

MULTIFOLD

HIGH-EFFICIENCY PANEL BENDERS



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LVD Multifold panel benders deliver the perfect combination of precision, productivity and reliability, helping manufacturers stay competitive in demanding markets.



BUILT TO PERFORM

Built with a rigid mechanical structure - a robust frame and premium folding beam - Multifold provides long-term accuracy and stable performance.



UNIVERSAL TOOLING SET

Universal servo-operated up-and-down folding blades process a wide range of profiles and various types of bends.



LARGE-SCALE PANELS

Multifold offers high-precision production of large-scale panels, cabinet components, architectural components, shelving, industrial equipment, elevators, steel furniture, fire doors and clean rooms.



FULL AUTOMATION FOR HIGH PRODUCTIVITY

The fully servo-driven system provides precise control over the bending process, including automatic sheet feeding, gauging, tool setting, servo bending, sheet positioning and rotation.



EASY, FLEXIBLE PROGRAMMING

Programming can be done offline using the CADMAN-F panel bender software or directly at the machine.

MAIN INDUSTRIES

FIRE DOORS

LVD Multifold 2111 and 2511 panel benders are designed to meet the strict demands of fire door manufacturing, where precision, consistency and certification compliance are essential.

Complex door and frame designs — including hemming, radius bends and up/down folding — are produced with high accuracy and a flawless finish.



ELECTRICAL ENCLOSURES AND CABINETS

One common aspect of enclosures and control boxes is the requirement for higher bending heights. Multifold 2520 and 2540 produce complex enclosures and control cabinets in a single setup, offering up to 15.7" (400 mm) bending height on a bending length of up to 98.4" (2500 mm).

STEEL FURNITURE

From cabinets and lockers to shelves and office furniture, Multifold 1211 and 2111 produce clean, accurate bends with perfect repeatability — essential for design-driven products. The bending process prevents surface damage, making it ideal for thin-gauge coated and decorative materials.





CLEANROOM PANELS

Multifold 3211 meets the tight tolerances required for large wall panels and ceiling grids. The machine produces perfectly aligned panels up to 9.8 feet (3 m) long. Minimal manual handling helps maintain strict hygiene standards and reduces contamination risks.

AND MANY MORE APPLICATIONS

Thanks to their flexibility, precision and automation, LVD solutions are successfully used across many other industries where high-quality sheet metal bending is essential:

- Data center infrastructure
- Lockers
- HVAC and refrigeration equipment
- Commercial kitchens
- Furniture
- Industrial shelving and storage systems
- Doors, frames and partitions
- Photovoltaic panels
- Elevator panels
- Lighting fixtures
- Acoustic ceiling panels and tiles
- Architectural façade panels
- Trailer components



KEY FEATURES

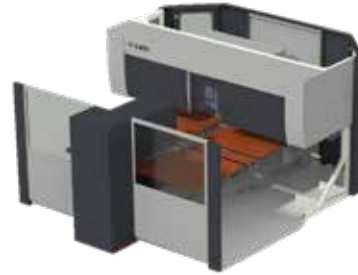
FROM SEMI-AUTOMATIC TO FULLY AUTOMATIC

Semi-Automatic

The ideal balance between automation and operator involvement. Manual loading and unloading combined with automatic sheet handling during the bending process improve ergonomics, safety and process consistency while keeping investment costs under control.

Fully Automatic

From multiple-stack loading to bending and unloading, a fully automated process is the perfect solution for high-volume production environments where maximum productivity, minimal labor dependency and consistent quality are key.



OFFLINE GAUGING

Each sheet is measured at a dedicated automatic gauging station before bending begins. While the current part is being processed, the next blank is measured, minimizing changeover time and maximizing productivity.

INTELLIGENT PART HANDLING

An advanced manipulator with rotating gripper securely holds the sheet, precisely guiding it to the bending tools and controlling its rotation to achieve the correct angle. After the bending sequence is completed, the gripper smoothly returns the finished part, ready for unloading or the next step in the production process.



