

VICUT



ROLL FEEDING FLATBED CUTTER

VFR1312/VFR1612/VFR1325

Ideal for post-printing, road & traffic safety sign, automotive aftermarket, signage, packaging, and so on.

PRODUCT PROFILE

The VICUT GR series auto feeding digital flatbed cutter with conveyor table, mainly used to cut soft medias without cutting dies, it is an efficient solution of perforation cutting, half cutting, die cutting, marking, etc. With more output and less cost of labor, the cutter is designed for contour cutting of graphics without a cutting die; The cutter is ideal for automotive aftermarket, vehicle decoration, traffic signs industry, sign makers, packaging, apparel signing, shoes designing, bags designing, composite industry, offset printing, samples making, POP displays, and more.

APPLICATION

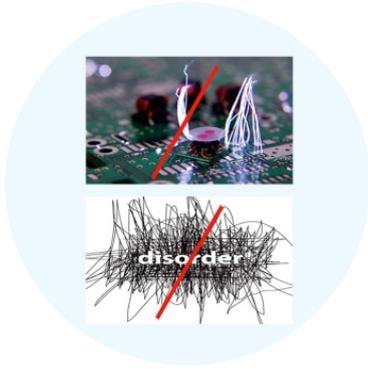
I Suitable materials

Reflective films, heat transfer films, Paint Protection Film/PPF, Vehicle Wrap, Window Tint, Vinyl Sticker, Heat transfer vinyl, Magnet Sticker, Sandblast Resist Rubber, Mobile Phone Decoration Film (2D/3D), Multiple Layer Film, Film for Flexible Circuit, Glass film, PVC With Thickness 0.03~0.75mm, PET with thickness 0.03~0.30mm, Card Paper up to 500GSM;

I Suitable Field

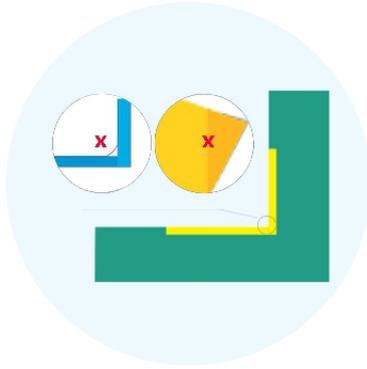
Automotive aftermarket, vehicle decoration, traffic signs industry, sign makers, packaging, apparel signing, shoes designing, bags designing, composite industry, offset printing, samples making, POP displays, and more.

MAIN FEATURES



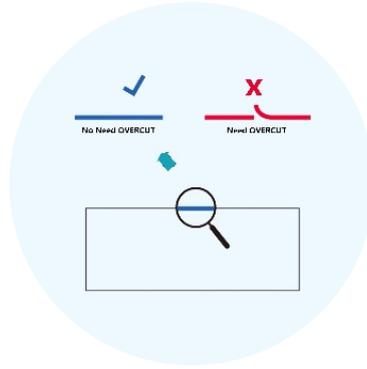
Static Electricity Free

Static interference is a big headache to cutters, while that is not the case with Gunner, as we eliminate it and have tested that year-round in different weathers.



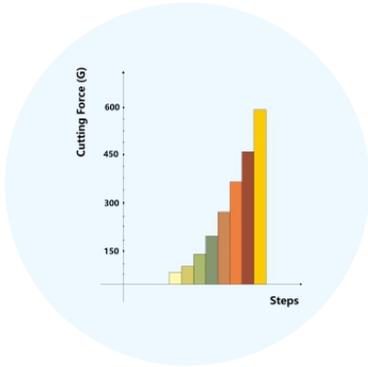
Advanced Algorithm

Obvious elimination of distorted, rounded or lifted corners.



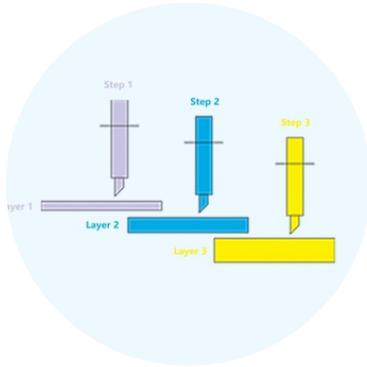
No need over-cut

On every cutting path, the start point and end point coincide accurately, while no need any OVERCUT.



