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Precise / Efficient / Stable / Intelligent

IECHO LASER DIE CUTTING MACHINE LCT2



A PROVIDER OF INTELLIGENT CUTTING

INTEGRATED SOLUTIONS FOR THE NON-METAL INDUSTRY

IECHO was established in 1992 and went public in March 2021. Over the past 30 years, IECHO has always adhered to independent innovation, a "professional" R&D team, continuous technological innovation, "fast" industry insight, and continuous injection of new blood, completing every growth and transformation, and improving the full coverage of the non-metal industry. Reach high-quality cooperation with many industry leaders.

4 National standard 1 Industry standard 72+ Invention patent 179+ Patent 147+ Software copyright

100+ R&D personnel 7%+ R&D investment 4000+ Annual capacity 2000+ Process standard 461+ Staff

35000+ Customers 100+ Sales countries and regions 60+ Industry coverage 30+ National outlets 300+ Global outlets

IECHO LASER DIE CUTTING MACHINE

IECHO LCT2 laser die-cutting machine is a high-performance digital laser processing platform integrating automatic feeding, automatic deviation correction, laser flying cutting, and automatic waste removal. The platform is suitable for different processing modes such as roll-to-roll, roll-to-sheet, sheet-to-sheet, etc. It is mainly used in the process of full cutting, half cutting, flying line, punching and waste removal of non-metallic materials such as sticker, PP, PVC, cardboard and coated paper. The platform does not require cutting die, and uses electronic files import to cut, providing a better and faster solution for small orders and shorter lead times.



LCT2 Laser die cutting machine core technology



No need cutting die



Fly-cutting



Ultrasonic correction



Metal RF Laser



QR dynamic image changer



Cutting database



Remote diagnosis



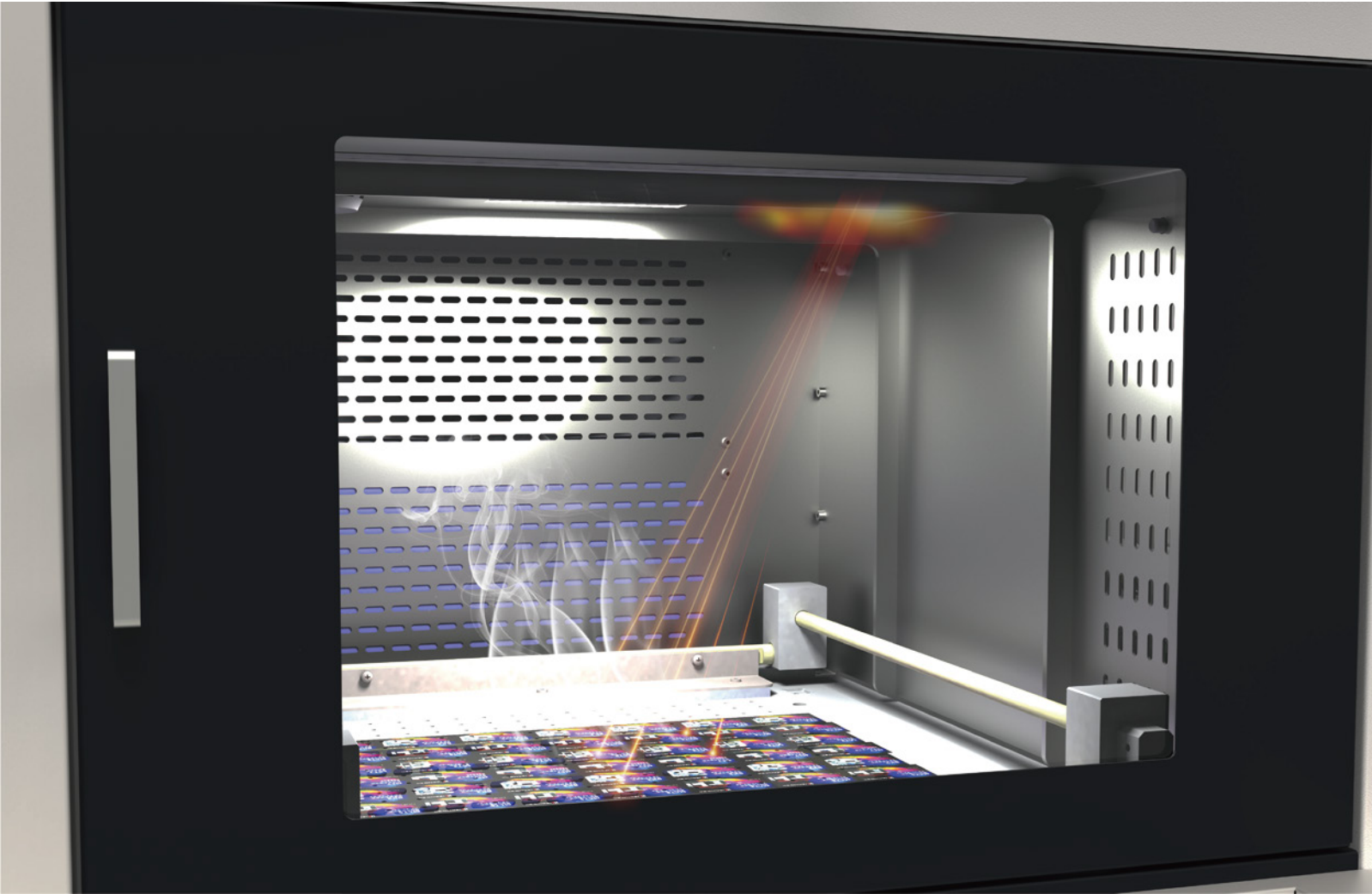
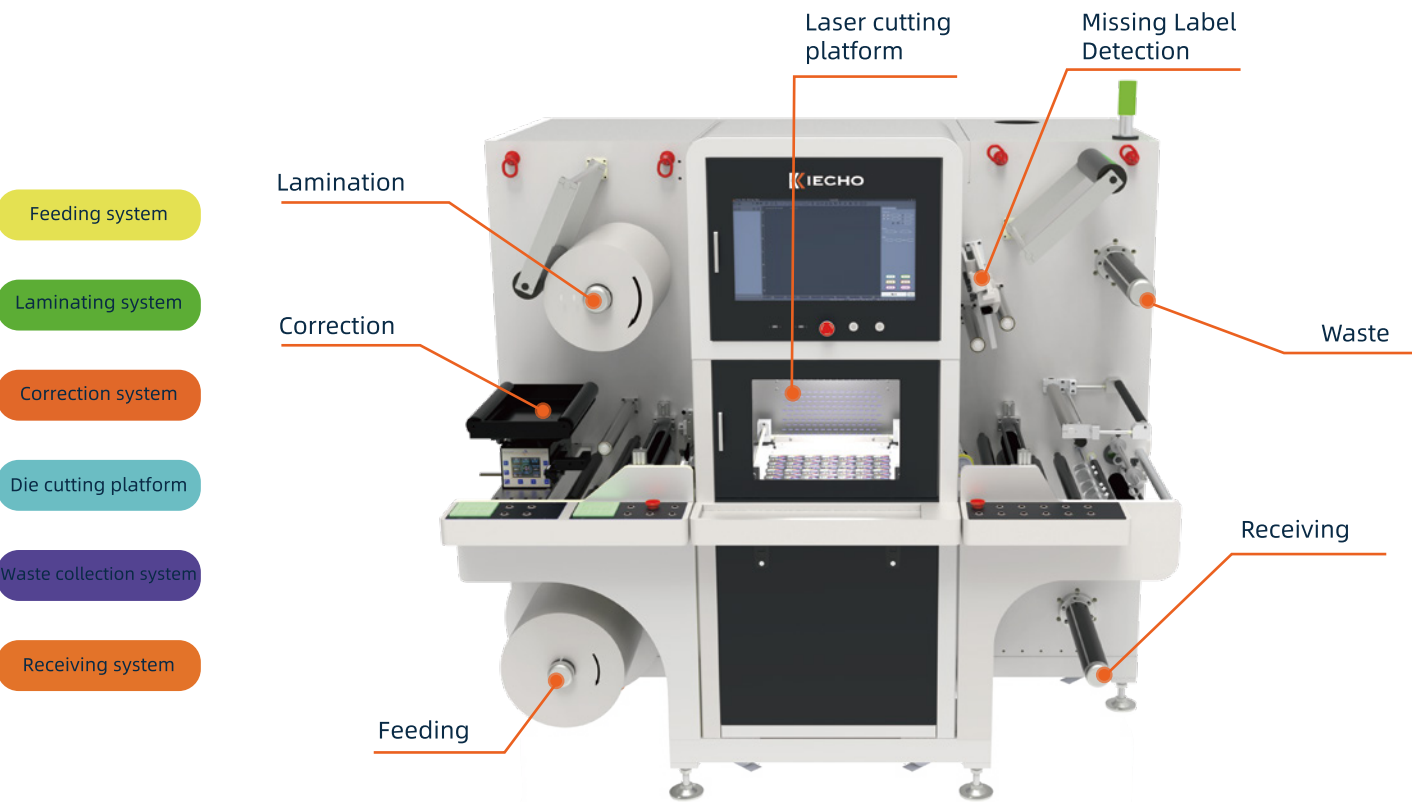
Intelligent monitoring



