

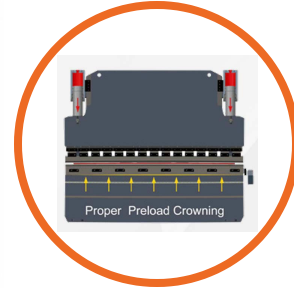
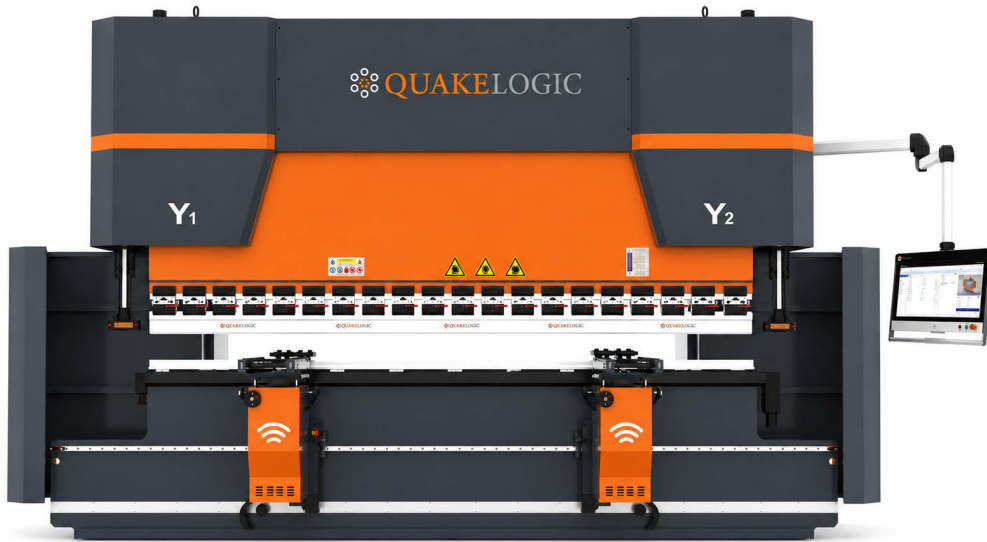
QUAKELOGIC

HYBRID CNC HYDRAULIC
PRESS BRAKE

QL-PressMaster Pro 110

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Hybrid CNC Hydraulic Press Brake



PRECISION HYBRID SERVO-HYDRAULIC PRESS BRAKE

The QuakeLogic QL-PressMaster Pro 110 is a hybrid servo-hydraulic CNC press brake built for precision sheet metal forming that demands consistent bend accuracy, repeatability, and throughput. It pairs a rigid welded steel frame with automatic CNC crowning, a 7+1-axis backgauge, and a DELEM DA69S 3D graphical controller. Engineered for industrial fabrication, maintenance, educational, and government users, it delivers a complete forming solution with integrated laser safety.

- Hybrid servo-hydraulic drive delivers high-speed ram positioning with lower energy consumption, cutting cycle times while reducing operating cost per part.
- Automatic CNC crowning continuously compensates for frame deflection, producing consistent bend angles across the full 126 in working length.
- 7+1-axis CNC backgauge with servo positioning and automatic compensation enables complex multi-step bend programs with fast, repeatable setup.
- DSP laser safety protection and hydraulic overload protection safeguard operators and tooling without slowing production throughput.

STANDARD FEATURES »

- Hybrid Servo-Hydraulic Drive
- 110-Ton Press Capacity
- 126 in Bending Length
- Welded Steel Frame
- High-Speed Ram Positioning
- Automatic CNC Crowning
- DELEM DA69S Controller
- 7+1-Axis CNC Backgauge
- DSP Laser Safety System
- Ram Synchronization
- Linear Position Measurement
- Tool-less Quick Clamping
- EU & US Tooling Compatible
- Sliding Front Supports
- Heavy-Duty Foot Pedal
- Hydraulic Overload Protection
- Automatic Lubrication
- Factory-New Equipment

Key Features

- Hybrid servo-hydraulic drive system combines fast ram approach with precise bending control, delivering high productivity and reduced energy consumption per cycle.
- Heavy-duty welded steel frame provides rigidity and low deflection, sustaining bending accuracy under the full 110-ton rated load.
- DELEM DA69S 3D graphical controller offers touchscreen programming, bend sequence optimization, and 2D/3D simulation for faster job setup.
- 7+1-axis servo backgauge with X, R, Z1, Z2, Delta X, Y1 and Y2 control positions material precisely for multi-step bends.
- Automatic CNC crowning compensates machine deflection in real time, keeping bend angles uniform across the entire working length.
- Servo-controlled ram synchronization with linear position measurement maintains repeatable, angle-accurate bends across the full stroke.
- Hydraulic quick-change tool-less clamping speeds tooling changeovers and supports both European and American style tooling.
- DSP laser safety protection, emergency stop, and safety interlock circuit provide CE-compliant operator protection during production.
- Sliding front material supports and heavy-duty foot pedal improve handling of large workpieces and operator ergonomics.

