

Smart, User-Friendly  
Only 6 Hours. Novice to Aluminum Curve Master!



## PBA-CNC Aluminium Bending Machine

With years of experience, BIT're round to be a part of China aluminum bender manufacturing history.

PBA resolves **springback** in just two steps, quickly achieving **precise** workpiece dimensions.

Month to month, consistency in thousands of parts is key, as **PBA machines** achieve repeat accuracy of  $\leq 0.01\text{mm}$  for every bend with **motion controllers** and **servo motors**.

The **ideal aluminum bending** workpiece must be free from deformations or surface defects. Now, you can rely on **BIT's engineers**, who have over **20 years** of unmatched experience designing **aluminum bending tools**.

Model	PBA 500	PBA 500+	PBA 600	PBA 600+	PBA 800	PBA 1000
X-axis						
Max Force X-axis	15T	20T	35T	35T	40T	50T
Repeat Position Accuracy	≤0.004 in	≤0.004 in	≤0.008 in	≤0.004 in	≤0.008 in	0.004 in
Stroke Distance	11.02 ~ 23.62 in	11.02 ~ 23.62 in	15.75 ~ 31.50 in	15.75 ~ 31.50 in	15.75 ~ 31.50 in	17.72 ~ 47.24 in
Max. Insertion Width	4.72 in	4.72 in	7.87 in	7.87 in	7.87 in	9.84 in
Hydraulic Oil Volume	Servo * 1	Servo * 1	60L	Servo * 1	80L	100L
Y-axis						
Shaft Drive	Servo * 1	Servo * 3	Servo * 1	Servo * 3	Servo * 3	Servo * 3
Rolling Speed/Dynamic Speed Control	1 ~ 15 RPM	1 ~ 15 RPM	1 ~ 15 RPM	1 ~ 15 RPM	1 ~ 15 RPM	1 ~ 15 RPM
Max Torque	2600 lb·ft	4400 lb·ft	4400 lb·ft	7400 lb·ft	9300 lb·ft	10300 lb·ft
Shaft Height	7.87 in	7.87 in	9.84 in	9.84 in	9.84 in	11.81 in
Shaft Dia Ø	1.97 in	1.97 in	3.15 in	3.15 in	3.15 in	4.13 in
Deflection Corrector/Supports	3 sets	3 sets	3 sets	3 sets	3 sets	3 sets
Front Shaft Distance	11.02 ~ 23.62 in	11.02 ~ 23.62 in	15.75 ~ 31.50 in	15.75 ~ 31.50 in	15.75 ~ 31.50 in	17.72 ~ 47.24 in
Z-axis/3D Bending *						
CNC-Control / 3D Bending	–	✓	–	✓	–	✓
Force X-axis	–	5 T	–	10 T	–	10 T

Position & Repeat Position Accuracy	–	≤0.004 in	–	≤0.004 in	–	≤0.004 in
Lifting Distance	–	0 ~ 4.7 in	–	0 ~ 5.8 in	–	0 ~ 5.8 in
Driver	–	Servo*2	–	Servo*2	–	Servo*2
Capacity						
Min. Bending Radius	3.94 in	3.94 in	3.94 in	5.91 in	5.91 in	5.91 in
Max. Roller Diameter	9.45 in	9.45 in	9.45 in	15.75 in	15.75 in	23.62 in
Max. Width Bending	4.72 in	4.72 in	5.80 in	7.87 in	7.87 in	9.84 in
Max. Axial Height Bending	7.87 in	7.87 in	7.87 in	9.84 in	9.84 in	11.81 in
General						
Connection	380V 50HZ	380V 50HZ	380V 50HZ	380V 50HZ	380V 50HZ	380V 50HZ
Kw	~4 KW	~7.2 KW	~5 KW	~10 KW	~13 KW	~20 KW
Length / Width / Height	60×50×55 in	60×50×55 in	52×50×55 in	55×52×63 in	55×52×63 in	75×80×70 in
Weight	1984 lb	1984 lb	2645 lb	3968 lb	4409 lb	7275 lb



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## Aluminum Bending Machine

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