

*Press brake
automation*

DYNA-CELL

HIGH-SPEED BENDING CELL



LVDGROUP.COM

 **LVD**[®]
STRIPPIT

DYNA-CELL

HIGH-SPEED BENDING CELL

Dyna-Cell is a compact, robotic manufacturing cell that produces small to medium components in a fast and cost-efficient manner with top precision.



FAST, ELECTRIC-DRIVE PRESS BRAKE

Dyna-Press Pro 40/15 with 40 tons of pressing force and 59" (1500 mm) working length efficiently bends parts at speeds of up to 1" (25 mm) a second. A five-axis backgauge provides consistent repeatability and accuracy.



PERFECT BENDING, LIGHTWEIGHT KUKA ROBOT

A Kuka industrial robot with a 26 lb (12 kg) payload quickly detects parts and precisely places them in and out of the press brake. When bending a large series of small parts, no operator intervention is required for up to eight hours.



HIGH INPUT AND OUTPUT CAPACITY

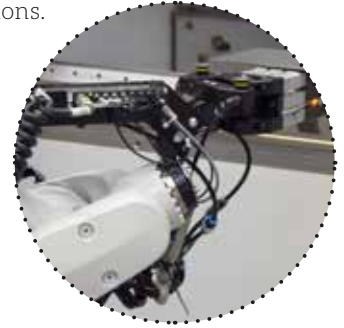
A stacking area provides space for two input pallets or four half euro pallets that have an inclined plane to pre-center the blanks. Finished parts are stacked by the robot on the correct pallet location.





UNIQUE GRIPPER

An extremely agile gripper designed by LVD effortlessly handles different part sizes, bends three flanges without regripping and easily moves between the tool stations.

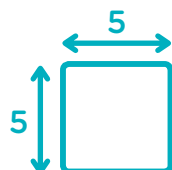
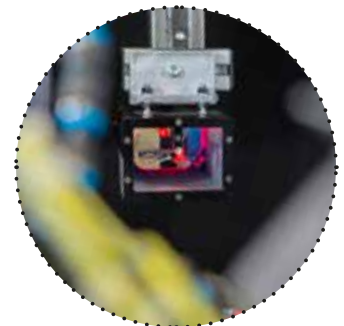


INTUITIVE CONTROL

The 15" Touch-B control enables the operator to create and simulate 3D-designs. The control is compatible with LVD's bending software CADMAN®-B.

SAFETY SYSTEM

IRIS Lazer Safe enhances safety during tool change operations.



SPACE-SAVING DESIGN

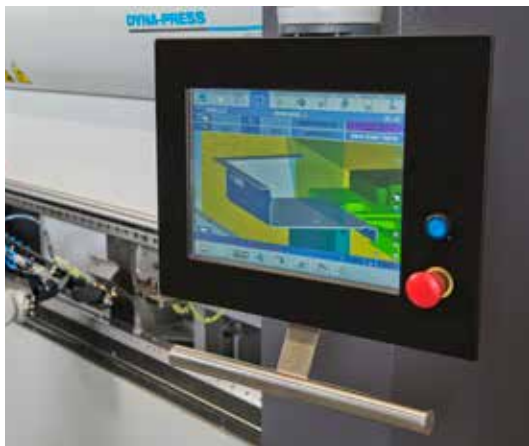
The compact Dyna-Cell requires only 16 ft x 16 ft (5 m x 5 m) of floor space.

COST-EFFICIENT CELL PRODUCTION

UNIVERSAL GRIPPER

The robot features a unique gripper designed and patented by LVD specifically for Dyna-Cell:

- small gripper size makes it easy to access small parts and between tool stations
- bends on three different sides of a part without re-gripping
- suction cups are activated according to part size
- one gripper fits all applications for continuous, uninterrupted production
- handles part sizes from 1" x 3.9" (25 mm x 100 mm) up to 11.8" x 15.7" (300 mm x 400 mm)



10 MINUTES CAM 10 MINUTES SET-UP

Designed for flexibility, Dyna-Cell follows the 10-10 rule:

- 10 minutes for CAM generation of the bending and robot program
- 10 minutes for set-up and first part generation

Even with parts positioned and manipulated by the robot, Dyna-Cell reduces the time from "art" to part. When batch sizes are too small to benefit from robot automation, place the robot in "park" position and use the press brake as normal.

ROBOT OR OPERATOR

Dyna-Cell's design allows for unmanned or manned operation offering a perfect bending solution for small, medium and large batch sizes.

OPTIMUM COST-BENEFIT RATIO

LVD has carefully balanced the automation cost with the machine's price point to ensure optimum cost-benefit ratio.

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