

pitdigital

**Auto Fed
Flatbed Digital Cutter**

F SERIES



Faster

More Accurate

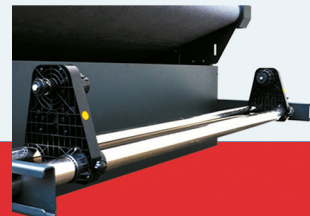
More Economical



Advanced Controller



Industry Leading Carriage



Oriented Roll Media Bracket



Pneumatic Pressure Bar

PitDigital Series F Flatbed Digital Cutter

The PitDigital F Series cutters - F061-91/ F130-12/ F152-12/ F130-25, a faster, more accurate, more economical digital cutter designed for industries and road & traffic Safety Signs, automotive Aftermarket, Heat Transfer Apparel, DTF, Print Cut, Die Cutting, and other signage graphics.

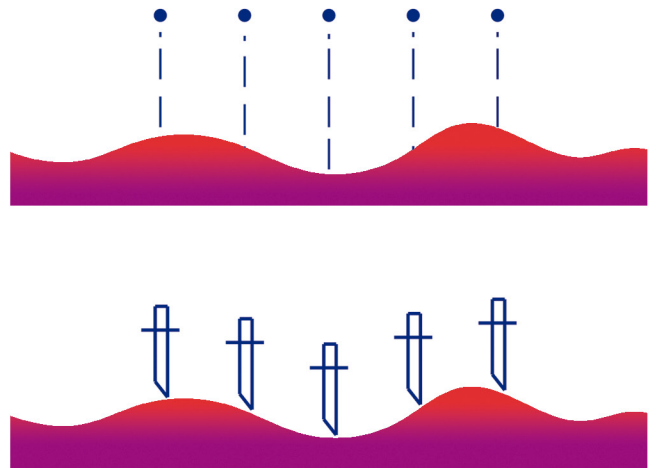
F Series is typically applied for cut printed and unprinted medias with a thickness of ≤ 1.5 mm, such as Reflective Sheeting, Paint Protection Film/PPF, Window Tint, PPE, PET, PVC, PU, Paper, and other vinyl stickers with uncomparable high efficiency.

F Series of auto fed flatbed digital cutters is capable of cutting materials in rolls and Sheets/pieces with outstanding high quality, series of cutting methods including perforation cutting, half cutting, creasing and marking benefit greatly with more output and less cost of labor.

Features

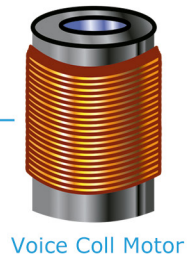
GRATING RULER

Inevitably material surface is not level from point to point, the grating ruler is applied to measure the distance between blade tip and material surface, and the cutting depth is adjusted in every 0.01 mm by the controller accordingly. Then, the blade travels up and down as the material surface goes to keep the same cutting depth at any position of the tool paths across the entire table. In short, Grating Ruler is of key importance for consistent cutting depth.



ADVANCED TOOL CARRIAGE

The tool carriage adopts the structure of a sports car, using of silent voice coil motor makes it outstrip it's rivals. The tool carriage is featured as fast, agile and no overheat for long-time non-stop operation. It is a leading tool carriage in the same field in China.



Agile



Fast



Big Cutting Force



No Over-heat

ENHANCED CHIP-POWERED BLADE

Blade-tip compensation with Chip instead of software, the digital cutter works with constant high precision no matter what kind of CAD/CAM software is applied.



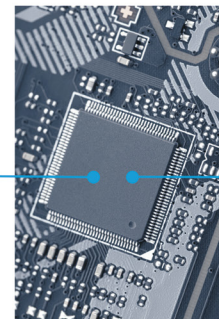
Smaller Offset



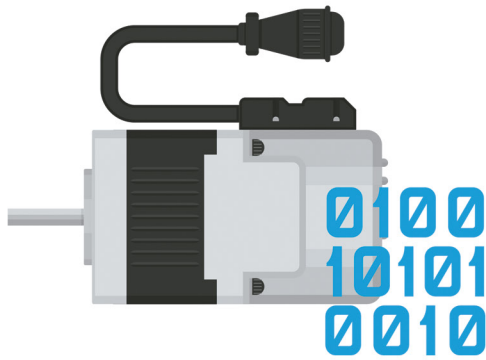
Exact Offset



Larger Offset

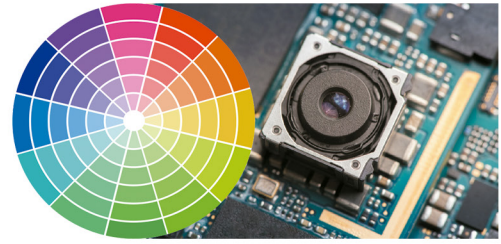


Advanced Algorithm



Servo Drive

Intelligent servos bring out smooth acceleration, big torque, precise cutting/plotting operation, excellent durability and volume production. Servos ensure the vinyl cutter to run at Max. Speed: 600 mm/s.



