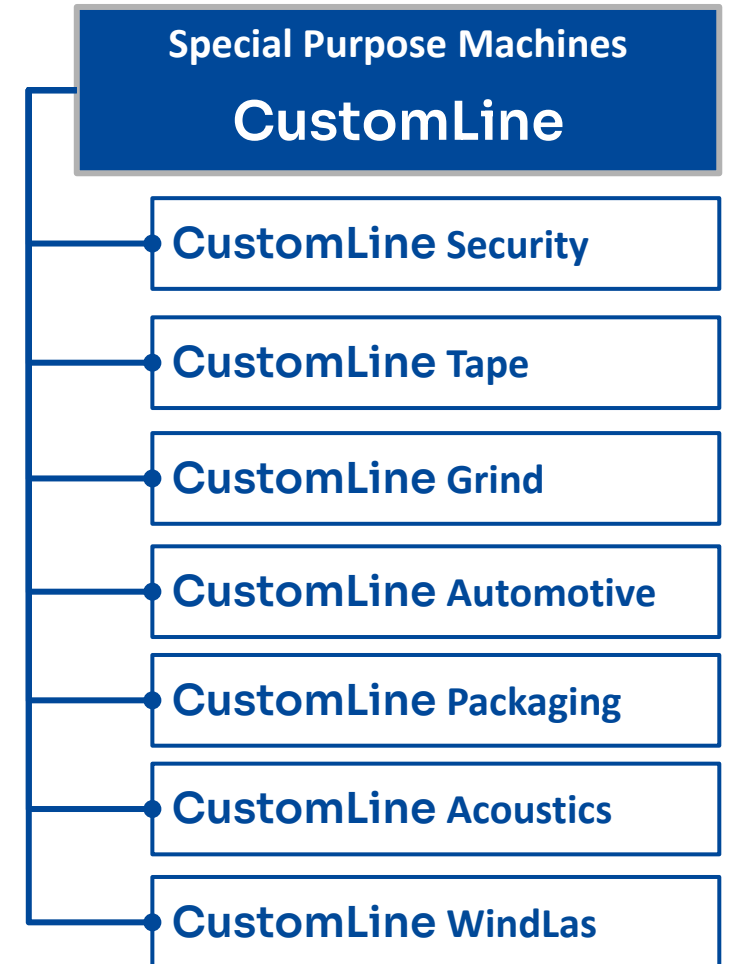
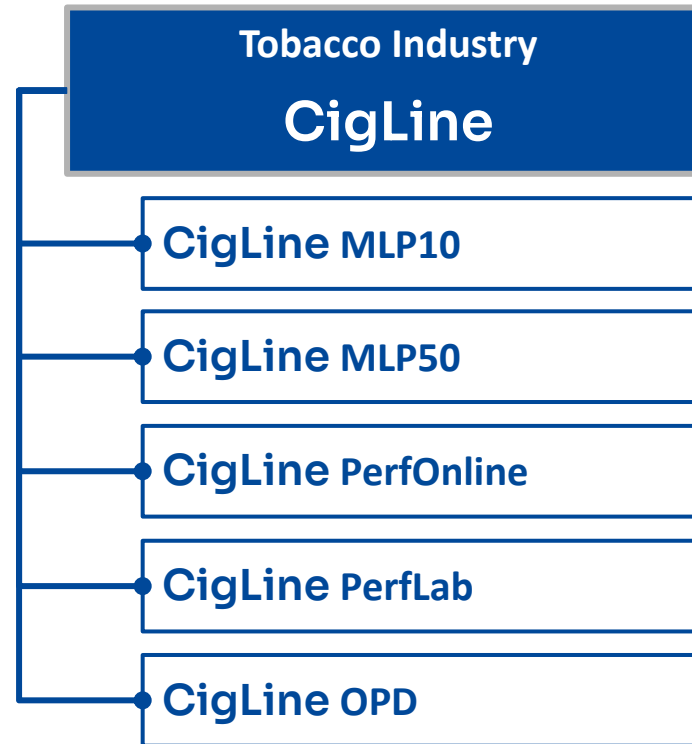
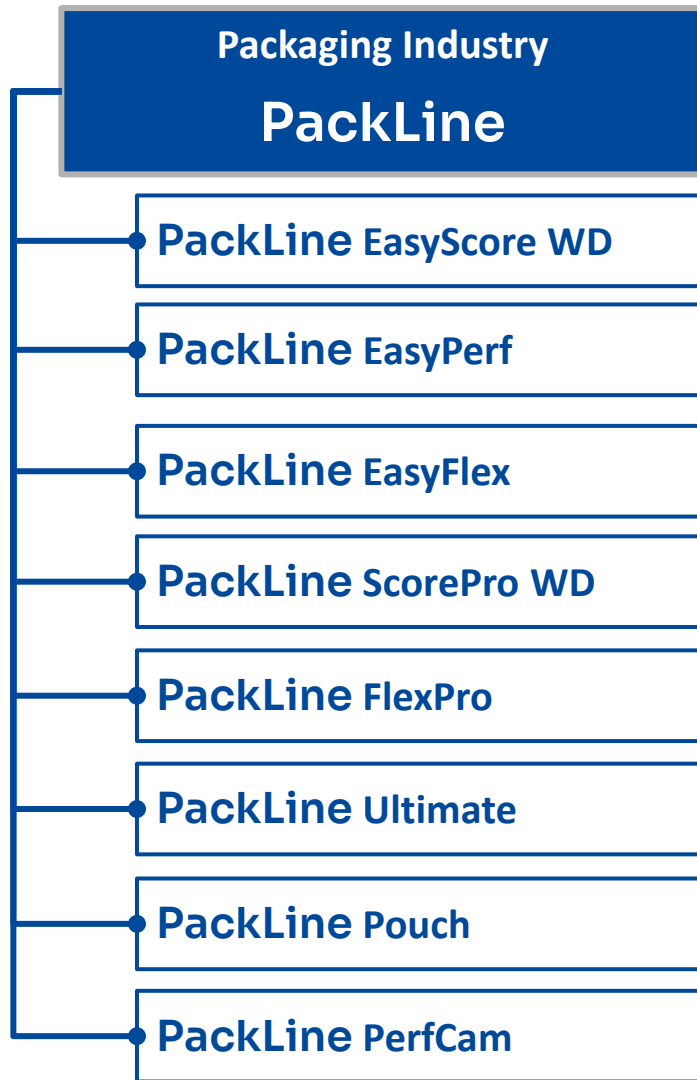


