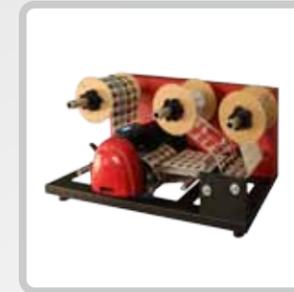




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# 2015 - 2016 PRODUCT CATALOG



## ABOUT SAGA

Founded in 2009, SAGA is a young and vibrant company. We are a professional cutting plotter/CNC Router/Label Cutter/Flat Bed Cutter/Garment equipment manufacturer, specializing in the development, design and manufacture of various types of equipment. We have a top-notch team, a research and development center in Shanghai and our factory in Hefei.

Our company is very strong in marketing and technology. The high quality competitive priced products we offer come with best in class service and support which enhances our customer relationships.

Our servo motor controller technology began development in 2005 and was completed in 2009. After substantial testing, development and field verification and confirmation of performance and quality, we are in production with equipment distribution in the USA, Germany, Brazil, Mexico, Sweden, Norway Australia, UK, India, Italy and many other locations. With substantial year over year growth in the industry, SAGA is now gaining notoriety as a top-tier brand.

Our goal is to provide the best quality equipment at the most competitive prices to all customers spanning the globe.

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# Printing & Cutting Solution for Prototyping / Small Production

## Applications:



**Label Printer**

**Rewinder**

**Label cutter**

### SG-LP002

#### Faster output, faster delivery

- maximum printing speed of 9m per minute (30feet/minute)
- high-capacity 256MB RAM and HDD 160GB to support big file

#### High-resolution label printing

- Highly stable digital LED engine
- Resolution of 600 X 1200dpi through toner base

#### Prompt and convenient data processing

- Printing maximum 1.2m-long labels
- Printing labels with user-preferred colors based on the color management by RIP software
- Convenient production of variable data such as barcodes, QR codes, and serial numbers (option)

#### Interface and software

- interface : High-speed USB, TCP/IP
- OS: Windows XP, Vista, Windows 2003, Windows 7
- S/W: Compose Rip S/W, Wasatch Rip S/W, Windows driver

#### Effective and economical printing work

- Various materials can be supported (art papers, certified PP and PET) and thickness.
- capacity of toner cartridge: (5% coverage of A4 sized paper) K-11,000 pages / CMY -11,500 pages
- capacity of Image Drums : 28,000
- capacity of transfer belt/fuser unit : 60,000
- The basic media of 215mm \* 200m

