

VICUT



HIGH PRECISION REFLECTIVE FILM VINYL CUTTER

GC-140F

Automatic Specialized Cutting Plotter
for Reflective Film

PRODUCT PROFILE

The VICUT vinyl cutter GC-140F is a professional reflective film cutting machine specially developed based on the high-quality reflective films' characteristics. Stable cutting quality, no cutting errors; Big cutting force with consistent cutting depth, Fast speed and high precision; Compatible with diverse software, worry free operation, etc. The GC-140F is mainly used in the traffic safety signage industry with high efficiency massive production capacity, and it is trusted by professional users in and out of China.

APPLICATION

GC-140F is dedicated to cut reflective sheetings by 3M (Diamond Grade, Prismatic Reflective Sheeting, Engineer Grade...), Avery Dennison, Oralite, and more.

SAMPLE DISPLAY



3M Reflective Sheeting



Heat Transfer Vinyl



Avery Dennison Reflective Sheeting



Pre-printed Medias



Pre-printed Reflective Sheeting



Road & Traffic Signs

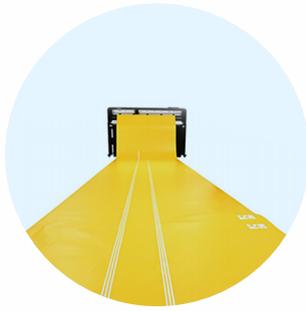


Sandblast Film



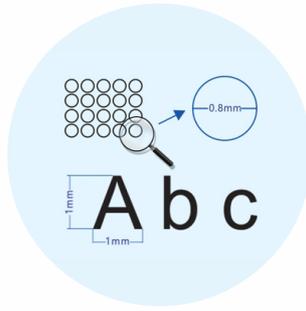
Vinyl Sticker

MAIN FEATURES



Stable Accurate Tracking for 7000mm / 23ft

Leading most of the competitors, the GC series is able to do stable long length tracking for 7000mm/23ft, which is an important feature for high-level processing, it is ideal for big sign, pattern making.



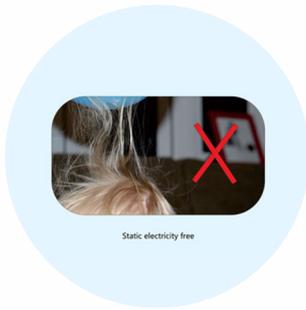
Cutting small text strings accurately

It is able to cut small text strings, such as circles sized $\Phi 0.8\text{mm}$, characters sized $1 \times 1\text{mm}$ and numbers sized $3 \times 3\text{mm}$, and it is easy to tear off the scraps.



QR-code Retrieval function

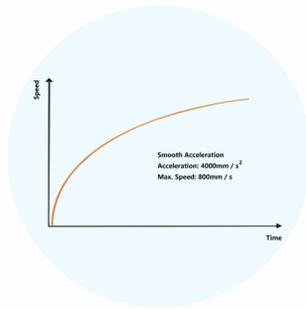
One-click to spot the cutting job from those saved in the USB memory by scanning the QR code which is printed in media, while not requiring connecting to PC. This function is especially helpful to increase the productivity when there are many files stored in the USB memory.



Static electricity free

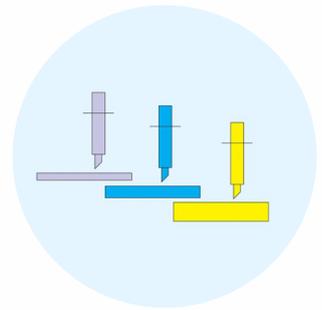
Electrostatic elimination

There will be no cutting disorder caused by electrostatic interference.



Fast speed

Max. cutting speed reach to 800mm/s , acceleration speed reach to 4000mm/s^2 .



Multiple layers solution.

