SISTEM Print Solution

Golden Laser

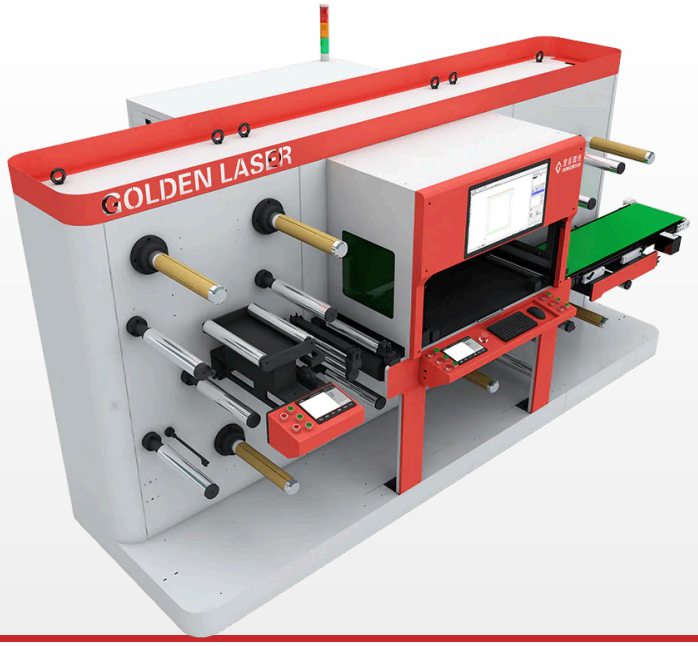
LASER DIE CUTTING SYSTEMS

Roll to part · roll to roll · roll to sheet

LC-350

Roll to Part Laser Die Cutting Machine

Fully cut parts from roll stock, separated and delivered on a conveyor — no dies required.



The LC-350 Roll to Part is a laser die cutting system for converters who need to fully cut labels, stickers and film components from roll stock and collect the finished products. An extraction mechanism separates each cut part onto a conveyor, while the same machine can also run as a roll-to-roll or roll-to-sheet finishing system.

350 mm	**120 m/min**	**±0.1 mm**	**150–600 W**
Max web width (13.7″); customisable	Max web speed (depends on laser power, material and pattern)	Cutting accuracy and cut-to-print registration	CO_2 RF laser power

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SISTEM Print Solution doo

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FROM ROLL TO FINISHED PART

Cut, extract and collect finished parts — in one continuous process.

Instead of leaving labels on the liner, the LC-350 Roll to Part fully cuts each piece and an extraction mechanism separates it onto a conveyor, ready for collection or stacking. Pattern changeover is as simple as opening a file, with no tooling, setup or downtime.

One machine covers roll-to-part, roll-to-roll and roll-to-sheet work. Barcode reading, extra laser units, slitting, lamination, UV varnish and stacking modules adapt the line to each customer's process.

STANDARD VERSION

- ● Unwinding with closed-loop tension control
- ● Electronic web guide
- ● Laser cutting station
- ● Part extraction mechanism
- ● Conveyor for finished parts
- ○ Ready for slitting, lamination, UV varnish, rewinding, sheeting and stacking

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 cutting, kiss-cut, perforating, micro-perforating, engraving, marking and creasing.

04
Vision system (optional)
Cameras 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. **Unwind** — Closed-loop tension, Ø 750 mm
2. **Web guide** — Ultrasonic edge sensor
3. **Varnish / laminate** — UV varnish, lamination
4. **Laser cutting** — 1–2+ scan heads
5. **Part extraction** — Parts separated from the web
6. **Conveyor** — Finished parts collected
7. **Stack / rewind** — Stacking, rewind or sheeting

● Standard ◌ Optional module

TECHNICAL SPECIFICATIONS

Model	**LC-350 Roll to Part**
Laser source	**CO_2 RF laser**
Laser power	**150 W / 200 W / 300 W / 600 W**
Max web width	**350 mm / 13.7″** Customisable
Max feeding width	**370 mm**
Max web diameter	**750 mm / 23.6″**
Max web speed	**120 m/min** Depending on laser power, material and cut pattern
Cutting accuracy	**±0.1 mm**
Processing	**Roll to part · roll to roll · roll to sheet**
Part handling	**Extraction mechanism with conveyor**
Power supply	**380 V, 50/60 Hz, three-phase**

CONFIGURATION

Unwinder
Closed-loop tension control, max diameter 750 mm

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

Slitter
Optional shear slitter or razor-blade slitter

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

Lamination
Two pneumatic shafts with unwind / rewind

Part extraction + conveyor
Separates finished cut parts and carries them out for collection

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OPTIONAL MODULES

- Slitting — razor, scissor and score cut
- Lamination — including self-wound with liner
- Back score (slit) the liner
- Additional laser units (single or dual scan head)
- Sheeting unit
- Dual rewinder
- UV varnishing
- Bar code reading — on-the-fly job change
- Liner change assembly (top or bottom)
- Waste matrix rewinder with label shifter and back-scorers
- Waste collector or conveyor for through-cut
- Stacking unit

APPLICABLE MATERIALS

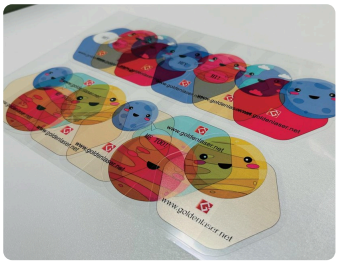
Stickers & decals · PE film · PET labels · Paper labels · BOPP labels · Membrane switches

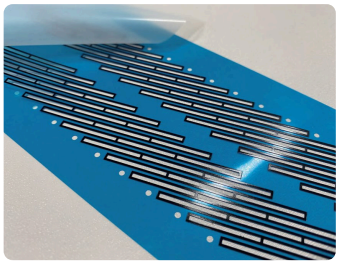
APPLICATION FIELDS

Labels · Stickers & decals · Printing & packaging · Medical · Abrasives · Industrial · Automotive · Gaskets · Membrane switches · Electronics

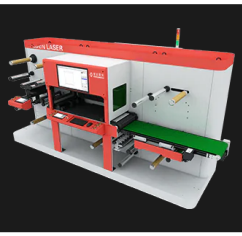
APPLICATIONS





Labels, shaped stickers and decals, film and tape components.



Find the right configuration for your production.

Our specialists will help you choose laser power, modules and part handling for your application.

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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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