



Press brakes

The right solution for your bending tasks

High precision from every angle

Engineered in the US & built to the highest quality standards, functionality and exceptional durability – JM series press brakes offer the complete lineup to suit your bending demands. Combined with support and advanced production management tools by MicroStep, they represent an optimal choice for your fabrication needs.

- Optimal size & versatile bending force setup
- Reliable bending performance
- Advanced bending technology & smart accessories
- Robotic integration for full automation

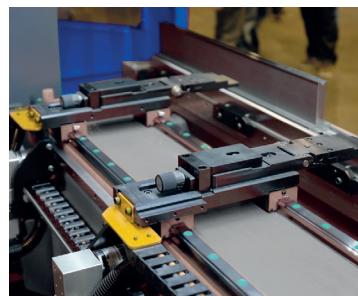


High-end **DELEM CNC control unit** with a touch screen provides direct navigation between programming and production. The UI is optimized for ergonomics with functions exactly where the operator needs them. The panel can be integrated into the cabinet or on a fully adjustable arm.

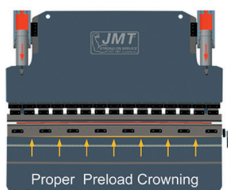
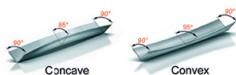
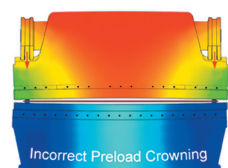
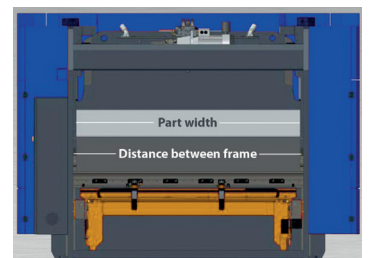


Press brakes feature a **rigid mono-block machine frame** for minimum deflection under load. The frame steel is checked by ultrasound and is stress-relieved after welding. All reference surfaces and connection holes are machined.

CNC-controlled and servo-driven **back gauge** that automatically adjusts their position to ensure the material is positioned accurately, resulting in high quality of finished parts.

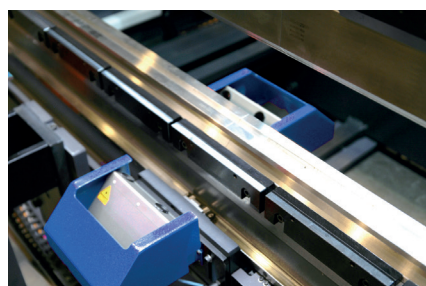


The **large space** facilitates versatile production of parts requiring increased clearance. Ram housing is outside of the machine frame leaving the space between columns free.

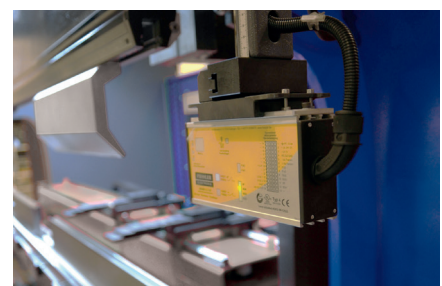


Crowning eliminates the need for time consuming shimming by creating an adjustable crown in the middle of the table, creating a stable crown at the center of the table. All press breaks come with a manual and **CNC-controlled crowning** system. In the latter, the position and setting is automatically calculated from part data and set via the CNC control.

Angle measurement **cameras**



Advanced **work safety** elements





JM-R series

JM-R series press brakes are designed for simple use, strong performance and precision. They offer high bend accuracy and a repeatability at least five-fold higher than conventional press brakes.

- Models from **1.2 m x 40 tons** up to 4 m x 300 tons
- **CNC X axis back gauge system**
- **Mechanical crowning system on bottom table**
- Delem CNC touch screen control unit
- Robust safety features

Options

- CNC X1-X2, R1-R2 Axes Back Gauge System
- CNC motorized crowning system

JM-S series

JM-S series press brakes are designed to maximize productivity and decrease cost per unit. Design innovations based on years of experience have resulted in faster speeds on the approach, bending, return and back gauge.

- Models from **1.2 m x 40 tons** up to **10 m x 2 000 tons**
- **CNC X, R axes back gauge system**
- **CNC motorized crowning system**
- Delem CNC touch screen control unit
- Front top beam sheet cover with LED lighting
- Robust safety features

Options

- CNC X1-X2, R1-R2, Z1-Z2 axes back gauge system
- Laser angle measurement device with 2 cameras
- Rolleti hydraulic top tool clamping system
- CNC sheet following system (carriage capacity 250 kg each)
- Parking area for sheet following system length extension 1 500 mm



JM-E series

The new generation electrical servo JM-E press brake is a fast, accurate non-hydraulic bending solution. The innovative machine concept combines productivity, accuracy, flexibility and reliability with high respect for ecological aspects.

- Models from **1.5 m x 40 tons** up to **3 m x 100 tons**
- CNC X axis back gauge system
- CNC motorized crowning system
- Delem CNC touch screen control unit
- Robust safety features

Options

- CNC X1-X2, R1-R2 or X1-X2, R1-R2, Z1-Z2 axes back gauge system
- CNC sheet following system (carriage capacity 250 kg each)



Get more done in tandem

Press brakes working in parallel offer unparalleled flexibility. Double the size of processed parts at one moment and double the output of regular production at the next, this configuration is more than just a sum of its parts.

Trying to plan ahead? Take advantage of the option of tandem preparation for future applications and have your press brake ready to welcome its twin colleague when needed.

Another helping hand

An optional robotic interface connects your robotic manipulator to the press brake to create an automated bending work station. Back gauge fingers are equipped with sensors to let the system know the blank is in the correct position.

Advances to bending technology have brought significant quality improvements over time, but press brakes are still labor-intensive machine tools. With a robot to give you a hand though, high-volume production can take off at full speed.



MicroStep®



For more information visit:
www.microstep.eu/machines



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Your Partner for Cutting and Automation

There is hardly any other CNC cutting system with such a variety of technologies provided by a single machine for such a variety of materials as what MicroStep is offering by nature. Our machines enable complex bevel cutting jobs with all technologies – plasma, laser, oxyfuel and waterjet along with marking, drilling, tapping, countersinking and milling operations.

With the newest addition to our portfolio we are now bringing another step in the production process under our roof – after cutting, MicroStep supported press brakes are ready to take over.

And we do not stop just there – we integrate our machinery with material handling systems and provide added value through automation and digitalization.