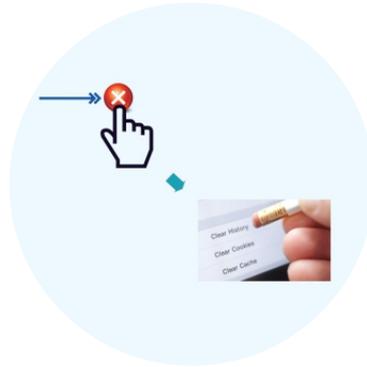
Cutting Force In 8 Steps

Color the cutting paths differently to put different force steps, set the processing sequence with color sequence.



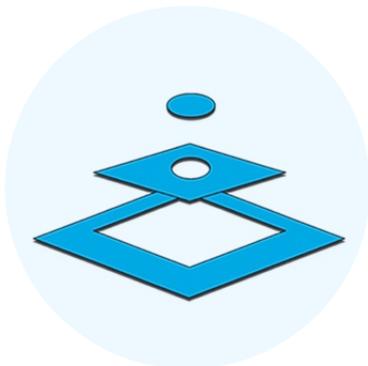
Multiple Layers Solution

For medias with multiple layers, different cutting force is applied for different layer.



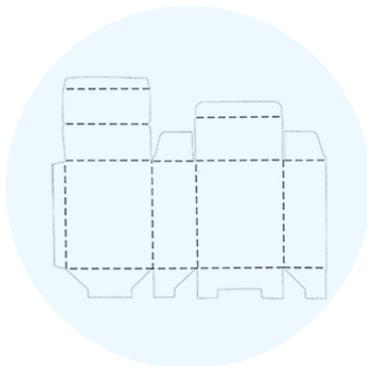
One-click to Clear History

One-click deletion button for the currently print document and clear it completely from buffer memory.



Half Cut/Perforation Cut

Grating ruler is used to guarantee the cutting depth always be same.



Dotted Lines Cutting

Dotted line cutting is available for medias with 2 layers typically and also kinds of paper.



DXF Direct Output

Gunner cutter is compatible with DXF file directly while no need any format transition.

TECHNICAL PARAMETERS

ITEM	VFR1312	VFR1612	VFR1325
Non-contour cutting area	1300x1200mm	1520x1200mm	1300x2500mm
Contour cutting area	1240x1180mm	1490x1180mm	1270x2450mm
Max.media thickness	1.5mm		
Applicable media	Soft and medium rigidity medias		
Method to fix media	Vacuum table(2.2kw vacuum pump with muffler)		
Max.cutting speed	800mm/s		
Max.cutting force	600G/5.8N in 8 steps		
Cutting force setup	Adjustable in every 1G		
Cutter blade diameter	Φ2.0mm		
Cutter blade angles	30°/45°/60°		
Dotted lines cutting	included		
Drive	AC Servo		
Mechanical resolution	0.0125mm		
Compatible OS	Win 10/8/7/XP		
Memory buffer	2MB		
Software	CorelDRAW Plugin/CadLink/Flexi		
LCD language	English/Chinese		
File format	HP-GL, PLT		
Port in standard	USB, RS-232		
Reg marks detection	CCD Camera		
Power input	220V/50-60HZ		
Power consumption	Cutter: 1.5kw; vacuum pump: 2.2kw		
Working tools	1 pcs blade holder, 1 pcs pen holder, 10pcs cutting blades		
Media bracket	included		
Machine Dimension(L-W)	1700x1800mm	2100x1800mm	1700x2800mm
Packing size(L-W-H)	1920x1850x1220mm	2150x1920x1220mm	1920x3200x1220mm
Weight	240kg/320kg	260kg/340kg	680kg/760kg

DETAILS DESCRIPTION



Advanced Tool Carriage

Taking the sport car structure, driven by silent voice coil motor, tool carriage of Gunner series flatbed cutter is featured as fast, more agility and no overheat for long-term non-stop operation.



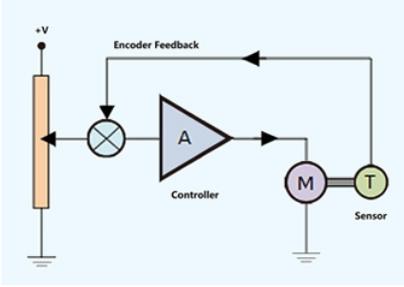
Auto Feeding System

Conveyor is able to accomplish long seamless cutting / plotting. With the combination of CCD camera, fast and accurate nesting / contour cutting is performed.



Oriented Roll Media Bracket

It is smooth to feed media with the media bracket, user may setup the bracket according to media feature and specs. The bracket improves productivity.