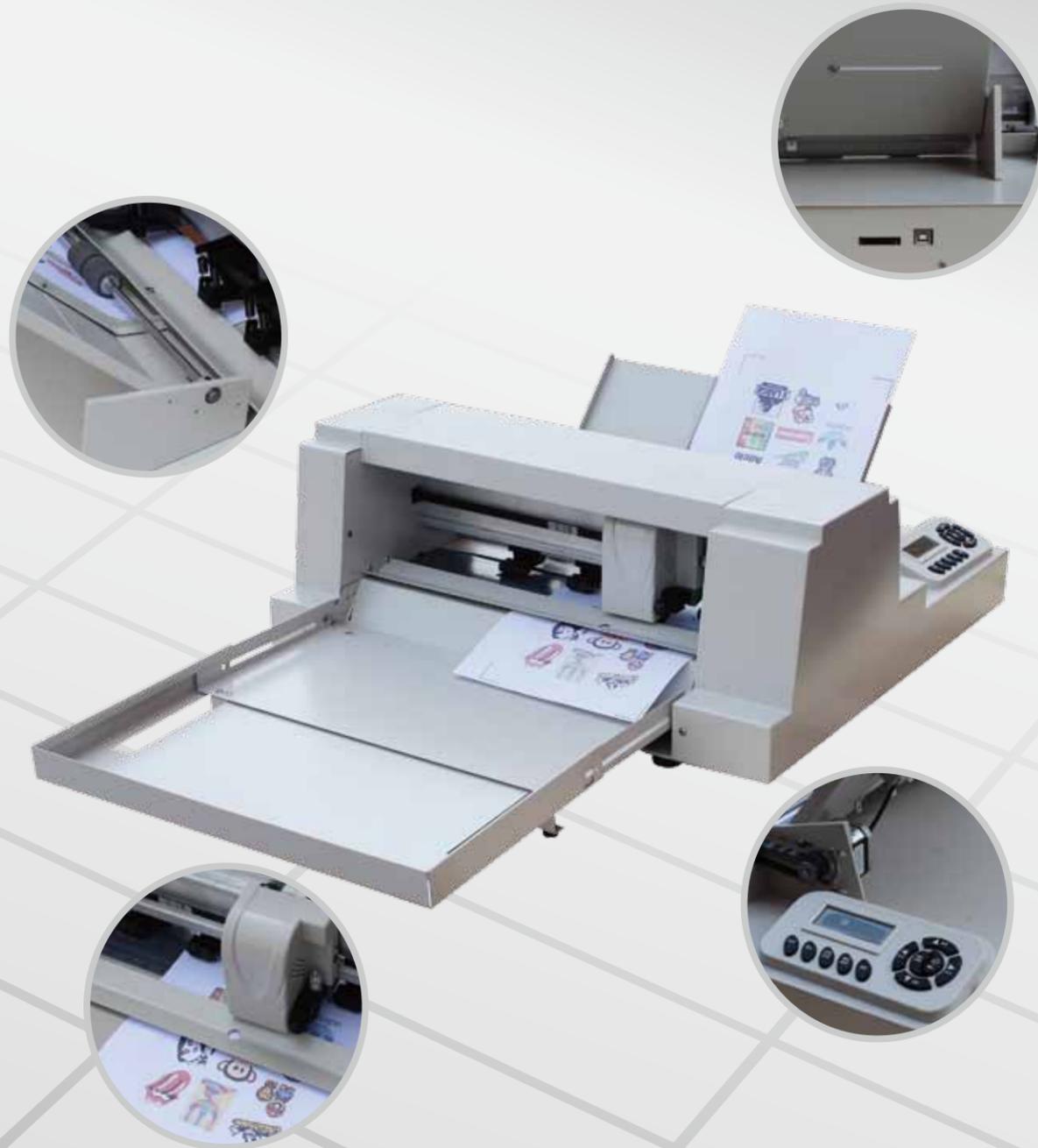
#### General characteristics

- Unwinder systems / Reminder systems (option)
- Automatic or manual cutting after printing
- Operating environment: Temperature 10°~32°, Humidity 20~80%
- Power supply : 220~240VAC, 50~60Hz
- power consumption : usual 600W, Maximum 1,300 W

### SG-LCP

- Suitable for prototyping or small production
- Contour cutting is performed automatically
- Perfect for low-cost, on-demand, short run labels, specialty labels of any shape, and helps reduce inventory.
- Max. cutting straight-line speed of 960mm/min
- Max. cutting curve-line speed of 600mm/min
- Max. media of 16"
- Max. cutting width of 12"
- Max. cutting length of 12" for one time
- Motor power: 25watt
- Max. down force: 750g (3g/step)
- CPU: 64 BIT dsp 32m Flash
- Encoder signal: physical 1016 line/round, logical 4064 line/round
- Repeating precision: 0.082mm
- Noise: 35 dB OR LESS
- Ambient temperature: 5 - 35 degrees
- With feeding system and rewinding system
- Servo control system, fast and quiet
- Direct USB, easy and reliable
- SD card memory: 4G, no need computer to run machine

# Sheet Cutting Machine



## Descriptions

- Lightweight spacesaving design, servo motor control system
- Constant paper feeding mechanism ensure continuous multi-sheet cutting
- Improved paper feeding system delivers consistent thinnk paper cutitng with zero paper jams
- Optimized paper induction system to direct the paper status automatically
- Unique mark system saves paper waste
- Automatic mark detection increases scan and cut accuracy
- Intelligent sensor design, seven sensors working in cooperation to deliver outstanding cutting results
- Max. straight line cutting speed, 960mm/s
- Max. force: 750g (3g/step)
- Max. media width: 16"
- Max. cutting width: 12"
- 0-3000 RPM time: < 20 MS (idle load); <1200 MS (working)
- Encoder signal: physical 1016 line/ round, logical 4064 line/round

## Applications:



# Industrial CNC Router



## Descriptions

- Integral cast-iron investment cast frame
- German made rolling ball screw, P5 grade linear rail
- 800W inverter-driven spindle motor, water-cooled
- Robust construction, easy operation, reliable performance
- Cuts plastic, wood, thin sheet metal, mild steel, copper, aluminum
- Applications include: advertising, stamps, handcrafts, thin sheet metal formed parts, wood signs, engraving, metal stencils, plastic stencils, PCB, nameplates, badges, seals, bronzing plate, aluminum alloy, acrylic plates, ABS resin double color plate, PVC foaming board, indentation plates, signs, construction models, instrument panels, wooden products