MLT Product Catalogue

-> Click to discover

MLT Product Overview



MLT Product Lines

PackLine



Laser Machines for the Packaging Industry

CigLine



Laser Machines for the Tobacco Industry

CustomLine



Customized Laser Systems designed for special Purpose

MLT PackLine Products

PackLine EasyScore WD



PackLine EasyPerf



PackLine EasyFlex



PackLine Pouch



PackLine ScorePro WD



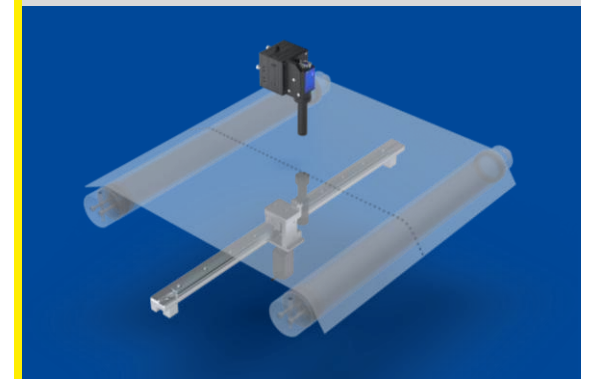
PackLine FlexPro



PackLine Ultimate



PackLine PerfCam



[See all Product Lines](#)

PackLine EasyScore WD

Description

Laser scoring in web direction (WD) with 4 scoring heads. Modular system for self- integration.
Optional fully framed

Technology

Laserpower (per Laser):	100 W, 200 W, 250 W, 500 W
Number of Lasers:	1 Laser splitted into 4 beams/processing heads
Processing heads:	WD Scoring Heads
Optics:	Multispot Focuslens
Laserclass:	Class 4 (Laser Class 1 upon request)

Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✓
Scoring	✓
Perforating	✗
Marking	✗

Product Picture



See **PackLine**

See all Product Lines

PackLine EasyPerf

Description

Laser micro perforation in web direction (WD) with 4 perforation heads. Modular system for self-integration. Optional fully framed. This system comes with the MLT developed DWC – Dynamic Web Compensation – a technology to enhance the laser puls on the moving material. This secures round holes at high running speed

