

CPD55 BA55



Curvatrici

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TECHNICAL DATA		CPD55	BA55
Geometry		DOUBLE	DOUBLE
Shafts diameter	mm	55	55
Driven rolls		-	
Rolls diameter	mm	180	
Dimensions	cm	89x114x124	89x115x126 57x66x112
Distance between rolls	mm	417	417
Shafts length	mm	120	120
Max profile width (std rolls)	mm		
Section modulus Wt	cm ³		
Shafts speed	rpm	10	20
Variable rolling speed			
Cylinder thrust	kg	15200	15200
Working Pressure	bar	190	190
Installed power	kW	2.2-3	2.2-5.5 0.18
Approximate weight	kg	740-30	740-104
Roller position control		DPI0	
Torque limiter			
Forming block Z-block		-	

STANDARD EQUIPMENT

CPD55 comes with a electronic control panel DP7 with functions capable of showing and storing up to 20 bending programs (also by autoteaching) each containing 20 steps (bending roll stop points)



Control console

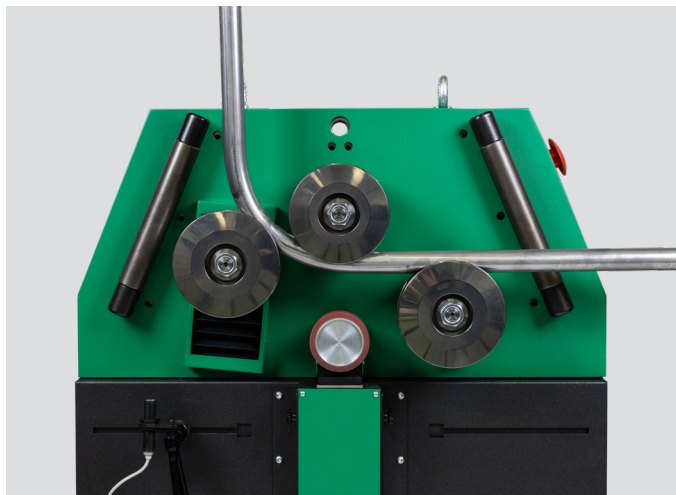
BA55 is equipped with a CNC interface, operated via a personal computer using the PROBENDING® software system.



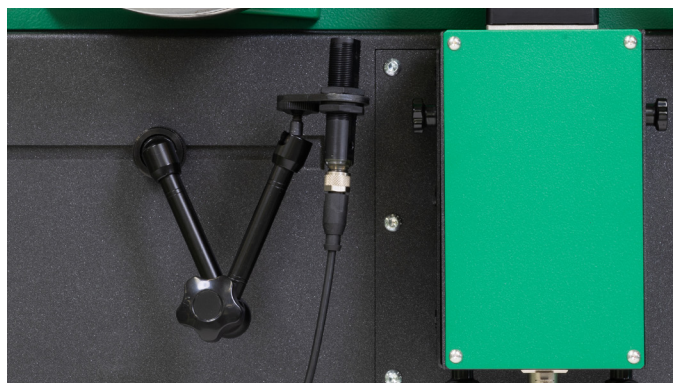
Lateral material guides



Universal bending roll components*



The material presence sensor ensures that each cycle starts from the same position, guaranteeing high repeatability even in high-volume production environments.



* Available only on certain models (refer to the table on the previous pages for details).

FUNCTIONAL FEATURES

ONLY FOR
BA SERIES

The computerized CNC roll bending machine operates in both manual and automatic cycles and includes the Direct Radius feature (BPR PROBENDING multilingual software), allowing the creation of multiple shapes and variable bend radii on the same part. Features include ramp control for acceleration and deceleration, stop and cycle inversion, self-learning / auto-teach mode, semi-automatic mode, mirror mode, and fully automatic mode.



Electronic variable speed control of both the bending roll (up/down) and material feed through the rollers, via manual potentiometers on the console or automatically via program commands.



Bending programs are facilitated by a material and tooling library, which stores information related to both pre-configured shapes (ovals, bows, arches, polygonal forms, etc.) and user-defined programs.

The machine features a dual-cylinder system with linear motion (rather than orbital), ensuring greater precision, stability, and reliability during bending operations. The dual-cylinder configuration allows bending in both directions, increasing operational flexibility and reducing the need for repositioning the workpiece.

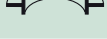
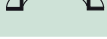


The machine is equipped with an Ethernet port for integration into factory systems in line with Industry 4.0 standards. The software supports the import of DXF files designed in CAD/CAM systems via the integrated USB port. It automatically generates the bending program, reducing setup time and simplifying operations. The USB port also allows for diagnostics, automatic setup, data exchange, and backups using a standard flash drive.



BENDING CAPACITY

CPD55
BA55

	PROFILE	SIZE		MIN. INTERNAL Ø		NOTES
		mm	inch	mm	inch	
1		80x15	3 ^{3/16} x5/8	700	28	
2		110x20	4 ^{5/16} x3/4	400	16	
3		45x45	1 ^{3/4} x1 ^{3/4}	600	24	
4		45x45	1 ^{3/4} x1 ^{3/4}	600	24	
5		70x40x3 70x40x4	2 ^{3/4} x1 ^{9/16} x1/8 2 ^{3/4} x1 ^{9/16} x5/32	1000 1500	39 59	
7		60x60x3	2 ^{3/8} x2 ^{3/8} x1/8	1000	39	
8		70x70x7	2 ^{3/4} x2 ^{3/4} x1/4	600	24	
9		70x70x7	2 ^{3/4} x2 ^{3/4} x1/4	600	24	
10		UPN140 140x60x7	5 ^{1/2} x2 ^{3/8} x1/4	1000	39	
11		UPN140 140x60x7	5 ^{1/2} x2 ^{3/8} x1/4	1000	39	
12		UPN100 100x50x6	4x2x1/4	2000	79	
13		IPE120 120x55x7	4 ^{3/4} x2 ^{3/16} x1/4	2000	79	
14		IPE120 120x55x7	4 ^{3/4} x2 ^{3/16} x1/4	3000	118	
15		Ø45	1 ^{3/4}	600	24	
16		2 ^{1/2} "Gasx3.2 4"Gasx4	2 ^{1/2} x1/8 4x1/8	700 1500	28 59	
17		80x2 120x2	3 ^{3/16} x1/16 4 ^{3/4} x1/16	800 1200	31 47	
18		80x80x10	3 ^{3/16} x3 ^{3/16} x3/8	800	31	
19		80x80x10	3 ^{3/16} x3 ^{3/16} x3/8	900	35	
21		30x15x2 80x40x2	1 ^{3/16} x5/8x1/16 3 ^{3/16} x1 ^{9/16} x1/16	350 1000	14 39	