## Applications:



## Technical Specifications

|                |                                   |
|----------------|-----------------------------------|
| Item No.       | SG-3025                           |
| Working Area   | 11.8x9.8x2.4inches (300x250x60mm) |
| Max. Speed     | 177inches/min (4500mm/min)        |
| Resolution     | +/-0.0004inches (+/-0,01mm)       |
| Spindle Motor  | 800W(water-cooled)                |
| Driver         | Stepper motor                     |
| Dictate Format | G code or HPGL                    |
| Rail           | PMI & HIWIN                       |
| Control system | NC Studio                         |
| G.W./N.W.:     | 297/275lbs(135/125kgs)            |

# Flat Bed Cutter



## Features

- Direct USB makes the flat bed cutter reliable and convenient
- The linear guide of the flat bed cutter ensures high speed and few errors.
- The flat bed cutter feature imported digital servo drivers and their SD cards offer mass storage.
- The powerful compatible function enables connection with many different kinds of software.
- The flat bed cutter has an LCD touch screen in English or Chinese.
- The flat bed cutter feature intellectual order printing.

## Cutting Media

- Kinds of cardboard, kraft paper, plastic board, fibrous cardboard, rubber sheet and marking film etc.
- Pen & Blade Types
- Resolution: 0.01254
- Interface: USB and SD card
- Command Mode: HP-GL compatible format
- Max. Speed: 600mm/s
- Max. Cutting Depth: 1.2mm
- Media Fixture Method: Vacuum suction
- Repeat Precision:  $\leq 0.05\text{mm}$
- Max. down force: 1,000g
- Control system: Servo
- Power Supply: 110V or 220V
- Working Environment: 5 to 35 Degrees
- Effective Cutting Area: 400mm\*600mm

## Applications:



## Mini Cutting Plotter

*The Saga mini cutter is a personal craft electronic cutter, plug and run with a USB cable or SD card. It has the ability to cut designs that have been printed and can cut paper, vinyl, fabric, and cardstock, along with many other materials.*

*Come with a Saga Mini-Cutter and Dragon Cut - Craft Edition, easily create signs and craft designs, then cut these directly from paper and card.*



### Descriptions

- Automatic registration mark system(ARMS), automatic contour cutting
- SD card, run cutters without a computer
- Up to 14.5" wide cutting size
- Up to 16" wide media size
- Straight-line Max. Speed: 32 inches/s (800 mm/s)
- Curve Max. speed: 11.8 inches/s (300 mm/s)
- Motor & Driver: Stepper motor
- Motor power: 40 watt
- Stepper motor speed: 0-1200 RPM
- 0-1200 RPM time: < 20 MS (idle load); <1200 MS (working)
- Encoder signal: physical 1016 line/ round, logical 4064 line/round
- Max. Force: 510g (2g/step)
- CPU: 16bit
- Mechanical Resolution: 0.001inches/pulse (0.0254 mm/pulse)