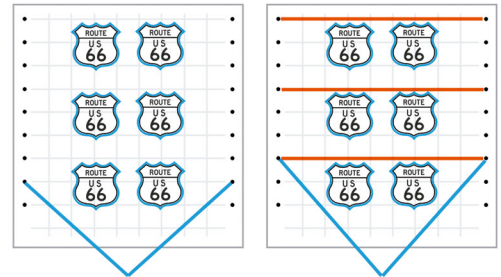
Fast Registration Marks Detection with CCD Camera

CCD camera detects the intricate die-less contours efficiently, problems caused by position error of human, poor quality printing are resolved. CCD camera is applied for wider varieties of colors.



Auto Fed System

Conveyor is applied for seamless cutting/plotting operations. The coordination of the program, the auto feeding system, and the CCD camera accomplishes fast and accurate nesting/contour cutting.

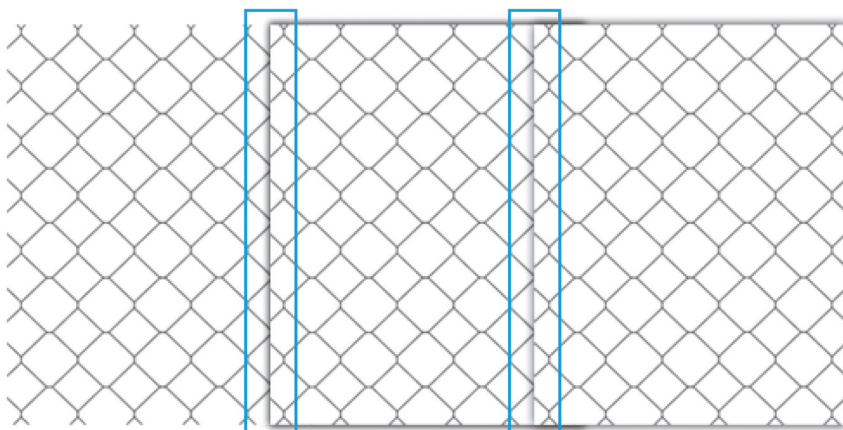


Additional Registration Marks

Perform Contour Cutting Sequentially on Each Segmented Area

Segmented Area Cutting Operation

Additional registration marks are available for more precise axis alignment. Contour cutting is performed sequentially in each segmented area, with improves accuracy and tracking for heavier media that has been laminated.



Overlap

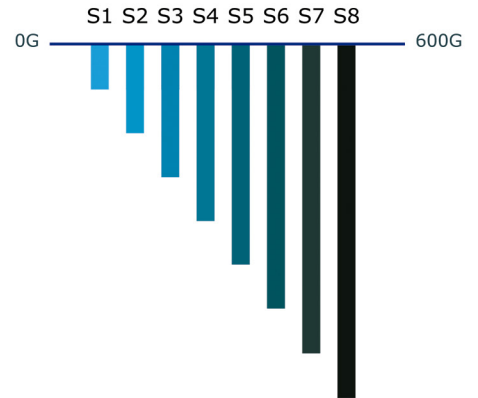
Overlap

Intelligent Bleeding for Easier Overlap Operation

Intelligent Blending function makes overlap operation easier for the installers, this is a very useful feature for big sized signs/ indicators.

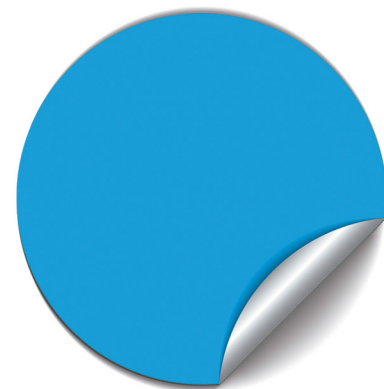
Cutting force in 8 steps

With the software, user is enabled to put colors for different cutting paths, and set the processing sequence as color sequence. This is an important feature for cutting medias with multiple layers, which requires different cutting in different layer.



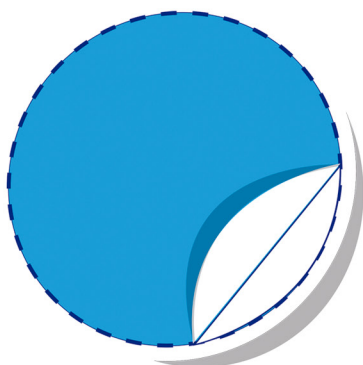
No Need OVERCUT

In every cutting path, the start and end points join with each other accurately, while no need to setup any OVERCUT.



Clean Smooth Edge Quality

The grating ruler and correspondent cutting force management deliver clean smooth edge quality, even for the most complex jobs. Peeling off the cutting piece/waste material easily can cut down workload greatly for the users. Advanced algorithm obviously eliminates distorted, rounded, and lifted corners obviously.



Dotted Lines Cutting

Dotted line cutting is applied for cutting media with 2 layers typically and also kinds of paper. The featured asks for accurate control of cutting forces.



