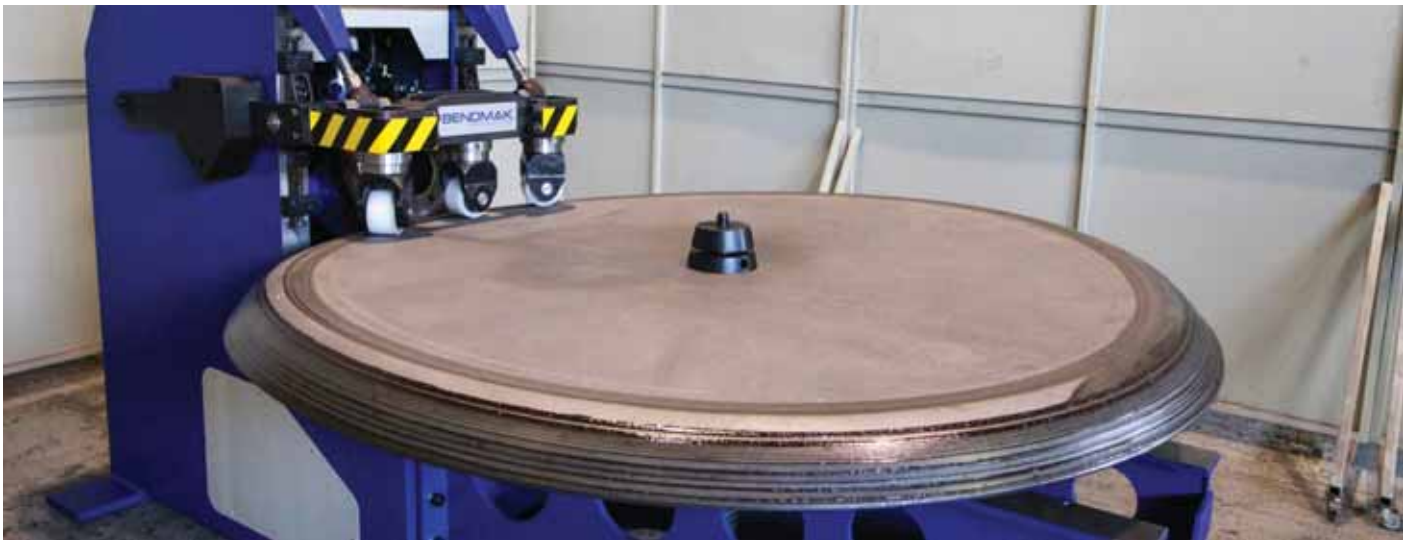
(5) *Dies made of special steel and heat-treated*

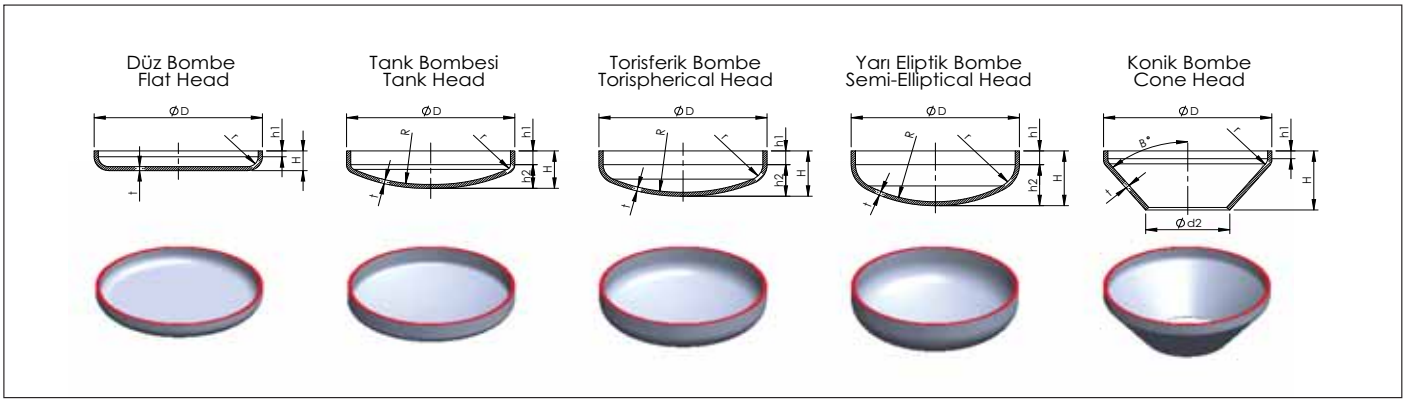
(6) *Electro-welded and stress relieved robust frame.*