PRODUCT FEATURES

Drive System

Hybrid servo-hydraulic drive · Energy-efficient hydraulic circuit · Hydraulic overload protection

Ram & Frame

Heavy-duty welded steel frame · Servo-controlled ram synchronization · Linear position measurement system

CNC Control

DELEM DA69S 3D graphical controller · Touchscreen operation, offline programming · Tool and material libraries, USB interface

Backgauge

7+1-axis CNC, servo-driven · Axes: X, R, Z1, Z2, Delta X, Y1, Y2 · Automatic position compensation

Crowning

Automatic CNC crowning system · Continuous deflection compensation · Consistent angle across full length

Tooling & Clamping

Hydraulic quick-change tool-less clamping · European & American style compatibility · Multi-opening lower die, upper punch set

Safety

DSP laser safety protection · Emergency stop, safety interlock circuit · CE-compliant operator protection

Material Handling

Sliding front support arms · Heavy-duty foot pedal · Side-lift forklift handling

For more information about the features, specifications, and available configurations of the QL-PressMaster Pro 110, please contact QuakeLogic.

MACHINE CONFIGURATION

COMPONENT	CONFIGURATION
Machine Type	Hybrid CNC Hydraulic Press Brake
Drive System	Hybrid Servo-Hydraulic
Frame	Heavy-Duty Welded Steel
CNC Controller	DELEM DA69S 3D Graphical
Backgauge	7+1-Axis CNC, Servo-Driven
Crowning	Automatic CNC Crowning
Ram Control	Servo-Controlled Synchronization
Position Feedback	Linear Measurement System
Clamping System	Hydraulic Quick-Change Tool-less
Tool Compatibility	European & American Style
Safety System	DSP Laser Protection
Front Supports	Sliding Support Arms

CAPACITY

SPECIFICATION	VALUE
Rated Press Capacity	110 Tons
Bending Length	126 in (3,200 mm)
Distance Between Housings	106.3 in (2,700 mm)
Ram Stroke	9.84 in (250 mm)
Open Height	19.69 in (500 mm)
Throat Depth	17.72 in (450 mm)
Approach Speed	7.87 in/sec (200 mm/s)
Bending Speed	Up to 0.59 in/sec (15 mm/s)
Return Speed	6.30 in/sec (160 mm/s)

OPTIONAL FEATURES & ACCESSORIES

EXTENDED TOOLING PACKAGE

Adds additional upper punch and multi-opening lower die sets to expand the range of profiles and material thicknesses formed.

ADDITIONAL FRONT SUPPORTS

Extra sliding front support arms improve handling and positioning of large or heavy sheet workpieces during forming.

ANGLE MEASUREMENT SYSTEM

In-process bend angle measurement provides closed-loop correction for tighter angular tolerance on critical parts.

OFFLINE PROGRAMMING SUITE

PC-based DELEM offline programming lets operators prepare and simulate bend sequences without occupying the machine.

TECHNICAL SPECIFICATIONS

SPECIFICATION	DESCRIPTION
Model	QL-PressMaster Pro 110
Machine Type	Hybrid CNC Hydraulic Press Brake
Rated Press Capacity	110 Tons
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Ram Stroke	9.84 in (250 mm)
Open Height	19.69 in (500 mm)
Throat Depth	17.72 in (450 mm)
Approach Speed	7.87 in/sec (200 mm/s)
Bending Speed	Adjustable, up to 0.59 in/sec (15 mm/s)
Return Speed	6.30 in/sec (160 mm/s)
Backgauge	7+1 Axis CNC
Backgauge Axes	X, R, Z1, Z2, Delta X, Y1, Y2
CNC Controller	DELEM DA69S
Crowning	Automatic CNC Crowning
Safety System	DSP Laser Safety System

SPECIFICATION	DESCRIPTION
Clamping System	Hydraulic Quick-Change Tool-less
Tool Compatibility	European & American Style
Front Supports	Sliding Front Support Arms
Electrical Supply	240 VAC, 3-Phase, 60 Hz
Hydraulic System	Hybrid Servo-Hydraulic
Foundation	Reinforced Industrial Floor
Ambient Temperature	41°F-104°F (5°C-40°C)
Installation	Indoor Industrial
Shipping Length	161.4 in (4,100 mm)
Shipping Width	66.9 in (1,700 mm)
Shipping Height	97.6 in (2,480 mm)
Shipping Configuration	Fully Assembled
Forklift Handling	Side-Lift Compatible
Warranty	One-Year Parts, Labor & Support
Condition	Factory-New Equipment

QL-PressMaster Pro 110

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About QuakeLogic:

QuakeLogic Inc. is a California-based engineering and technology company providing innovative, reliable, high-quality solutions to customers worldwide.

Our Commitment

We are committed to quality, innovation, and customer satisfaction – building lasting partnerships through reliable solutions and dependable support.

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