SISTEM
Print Solution

Golden Laser

LASER DIE CUTTING SYSTEMS

Roll to roll · compact label finishing

LC-230

Digital Laser Die Cutter for Labels

Compact digital finishing for short-run labels — the ideal partner for your digital press.



The LC-230 is a compact, cost-effective roll-to-roll laser die cutter for label converting. With a 230 mm web width it complements digital presses perfectly, finishing roll-to-roll or roll-to-sheet without tooling or die costs and without downtime between patterns — built for short runs and just-in-time production.

230 mm
Max web width (9″); 210 or 250 mm on request

60 m/min
Max web speed (depends on laser power, material and pattern)

±0.1 mm
Cutting accuracy and cut-to-print registration

100–300 W
CO_2 RF laser power; picosecond and UV options

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SISTEM Print Solution doo
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COMPACT DIGITAL LABEL FINISHING

Print digitally, finish digitally — no dies, no waiting.

The LC-230 brings laser die cutting to label printers at a lower investment. Pattern changeover is as simple as opening a file, so short runs, variable jobs and urgent orders can be finished as soon as they come off the press.

Barcode readers change patterns on the fly, and stackers or pick-and-place robots can be added for full automation. Laser scan heads, slitting, lamination, varnishing and sheeting modules adapt the line to each customer's process.

STANDARD VERSION

- ● Unwinding with closed-loop tension control
- ● Electronic web guide
- ● Laser cutting station
- ● Waste matrix removal
- ● Rewinding (single or dual)
- ○ Ready for slitting, lamination, UV varnish, sheeting and more

KEY FEATURES

01
Quick turnover
No die fabrication, maintenance or storage — ideal for short runs and just-in-time orders.

02
Precision cutting
Complex geometry and quality that conventional die cutting cannot easily match.

03
Multiple processes in one pass
Full cut, kiss-cut, perforating, micro-perforating, engraving, marking and creasing.

04
Vision system — cut to print
Camera or sensors register print and pre-cut shapes for 0.1 mm cut-to-print registration.

05
Unlimited cutting path
The beam moves in any direction — rounded, square or jagged edges for shaped labels.

06
Intelligent software
In-house algorithms adapt laser speed to each graphic to improve accuracy.

07
PC workstation
Manage all laser station parameters and optimise layout for maximum yield.

08
Digital workflow
Pattern changeover by opening a file — no downtime and no setup.

09
Modular design
A wide range of options automates and adapts the system to any converting requirement.

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PROCESS LINE



1	2	3	4	5	6	7
Unwind	**Web guide**	**Varnish / laminate**	**Laser cutting**	**Matrix removal**	**Slitting**	**Rewind / sheet**
Closed-loop tension, Ø 400 mm	Ultrasonic edge sensor	UV varnish, lamination	1–2+ scan heads, vision	Waste stripping	Razor, shear, score cut	Single, dual or sheeting

● Standard ◌ Optional module

TECHNICAL SPECIFICATIONS

Model	**LC-230**
Laser source	**CO_2 RF laser** Picosecond and UV laser available as options
Laser power	**100 W / 150 W / 200 W / 300 W**
Max web width	**230 mm / 9″** 210 mm or 250 mm on request
Max feeding width	**240 mm / 9.4″**
Max web diameter	**400 mm / 15.7″ (unwind and rewind)**
Max web speed	**60 m/min** Depending on laser power, material and cut pattern
Cutting accuracy	**±0.1 mm**
Processing	**Roll to roll · roll to sheet**
Power supply	**380 V, 50/60 Hz, three-phase**

CONFIGURATION

Unwinder
Closed-loop tension control, max diameter 400 mm

Web guiding system
Electronic web guide with ultrasonic edge-guide sensor

Laser cutting
One or two scan heads; three or more on request. Multi-station galvo + XY gantry available

Lamination
Two pneumatic shafts with unwind / rewind

Slitter
Optional shear slitter or razor-blade slitter

Rewinder + matrix removal
Single or dual rewinder, closed-loop tension, max 400 mm

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OPTIONAL MODULES

- Slitting — razor, scissor (shear) and score cut
- Lamination — self-wound, with or without liner
- Back score (slit) the liner
- Waste matrix rewinder with label shifter and back-scorers
- Waste collector or conveyor for through-cut
- UV varnishing
- Bar code reading — on-the-fly job change
- Liner change assembly (top or bottom)
- Sheeting unit
- Stacking unit and pick-and-place robots

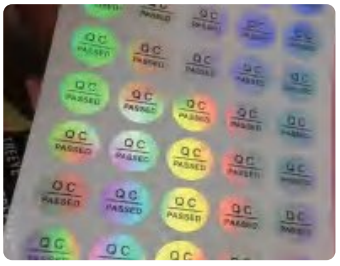
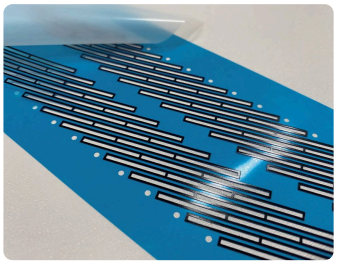
APPLICABLE MATERIALS

Paper · Coated paper · Glossy / matte paper · Synthetic paper · Kraft paper · PET / PET film · PP · BOPP · PE · TPU · Plastic films · Double-sided tape · 3M VHB tape · Reflective material · Micro-finishing / lapping film · Fabrics

APPLICATION FIELDS

Labels · Stickers & decals · Printing & packaging · Films & tapes · Heat transfer films · Retro-reflective films · Adhesive & 3M tapes · Industrial tapes · Abrasives · Automotive · Gaskets · Membrane switches · Electronics

APPLICATIONS


Protective films, holographic and security labels, double-sided tapes and technical parts.

Find the right configuration for your production.
Our specialists will help you choose laser power, modules and web width for your labels.

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Due to continuous product improvement, appearance and specifications may change without notice. Machine body colours can be customised. Application photos are illustrative.

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