Technology

Laserpower (per Laser):	100 W, 200 W, 250 W, 500 W
Number of Lasers:	1 Laser splitted into 4 beams/processing heads
Processing heads:	DWC Perforation Heads (Dynamic Web Compensation)
Optics:	Multispot Focuslens
Laserclass:	Class 4 (Laser Class 1 upon request)

Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✗

Product Picture



See **PackLine**

See all Product Lines

PackLine EasyFlex

Description

Laser scoring in web direction (WD), cross web direction (CW) and micro perforation.
Each Unit has 1 Laser with 1 Galvo Head. Modular system for self- integration. Optional fully framed.

Technology

Laserpower (per Laser):	100 W, 200 W, 250 W
Number of Lasers:	1 - 2
Processing Heads:	2D Galvo Heads
Working Field (per Head):	50 mm, 100 mm, 200 mm, 300 mm
Laserclass:	Class 4 (Laser Class 1 upon request)

Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✓

Product Picture



See **PackLine**

See all Product Lines

PackLine ScorePro WD

Description

A flexible, comprehensive solution for laser scoring in web direction. Each scoring lane operates with its own laser, thereby ensuring maximum precision and control.

The system is supplied as a fully integrated unit with a sturdy frame and built-in infeed and outfeed rollers, ensuring optimum material guidance and consistent processing.

Technology

Laserpower (per Laser):	60 W, 100 W, 200 W, 250 W
Number of Lasers:	2 - 14
Processing heads:	WD Scoring Heads
Optics:	Multispot Focuslens
Laserclass:	Class 1

Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✓
Scoring	✓
Perforating	✗
Marking	✗

Product Picture



See **PackLine**

See all Product Lines

PackLine FlexPro

Description

Technology

Laserpower (per Laser):	60 W, 100 W, 200 W, 250 W
Number of Lasers:	2 - 14
Processing heads:	2D Galvo Heads
Working field (per Head):	50 mm, 200 mm, 300 mm
Laserclass:	Klasse 1

Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✓

Product Picture



See **PackLine**

See all Product Lines

PackLine Ultimate

Description



Technology

Laserpower (per Laser):	250 W, 450 W
Number of Lasers:	2 (switchable between 3D Galvo Heads and WD Scoring Heads) 2x 3D Galvo Heads <u>and</u> 8x WD Scoring Heads (DWC optional)
Processing Heads:	150mm – 700mm Class 1
Working Field (per Head):	
Laserclass:	

Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✓

Product Picture



See **PackLine**

See all Product Lines

PackLine Pouch

Description

The PackLine Pouch module is a well-proven laser module designed for the integration into a pouch-making machine. It also fits into the pouch-makers of the leading manufacturers in this sector. Two scoring heads positioned opposite each other score the pouch from above and below after it has been folded. This ensures that the scoring matches perfectly on both sides.

Technology

Laserpower (per Laser):	60 W
Number of Lasers:	2
Processing heads:	WD Scoring Heads
Material width	Up to 900mm
Laserclass:	Klasse 1

Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✓
Scoring	✓
Perforating	✗
Marking	✗

Product Picture



See **PackLine**

See all Product Lines

PackLine PerfCam

Description

Technology

- Hochgeschwindigkeitskameras zur Überwachung jedes Perforationskopfs
- Präzise Erfassung und Messung von Lochdurchmessern von 80-250 µm
- Messung und LiveView bei Produktionsgeschwindigkeiten bis ca. 100 m/min
- Automatische Auswertung mittels Mustererkennungssoftware
- 100% Qualitätsdokumentation der perforierten Materialien
- Vermeidung fehlerhafter Einstellungen wie z. B. Fokusfehler