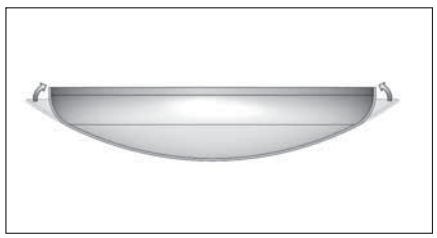
(7) *Hydraulic bottom support rolls*

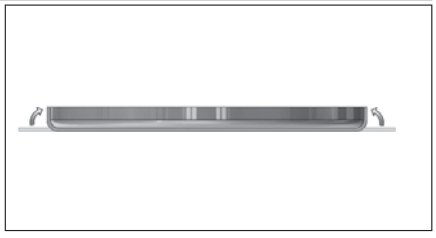
(8) *Flanging roll driven by three cylinders for vertical and horizontal directions and moves between two main frames.*

Automatic Flanging System (also called CNC)









Each model of machine is available in different dimensions according to upon request.
Data based upon steel 34.800PSI yield point. / All specifications are subject to change without notice.

DPB-P

The **DPB-P** models have capacity of power between **150 to 1600 metric** tons and internal distance capacity from **10 to 33 feet.**

FMB

Diameter range | **10 to 33 feet**

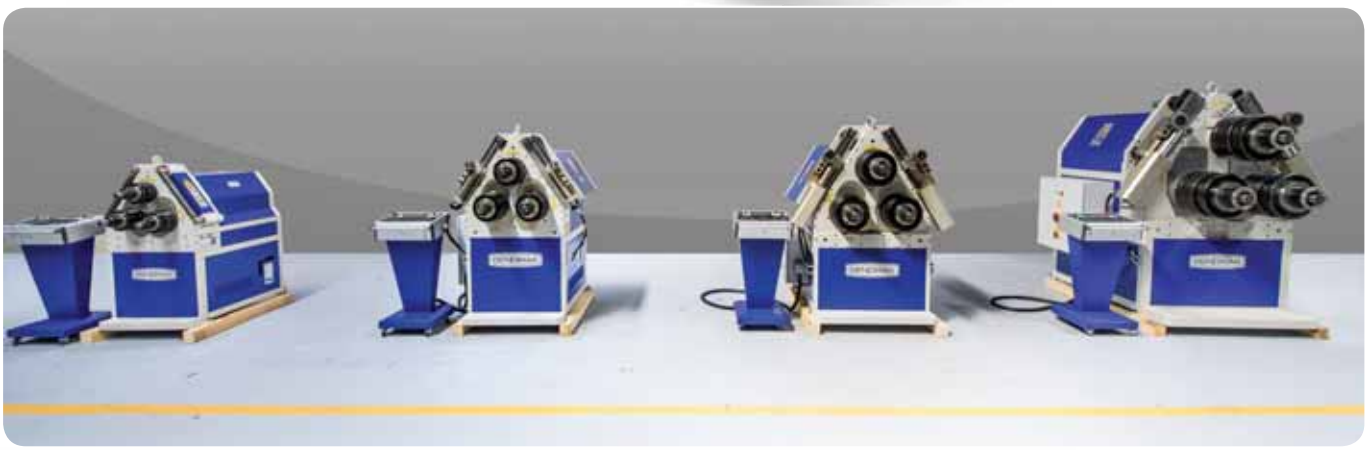
Thickness range | **14ga.-2” cold, 4” hot!**