SMART OPTIONS

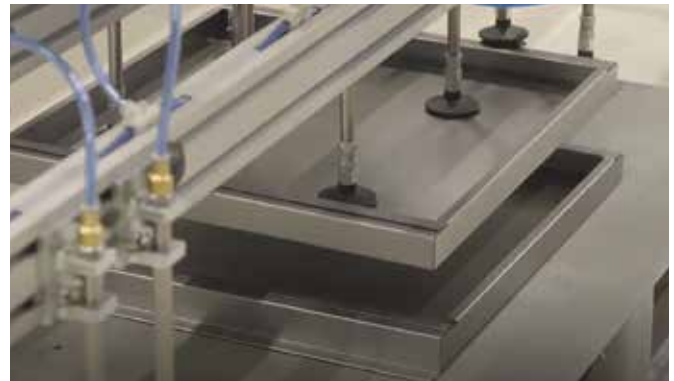
AUTOMATIC PICK-AND-PLACE SYSTEM

The pick-and-place system features a double-sheet sensor. Automatically loads sheets from up to six stack locations onto the auto-feed unit. The ability to vary sizes and thicknesses provides greater flexibility.



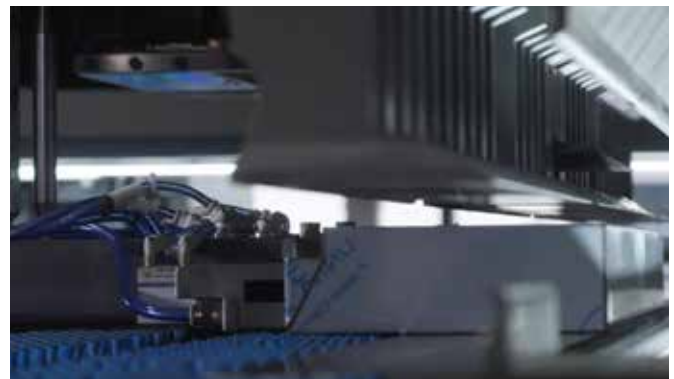
AUTOMATIC OFFLOADING AND STACKING UNIT

Automates part unloading and stacks finished components on two or four pallets. Intelligent stack management optimizes pallet usage.



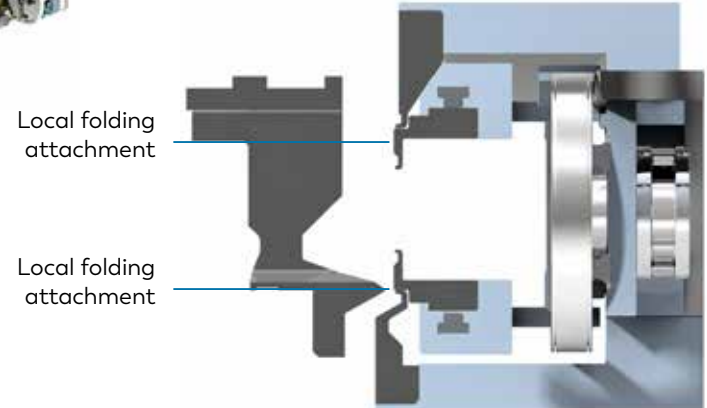
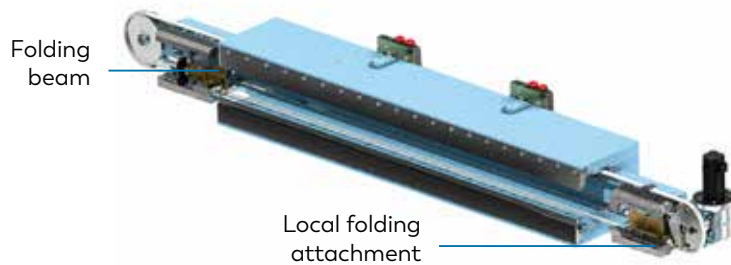
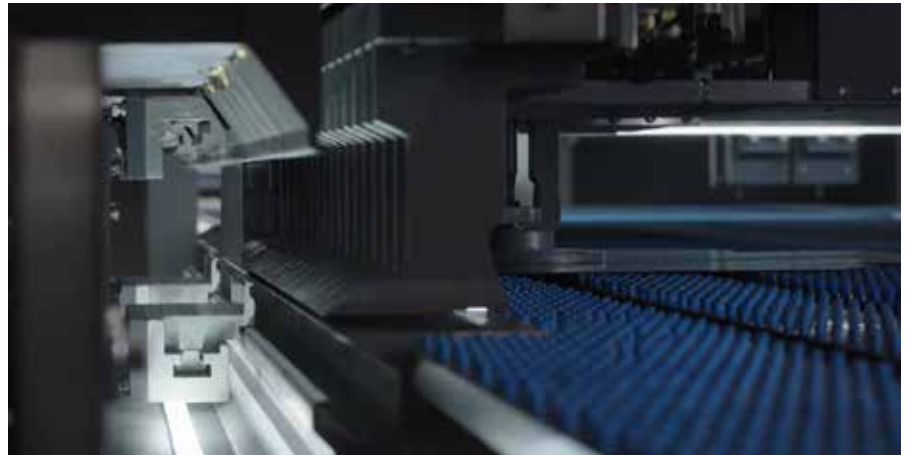
SMALL WIDTH ATTACHMENT