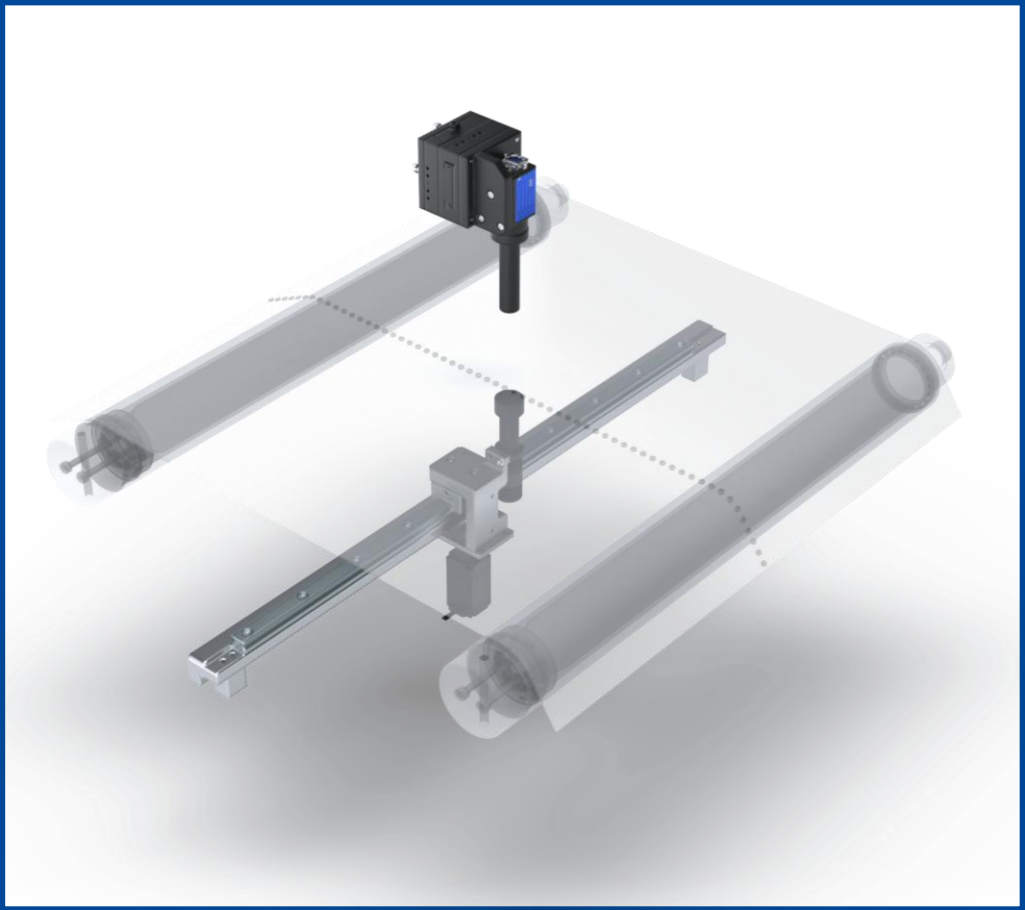
Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✗
Scoring	✓
Perforating	✗
Marking	✗

Product Picture



See **PackLine**

See all Product Lines

MLT CigLine Products

CigLine MLP10



CigLine MLP50



CigLine PerfOnline



CigLine PerfLab



CigLine OPD



[See all Product Lines](#)

CigLine MLP10

Description



Processing Directions	
Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies	
Cutting	✗
Scoring	✗
Perforating	✓
Marking	✗

See Specifications

See CigLine

See all Product Lines

CigLine MLP10 - Specs

Technology

Umroller:

Max. Bobbinen-Durchmesser:	450 mm
Max. Papierabwicklungslänge:	3.500 m
Max. Bobbin- / Tipping-Papierbreite:	100 mm
Max. Wickelgeschwindigkeit:	600 m/min
Beschleunigung:	0-600 m/min in unter 3 Sekunden
Grammatur:	35-45 g/m ²
Anzahl Schneidmesser:	1 (optional)
„Zero-Meter“-System:	Optional verfügbar

Mikroperforation:

Basierend auf dem patentierten MLT Vario-Polygon-System	
Polygongeschwindigkeit:	66.000 RPM
Löcher pro Sekunde:	228.000
Lochdicke pro Zentimeter:	5 – 30
Typische Porosität:	50 – 3.000 Coresta Units

Fokussierköpfe:

Anzahl Perforationsköpfe:	4 – 8
Alle Köpfe über die gesamte Bahnbreite verfahrbar	
Jede Fokussierlinse mit 0,01 mm Auflösung einstellbar	
Jeder Kopf mit individuellem Shutter	

Laserquellen:

CO ₂ -Laserquelle mit 10,6 µm Wellenlänge	
Typische Laserleistung:	200 – 1.000 W

Product Picture



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[See all Product Lines](#)