Mobile Internet



Unattended



Convection smoke removal system

- Using source bottom blowing side row technology.
- The surface of the smoke removal channel is mirror-finished, easy to clean.
- Intelligent smoke alarm system to effectively protect optical components.

Mechanical structure

Machine body frame

- It adopts pure steel integral welded structure, and is processed by a large five-axis gantry milling machine. After anti-aging treatment, it ensures the precision and stability of the mechanical structure for long-term operation.

Moving parts

- Adopt servo motor and encoder closed-loop motion control system to ensure the system is accurate, stable and reliable.

Laser Processing System

- The photoelectric sensor is linked to realize the automatic positioning of the processing data.
- The control system automatically calculates the working time according to the processing data, and adjusts the feeding speed in real time.
- The flying cutting speed up to 5 m/s.

Feeding system

- The high-precision CNC machine tool is used for one-time processing and molding, and is processed by the deviation correction system to ensure the installation surface accuracy of various types of reels.

Laser cutting platforms

- Adopt high-precision aluminum alloy platform to ensure the consistency of laser die-cutting depth.

Laser box Photonic Integrated Circuit system

- Extend optical component life by 50%.
- Protection class IP44.



Intelligent Tension Control System

The feeding mechanism and the receiving mechanism adopt magnetic powder brake and tension controller, the tension adjustment is accurate, the start is smooth, and the stop is stable, which ensures the stability and accuracy of the material tension during the feeding process.



Ultrasonic Intelligent Correction System

- Real-time monitoring of working status.
- High dynamic response level and accurate positioning.
- Brushless DC servo motor drive, precision ball screw drive.

LCT2

laser die cutting actually measured speed

Discharge speed
46 m/min
(Laser cutting speed of 8 m/s)

