SISTEM Print Solution

Golden Laser

LASER DIE CUTTING SYSTEMS

Sheet-fed · small format

LC-5035

Sheet-fed Laser Die Cutter

From automatic sheet loading to collection — digital die cutting without dies.



The LC-5035 is a CO_2 laser cutting system with an automatic sheet feeder that handles the whole process, from loading through to collection. A high-precision vision system registers every sheet for accurate cut-to-print results. Designed mainly for paper materials in the print market, it also processes films, plastics, leather and fabrics.

350×500 mm	**±0.1 mm**	**150–600 W**	**0 dies**
Max cutting area (customisable)	Cutting accuracy and cut-to-print registration	CO_2 RF laser power	Job change by opening a file — reload in minutes

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DIGITAL SHEET-FED DIE CUTTING

Small-format batches of complex patterns — fast, precise and tool-free.

Sheets are fed automatically, located by registration sensors and vision cameras, cut by the laser and collected — with no cutting dies to make, store or change. The system responds quickly to short runs and large-volume orders alike.

It works offline with a sheet feeder for digital converting, in-line with conveyors, or fully automated from in-feed to sorting with stackers and pick-and-place robots. Machine body colours can be customised.

BENEFITS

- Increased productivity
- Tool-free, defect-free cutting
- Fewer layout limitations
- Lower scrap material costs
- Job reloads in minutes
- Consistent, repeatable cut-to-print registration

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 superior quality that conventional die cutting cannot replicate.

03

Multiple processes in one run

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

04

Vision system — cut to print

Cameras or sensors register printed marks and pre-cut shapes for 0.1 mm cut-to-print registration.

05

Unlimited cutting path

The galvo beam moves in any direction — rounded or square corners, jagged edges and fine lace patterns.

06

Intelligent software

In-house algorithms constantly adapt laser speed to each graphic to improve accuracy.

07

PC workstation

Manage all laser station parameters and optimise layout for maximum sheet yield.

08

Digital workflow

Pattern changeover is as simple as opening a file — no downtime and no setup.

09

Modular design

A wide range of options automates and adapts the system to each converting requirement.

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HOW IT WORKS

1. **Automatic loading**
   Sheet loader with liftable platform feeds the work area
2. **Registration**
   Sensors and vision cameras locate print and sheet orientation
3. **Laser processing**
   Cut, score, perforate or kiss-cut in one pass
4. **Collection**
   Finished sheets removed manually or automatically

TECHNICAL SPECIFICATIONS

Model	**LC-5035**
Design type	**Sheet-fed, small format**
Laser type	**CO_2 RF laser**
Laser power	**150 W / 200 W / 300 W / 600 W**
Max cutting width	**350 mm** Customisable
Max cutting length	**500 mm** Customisable
Cutting accuracy	**±0.1 mm**
Laser beam positioning	**Galvanometer**
Recognition	**High-precision vision system, registration sensors** Bar code reader optional
Cutting die	**Not required**
Dimensions (L×W×H)	**3.555 × 1.535 × 1.805 m**

MODULES & CONFIGURATION

Automatic feeding module
Loading with a liftable platform for continuous, stable feeding

Vision & registration
Vision cameras or sensors detecting printed fiducials for precise cut placement

Bar code reader
Optional — variable print processing and on-the-fly job change

Laser cutting module
Single, dual or multi-head lasers, chosen by throughput and material

Collecting module
Automatic collection with a range adjustable to the sheet size

Custom finish
Machine body colours available to order

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OPTIONAL CONVERTING MODULES

- Single or dual laser cutting module
- Lamination station
- Camera system
- Part extraction module
- Pick-and-place robots
- Multiple working areas
- Bar code reading — on-the-fly job change
- Waste collector or conveyor for through-cut
- Stacking unit
- Integration with sheet feeders and in-line conveyors

APPLICABLE MATERIALS

Glossy paper · Coated paper · Self-adhesive paper · Kraft paper · Fluorescent paper · Pearlescent paper · Cardstock · PET · BOPP · PP · Plastics · Vinyl · Foils · Leather · Fabric

APPLICATION FIELDS

Labels · Printing & packaging · RFID · Automotive · Membrane switches · Abrasives · Industrial · Gaskets · Flexible circuitry

APPLICATIONS









Decorative boxes, lace-cut greeting cards, stickers and labels, product tags.

Find the right configuration for your production.
Our specialists will help you choose laser power, working area and automation level for your application.

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Due to continuous product improvement, appearance, specifications and dimensions may change without notice. Application photos are illustrative.

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