RoboLoad
Automated Book Block Handling

REVOLUTION 50 SERIES

Max 8kg
17.5 lbs

Streamline your high-speed print finishing production line with RoboLoad, an advanced 6-axis robot designed to automatically pick book blocks of variable thickness and formats and position them on a pallet or trolley. Engineered for man-robot collaboration with enhanced safety features, RoboLoad is a hybrid solution that brings the best of both industrial and collaborative robotics to your workspace.

Add RoboLoad to Tecnau's Revolution 50 StreamFolder 5152 or StreamFolder 5154 systems for an integrated, highly productive and highly automated production line requiring a minimum of skilled labor.

Global service and around-the-clock support help ensure our reputation as the industry's reliability leader. Our products increase productivity, cut labor and paper costs, and even make new applications possible – Tecnau solutions truly empower digital print to help you do more with less.

KEY BENEFITS

✓ **Labor Reduction**: automate repetitive tasks to reduce the need for manual labor.

✓ **Cost Savings**: lower operational costs by minimizing labor expenses.

✓ **Increased Focus on High-Profile Tasks**: allow your operators to concentrate on more complex and high-value activities and to handle multiple production lines.

✓ **Injury Prevention**: reduce the risk of injuries associated with heavy lifting and repetitive motions.

TECNAU
Empowering Digital Print

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RoboLoad by Tecnau combines the rigidity and high performance of industrial robots with the safety features of collaborative robots, ensuring industrial-grade performance. RoboLoad is engineered for safe interaction without the need for safety fencing, including two configurable safety scanners that minimize collision risks and enhance workplace safety.

The robot features intuitive teaching methods, such as a 13" touchscreen teachbox for precise motion control and detailed program logic.

RoboLoad integrates a laser sensor at the picking station to read the height of stacks, ensuring accurate stacking on the pallet of variable book thickness and piles. It also offers flexible positioning logic, allowing multiple strategies to optimize stack height and maintain sequence integrity. To further enhance automation, RoboLoad is equipped with intelligent alerts and automation features. When pallets are full, the RoboLoad will display a red alert message on the panel, optionally trigger a lamp and noise alert, and, if the pallet is not removed in time, slow down the cutter and eventually stop it.

Technical Specifications

Performance / Media

Cycle Time	~15 seconds	~15 seconds
Stack size (WxL) Min. format Max format	5.5" x 8" 11.2" x 14"	140 x 203 mm 285 x 355 mm
Stack height	2" - 4.7"	50 - 120 mm
Stack weight	max 17.5 lbs	max 8 kg
Tool weight	max 11 lbs	max 5 kg
Number of stacks	1 stack	1 stack
Stack Deploy	Euro pallet, carts or trolley	
Stack height on pallet	27.5"	up to 700 mm

Configuration Example