

Extrusions and Steel Structural Sections with BIT
Advanced Solution.

30+ years. BIT provides a CNC Profile Bending Machine for big mass-producing profile curved parts. It adopts high accuracy servo hydraulics and motors.



PBC-CNC Profile Bending Machine

- ✓ **CNC System:** User-friendly and precise, offering high-precision bending of identical workpieces with feedback control.
- ✓ **High Torque, Planetary Guide Rail:** Minimal flat ends, excellent pre-bending effect with less power.
- ✓ **Bending Diameter:** Minimum of only 1.1 times the machine top roller diameter.
- ✓ **3 Driver Rolls:** Prevents marks on the material.
- ✓ **3D Support:** Facilitates bending of angles and 3D spirals.
- ✓ **Frame:** CNC machining ensures precision and durability post-welding.



Parameters

Max Bend/Parameter	120	200	300	360	450	500	550	600	700
Flat Bar Profile (in)	3×0.375/HW 7×0.75/EW	4.75×1/HW 10×1.25/EW	6×1.25/HW 10×1.5/EW	7×1.5/HW 14×2/EW	8×2/HW 16×2.5/EW	10×2.75/HW 18×2.75/EW	10×2.75/HW 20×3/EW	12×2.75/HW 20×4/EW	12×3/HW 26×4/EW
Square Bar Profile (in)	2×2	2.75×2.75	3×3	4.5×4.5	5×5	5.75×5.75	6.5×6.5	8×8	9.5×9.5
Circle Pipe Profile (in)	3×0.125	5.5×0.125	6.75×0.25	8.5×0.25	9.5×0.3125	12.75×0.3125	15.75×0.3125	18×0.375	20×0.75
Square Tube Profile (in)	2.5×0.25	4×0.25	4.75×0.3125	6×0.3125	7×0.375	8×0.375	10×0.5	12×0.5	14×0.5
Angle Profile (in)	3×3×0.375/LI 3×3×0.375/LO	4.75×4.75×0.5/LI 4.75×4.75×0.5/LO	5.5×5.5×0.5/LI 5.5×5.5×0.5/LO	6×6×0.75/LI 6×6×0.75/LO	7×7×0.75/LI 7×7×0.75/LO	8×8×0.75/LI 8×8×0.75/LO	8×8×1.125/LI 8×8×1.125/LO	8×8×1.25/LI 8×8×1.25/LO	8×8×1.25/LI 8×8×1.25/LO
Channel Profile (in)	4.75/LI 4.75/LO	8/LI8/LO	12/LI12/LO	14/LI14/LO	18/LI18/LO	20/LI20/LO	22/LI22/LO	24/LI24/LO	28/LI28/LO
T Profile (in)	3×0.375	4×0.375	5×0.625	6×0.75	7×0.75	8×0.75	10×1.125	12×1.125	14×1.125
I Beam Profile (in)	4.75/EW	8/EW 5.5/HW	12/EW 6.25/HW	14/EW 8/HW	18/EW 9.5/HW	20/EW 12.5/HW	22/EW 15.75/HW	24/EW 18/HW	28/EW 20/HW
Sectional Modulus (in³)	1	4.5	8.5	11	15	19.5	24.5	30.5	36.5
Bending Speed (ft/min)	~15	~15	~15	~15	~15	~15	~15	~15	~15
Guide Roll Lift Speed (ft/min)	~5.25	~5.25	~5.25	~5.25	~5.25	~5.25	~5.25	~5.25	~5.25

HW: Hard-Way Bending, **EW:** Easy-Way Bending, **LI:** Leg-In Bending, **LO:** Leg-Out Bending



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Aluminum Bending Machine

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