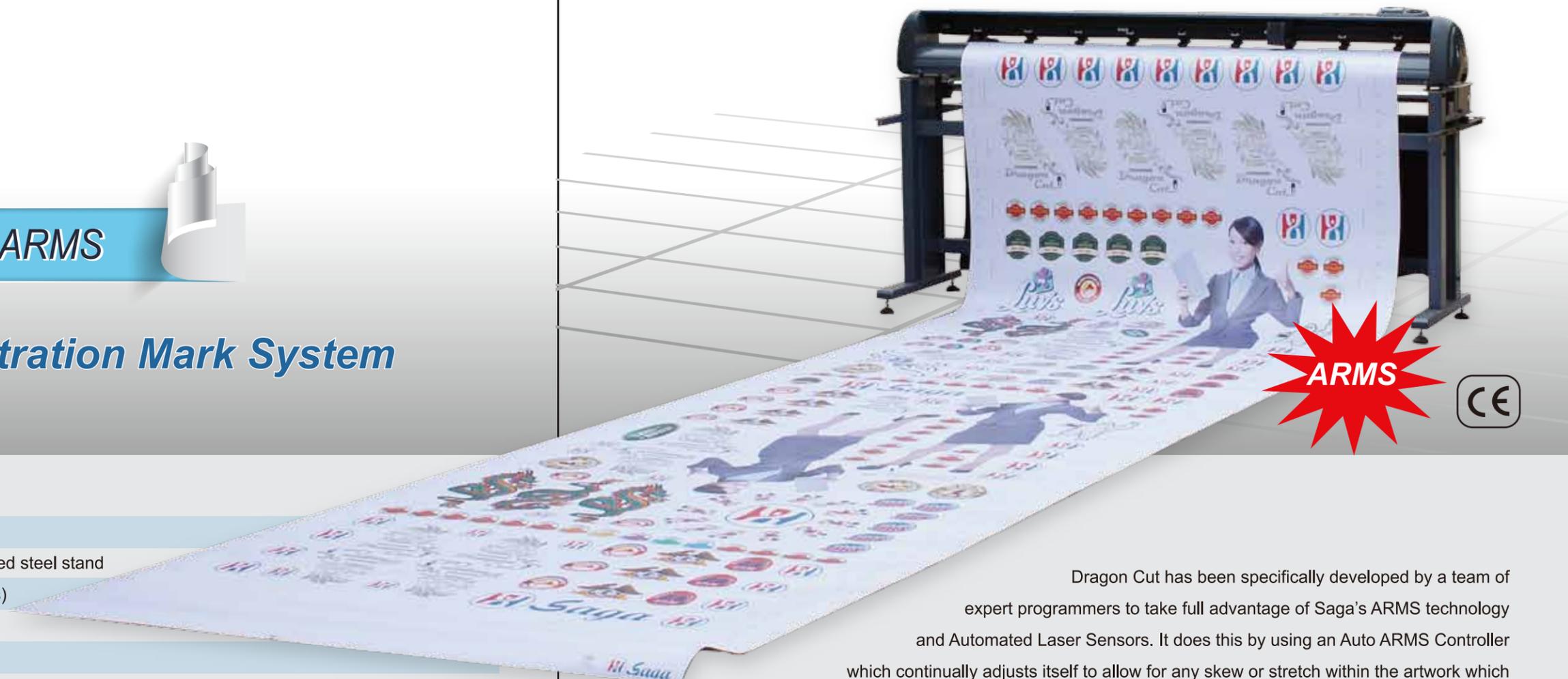
# Cutting Plotter

Servo ARMS

## Automatic Registration Mark System

### Descriptions

- High force cutting head with 4 wheels
- Aluminum alloy construction, ABS end caps, welded steel stand
- Straight-line Max. Speed: 37.8 inches/s (960mm/s)
- Curve Max. speed: 23.6 inches/s (0-600mm/s)
- Motor & Driver: DC servo
- Motor power: 25watt
- Servo motor speed: 0-3500 RPM
- 0-3000 RPM time: < 20 MS(idle load); <1200 MS(working)
- Encoder signal: physical 1016 line/ round, logical 4064 line/round
- Max. force: 1.65lbs [750g (3g/step)]
- CPU: 64bit DSP 32M Flash
- Mechanical Resolution: 0.0005 inches/pulse (0.01254 mm/pulse)
- Repeating Precision: 0.003 inches (0.082 mm)



Dragon Cut has been specifically developed by a team of expert programmers to take full advantage of Saga's ARMS technology and Automated Laser Sensors. It does this by using an Auto ARMS Controller which continually adjusts itself to allow for any skew or stretch within the artwork which results in the most accurate contour cutting possible - even over very long distances.

With a Saga cutting plotter and Dragon Cut you have a formidable combination of sign design and layout tools with excellent engineering, so you can rapidly produce super accurate signage and decals with pinpoint contour cutting to achieve the most outstanding and professional results possible.

### Technical Specifications

| Item No.            | SAGA-720IIP    | SAGA-1350IIP    | SAGA-1750IIP    |
|---------------------|----------------|-----------------|-----------------|
| Max. media width    | 720mm          | 1350mm          | 1750mm          |
| Max. cutting width  | 630mm          | 1260mm          | 1660mm          |
| Accuracy            | +/- 0,01mm     | +/- 0,01mm      | +/- 0,01mm      |
| Connectors          | USB/RS-232     | USB/RS-232      | USB/RS-232      |
| Drive               | DC Servo       | DC Servo        | DC Servo        |
| Power consumption   | < 100W         | < 100W          | < 100W          |
| Ambient temperature | +5°C - +35°C   | +5°C - +35°C    | +5°C - +35°C    |
| Meas                | 97 x 34 x 43cm | 160 x 34 x 41cm | 207 x 36 x 51cm |
| G.W./N.W.           | 27.5/25.0kgs   | 38.0/35.0kgs    | 52.0/47.0kgs    |

# Cutting Plotter

Servo Motor



**Direct USB, plug and play, no USB drivers required**

**Works on Mac systems with Signcut software**

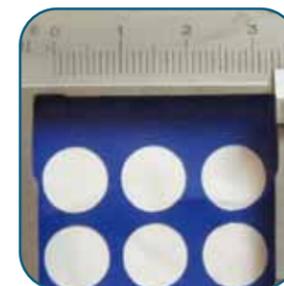
**Windows 7 and 8 compatible**



## Descriptions

- High force cutting head with 4 wheels
- Aluminum alloy construction, ABS end caps, welded steel stand
- Straight-line Max. Speed: 37.8 inches/s (960mm/s)
- Curve Max. speed: 23.6 inches/s (0-600mm/s)
- Motor & Driver: DC servo
- Motor power: 25watt
- Servo motor speed: 0-3500 RPM
- 0-3000 RPM time: < 20 MS(idle load); <1200 MS(working)
- Encoder signal: physical 1016 line/ round, logical 4064 line/round
- Max. force: 1.65lbs [750g (3g/step)]
- CPU: 64bit DSP 32M Flash
- Mechanical Resolution: 0.0005 inches/pulse (0.01254 mm/pulse)
- Repeating Precision: 0.003 inches (0.082 mm)