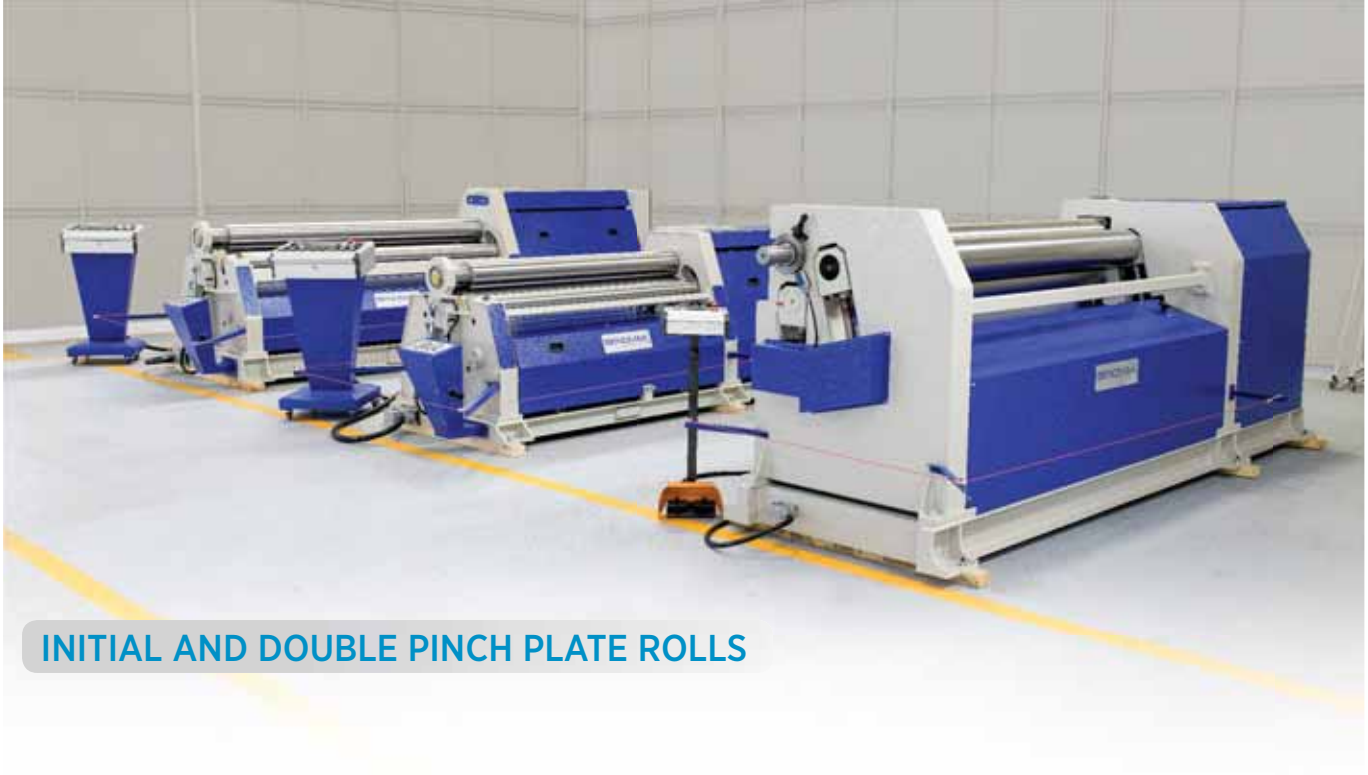
Models with or without center hole available

DISHING & FLANGING MACHINES

APPLICATION AREAS

ANGLE BENDING ROLLS





INITIAL AND DOUBLE PINCH PLATE ROLLS

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