Servo Motor / Closed Loop Control

Cutting / Plotting will be stopped when tool carriage is overloading, it is an important safety feature to protect tool carriage when media is jammed. Servos also bring out smooth acceleration, big torque, precise cutting / plotting and excellent durability.



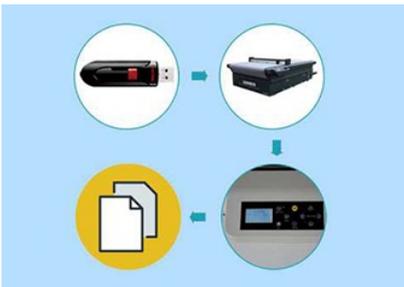
Vacuum System

Strong air flow to hold down the media flatly and tightly against the table top so that the tool carriage can perform fast, accurate cutting / plotting.



Smart Controller

GR series flatbed cutter controller runs with advanced algorithm, easy to upgrade and custom-made for different applications for future. As the core of our system, it is programmed and produced by our-self.



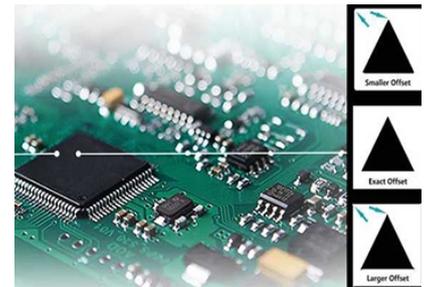
U-Disk / Duplicate Cutting Jobs Offline

Users are able to duplicate the cutting jobs offline, which is much convenient than doing that with connecting to PC by USB cord. The function of duplicating cutting jobs with USB memory is a leading technology that developed by our-self. This feature is important for efficient volume production.



Quality Components

For outstanding performance and long-term reliable working, we only use world class brand name components like BANDO belt, NMB bearing, Ultra-silence Guides made by WON Korea, etc.



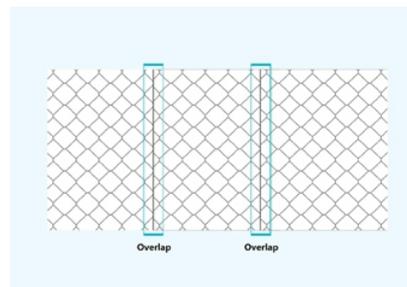
Making Blade-tip Compensation by Hardware

Our system makes blade-tip compensation by hardware (main board) instead of software, the cutter works with constant high precision no matter what kind of CAD / CAM software is applied.



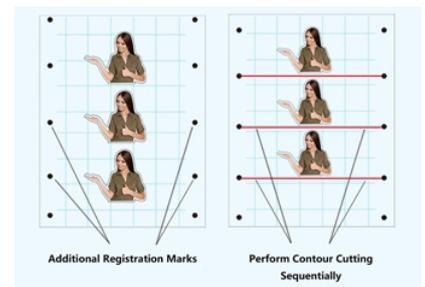
Clean Smooth Edge Quality

The Grating Ruler and correspondent cutting force management deliver clean smooth edge quality, even for the most complex jobs. It is easy to peel off the waste material, which cut down workload greatly for the users.



Intelligent Bleeding for Easier Overlap Operation

Intelligent Bleeding function makes overlap operation easier for the installers, this feature is very important for making and installation of big signs / indicators.



Segmented Area Cutting Operation

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



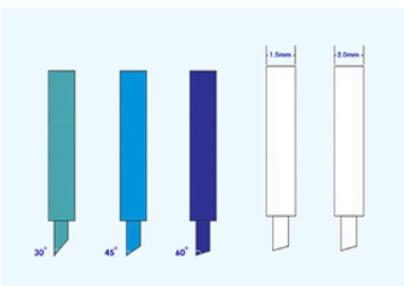
Scanning Bar-code Offline with U-disk

One-click to recognize the cutting job from those saved in the U-disk by scanning the Bar-code which is pre-printed, while not requiring to connect to computer. This function is especially helpful to increase the productivity when there are many files stored in the U-Disk. U-disk / offline function is able to send same cutting job repeatedly.



Compatible with AutoCAD, AI, Coreldraw and Flexisign

Leading the same industry, we make software by our-self, we are able to adapt our system to the latest version of popular CAD / CAM software, such as AutoCAD, Adobe Illustrator, Coreldraw and Flexisign.