## Detail display



## Technical Specifications

| Item No.            | SAGA-720II     | SAGA-1350II     | SAGA-1750II     |
|---------------------|----------------|-----------------|-----------------|
| Max. media width    | 720mm          | 1350mm          | 1750mm          |
| Max. cutting width  | 630mm          | 1260mm          | 1660mm          |
| Accuracy            | +/- 0,01mm     | +/- 0,01mm      | +/- 0,01mm      |
| Connectors          | USB/RS-232     | USB/RS-232      | USB/RS-232      |
| Drive               | DC Servo       | DC Servo        | DC Servo        |
| Power consumption   | < 100W         | < 100W          | < 100W          |
| Ambient temperature | +5°C - +35°C   | +5°C - +35°C    | +5°C - +35°C    |
| Meas                | 97 x 34 x 43cm | 160 x 34 x 41cm | 207 x 36 x 51cm |
| G.W./N.W.           | 27.5/25.0kgs   | 38.0/35.0kgs    | 52.0/47.0kgs    |

# Cutting Plotter



**Direct USB, plug and play, no USB drivers required**

**Works on Mac systems with Signcut software**

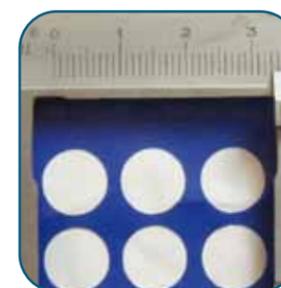
**Windows 7 and 8 compatible**



## Descriptions

- Cutting head with 4 wheels
- Aluminum alloy construction, ABS end caps, welded steel stand
- Available with ARM for fully automatic contour cutting
- Straight-line Max. speed: 800 mm/s
- Curve Max. speed: 300 mm/s
- Motor & Driver: Stepper motor
- Motor power: 40watt
- Servo motor speed: 0-3500 RPM
- 0-3000 RPM time: < 20 MS (idle load); <1200 MS (working)
- Encoder signal: physical 1016 line/ round, logical 4064 line/round
- Max. force: 510g (2g/step)
- CPU: 16 bit
- Mechanical Resolution: 0.0254 mm/pulse

## Detail display



## Technical Specifications

| Stepper motor/Item No. | SAGA-420I      | SAGA-720I      | SAGA-1350I      |
|------------------------|----------------|----------------|-----------------|
| Max. media width       | 420mm          | 720mm          | 1350mm          |
| Max. cutting width     | 330mm          | 630mm          | 1260mm          |
| Accuracy               | +/- 0,01mm     | +/- 0,01mm     | +/- 0,01mm      |
| Connectors             | USB/RS-232     | USB/RS-232     | USB/RS-232      |
| Drive                  | Stepper motor  | Stepper motor  | Stepper motor   |
| Power consumption      | < 100W         | < 100W         | < 100W          |
| Ambient temperature    | +5°C - +35°C   | +5°C - +       | +5°C - +35°C    |
| Meas                   | 66 x 33 x 33cm | 97 x 34 x 43cm | 160 x 34 x 41cm |
| G.W./N.W.              | 10.0/9.0kgs    | 27.5/25.0kgs   | 38.0/35.0kgs    |

