



GRAPHIC
MEASUREMENTS
INC.

Mercury

Digital servomotor control for offset lithography or letterpress

Automated controls accomplish make-ready faster and maintain more accurate color

The Mercury system utilizes digital servomotors – each with its own built-in microprocessor – to set ink keys with precision and speed. At the console, the operator uses a touch-screen display to make critical inking adjustments in seconds. Even operators with limited pressroom experience can complete color make-ready with precision similar to the most experienced operators. By enabling a shorter make-ready, the Mercury system minimizes wasted materials and unproductive press time.



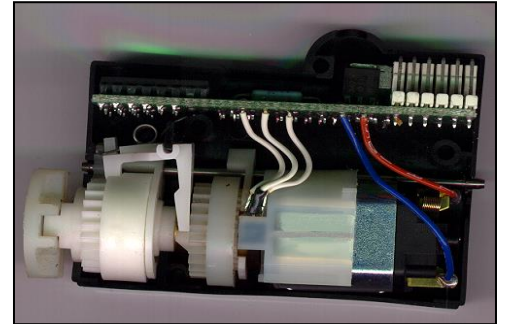
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Embedded intelligence

Because of the microprocessor on-board every Mercury servomotor, advance control and maintenance capabilities are a standard feature. After every move, each servomotor confirms its successful adjustment back to the primary controller. This bi-directional status check allows Mercury to make multiple accurate adjustments with minimal operator time. The motor's built-in intelligence also works to counteract mechanical backlash and sustain a reliable, permanent "zero" position.



Simple operator controls

The Mercury interface can be easily integrated into the master control desk, and also can support 'client' stations as needed to gain operator productivity. Inking on the whole press can be controlled from a single interface with an easy-to-learn touch screen interface. Settings for jobs can be stored and recalled from the built-in memory. Every motor's status and position is updated in real time on the console screen. Mercury also has advanced user features, such as non-linear response (programmable for less than 1% fine control) and zone locks.



Flexible design

With designs for over 60 different presses, and thousands of successful installations worldwide, Mercury can be configured to your needs. Mercury has been fitted to presses as narrow as 20cm or as wide as 180cm, with a variety of blade styles from continuous to fully-segmented and laser-cut. Key spacing can be customized to your need, and the modular design ensures proper functioning. GMI will also customize the ink fountain to ensure excellent repeatable settings.



A fine-tuned design from years of real-world application experience

- Highly accurate digital automation saves 30% to 50% of start-up waste and time compared to manual controls
- Full control of each ink key from central station
- Compatible with a variety of blade designs
- Flexible job storage – name files and folders as you choose for a structure that fits your operation
- Optional CIP3 pre-setting for faster, more reliable make-ready
- Optional SnapReg register control
- Over 25 years of experience and thousands of successful installations
- Digital control, mechanical repeatability of the fountain blade 0.0005" (typical)



Improve quality and economics with optional modules

CIP Presetting

Translate PPF files from your laser CtP system into recommended ink key profiles. Starting the make-ready from calculated profiles, improved by built-in self-calibrating algorithms, CIP Presetting has proven to reduce start-up time and waste by up to 40% compared to subjectively estimated profiles.

Sweep / Dampener Control

Motorized control of the sweep and/or dampener roller to control overall ink flow. Operates from the same console as the main Mercury system.

SnapReg

Color-to-color register solution to improve speed and accuracy. Searches, finds, and analyzes a specific printed register mark on a running web, to determine the required movement of the register motors. Micromarks save paper, small enough (4x8mm typical for 8 colors) to be placed inside a Clarios colorbar.

Clarios Closed-loop Color

Fast, intuitive spectral measurement and closed-loop color control for high-speed webs. The Clarios system provides key-by-key feedback on density and page-by-page status for Tone Value curves. Every scan is a spectral measurement. The Clarios software will feed recommended key positions to the Mercury based on the spectral color readings taken by the Clarios probe. Currently in use at several hundred sites, managing top-quality color for a wide range of products.