

| PARTNERS

NXAN
创轩激光

YUEMING
大族粤铝激光
HAN'S YUEMING LASER

FV
凡文机械
FANWENMACHINE

gbos

MO
漢馬激光

G·WEIKE
金威刻激光

金运激光
GOLDEN LASER

卡琳激光
KASU LASER

 Tel: +86-0755-27958262

 Whatapp: 8613502863268

 Email: qiancheng@sztrocen.com

 Website: www.sztrocen.com

 Address: Room 1404, Building 1, Runzhi R&D Center,
No. 5, Runfang Road, Block 70, Xingdong Community,
Xin'an Street, Bao'an, Shenzhen, Guangdong

TROCEN



Motion control is TROCEN

Shenzhen TROCEN Automation Technology Co., Ltd

Company Profile

Focus on motion control Provide optimal motion control solutions!

Shenzhen TROCEN Automation Technology Co., Ltd. is head quartered in Shenzhen, China. As a national high-tech enterprise specializing in providing motion control products, we have been focusing on the development of the industrial automation motion control industry and providing leading, high-quality industrial automation motion control products and technical services to global users.

The company integrates R&D, manufacturing, sales and service. Strong R&D strength, professional R&D team, and perfect management mechanism can quickly respond to market demand and meet customer requirements.

At present, the company's products cover motion control, machine vision, laser cutting and engraving and other fields. Its excellent products include: vibrating knife cutting control system, laser motion control system, visual positioning recognition control system, punching motion control system, etc. They are widely used in digital printing, plush toys, outdoor advertising, consumer electronics, gift packaging, automotive interiors, textile clothing, industrial lighting, industrial robots, textile home furnishings, and many other fields, with users all over the world.

AWC7813

Single head laser controller



Main board features:

- | 5-inch FTF LCD touch screen, simple operation interface.
- | Full optocoupler isolates external electromagnetic interference, making the system stable and reliable.
- | Using high-speed DSP main control chip, fast computing speed and advanced motion algorithm.
- | Supports three communication methods: network, USB, and U disk.
- | Support Z-axis autofocus and Y-axis dual drive function.
- | Supports full-process air blowing, work air blowing, and layer air blowing.

Application scenarios:



Motherboard parameters:

- | Control accuracy: $\pm 0.01\text{mm}$
- | Number of control axes: 3 [X, Y, Z]
- | Supported laser types: CO2, RF
- | Number of laser heads supported: 1

I AWC7824K

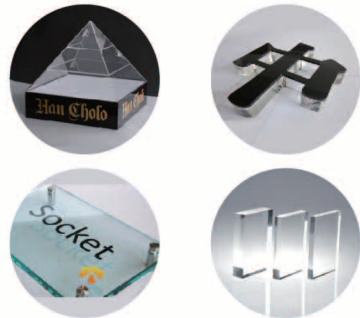
»» Double head laser controller



Main board features:

- | 4.3-inch FTF LCD touch screen, equipped with key operation panel and integrated touch buttons.
- | Using high-speed DSP main control chip, fast computing speed and advanced motion algorithm.
- | Support three communication methods: network, USB and U disk.
- | Support Z-axis autofocus, Y&Z-axis dual drive control, Y-axis dual limits.
- | Support super format cutting and mirror cutting.
- | Support roller cutting.

Application scenarios:



Motherboard parameters:

- | Control accuracy: $\pm 0.01\text{mm}$
- | Number of control axes: 4 (X, Y, Z, U)
- | Supported laser types: CO2, RF
- | Number of laser heads supported: 2

I TL5269

»» Dual-track asynchronous laser controller



Main board features:

- | It has the function of mutual movement of the 4 heads of a single beam, asynchronous double beams, and automatic feeding. The work of any single beam can be customized.
- | A variety of humanized positioning modes and return modes to facilitate operation by customers with different habits.
- | Supports intelligent diagnosis of system faults and automatically starts safety protection functions.
- | Support USB small camera template cutting, enabling identification and cutting at the same time.
- | Support MARK full-page material cutting and super-format cutting.
- | Supports accumulated processing time during working hours to facilitate efficiency improvement.

