

# ROUNDER & BACKER

When it comes to *Quality, Performance and Value*, there is no other choice than this Self-Adjusting, Zero Make-Ready machine, **the only one of its kind**

## Ideal for Hardcover On-Demand Book Manufacturing

Next to leaf attachment, rounding & backing is the most critical operation in the binding process. It is this function that determines the structural integrity of the bound book block. It is analogous to the function of the familiar architectural form of the Roman arch and other such natural curvilinear forms structured to withstand heavy stresses.

Since its introduction, Mekatronics' self-adjusting Rounder & Backer has become the industry standard for producing high quality rounded and backed book blocks. Hundreds are in operation worldwide, performing at high throughput rates with minimum need for maintenance.



• *And now....,*  
**“The Best Rounder & Backer Ever Made”**  
**is even better!**

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

• <b>Safe:</b>	Redesigned to meet the more stringent domestic and international safety requirements. With the exception of the opening into which the book block is fed and protected by the proven DIGI-GUARD™ safety device that prevents injury should the operator's fingers or hand be in the working area, the machine is totally covered with louvered panels.
• <b>Unique Self-Adjusting &amp; Fast :</b>	A machine that speeds up the critical process of shaping the spines of book blocks for better openability and durability. Processes intermixed sizes, thickness and types of paper with no make-ready or set-up. A unique feature not present in any Rounder & Backer on the market, is that the path of the backing roller can be rapidly adjusted to conform to the curvature of the convex shape of the back formed by the preceding rounding operation.
• <b>Versatile:</b>	Unlike its predecessor in which the backing roller pressed against the spine throughout its entire oscillatory motion, the machine, now controlled by a Programming Logic Controller (PLC), is capable of duplicating the action of a skilled craftsman on a hand backer. That is, the backing roller is allowed to press against the spine only from the center of its arc to the end of each of its strokes. Depending on the type of work being processed, the operator can select the desired number of strokes which the backing roller can make.
• <b>Simple &amp; Effortless:</b>	Operation is automatic from the moment a book block is inserted and the foot switch depressed. Once the desired backing roller path is selected, the machine will automatically maintain that curvature regardless of the thickness of the inserted book block. An operator panel displays the selected operational functions as well as on-line diagnostics.
• <b>Heavy Duty Reliable &amp; Quiet:</b>	The machine is designed and built for heavy industrial use and trouble-free maintenance. Over 90% of all Mekatronics' Rounder & Backers sold worldwide since 1954 are <u>still running</u> today. A new pump operating at a conversational noise level of 60 dB has a 50% noise level reduction over its predecessor. Should normal wear cause failure of any part, modular construction makes repair easy.

### Technical Data

Range	Minimum	Maximum	Cycle Time	5 seconds
Height	4" [102]	15" [381]	Power	5 KW, 220 V, 3 Phase, 60 Hz.
Width	4" [102]	15" [381]	Floor Space	29"x 40" [740 x 1,020]
Bulk	¼" [6]	3-1/4" [83]	Weight (Gross)	Approx. 2,000 lbs [907 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