

## High speed plastic film laser perforating machine

**Introduce laser to manufacturing process**  
**Reform traditional machinery with technology**

Laser technology has been widely used in packaging, printing, medical and health fields. Laser micro processing also largely replaced the traditional mechanical perforation technology, such as plastic film bag laser drilling, cigarette filters tipping paper laser drilling, wound paste laser drilling, food antiseptic fresh-keeping agent packaging bag, osmotic pump drug laser drilling, leather laser drilling, roll surface of laser micropore etc. These are the successful applications of laser drilling technology.



### **GS-DKJ02 Laser punching system for plastic**

HAN'S GS always stands in the technology frontier, researching laser punching technology. GS-DKJ02 Laser punching machine is integration of laser, mechanical and electric control. The system adopts automatic production including control constant tension force, constant speed plastic delivery, dynamic laser tracking punching system, speed inspection and laser

power control. The high power density laser after focusing effect on the plastic surface to increase the temperature of the beam area to the melting point even boiling point within micro-second time; forming the laser punching hole. Meantime, the selective layer punching for plastic is feasible through the adjustment of the laser power.

## Main equipment technical indicator

Laser power: 55W, 100W 200W

Hole diameter:  $\phi$ 0.1- $\phi$ 0.2m

Hole length: plastic wrap length

Speed: 0-200m/min

Row space adjustment range: 0-20mm

Hole space adjustment range: 1-10mm

Row: 4 (can be set)

Area: 150-550mm

Horizontal adjustment travel of the shock

focus: 300mm

Vertical adjustment range: 50mm

Punching range: 60mm x 60mm

Single layer punching, Bottom layer without hole can be

## Chiller

The chiller is used for the cooling for laser generator to ensure the constant temperature working environment. We use HC045 air chiller produced by Hans Laser, the chiller equip with temperature gauge, liquid level, flow alarm. Easy setting and can be used for cooling for two sets of laser generator.