# 3M Industrial Servo Cutter

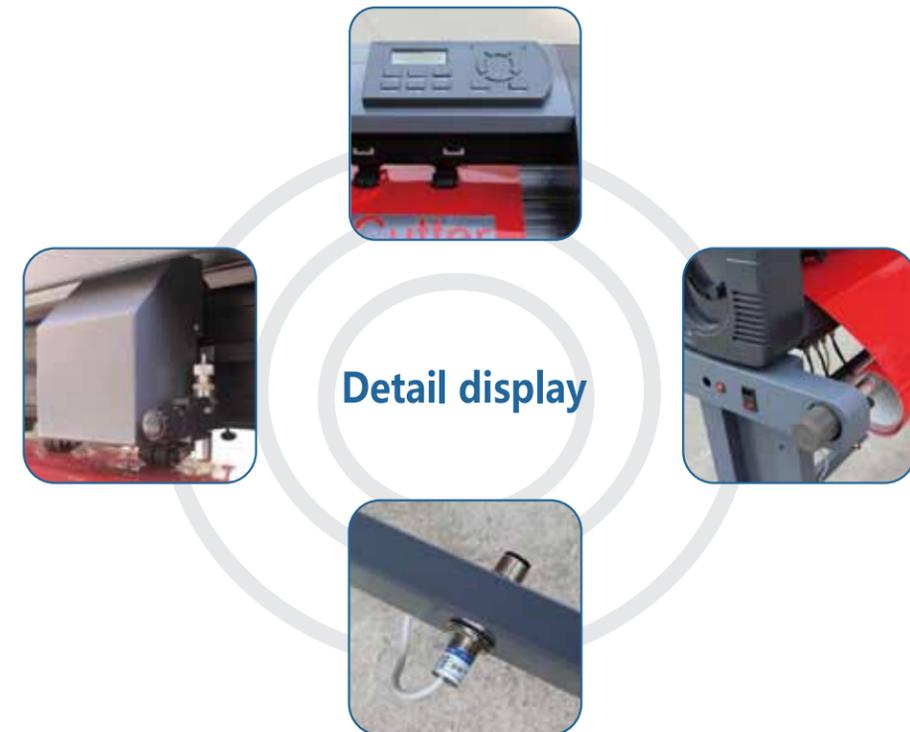
Servo Motor



**Direct USB, plug and play, no USB drivers required**

**Works on Mac systems with Signcut software**

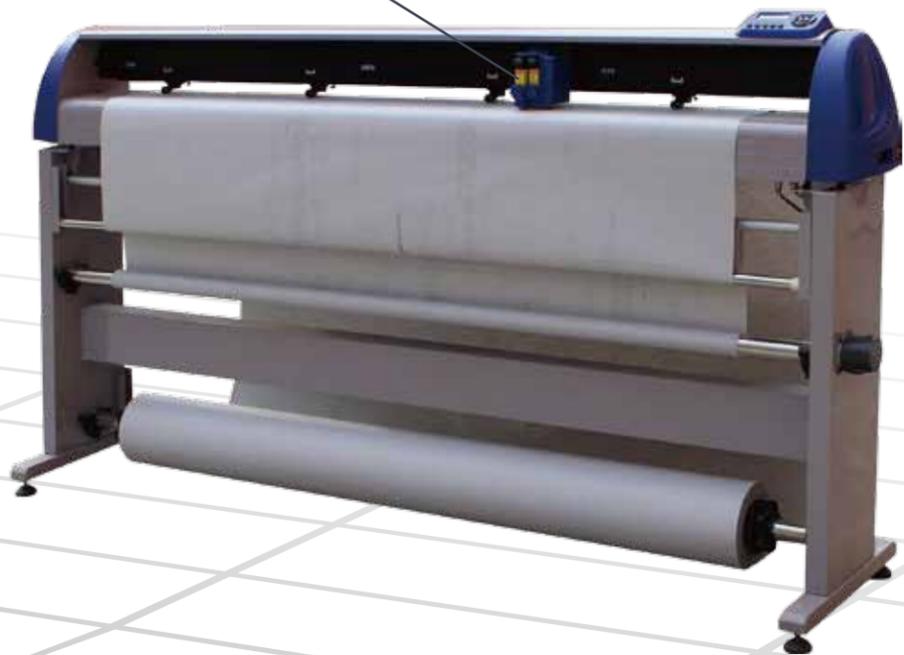
**Windows 7 and 8 compatible**



## Descriptions

- High force cutting head
- Aluminum alloy construction, ABS end caps, welded steel stand
- Laser sensor model available with contour cutting capability
- Straight-line Speed: 0-960 mm/s
- Curve speed: 0-600 mm/s
- Motor& Driver: DC servo
- Motor power: 120 watt
- Servo motor speed: 0-3500 RPM
- 0-3000 RPM time: < 20 MS (idle load); <1200 MS (working)
- Encoder signal: physical 1016 line/round, logical 4064 line/round
- Force: 0-900g (3g/step)
- CPU: 64 bit DSP 32M Flash
- Mechanical Resolution: 0.01254 mm/pulse
- Repeating Precision: 0.082 mm
- Max. media width: 1350mm
- Max. cutting width: 1260mm
- Meas.: 170x42x45cm/94x77x31cm
- G.W./N.W.: 62/58kgs

