AUTOMATED ROBOTIC BENDING

Amada Astro 2 Complete Robotic Press Brake Cell

The Amada Astro 2 Robotic Cell represents the pinnacle of automated, highly repeatable sheet metal bending. Merging a multi-axis bending robot with a high-precision down-stroking press brake, this fully integrated cell handles complex, multi-stage fold profiles flawlessly. It allows Hallmark Fabrication to maintain highly competitive pricing and immaculate consistency on medium-to-high volume part runs through automated tool-handling, loading, and component manipulating.

CELL CAPABILITIES & SPECIFICATION

SYSTEM COMPONENT	TECHNICAL CAPACITY / CAPABILITIES
System Type	Fully Automated Robot Loading, Bending & Unloading Cell
Press Brake Capacity	High-Precision Multi-Axis Press Brake System
Robot Payload / Configuration	Multi-axis handling robot with mechanical and vacuum grippers
Maximum Part Size Capability	Up to 1000 mm × 800 mm sheet size dimensions
Minimum Part Size Capability	150 mm × 150 mm (Ideal for complex internal bracketry)
Maximum Component Weight	Up to 15.0 kg raw material sheet weight
Repeatability Tolerances	Angle precision and linear tolerance to ±0.5° and ±0.15 mm

OPERATIONAL BENEFITS FOR VOLUME PRODUCTION

- **Flawless Part Consistency:** Eliminates human operator positioning variables. The robot accurately places parts against the backgauge sensors every single time, ensuring identical results from part 1 to part 10,000.
- **Complex Fold Manipulation:** Equipped with smart tooling manipulation and material regrip stations, the cell performs deep boxes, multi-angle hems, and intricate internal channels seamlessly.
- **Continuous Batch Production:** Designed for unattended processing, maximizing shopfloor throughput and driving down unit part costs for our clients.

Ready to start your next laser cutting or fabrication project?

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