Application scenarios:



Motherboard parameters:

- | Control accuracy: $\pm 0.01\text{mm}$
- | Number of control axes: 9 (X1, Y1, Z1, V1, X2, Y2, Z2, V2, U)
- | Supported laser head type: CO2
- | Number of laser heads supported: 6-8

I TC6832

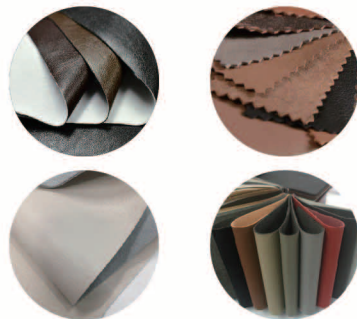
Single-track vibrating knife controller



Main board features:

- | All-optical technology completely isolates electromagnetic interference, making the system more stable.
- | Power-on reset, screen lock, emergency stop processing, three-color light status indication and other functions to enhance human safety protection.
- | Supports super-format cutting and is compatible with file formats generated by various mainstream typesetting software.
- | The product has rich functions, including V cutting, layered cutting, automatic identification and punching, intelligent partition adsorption, and detection platform.
- | One-click continuous cutting allows you to continue cutting after the file being processed is interrupted in any way.

Application scenarios:



Motherboard parameters:

- | Control accuracy: $\pm 0.01\text{mm}$
- | Number of control axes: 10
- | Control the number of cutter heads: 3

I TC7200T

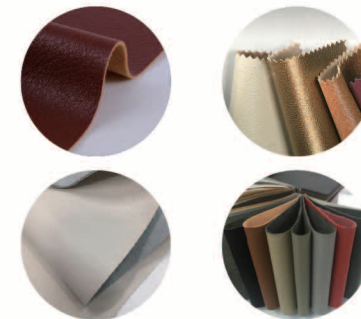
Dual-track asynchronous vibrating knife controller



Main board features:

- | Power-on reset, manual movement axis speed, screen lock, emergency stop processing, three-color light status indication and other functions to enhance human safety protection.
- | Supports super-format cutting and is compatible with file formats generated by various mainstream typesetting software.
- | Product has rich functions, including V cutting, automatic identification and punching, intelligent partition adsorption.
- | Double beams are asynchronous, for large-size graphics, double beams are cut at the same time to avoid and seamless splicing.
- | Supports statistics of accumulated working time, each beam can be tested individually or simultaneously on the platform.

Application scenarios:



Motherboard parameters:

- | Control accuracy: $\pm 0.01\text{mm}$
- | Number of control axes: 10
- | Number of control blades: 2

I Small CCD series

»» Net camera, USB camera



Camera features:

- | Using industrial cameras, fast recognition and high efficiency.
- | Intelligent optimization of cutting path.
- | Support multi-template matching processing.
- | Support MARK super format cutting.
- | Support MARK, template double-station cutting.

Application scenarios:

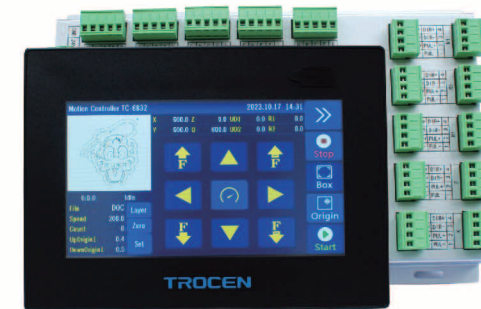


Camera parameters:

- | Camera accuracy: $\pm 0.1\text{mm}$
- | Camera model: NET camera, USB camera

I TC6832S

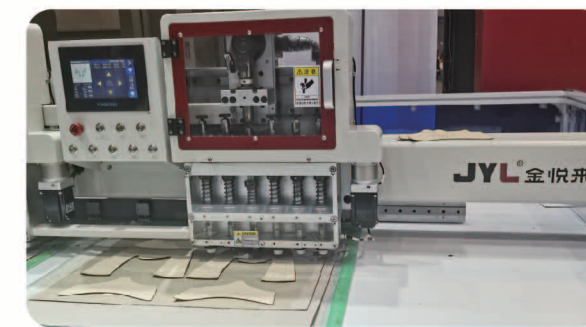
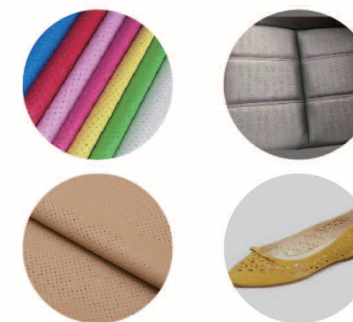
»» Punching system



Mainboard features:

- | Efficient and stable, path optimization without skipping.
- | Support charging after power outage.
- | Supports dual-station spindle and rotary axis signal output.
- | The software template automatically recognizes angles and no arrows are needed for drawing.
- | Support full offline work debugging.
- | Punching speed up to 1200/min.