This feature allows narrow parts to be positioned closer to the bending tools. Magnetic or vacuum technology ensures secure and precise part manipulation throughout the bending process.



LOCAL FOLDING ATTACHMENT (LFA)

It is possible to fold specific sections of the sheet without affecting surrounding areas. Ideal for producing complex geometries, special forms and design features that are not feasible with conventional full-length bending.



INDIVIDUAL PART PRODUCTION

Load a single blank directly onto the offline gauging station and start production immediately in individual mode. Perfect for prototypes, one-off parts and urgent production requirements.



ADVANCED TOOLING

An integrated system automatically sets up and changes tools according to the next panel program. The clamping tools securely hold the sheet in position during bending while up-and-down folding blades deliver accurate and high-quality folds.

Multifold panel bender tools can bend any radius:

- positive and negative bends
- open and closed hemming
- up and down hemming
- offset bends
- radius bends
- narrow profiles



Bend profile overview

EFFICIENT SOFTWARE

CADMAN® SOFTWARE SUITE

LVD's CADMAN® software is designed to make panel bending faster, easier and more efficient. It connects programming, operation and production management into one intelligent workflow, helping manufacturers achieve consistent quality with minimal effort.

USER-FRIENDLY PROGRAMMING

An intuitive interface enables operators to quickly create, modify or import programs. Parametric programming allows instant creation of new part variants by adjusting length or width.

CADMAN-F OFFLINE PROGRAMMING

CADMAN-F enables fast and efficient offline programming. Whether you prefer full control to review and optimize every detail or a fast and automated workflow, the choice is yours.

3D CAD models can be imported directly to visualize, validate and prepare parts while the machine is running. This maximizes machine uptime, especially in high-mix environments.

The software automatically calculates the optimal folding sequence and tooling configuration for each job.

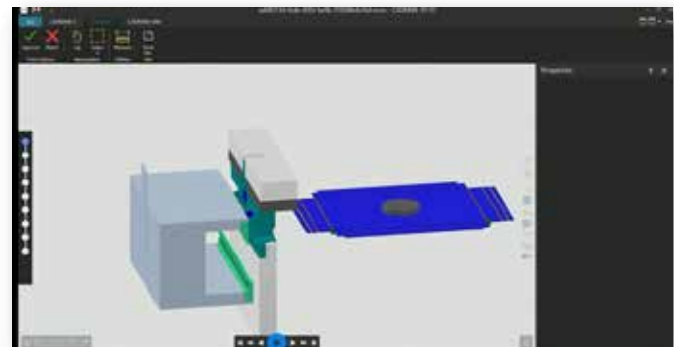


CONNECTIVITY & INTEGRATION

CADMAN integrates seamlessly with CAD/CAM systems, ERP platforms and digital manufacturing environments, supporting connected, data-driven production and Industry 4.0 workflows.



CADMAN-Flow



CADMAN-F 3D

SPECIFICATIONS

MULTIFOLD		1211	2111	2511	2520	2540	3211
Max. bending length	inches	49.21	82.68	98.43	98.43	98.43	125.98
Max. bending height	inches	4.33	4.33	4.33	7.87	15.75	4.33
Max. incoming length	inches	59.05	88.58	106.29	106.29	110.23	133.85
Max. incoming width	inches	49.21	49.21	49.21	49.21	59.05	66.92
Maximum thickness full bending length							
Mild steel	inches	0.047	0.078	0.062	0.098	0.078	0.047
Stainless steel	inches	0.031	0.062	0.047	0.078	0.063	0.031
Aluminum	inches	0.078	0.118	0.098	0.157	0.118	0.078