CigLine MLP50

Description

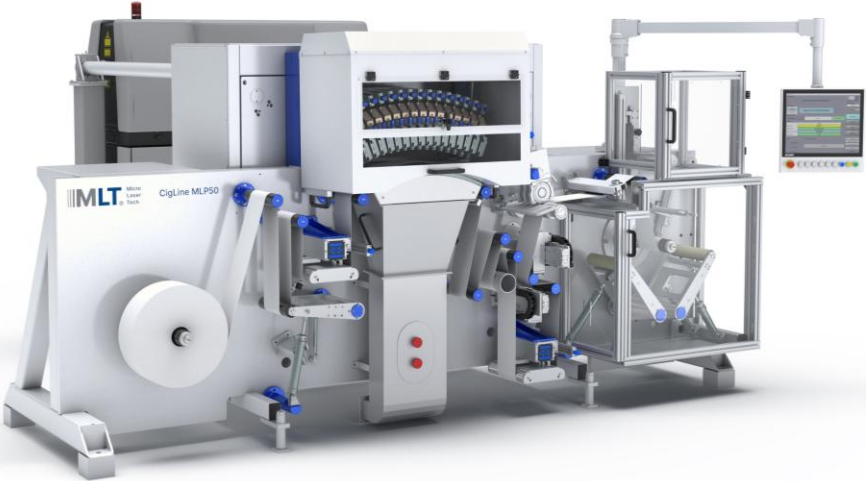
Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✗
Scoring	✗
Perforating	✓
Marking	✗

Product Picture



[See Specifications](#)

[See CigLine](#)

[See all Product Lines](#)

CigLine MLP50 - Specs

Technology

Umroller:

Max. Bobbinen-Durchmesser:	800 mm
Max. Papierabwicklungslänge:	4.000 m
Max. Bobbin- / Tipping-Papierbreite:	350 mm
Max. Wickelgeschwindigkeit:	700 m/min
Beschleunigung:	0-700 m/min in unter 3 Sekunden
Grammatur:	35-45 g/m ²
Anzahl Schneidmesser:	Bis zu 5
„Zero-Meter“-System:	Optional verfügbar

Mikroperforation:

Basierend auf dem patentierten MLT Vario-Polygon-System	
Polygongeschwindigkeit:	70.000 RPM
Löcher pro Sekunde:	500.000
Lochdicke pro Zentimeter:	5 – 50
Typische Porosität:	50 – 4.000 Coresta Units

Fokussierköpfe:

Anzahl Perforationsköpfe:	8 - 20
Alle Köpfe über die gesamte Bahnbreite verfahrbar	
Jede Fokussierlinse mit 0,01 mm Auflösung einstellbar	
Jeder Kopf mit individuellem Shutter	

Laserquellen:

CO ₂ -Laserquelle mit 10,6 µm Wellenlänge	
Typische Laserleistung:	1.000 - 2.000 W

Product Picture



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[See CigLine](#)

[See all Product Lines](#)

CigLine PerfOnline

Description

Technology

Laserleistung (pro Laser):	250 W, 500W
Anzahl Laser:	1
Anzahl Düsen:	2
Anzahl Perforationsreihen:	Up to 4 (2 je Düse)
Anzahl der Löcher:	5 – 21 pro Reihe
Ventilation:	Bis zu 80%
Produktionsgeschwindigkeit:	Up to 10.000 CPM

Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✗
Scoring	✗
Perforating	✓
Marking	✗

Product Picture



[See CigLine](#)

[See all Product Lines](#)

CigLine PerfLab

Description

Technology

Laserleistung (pro Laser):	250 W, 500W
Anzahl Laser:	1 - 2
Anzahl Düsen:	2 - 4
Anzahl Perforationsreihen:	Bis zu 16 (4 je Düse)
Anzahl der Löcher:	5 – 21 pro Reihe
Ventilation:	Bis zu 80%
Produktionsgeschwindigkeit:	Bis zu 1.700 CPM

Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✗
Scoring	✗
Perforating	✓
Marking	✗

Product Picture



[See CigLine](#)

[See all Product Lines](#)

