

EVOx™ Servo-Electric Presses



Standard Features

- Positional repeatability within +/- 0.0005"
- Force & positional feedback
- Data acquisition measuring torque, force, position, and time at a maximum rate of 1 sample / ms
- Programmable dwell time
- Roller-screw actuator design for longer life
- Light curtains and polycarbonate safety guarding
- Backed by Beckwood's industry-leading Service & Support team

Options

- Force ranges from 1,000 lbf - 100,000 lbf (0.5 tons - 50 tons)
- C-frame or 4-post configurations available for all models
- Customizable worktables for added storage
- Extended (infinite) dwell
- 230v or 460v power configurations
- Bar Code Scanner - part traceability with serialization

Evolving with the Industry

For nearly 50 years, Beckwood has been supplying hydraulic and pneumatic presses to the assembly and R&D industries. As these manufacturing facilities and assembly plants continue to evolve and become more efficient, so do Beckwood presses.

Beckwood's new EVOx™ c-frame and 4-post servo-electric presses are a highly-accurate, low-maintenance alternative to traditional hydraulic systems. EVOx™ presses can be used in a variety of industries including food service, lab/clean room, and automotive for:

- Clamping
- Crimping
- Inserting
- Joining
- Press fitting
- Punching/Blanking
- Riveting
- Spring testing
- Staking
- Swaging

Servo vs. Hydraulic Actuation

Servo-driven presses use an electric actuator in lieu of a hydraulic system to precisely control slide motion throughout the stroke. Eliminating the hoses, pumps, and hydraulic oil improves cleanliness, energy efficiency, and operator safety while lowering operational and

maintenance costs. Additionally, EVOx™ servo-electric presses use roller-screw technology within the actuator to achieve higher forces and increase lifespan when compared traditional ball-screw actuators.

Fully-Configurable Press Systems

With models ranging from 1,000 lbf – 100,000 lbf (0.5 - 50 tons), EVOx™ presses offer the highest tonnage capacity of any servo-electric press available on the market today. Actuator size, frame style, dwell time, power requirements, and more can be configured to meet your operational needs.

EVOx™ presses use a programmable, intuitive controls system to guarantee positional repeatability to within +/- 0.0005" while offering force and positional feedback.

Service & Support

Every EVOx™ press is backed by Beckwood's expert Service & Support team and includes our proprietary PressLink™ remote support module for fast, easy troubleshooting. Long-term maintenance contracts, on-site training, and installation services are also available to ensure you maximize your investment.



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Learn more about EVOx™

Learn more about Assembly

Machinery Specifications

C-Frame Presses

| Model | C1 | C2 | C4 | C10 | C20 | C30 | C40 | C60 | C100 |
|-------------------------|------------------------|----------------------|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| Force: | 1,000 lbf (0.5 ton) | 2,000 lbf (1 ton) | 4,000 lbf (2 tons) | 10,000 lbf (5 tons) | 20,000 lbf (10 tons) | 30,000 lbf (15 tons) | 40,000 lbf (20 tons) | 60,000 lbf (30 tons) | 100,000 lbf (50 tons) |
| Ram Size:* | 4" x 6" | 4" x 6" | 4" x 6" | 4" x 6" | 8" x 16" | 8" x 16" | 8" x 16" | 12" x 24" | 12" x 24" |
| Bed Size: | 6" x 10" | 6" x 10" | 6" x 10" | 6" x 10" | 12" x 20" | 12" x 20" | 12" x 20" | 20" x 30" | 20" x 30" |
| Stroke: | 6" | 6" | 6" | 6" | 12" | 12" | 12" | 24" | 24" |
| Daylight: | 10" | 10" | 10" | 10" | 18" | 18" | 18" | 24" | 24" |
| Throat Distance: | 4" | 4" | 4" | 4" | 7" | 7" | 7" | 11" | 11" |
| Ram Speed: | 590 IPM | 590 IPM | 590 IPM | 500 IPM | 450 IPM | 300 IPM | 200 IPM | 150 IPM | 110 IPM |
| Power: | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v |
| Controls | | | | | | | | | |
| Interface: | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC |
| Data Acquisition | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms |

*All c-frame models also available without ram.

4-Post Presses

| Model | P1 | P2 | P4 | P10 | P20 | P30 | P40 | P60 | P100 |
|-------------------------|------------------------|----------------------|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| Force: | 1,000 lbf (0.5 ton) | 2,000 lbf (1 ton) | 4,000 lbf (2 tons) | 10,000 lbf (5 tons) | 20,000 lbf (10 tons) | 30,000 lbf (15 tons) | 40,000 lbf (20 tons) | 60,000 lbf (30 tons) | 100,000 lbf (50 tons) |
| Ram Size: | 12" x 12" | 12" x 12" | 12" x 12" | 12" x 12" | 18" x 24" | 18" x 24" | 18" x 24" | 24" x 36" | 24" x 36" |
| Bed Size: | 12" x 12" | 12" x 12" | 12" x 12" | 12" x 12" | 18" x 24" | 18" x 24" | 18" x 24" | 24" x 36" | 24" x 36" |
| Stroke: | 6" | 6" | 6" | 6" | 12" | 12" | 12" | 24" | 24" |
| Daylight: | 12" | 12" | 12" | 12" | 24" | 24" | 24" | 30" | 30" |
| Post Diameter: | 2" | 2" | 2" | 2" | 2" | 2" | 2" | 3" | 3" |
| Ram Speed: | 590 IPM | 590 IPM | 590 IPM | 500 IPM | 450 IPM | 300 IPM | 200 IPM | 150 IPM | 110 IPM |
| Power: | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v | 230v or 460v |
| Controls | | | | | | | | | |
| PLC: | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touch screen PC | 15" touchscreen | 15" touchscreen |
| Data Acquisition | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms | 1/ms |

