FeldmanST

PERFORATION SYSTEMS

Simple by design. Powered by innovation.

LASER SYSTEMS

High-precision solution for plastic film processing on slitter rewinders and converting machines.

- **Flexible design**: Mobile trolley with integrated idle rolls, hosting up to 8 lasers with minimal transversal distance.
- **Advanced technology**: High-power CO_2 water-cooled lasers with precision slides, dedicated optics, and reinforced air system for reliability and safety.
- **Easy operation**: Intuitive 7" touchscreen interface, multi-language software, job setup, hole size adjustment, and pattern selection (linear, zigzag, custom). Individual laser control with speed sampling and photocell integration.
- **Connectivity**: Recipe storage, Ethernet for remote service and updates.
- **Performance stability**: Thermo-chiller ensures constant cooling and continuous operation.
- **Optional vision system**: Real-time quality control of hole diameter, OTR, and layout with automatic adjustments, data logging, and alarms.

MODEL	FST-LSR1	FST-LSR2	FST-LSR3
Description	Double structure, two laser attachment surfaces, monoblock	Monoblock with two lasers (side by side or top and bottom)	Double structure, two laser attachment surfaces, table shape
Application field	Slitter – Rewinder / Extruder	Bag making machine	Slitter – Rewinder / Extruder
Width range mm	500 - 2500	500 - 1600	500 - 2500
Hole diameter range micron	80 – 250 and scoring	80 – 250 and scoring	80 – 250 and scoring
Minimum distance between centre holes TD mm	1	1	1
Material max speed mpm	250	100	250
Material max thickness micron	250	250	250
Maximum installed power kw	16	8	16
Compressed air bar	5	5	5

*The images shown are for illustrative purposes only and may differ from the final product

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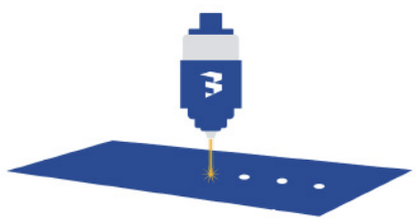
FST-LSR1

The most flexible solution for mono-block slitters, with a compact design that ensures easy integration into the line.
Dual laser-positioning surfaces allow precise jobs with very short distances between holes or slits across the material flow.
Nano-holes, scoring, and perforation are easily produced thanks to the intuitive software interface.

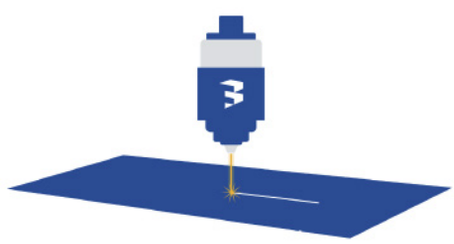


TECHNICAL DATA

Model	FST-LSR1
Description	Double structure, two laser attachment surfaces, monoblock
Application field	Slitter – Rewinder / Extruder
Width range mm	500 - 2500
Hole diameter range micron	80 – 250 and scoring
Minimum distance between centre holes TD mm	1
Material max speed mpm	250
Material max thickness micron	250
Maximum installed power kw	16
Compressed air bar	5

FST-LSR2

Designed for seamless integration with bag-making machines. Its compact design fits perfectly into both continuous (horizontal configuration) and intermittent (vertical configuration) sections of the host line. Dual servo-driven laser-positioning surfaces enable automatic adjustment during job changes. Scoring, nano-holes, and perforation are easily produced with the intuitive software interface.

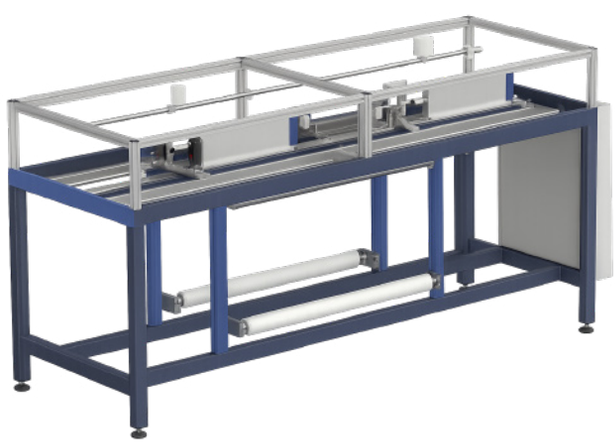


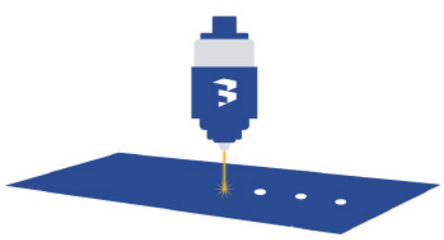
TECHNICAL DATA

Model	FST-LSR2
Description	Monoblock with two lasers (side by side or top and bottom)
Application field	Bag making machine
Width range mm	500 - 1600
Hole diameter range micron	80 – 250 and scoring
Minimum distance between centre holes TD mm	1
Material max speed mpm	100
Material max thickness micron	250
Maximum installed power kw	8
Compressed air bar	5

FST-LSR3

An ideal solution for two-segment slitter rewinders, where the “table” design ensures smooth integration into the line. Two or more laser-positioning surfaces allow precise jobs with minimal spacing between holes or slits across the material flow. Nano-holes, scoring, and perforation are easily achieved via the intuitive software interface. The unit is often equipped with an advanced yet user-friendly vision system for hole diameter control and quality assurance, generating a database for each finished roll — a must-have in today’s demanding markets.





TECHNICAL DATA

Model	FST-LSR3
Description	Double structure, two laser attachment surfaces, table shape
Application field	Slitter – Rewinder / Extruder
Width range mm	500 - 2500
Hole diameter range micron	80 – 250 and scoring
Minimum distance between centre holes TD mm	1
Material max speed mpm	250
Material max thickness micron	250
Maximum installed power kw	16
Compressed air bar	5