CigLine OPD

Description

Technology

- Darstellung einzelner Perforationslöcher innerhalb der Kontrollzone
- Servoachse für schnelle und präzise Erkennung der Perforationszonen
- LiveView zur schnellen Einrichtung neuer Produkte
- LiveView bei Produktionsgeschwindigkeiten bis zu 500 m/min
- Anzeige der Messwerte in Coresta Units (CU)
- Messbereich: ca. 50 – 3600 CU

Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✗

Technologies

Cutting	✗
Scoring	✗
Perforating	✓
Marking	✗

Product Picture



See CigLine

See all Product Lines

MLT CustomLine Products

CustomLine Security



CustomLine Tape



CustomLine Grind



CustomLine Automotive



CustomLine Packaging



CustomLine Acoustics



CustomLine WindLas



[See all Product Lines](#)

CustomLine Security

Description

Complete Customized Solution incl. Laser Systems, Rewinder or Sheet Feeding System. (Roll-to-Roll or Sheet-to-sheet). The Systems are designed for Laser Perforation, Cutting, Marking of security documents, banknotes or passports. A wide range of Laser Sources and Scanner-technology enables laser processing on-the-fly (OTF).
Optionen:
→ Bogenförderer oder Wickelsysteme; → Kamerasystem z.B. zur Erfassung von Seriennummern oder Sicherheitsfeatures; → Systeme zur Feinpositionierung des Laserprozesses; → Qualitätskontrolle des Laserprozesses z.B. mittels Kamerasystemen

Technology

Laserleistung (pro Laser):	60 – 1.000 W
Lasertypen:	CO2-Laser, Faserlaser
Bearbeitungsköpfe:	2D- or 3D Galvo Köpfe, Scoring Köpfe, Perforation Köpfe
	100 – 500 mm
Bearbeitungsbereich (pro Kopf):	1
Laserklasse:	

Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✓

Product Picture



See CustomLine

See all Product Lines

CustomLine Tape

Description

The Customized System can be equipped with fixed optics for MD cutting or Scanner technology for free form cutting/scoring.
Laser Cutting or Scoring of self-adhesive tapes in machine direction (MD) or free form.
Controlled by the MLT control software the system cuts even during ramp-up and ramp-down of the rewinder.
Precisely controlled Laser power enables cutting of labels (kiss-cut)
The fully framed laser system (laser class1) can be integrated into existing rewinding systems including signal transfer, mechanical adaptation and shared emergency-stop circuit.

Technology

Laserleistung (pro Laser):	60 – 1.000 W
Bearbeitungsköpfe:	2D- oder 3D Galvo Köpfe, Scoring Köpfe, Perforation Köpfe
Bearbeitungsbereich (je Kopf):	100 – 500 mm
Laserklasse	1

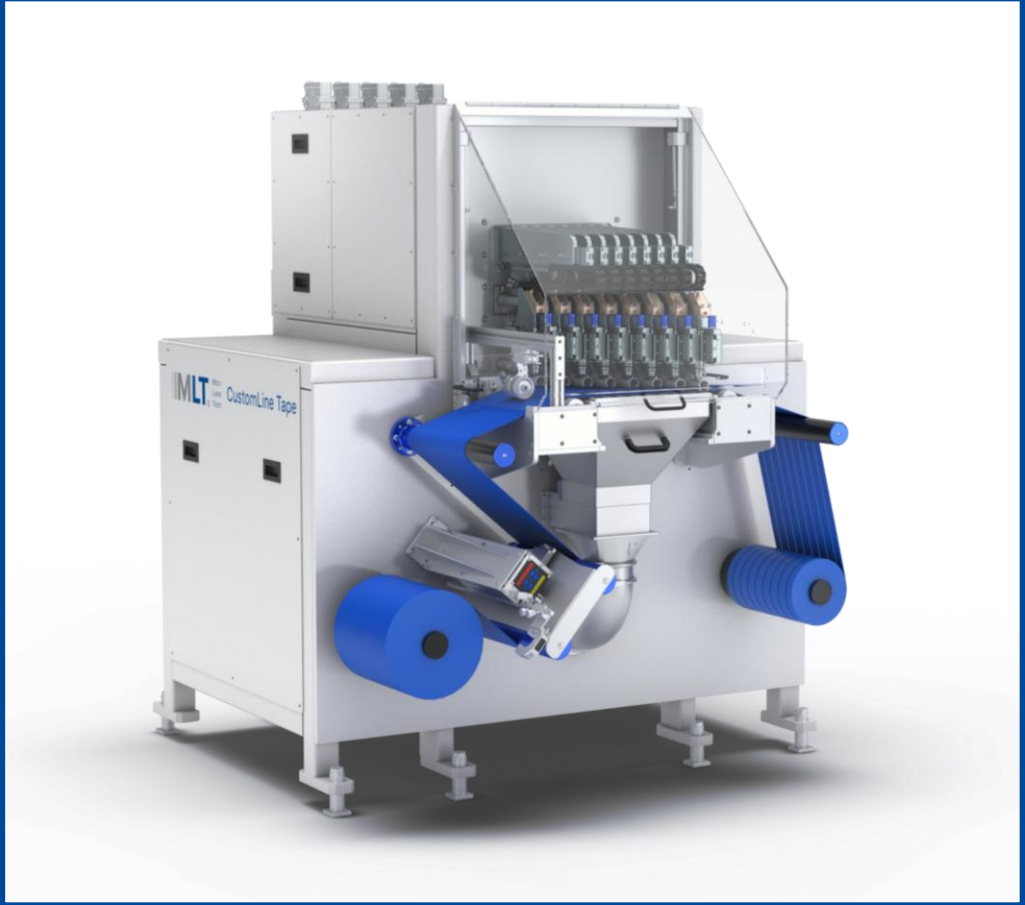
Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✗

