

EASY-CELL

HIGHLY FLEXIBLE BENDING CELL

PRESS BRAKE
AUTOMATION



WHY EASY-CELL?

- More applications through gripper change
- Automatic programming
- Angle accuracy with Easy-Form® Laser
- Optimal cost per part

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HIGH-PERFORMANCE PRESS BRAKE

Easy-Cell combines a high-performance Easy-Form 80/25 press brake with an industrial Kuka robot. The hydraulic press brake, featuring 80 tons of pressing force and a 2500 mm working length, comes standard with crowning. Quick-acting hydraulic clamping allows quick tool changes.



MORE APPLICATIONS THROUGH GRIPPER CHANGE

The robotic cell features a combination gripper with both suction cups and clamps for small parts. Additional grippers can be provided for bending medium and large parts.

The robotic arm uses an additional swivel function, saving time by reducing the regripping, improving overall cycle time. The software controls the suction cups in the grippers based on part dimensions. Workpieces can range from 100 x 100 mm to 1600 x 1200 mm and weigh up to 25 kg.



AUTOMATIC PROGRAMMING

Powered by LVD's CADMAN-SIM software, Easy-Cell produces workpieces in no time. The software defines all gripper positions, optimises robot movements, prevents collisions and manages all parameters offline. No robot teaching is required.



COMPACT DESIGN

The cell houses a press brake, robot, three input pallets with an inclined plane, center station and four europallets for automatic stacking of finished parts, all within an 8 x 7 m floor space. The regrip station is equipped with eight pneumatic cylinders for part clamping and two movable arms, each with four vacuum suction cups.



ANGLE ACCURACY WITH EASY-FORM® LASER

The Easy-Form Laser angle monitoring system is provided as standard and automatically compensates for material variations such as sheet thickness, strain hardening, and grain direction. The cell guarantees a precise angle from the first bend and maximum quality.



OPTIMAL COST PER PART

Easy-Cell offers high value for the investment. It provides precision bending, automated operation, fast cycle times and automatic programming for optimal cost per part production.



ROBOT OR OPERATOR

The design of the Easy-Cell allows for autonomous or manual production of varying lot sizes. The fingers of the five-axis backgauge are adapted for robotic or manual bending, operating independently for complex parts.