

Laser Excellence



CustomLine Security®

Laser Systems for Currency and Identity



microlasertech.com

High-Precision Security

CustomLine Security®



Complete Laser System

System for Laser Micro Perforation, including sheet handling unit and camera inspection systems



Cutting



Scoring



Perforation



Marking

Technical Specifications

Laser power per laser
60 W to 1,000 W

Laser types
CO₂ lasers, fiber lasers

Processing heads
2D or 3D galvo heads, scoring heads,
perforation heads

Processing range per head
100 – 500 mm

Laser class
Class 1

Options

Material handling
Sheet feeders or winding systems

Detection & inspection
Camera systems for detecting serial
numbers or security features

Process positioning
Systems for precision positioning of
the laser process

Process monitoring
Laser process quality control,
e.g. using camera systems

Processing Directions

Web direction (WD) ✓

Crossweb direction (CW) ✓

Free form applications ✓

SYSTEM BENEFITS

Precision and Process Security

CustomLine Security® combines precise laser processing with reliable operation and flexible configuration. From compact R&D systems and integrated modules to complete production systems, each solution is tailored to the application, with software-controlled layouts for security features and variable data.

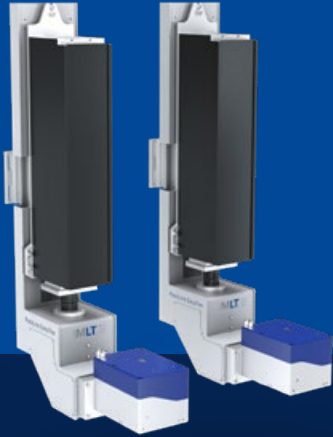
APPLICATIONS

Suitable for

- ✓ Banknotes & security documents
- ✓ Passports & identity cards
- ✓ Micro-perforation & security features
- ✓ Variable data & serial numbers

System Integration

Laser modules for integration in machines and production systems



Research and Development

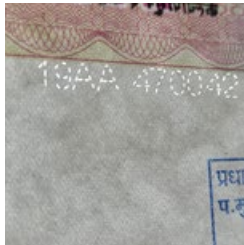
Compact laser system for R&D purposes or production of small batches



Application Examples



Banknotes



Security Documents



Passports



Notes



Labels

FIELDS OF USE

Security Documents

Laser technology creates highly precise security features that are extremely difficult to reproduce using conventional printing or copying methods. Typical applications include micro-perforations, dot-matrix structures, individual serial numbers, security windows, logos and other precisely defined features on cotton paper and polymer substrates.

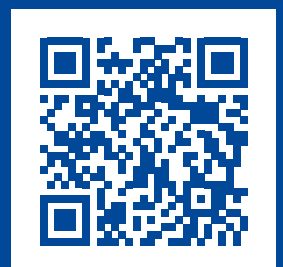
Identity Documents

Laser processing enables permanent, tamper-resistant security features for passports and identity documents. Typical applications include dot-matrix perforation, precision-cut windows in polycarbonate data pages, microtext, security patterns, laser portraits and coded serial numbers.



MLT Micro Laser Technology GmbH
Benzstr. 5b | 85551 Kirchheim b. München
Germany

+49 (0) 89 90 11 96 700
contact@microlasertech.com



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