



SUN
AUTOMATION GROUP

Digital Registers *SunSet Control™*

Sun's *Digital Registers with SunSet Control* is a package that replaces the conventional registers and adds a sophisticated, easy to use computerized set-up control to your machine. This combination provides unprecedented control of register settings and offers:

- Quick set-up
- Less chance for operator error
- Ability to make extremely fine register adjustments
- Greatly reduced maintenance
- High quality work with less training

Digital Registers completely replace the old style registers including the main gear and journal. They provide the following advantages:

Zero Backlash - There is no "lost motion" between the gear train and the print cylinder. This "slop" is a significant source of register variation.

Extreme accuracy - The register position can be set and is repeatable within .001".

No frequent maintenance - The inherent design of the mechanical portion ensures extremely long life with no need for periodic adjustment. The servo-motor that adjusts the register has a mean time between failures of 80 years.

SunSet Control offers:

Non-intimidating touch-screen operator interface - Operator simply points to a part of the machine displayed on the monitor and the settings to change are immediately accessible.

Order Storage - When an order is run, its parameters can be stored for precise resetting when the job is run again.

Extremely fine control - Adjustment of register and caliper can be set to .001"

Operator HELP functions - Pictorial and video clip instructions on machine operations are displayed right on the control screen.

Open Architecture - There are no proprietary components of the control. All functions are handled by PC compatible hardware running on a standard operating system which can connect to standard networks.

Maintenance and diagnostic functions

- Maintenance procedures are explained with pictures and videos on the screen. The partsmanual is also available right on the screen at the machine.

Other axes - SunSet also controls the board caliper and vacuum damper settings for machines that are fitted with Sun's SunTrac vacuum transfer. It can also control other motorized axes.



**You need SUN
to grow.**

- Digital Registers SunSet Control™ -



ROI Considerations

FACTOR	QUANTIFIABLE BENEFIT
Training	<ul style="list-style-type: none"> • Highly graphical operator interface, with touch screen, is intuitive to use. No keyboard entry is required • Ability to make precise settings directly from the control eliminates the need for the operator to develop a "feel" for the settings • Pictorial and video HELP provide on the spot training when new personnel are assigned to the machine
Set-up time	<ul style="list-style-type: none"> • Precise setting of previously run jobs makes set-up quick. Controlled axes are set in a few minutes • Ability to make precise adjustments eliminates "trial and error" set-ups of new jobs • No need to re-register after cleaning plates
Scrap	<ul style="list-style-type: none"> • On repeat jobs, the first blank out is saleable • On new jobs, only one test sheet is needed • No rejects due to mechanical looseness or drift in the register
Maintenance	<ul style="list-style-type: none"> • Periodic adjustment to tighten the registers is never needed • Machine tool grade servo-motor is rated 80 years mean time between failures • Control will not lose its "home" position even during a power failure • Computer is an off-the-shelf PC in an air conditioned, sealed enclosure. There are no special or proprietary parts



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