Application scenarios:



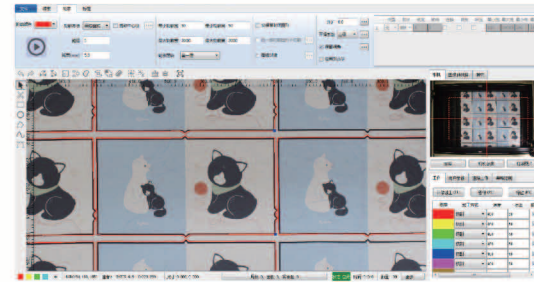
Mainboard parameters:

- | Control accuracy: $\pm 0.01\text{mm}$
- | Number of control axes: 10
- | Number of control punching heads: 8

I TrocenVision >>> Big CCD

Software Features:

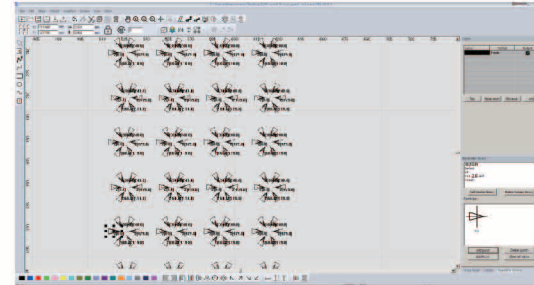
- | Rich image processing functions (sharpening, inverting colors, increasing black and white)
- | Supports automatic edge finding and template matching processing to achieve continuous cutting and identify and cut one version.



I PunchCAD >>> Punch software

Software Features:

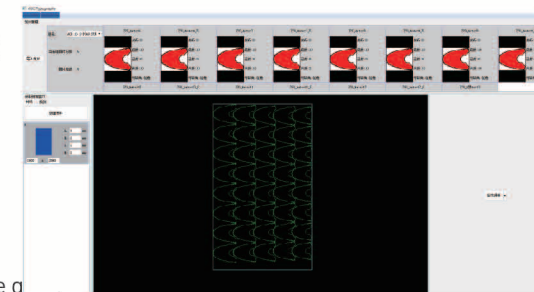
- | Support multiple file formats (PLT, DXF, CNC, AI, NC, SVG, GCODE, DAT, PTR)
- | Optimize data processing and improve efficiency
- | Import files for automatic typesetting, saving materials



I TrocenNesting >>> Nesting software

Software Features:

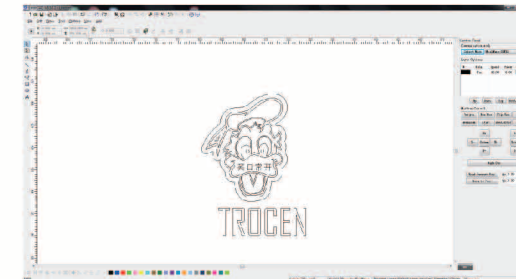
- | Supports zoning and arranging of leather materials of different grades,
- | supporting grouping and arranging by set, piece, pair, and style,
- | supporting the same material in the same group and supporting interlacing of pieces outside the group



I LASERCAD >>> Laser cutting software

Software Features:

- | Support CorelDraw, AutoCAD, Adobellustrator plug-in output.
- | Support G-CODE, AI, SVG, PDF, DXF, PLT, DST, DSB, UD5, BMP, GIF, JPG, PNG and other graphic formats.
- | Manual/intelligent automatic addition of bridge position function.
- | Intelligent extraction of bitmap outlines.
- | Clothing marking tools to facilitate customers to identify code numbers when processing clothing.
- | One-click processing of pictures on the Internet, brightness, contrast, and sharpening, easy to operate.



I TROCUTCAD >>> Vibrating knife cutting software

Software Features:

- | Automatic separation of notches; Support ink cartridge printing.
- | Support file transfer and cutting at the same time.
- | Support wireless keyboard control to facilitate remote offline operation.
- | Supports code scanning gun and camera to import cutting files by scanning code with one click.
- | supports continuous cutting after power failure, and the cut graphics will automatically change to another color in the software.