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



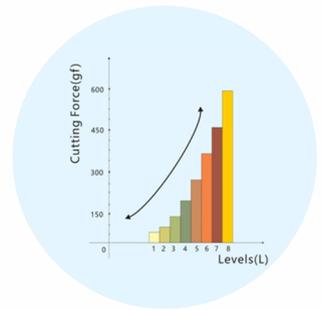
SDK free/Handshake Protocol

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



No Need OVERCUT

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



Cutting force in 8 Steps

User is enabled to put different colors for different cutting paths, and set the processing sequence as color sequence, and different paths are processed by different steps of cutting force.

TOOLS & ACCESSORIES



Fine Blade Holder

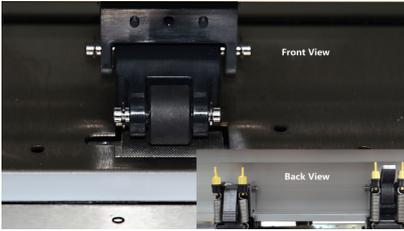
This precision engineered components sits in the advanced carriage and holds the cutting blade of choice. The tool is manually adjustable to obtain the desired amount of "blade out" for the job in hand.



Calibration Tool

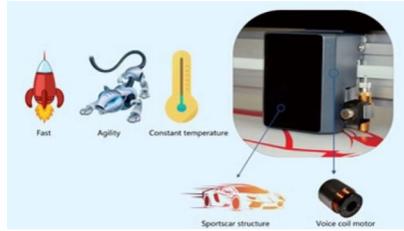
Used at set up and then periodically, to calibrate the cutter.

DETAILS DESCRIPTION



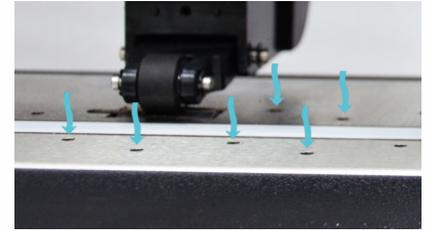
Accurate Rigid Push Rollers

Our push rollers are made from hard materials, it is capable of working accurately for long time. The push rollers can be set to two pressure levels: Strong/Low. The combination of accurate rigid push rollers, precise material feeding rollers and quality media bracket rollers ensure stable long length tracking of material.



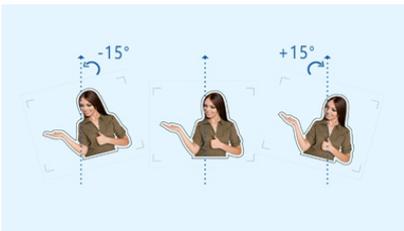
Advanced Tool Carriage

Tool Carriage is one of the most important parts of the machine. Taking the sport car structure, driven by silent voice coil motor, GC7000 plotter's tool carriage is featured as fast, more agility and no overheat for long-term non-stop operation.



Suction Cutting Table

Dense air inlets & 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.



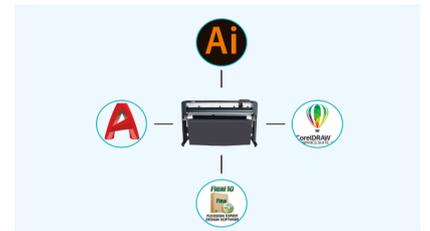
Advanced Registration Marks Sensing

One-click to add registration marks and generate contour(s) of the object(s).
One-click to read the registration marks and carry out the contour cutting.
To match the cutting path(s) and contour(s) to the best, fine adjustment with either keypad or software is available. If material is placed askew ($\leq 15^\circ$), the cutter is still able to work fine, this feature helps to save time.



Making Blade-tip Compensation by chip

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.



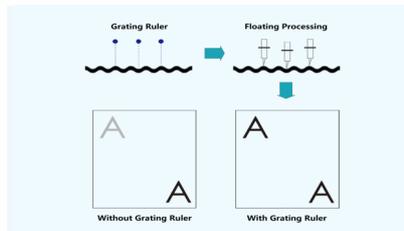
Compatible with AutoCAD, Coreldraw and Flexi, etc.

