

# HYDROPRESS™

The ideal, versatile **BUILDING-IN** machine for:

- *On-Demand Binding* · *Short-run Edition Binding* · *Library Binding*

Since its introduction in 1960, Mekatronics' Hydropress has become the industry standard for producing a high-quality product. Hundreds are in operation worldwide, performing at high throughput rates with minimum need for maintenance.

And now, ***“The Best Building-In Machine Ever Made”*** is even better!

Progress never stands still and at Mekatronics we are always ready to embrace the latest technological advances that will make our equipment safer, more versatile and reliable.

- Safe:** Numerous safety features have been redesigned into the Hydropress to meet the more stringent domestic and international safety requirements. Most important, and not available in any other machine, is a foolproof mechanical safety device that allows the machine to cycle only when the working area is fully closed. When the machine is idling and the working area is open, the platens are mechanically locked in the up position preventing them from coming down by any spurious signal. Further protection is provided in the design of the foot treadle in relation to the joint shaping jaws so that an injury-causing pressure cannot be generated. The machine is fully covered with panels.
- Versatile:** A self-adjusting semi-automatic machine for building-in book blocks of different sizes, thickness and types of paper with no make-ready or set-up. Increased capacity over its predecessor handling bulk sizes up to 4-1/2" and widths up to 16". A Programmable Logic Controller (PLC) now controls the machine with diagnostics for ease of troubleshooting.
- Fast:** Two independent building-in stations that can be operated alternately by one operator or simultaneously by two operators. Depending on the length of dwell and number of operators, a throughput of upwards of 2500 book blocks per shift can be attained for increased productivity over conventional methods.
- Simple & Effortless:** In the old design, two cycle-start switches had to be kept depressed until the platens descended on the book block. Instead, an effortless lowering of a door closes the working area and the platens immediately descend on the book block thus yielding higher throughputs. Contributing to the speed of production is also the linkage system of the joint-shaping jaws that is so balanced that a short, effortless movement of the treadle results in a large movement of the jaws. It is these low fatigue factors that contribute to the speed of production. An eye-level operator interface control panel is located on top of the machine within easy reach of the operator. Controls regulate instant action dwell time, quickset temperature and speedy-set adjustable joint nipping force.
- Heavy Duty & Reliable:** In service for several decades, the Hydropress is ruggedly designed and built for heavy industrial use and trouble-free maintenance to give many more decades of reliable service. Over 95% of all Hydropresses sold worldwide since 1960 are still running today.



## Technical Data

Range	Minimum	Maximum
<b>Height</b>	3" [76 mm]	15-1/4" [387 mm]
<b>Width</b>	4" [100 mm]	15" [381 mm]
<b>Bulk:</b>	1/8" [3 mm]	4-1/2" [114 mm]
<b>Platen Force</b>	22,000 lbs. [10,000 Kg.]	
<b>Joint Force</b>	Adjustable from 300-2000 lbs [136-900 Kg]	
<b>Cycle time</b>	Adjustable down to 3 sec.	
<b>Dwell time</b>	Adjustable from 0 – 99 sec.	
<b>Temperature</b>	Adjustable to 300 <sup>0</sup> F [150 <sup>0</sup> C]	
<b>Power</b>	4 Kw, 220V, 3 Ph, 60 Hz	
<b>Floor Space</b>	41" [1041 mm] x 28" [711 mm]	
<b>Weight</b>	2,000 lbs. [910 Kg]	

Note: Technical data subject to change.

**MEKATRONICS, INC./BENDROR INTERNATIONAL, LTD.**

85 Channel Drive, Port Washington, NY 11050 · Telephone: (516) 883-6805 · FAX: (516) 883-6948