

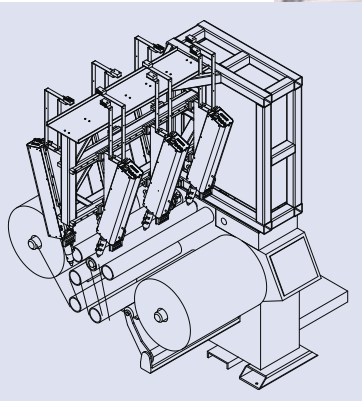
## LASERSHARP® FLEXIBLE PACKAGING EQUIPMENT SOLUTIONS

### LDM SERIES

6 LASER LDM SYSTEM  
CONFIGURATION

LASERSHARP LDM040

ADJUSTABLE CROSS-WEB  
INTEGRATION FRAME  
FOR SCORE ALIGNMENT



The **LaserSharp®** LDM is a Laser Downweb Module designed by LasX Industries, Inc. for straight line precision scoring for easy open features in flexible packaging films.

#### Advantages of LaserSharp Modules

- Retrofit or integrate to any roll handling equipment
- Precise controlled score depth
- Zero- maintenance sealed design with no beam alignment
- Multiple LaserSharp module configurations for wide webs
- Small 100µm (0.004 inch) spot size with adjustable focus
- Linear alignment for cross web module positioning
- Precise alignment to print registration
- Each LaserSharp module is controlled independently with patented Foresight controls offering:
  - controlled scoring depth independent of web speed
  - ability to run intermittent scores or perforations simultaneously

#### Specific LDM Advantages

- Linear alignment allowing score lines to offset
- Digital read out for precise cross web positioning
- High speed machine direction scoring 1500 fpm +
- Retrofits available for pouching lines

#### Specific LPM Advantages

- Process patterns, cross-web or down web direction
- High speed cross web and machine direction contour patterns
- Run intermittent patterns by print registration or distance
- Selective pattern perforating for breathable packaging allowing for gas and vapor transmission
- TracSoft Web Tracking Control Package:
  - Dynamic adjustment of laser pattern in response to the lateral movement of the web or print line

#### Process Advantages

- Non-contact, fast, clean, high quality processing method
- No Consumables or tool wear
- Multiple line processing
- Selective scoring and perforating enables easy open-packing features while maintaining barrier properties of the package

### LPM SERIES

LASERSHARP CONFIGURATION  
FOR SLITTER—REWINDER



CONFIGURATION FOR POUCH LINE

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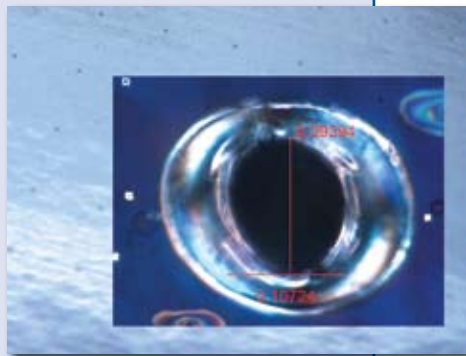
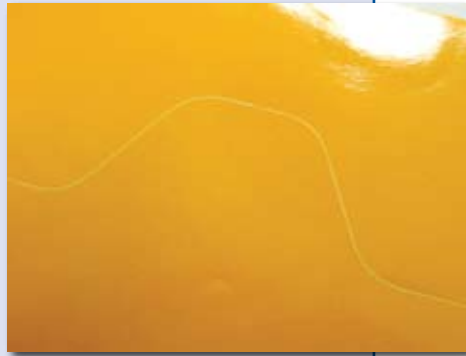


## FLEXIBLE PACKAGING SOLUTIONS BY LASERSHARP® FLEXPak SERVICES, LLC

Your answer for design, testing, prototype production, and production of easy-open and breathable packaging is at the LaserSharp FlexPak Services, LLC facility located in Vadnais Heights, Minnesota. To qualify your package design for easy-open and breathable features, we offer complete technical support to accelerate your time to market and reduce your development cost and risks. Our FlexPak Services will enable your application and deliver a proven package ready for production.

### Support Services Include:

- Package Design
- Tensile Testing
- Cross Section Imaging
- Gas and Vapor Transmission
- Air Flow Measurement
- Pouch Production
- Microscopic Analysis



### *LaserSharp® Scoring for Easy Open Packaging*

The **LaserSharp® Scoring** process delivers controlled score depth for easy-open packaging while protecting the barrier. The **LaserSharp® Scoring** process improves the aesthetic appearance with precise score lines in registration with the print. Any unique easy-open feature can be designed into your package resulting in improved customer satisfaction, product safety, and brand identification. This process has been proven for resealable, retort and pourable packaging.

### *LaserSharp® Perforating for Breathable Packaging*

**LaserSharp®** technology is not limited to scoring, we also offer **LaserSharp® Perforating** for breathable packaging. This process offers precise breathable features that enable controlled vapor and gas exchange with controlled micro-hole size and location. Unlike mechanical perforating, **LaserSharp® Perforating** produces holes that are clean and strong. This process has been proven for perishable food, microwaveable and rapid fill packaging.

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