Product Picture



[See CustomLine](#)

[See all Product Lines](#)

CustomLine Grind

Description

Customized Laser Cutting System for cutting a wide range of Abrasive products.
The Turnkey System includes Unwinding and Rewinding-Stations, high power Lasers, Scanner cutting optics, active tension control of the web completed by a high volume Filter system.

Optionen:

- Zu- und Abführsysteme
- Robotersystem z.B. zur automatisierten Abstaplung
- Kamera Systeme

Technology

Laserleistung (pro Laser):	500 – 2.000 W
Bearbeitungsköpfe:	3D Galvo Köpfe
Bearbeitungsbereich:	Bis zu 500 mm
Typische Produktivität:	bis zu 100 Schleifscheiben pro Minute
Laserklasse	1

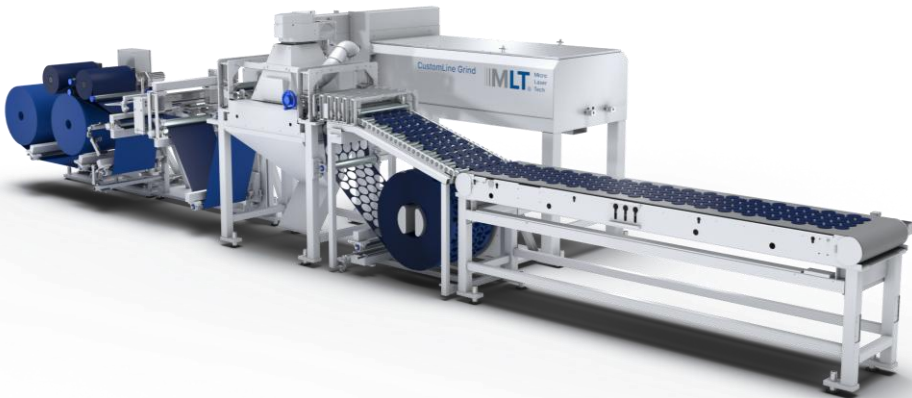
Processing Directions

Web direction	✓
Crossweb direction	✗
Free form applications	✓

Technologies

Cutting	✓
Scoring	✗
Perforating	✗
Marking	✗

Product Picture



[See CustomLine](#)

[See all Product Lines](#)

CustomLine Automotive

Description

Integrated solutions are required for complex manufacturing processes. Suitable lasers and optics are perforating, cutting, and marking components such as air and oil filters, leather and wood interior trim, insulating tape for cable harnesses and alternators. The laser systems are built using the MLT technology module system in the optimal configuration for the respective application.