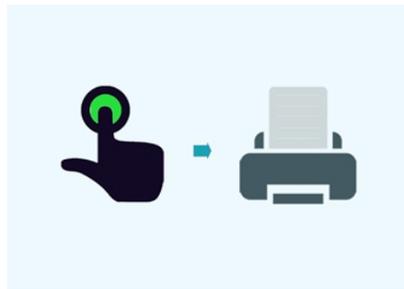
Series Cutter Blades Available

Angle: 45° / Φ 1.5mm for thick media
 Angle: 30°/ Φ 1.5mm for thicker media or small character
 Angle: 60°/ Φ 2.0mm for reflective film
 Angle: 45° / Φ 2.0mm for PPF



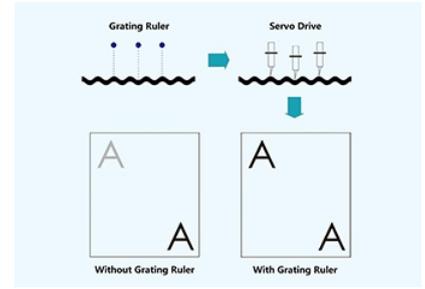
Fast Registration Marks Detection with CCD Camera.

With a dedicated software, it is able to generate contours in one-click, and it is easy to add registration marks. CCD camera, used in combination with related software is applied to detect the intricate dieless contours fast and more efficiently. Problems caused by position error of human, poor quality printing are resolved. CCD camera is applied for wide varieties of medias.



One-click Install Print Driver

One-click to install print driver and printout with USB, send cutting job from any CAD software that with printer feature. Our print driver works with Windows 32 / 64 bit.



GRATING RULER

Measure the distance between blade tip and material surface in real time, the cutting depth is adjusted in every 0.01mm by the controller in real time according to the value of distances measured. Subsequently, the blade travels up and down as material surface goes up and down in order to keep the same cutting depth at any position of that tool path across entire working size. In short, the cutting depth is consistent, you will not see different shades.



Fine Cutter Holder

Cutter blade runs precisely and won't drop cutting thick, sticky medias.



Handshake Protocol

We supply Software Development Kit / SDK to match with client's software, which deepen cooperation between Gunner and Professional clients.

SAMPLE DISPLAY



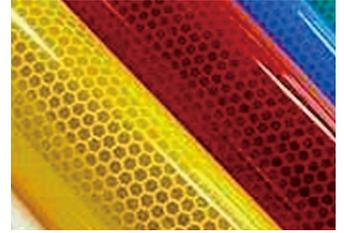
Paint Protection Film/ppf



Car Wrap Vinyl



Road & Taffic Signs



Reflective sheeting



Window Tint



Vinyl Sticker



0.03-0.75mm PVC



0.03-0.3mm PET



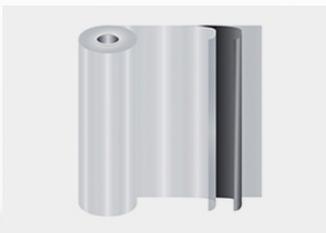
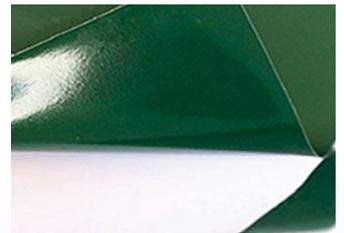
Card Paper(GSM≤500G)



Mobile Phone Decoration Film



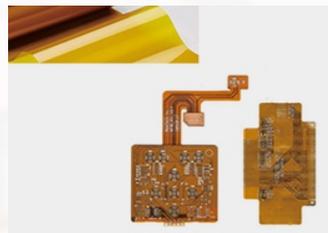
PTP Blister Lid Foil



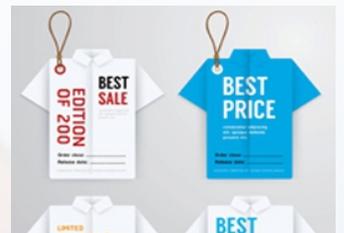
Multiple Layer Film



Magnet Sticker



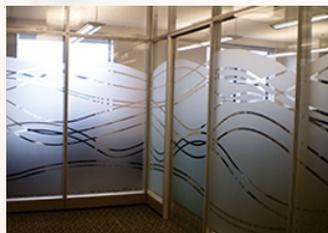
Film for Flexible Circuit



Tags made of card paper



Heat Transfer Vinyl



Glass film



Photo Paper



Custom Decals

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