## Economical Printer-Cutter



### Descriptions

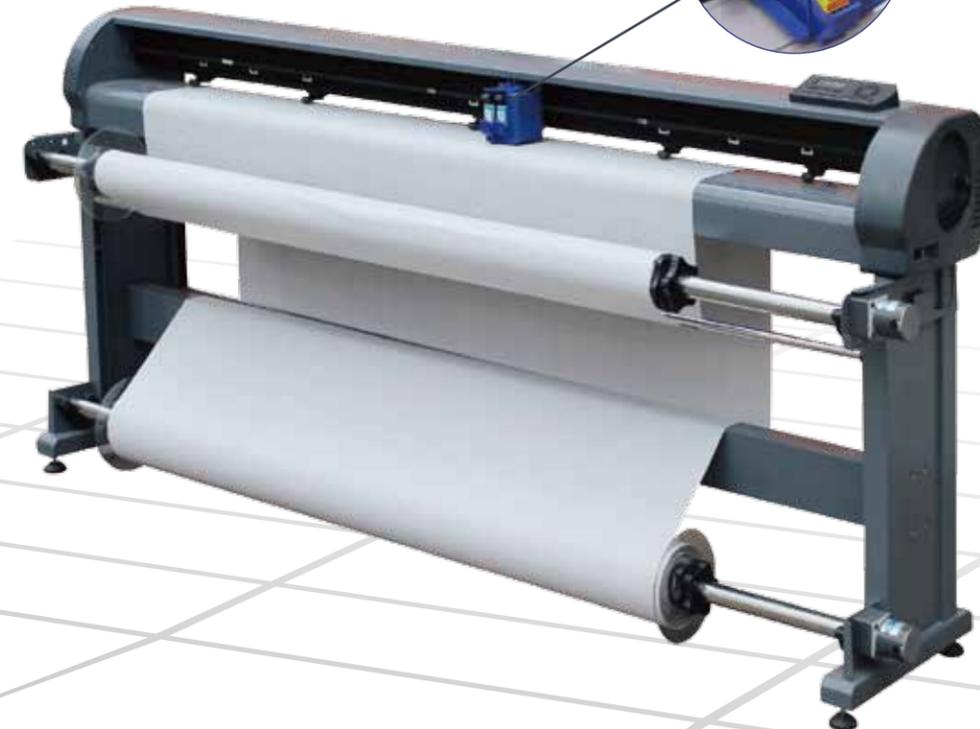
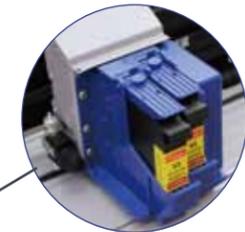
- Printer head: HP45, double heads
- Printer resolution: 300 DPI
- Max. printing speed: 60 sq.m. / hour,  
Max. cutting speed: 960mm/s
- USB2.0 printer port
- Command: HPGL
- Panel: LCD
- Automatic feeding system
- Paper range: for printing, 50-120g, for cutting, 80-200g
- Power supply: 110-120V/AC, 200-240V/AC, 50/60HZ

### Technical Specifications

| Models              | SG-CP1200H | SG-CP1600H |
|---------------------|------------|------------|
| Max cutting width:  | 1200mm     | 1600mm     |
| Max printing width: | 1250mm     | 1650mm     |
| Max meida width:    | 1450mm     | 1850mm     |