Technology

Laserleistung (pro Laser):	100 – 2.000 W
Lasertyp:	CO2-Laser, Faserlaser
Bearbeitungsköpfe:	2D- or 3D Galvo Köpfe, Scoring Köpfe, Perforation Köpfe
	100 – 500 mm
Bearbeitungsbereich (pro Kopf):	1
Laserklasse	

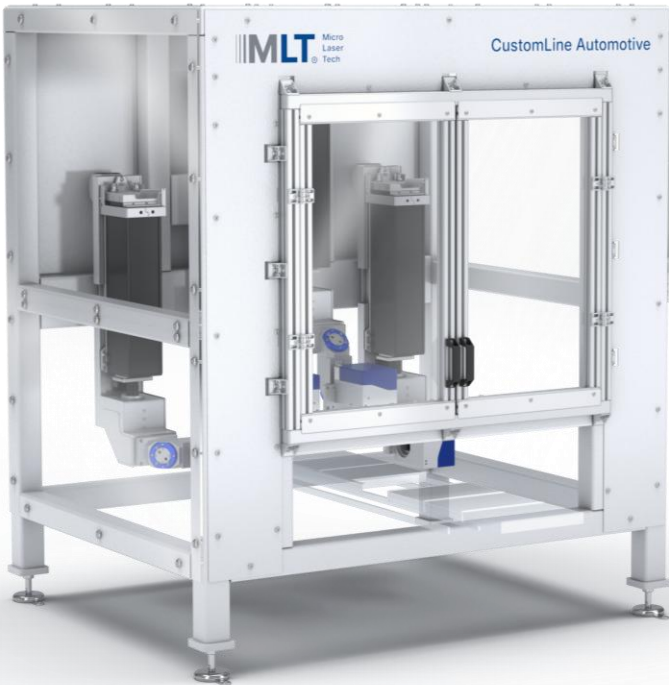
Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✓

Product Picture



[See CustomLine](#)

[See all Product Lines](#)

CustomLine Packaging

Description

Custom-built machines for various applications for the packaging industry.
Systems for very specific requirements in the packaging industry. If the material to be processed is very wide or very high processing speeds (650 m/min) are required, high-end equipment is an absolute necessity. For wide materials (several meters), the machine frame must be very sturdy to accommodate up to 14 lasers. At high speeds, only the best deflection heads can be used for 24/7 operation.

Technology

Laserleistung (pro Laser):	100 – 600 W
Bearbeitungsköpfe:	2D- or 3D Galvo Köpfe, Scoring Köpfe, Perforation Köpfe
Bearbeitungsbereich:	100 – 500 mm
Laserklasse	1

Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✓

Product Picture



[See CustomLine](#)

[See all Product Lines](#)

CustomLine Acoustics

Description

Custom-built machines are perforating wall panels for sound absorption. Several Optics across the panel perforation holes in a grid of e.g. 4x4mm.
The system includes a conveyor with loading and unloading position.
A optional robot loads and unloads the panels from a palette.

Technology

Laserleistung (pro Laser):	200 – 500 W
Bearbeitungsköpfe:	2D- or 3D Galvo Köpfe in Spezialausführung für konstante Lochform im gesamten Arbeitsbereich
Bearbeitungsbereich (pro Kopf):	bis zu 500 mm
Plattengröße:	Breite bis 2 m, Länge bis 4 m, weitere auf Anfrage
Laserklasse	1

Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✗
Perforating	✓
Marking	✗

Product Picture



[See CustomLine](#)

[See all Product Lines](#)

CustomLine WindLas

Description

Custom-built machines for processing of narrow web material.
The system can e.g. kiss-cut labels of any shape, cut fabric tapes, selectively weakening of lid films for coffee capsules or yogurt trays (easy opening) during the rewind process (On-The-Fly)
The specially designed MLT rewinder supplies a very constant speed with a precise ramp-up and ramp-down.
The single integrated PLC controls all moduls like rewinder, laser and process optic.

Technology

Laserleistung (pro Laser):	100 – 500 W
Lasertyp:	CO2-Laser, Faserlaser
Bearbeitungsköpfe:	2D- or 3D Galvo Köpfe, Scoring Köpfe, Perforation Köpfe
Bearbeitungsbereich (pro Kopf):	Bis zu 500 mm
Winding speed:	Bis zu 400 m/min
Materialbreite:	bis zu 550 mm
Laserklasse:	1

Processing Directions

Web direction	✓
Crossweb direction	✓
Free form applications	✓

Technologies

Cutting	✓
Scoring	✓
Perforating	✓
Marking	✓

Product Picture



[See CustomLine](#)

[See all Product Lines](#)