CNC BENDING CAPACITY

Amada HFE 3M 100-Tonne Press Brake (×2 Units)

To support high-capacity precision sheet metal manipulation, Hallmark Fabrication operates a dedicated folding line anchored by two synchronized Amada HFE 3M 100-tonne CNC press brakes. These versatile, down-stroking engineering systems provide extreme structural bending consistency across a vast array of material profiles. By running two identical machine setups side-by-side, we maximize production throughput, decrease setup latency, and easily handle parallel high-volume part runs with impeccable angular accuracy.

MACHINE PRESS & CAPACITY SPECIFICATIONS

SPECIFICATION ELEMENT	WORKING RANGE / CAPACITY
Bending Capacity (Press Force)	1000 kN (100 Metric Tonnes) Maximum
Maximum Bending Length	3110 mm (3.1 Metres) Bed Length
Distance Between Frames	2700 mm
Machine Stroke Length	200 mm Open Height Positioning
Throat Depth	420 mm
CNC Control Interface	Amada Intelligent Multi-Axis Graphical Control
Quantity Available	**2 Identical Units (Dual Bending Station Redundancy)**

BENDING APPLICATION RANGE

MATERIAL PROFILE TYPE	BENDING CAPABILITY NOTES
Mild Steel Sheets	High-precision complex boxes, chassis, and heavy bracket steps.
Stainless Steel	Immaculate architectural or structural profile angles.
Aluminium Panels	Large scale enclosures, 3-meter architectural fascia sections, and frameworks.
Multi-Stage Folding	

MATERIAL PROFILE TYPE	BENDING CAPABILITY NOTES
	Side-by-side punch & die setups across the 3.1m bed for multi-bend elements.

ADVANCED BENDING ADVANTAGES

- **Intelligent Crowning Compensation:** Built-in dynamic bed deflection adjustments ensure a perfectly straight, perfectly uniform bend angle across the entire 3-meter length of a sheet plate, removing the canoe effect.
- **Multi-Axis CNC Backgauging:** Automated, rapid-positioning backgauges align sheet placements down to fractions of a millimeter, ensuring perfect flange dimensions on multi-bend pieces.
- **Duplicated Capacity Redundancy:** Operating two identical 100-tonne units gives us the flexibility to run complex staging operations on one machine while concurrently pushing rapid-turnaround urgent prototyping through the other.

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Contact our technical sales team for rapid pricing options, engineering reviews, or lead-time estimates.