Half Cut / Perforated Cut

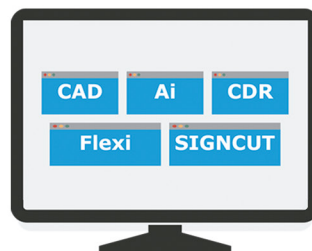
Half cut / Perforated cut is available, every time you may carry out either one or both.

Automatic Data Retrieving with Bar-code

One touch to find the cutting job of those saved in the USB memory by scanning the printed Bar-code, while no need to connect to computer. Multiple jobs are processed automatically while production errors are eliminated



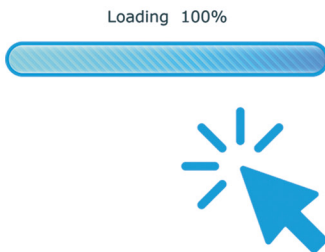
DXF Direct Output



Compatible with Multiple Software



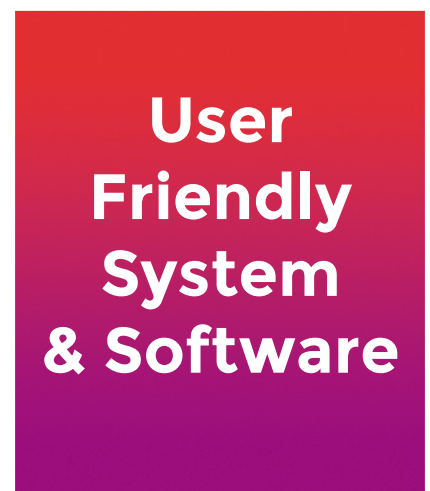
Duplicate Cutting Jobs Offline

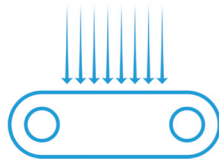


One-click to Load Print Driver

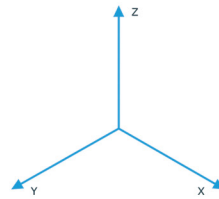


One-click to Clear History

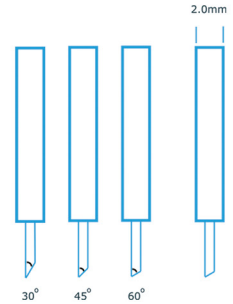




Vacuum System



Leading Calibration



Serie Cutter Blades Available

Quality Components

Model	F061-91	F130-12	F152-12	F130-25
Working sized on X Axis	610 mm (Non-contour Cutting)	1300 mm (Non-contour Cutting)	1520 mm (Non-contour Cutting)	1300 mm (Non-contour Cutting)
	600 mm (Contour Cutting)	1240 mm (Contour Cutting)	1490 mm (Contour Cutting)	1240 mm (Contour Cutting)
Working sized on Y Axis	Sheet Material: 910 mm	Sheet Material: 1200 mm	Sheet Material: 1200 mm	Sheet Material: 2500 mm
	Roll Material: Whole Roll	Roll Material: Whole Roll	Roll Material: Whole Roll	Roll Material: Whole Roll
Max. Media width Applicable	779mm	1469mm	1689mm	1469mm
Applicable Media thickness	≤1.5mm			
Applicable Media	Reflective sheets, PPF (Paint Protection Film), Window Tinting, PPE (Polyethylene), PET (Polyethylene Terephthalate), PVC (Polyvinyl Chloride), Vinyl Adhesive			
Method to Feed Media	Conveyor and roll material support			
Method to Fix Media	Vacuum table			
Max. Cutting Speed	600mm / s			
Max. Cutting Force	600G / 5.8N in 8 pass			
Cutting Force Setting	Adjustable in increments of 1G			
Cutter Blade Diameters	Φ2.0mm			
Cutting Blade Angles	30°, 45°, 60°			
Dotted Lines Cutting	Included			
Drive	AC Servo			
Mechanical Resolution	0.0125mm			
IOS	Win10 / 8 / 7 / XP			
Memory Buffer	2MB			
CAD/CAM Software	Windows Driver , SignWorkPro , CADtoPlotpro			
LCD	English / Chinese			
File Format	HP-GL , PLT			
Port in Standard	USB , RS-232			
Registration Marks Recognition	CCD Camera			
Power Input	AC 220V 50-60Hz			
Power consumption	2.2kw	3.2kw	3.2kw	3.2kw
Cutter Holder	1			
Bar-code for Data Link	Optional			
Roll Media Bracket	Included			
Floor Plan: Width-Length-Height	1200 x 1080 x 980mm	1900 x 2150 x 1010mm	2100 x 2150 x 1010mm	1900 x 3400 x 1010mm
Packed Size: Width-Length-Height	1600 x 1200 x 1180mm	1920 x 1850 x 1220mm	2150 x 1920 x 1220mm	3120 x 2150 x 1220mm
Gross / Net weight	280 / 220kg	320 / 240kg	340 / 260kg	850 / 620kg

Applications



Road & Traffic Safety Signs



Digital Print & Cut



Sign Graphics



Automotive Aftermarket-Cutting PPF



Window Tinting



DTF/ Heat Transfer Apparel



Customer Centered