

Hot Stamping Systems

FR-Series Heavy-Duty Rotary Hot Stamping, Heat Sealing and Laminating Systems



The high speed drop-in system that runs up to 50% faster than conventional systems!

Typical Applications

- ◆ Hot stamping including foils, magnetic tapes and security seals and tapes
- ◆ Hologram applications including registered and wallpaper types
- ◆ Heat sealing pouches, bags, sachets, and holders
- ◆ Over rapping of direct mail and point of sale items
- ◆ Hot laminating
- ◆ Thermal die cutting or forming



FR Series Exclusives

- ◆ The only system that incorporates an assist roll and die bearers, and operates like a die instead of a print cylinder. Die preload pressure is applied to the die bearers, not to the die journal ends
- ◆ Automated and programmable hot stamp shaft cooling insures precise temperature control with any material and for any press condition
- ◆ Automated foil nip and impression control is independent of die preload pressure
- ◆ Features the DMS "FPC" Foil Printing and System Controller. The FPC utilizes 32 programmable parameters for optimum performance under any conditions and for all processes. The FPC features advanced adaptive and predictive control and operation software, and continuously monitors both die and press conditions



Manufacturers of Rotary Hot Stamping Systems, Hot Stamping Dies, Embossing Dies and associated equipment and accessories since 1975

Visit our web page at: www.dmsdies.com

FR Series Advantages

- ◆ Performance, Speed, Quality, Reliability, and Flexibility. Customers who have both our system and a competitors consistently say our system performs better. We deliver better results with more control for more applications and materials at higher speeds with less downtime, period!
- ◆ Complete process control. Our exclusive FPC Foil Printing and System Controller was custom designed specifically for the demands of high speed rotary hot stamping and heat sealing applications
- ◆ More tooling options. Our systems accept conventional hot stamping dies, our exclusive ColdPocket continuous surface dies, as well as magnetic cylinders and flexible sheet dies. We easily handle the high mass or large repeat dies other systems cannot
- ◆ High performance electrical heating. Our systems feature very high output electrical heater cores designed specifically for hot stamping. They offer up to twice the power of our competitors electric systems! Our systems are unique in that they also incorporate integrated hot stamp shaft cooling. When compared to hot oil, our systems are safer and less expensive to purchase, operate and maintain, while having no penalty in performance or process

FR Series Specifications

- ◆ For narrow to mid web presses and converting machines up to 30 inches wide
- ◆ Foil nip control independent of die pre-load pressure
- ◆ Lateral running register control
- ◆ Integrated forced air hot stamp shaft cooling. Provides tighter temperature control than hot oil systems in most cases
- ◆ Sealed oil bath bearing assembly on most units
- ◆ Wetted metallic slip ring assembly
- ◆ Most powerful heaters. Typically 300 watts per inch of web width
- ◆ Complete system includes:
 - DMS FPC foil printing and system controller
 - Hot stamp shaft assembly
 - Hot stamp eccentric impression roll assembly
 - Hot stamp die assist assembly
 - Accessory storage box

FR Series Options

- ◆ TorKit digital die pressure gauge system
- ◆ Built-In electronic load cell option for TorKit
- ◆ Remote operator interface
- ◆ Base roll options including Ebonite, Hypalon, Silicone, Steel and Chromed Steel
- ◆ Preload, Nip, and Temperature monitoring for your validation requirements

DMS Inc.
1155 Rose Road
Lake Zurich, IL
60047
USA

Tel. 1-847-726-2828
Within the USA or Canada
call toll free:
1-800-655-7882
Fax. 1-847-726-9292

Email address:
dms@dmsdies.com
On the web:
www.dmsdies.com