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



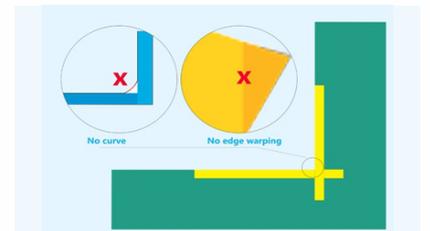
Clean Smooth Edge Quality

The Grating Ruler and correspondent cutting force management deliver clean smooth edge quality, even for the most complex jobs. GC7000 cutter plotter series is able to cut small text strings and it is easy to peel off the waste material, which cut down workload greatly for the users.



Grating ruler

It is inevitable that the cut table or material surface is not at the same height from point to point, we take Grating Ruler, a precise optical device, to measure the distance between blade tip and material surface in real time, and 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.



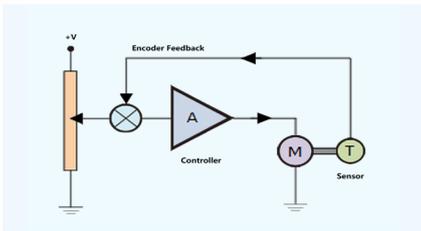
Advanced Algorithm

Advanced algorithm and quality hardware allow for obvious elimination of distorted, rounded or lifted corners. Advanced algorithm of motion controller, optimized tool paths, servo motor on XY axis, voice coil motor on Z axis and quality precision driving system, all of these elements make the machine moving faster and processing with more efficiency.



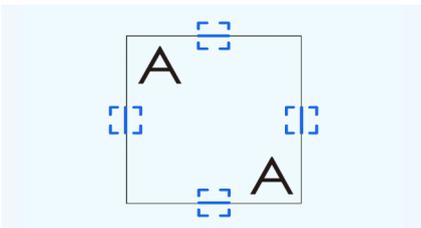
Quality components

For more outstanding performance and long-term reliable working, we only use world class brand name components such as BANDO belt, MINEBEA bearing, etc.



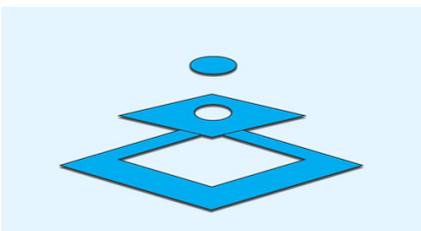
Servo Motor / Closed Loop Control

Cutting / Plotting will be stopped when tool carriage is overloading, it is an important safety feature to protect tool carriage when media is jammed.



Media Sensor(optional)

It is applied to measure the size of media, the cutting/plotting operation won't be carried out if media size is not big enough for the contents, and controller will ask operator to enlarge the media or decrease the size of contents. Media sensor helps greatly in saving media and increasing efficiency.



Half Cut / Perforation Cut

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

TECHNICAL PARAMETERS

MODEL	GC-140F
Max. Cutting Width (Non-contour Cutting)	1290mm
Max. Cutting Width (Contour Cutting)	1220mm
Max. Mountable Media Width	1440mm
Min. Mountable Media Width	70mm
No. Of Push Rollers	5pcs
Max. Cutting Thickness	1MM
Max. Cutting Speed	800mm/s
Max. Cutting Force	600gf/5.8N in 8 steps
Cutting Force Setup	Adjustable in every 1gf
Drive	XY -Servo; Z-high speed voice coil motor
Mechanical Resolution	0.0125mm
Min. Circle Diameter	0.8mm
Min. Character Size	1x1mm
Min. Number Size	3x3mm
IOS	Win10/8/7/XP
Memory Buffer	2MB
Software	Windows Driver, SignWorkPro, CAD to PlotPro
LCD	English/Chinese
File Format	HP-GL,PLT
Port in Standard	USB,RS-232
Registration Marks Sensing	GARMS
Power Input	90V-240V AC,50-60Hz
Power Consumption	60w
Cutter Holder/Pen Holder	1 for each
Cutter Blade Diameters	0.9mm,1.5mm,2.0mm
Cutter Blade Angles	30°,45°,60°
Types of Pen	Water based fiber-tip pen & Oil based ball pen
Media Stock Roller Plates	Included
Basket	For option
G.W./N.W.	96/62kg
Package Size L-W-H	171x40x57cm(0.4CBM)

PACKING PHOTOS



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