Multifold 1211



Multifold 2540 – 2-table configuration



Multifold 2511 – 4-table configuration

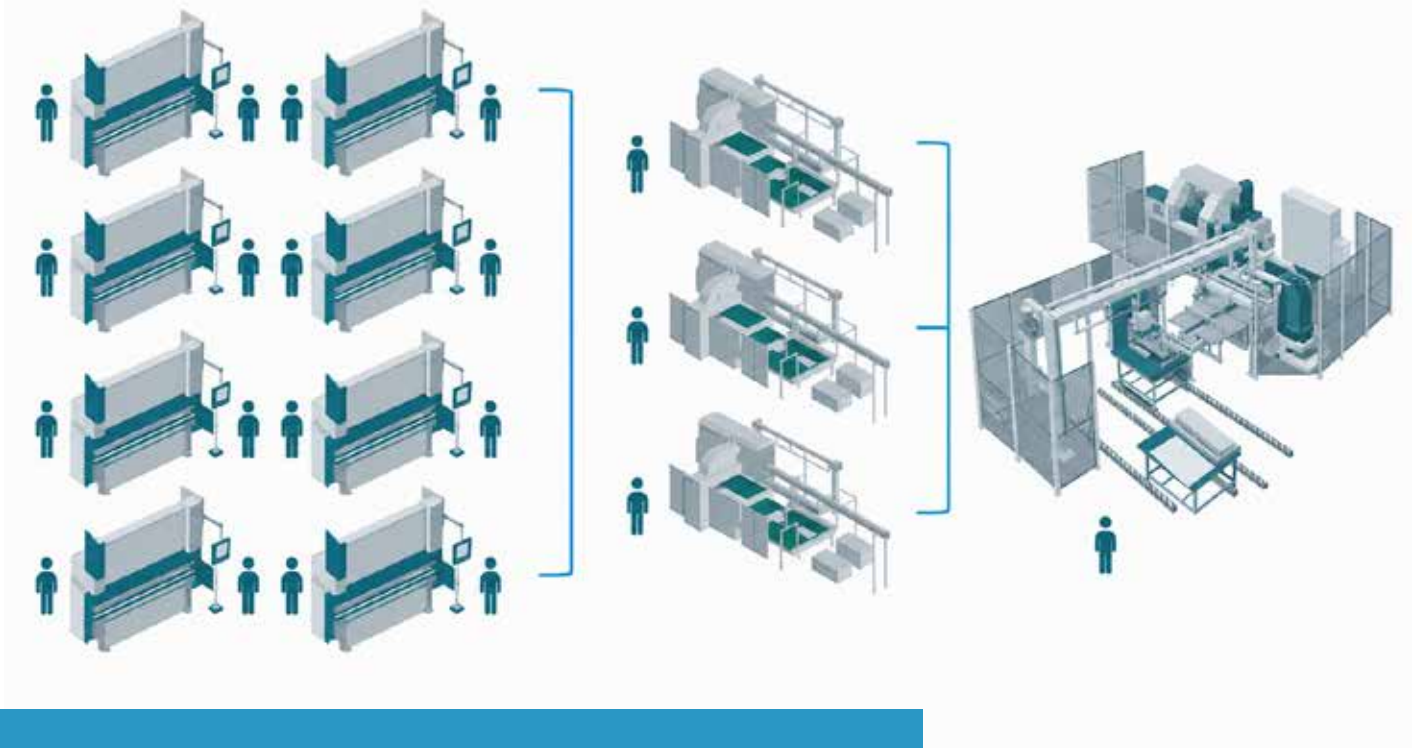
PANEL BENDER LINES

Fully customized panel bender lines deliver the ultimate combination of speed, flexibility and cost efficiency. Multiple integrated panel benders work simultaneously on different bends, substantially reducing cycle times. The result is exceptional throughput with only one operator - compared to up to 16 operators required for eight conventional press brakes or three operators for three standalone panel benders.

2 operators/press brake

1 operator/panel bender

1 operator/panel bender line



Why Multifold ?

- Handles large-scale panels with ease
- Maximum productivity through full automation
- One tooling set for a wide range of profiles
- User-friendly programming with parametric functionality
- Bends boxes up to 15.7" (400 mm) high

Watch the video