## Industrial Printer-Cutter

servo motors



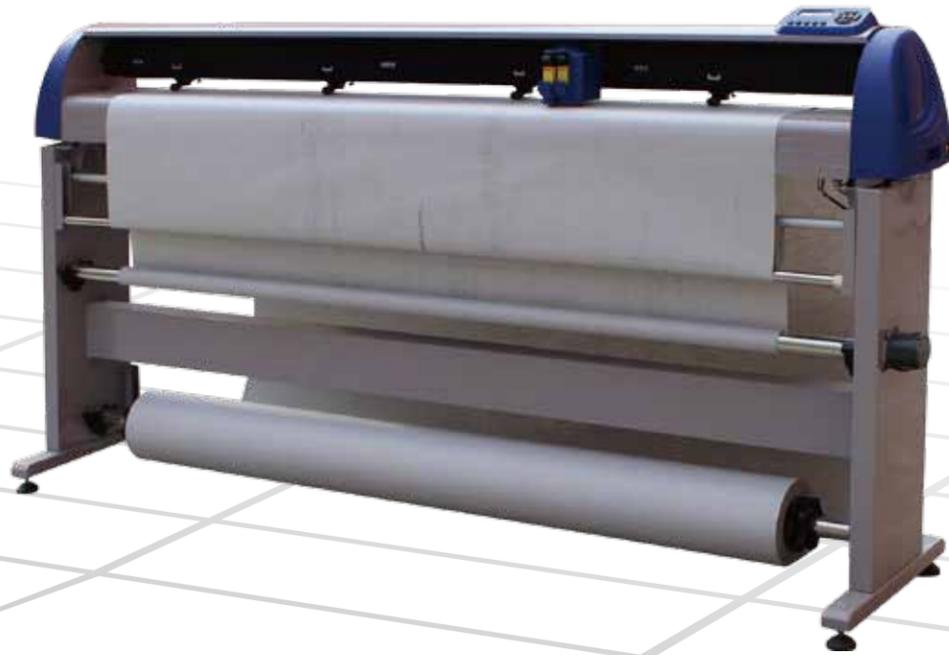
### Descriptions

- Printer head: HP45, double heads
- Printer resolution: 300 DPI
- Max. printing speed: 80 sq.m. / hour,  
Max. cutting speed: 960mm/s
- USB2.0 printer port
- Command: HPGL
- Panel: LCD
- Automatic feeding system
- Paper range: for printing, 50-120g, for cutting, 80-200g
- Power supply: 110-120V/AC, 200-240V/AC, 50/60HZ

### Technical Specifications

| Models              | SG-CP1200P | SG-CP1600P |
|---------------------|------------|------------|
| Max cutting width:  | 1200mm     | 1600mm     |
| Max printing width: | 1250mm     | 1650mm     |
| Max meida width:    | 1450mm     | 1850mm     |

## Economical Injet Printer



### Descriptions

- Printer head: HP45, double heads
- Printer resolution: 300 DPI
- Max printing speed: 60 sq.m. / hour
- USB2.0 printer port
- Command: HPGL
- Panel: LCD
- Automatic feeding system
- Paper range: 40-80g
- Power supply: 110-120V/AC, 200-240V/AC, 50/60HZ

### Technical Specifications

| Models              | SG-1600H | SG-1800H |
|---------------------|----------|----------|
| Max printing width: | 1650mm   | 1850mm   |
| Max media width:    | 1850mm   | 2050mm   |

## Industrial Injet Printer



### Descriptions

- Printer head: HP45, double heads
- Printer resolution: 300 DPI
- Max printing speed: 80 sq.m. / hour
- USB2.0 printer port
- Command: HPGL
- Panel: LCD
- Automatic feeding system
- Paper range: 40-80g
- Power supply: 110-120V/AC, 200-240V/AC, 50/60HZ

### Technical Specifications

| Models              | SG-1800P | SG-2000P |
|---------------------|----------|----------|
| Max printing width: | 1850mm   | 2050mm   |
| Max media width:    | 2050mm   | 2250mm   |

# Stepper Garment Plotter



## Descriptions

- Aluminum alloy construction, nice ABS sides
- Max drawing speed: 1000mm/s
- Max cutting speed: 800mm/s
- Stepper motor control system
- Power: 80watt
- Tracking: 5m
- Max force: 510g(2g/step)
- Mechanical resolution: 0.0254mm/pulse
- Connectors: RS-232 / USB
- Power supply: AC110V-240V / 50-60HZ 6A
- Noise: 65 dB (A) or less
- Command: HPGL
- Media: 80g-200g

## Technical Specifications

| Models             | SG-1350B    | SG-1750B    |
|--------------------|-------------|-------------|
| Motor:             | stepper     | stepper     |
| Max cutting width: | 1200mm      | 1600mm      |
| Max media width:   | 1400mm      | 1800mm      |
| Measurements:      | 160x34x48cm | 207x36x51cm |
| G.W/N.W. :         | 49/45kgs    | 61/56kgs    |

- Pen: 1pc ink pen, Blade: 3pcs
- Packaging: machine in inner box, stand in inner box, then put two inner boxes inside carton box

# Servo Garment Plotter



## Descriptions

- Aluminum alloy construction, nice ABS sides
- Max drawing speed: 1200mm/s
- Max cutting speed: 1000mm/s
- Servo motor control system
- Power: 120watt
- Tracking: 5m
- Max force: 750g(3g/step)
- Mechanical resolution: 0.01254mm/pulse
- Connectors: RS-232 / USB
- Power supply: AC110V-240V / 50-60HZ 6A
- Noise: 35 dB (A) or less
- Command: HPGL
- Media: 80g-250g

## Technical Specifications

| Models             | SG-1350P    | SG-1750P    |
|--------------------|-------------|-------------|
| Motor:             | servo       | servo       |
| Max cutting width: | 1200mm      | 1600mm      |
| Max media width:   | 1400mm      | 1800mm      |
| Measurements:      | 160x34x48cm | 207x36x51cm |
| G.W/N.W. :         | 49/45kgs    | 61/56kgs    |

- Pen: 1pc ink pen, Blade: 3pcs
- Packaging: machine in inner box, stand in inner box, then put two inner boxes inside carton box