

VICUT



GR8000 SERIES HIGH-END CUTTING PLOTTER

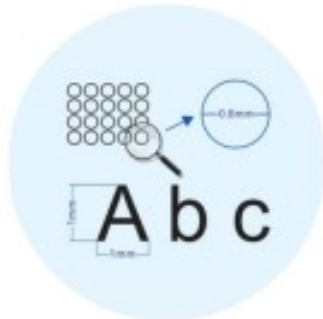
Grating ruler
Static electricity free
8 steps cutting force
7M/23ft stable accurate tracking

PRODUCT PROFILE

VICUT GR8000 Series of high performance cutting plotter offers advanced solution for users from automotive aftermarket, road safety, sign, graphic and counter-top installation. It is capable of processing paint protection film (PPF), window tinting, diamond grade reflective film, sandblast resist rubber, card paper, self-adhesive vinyl, Amberlith and Rubylith, etc.

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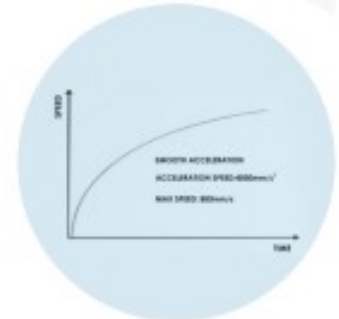
High Precision

The GR8000 series is able to cut small text strings, and it is easy to tear off the scraps.



Stable Accurate Tracking Reach to 7Meters/23FT

Leading of most competitors, GR8000 series vinyl cutter is able to do stable long size tracking for 7 meters/23ft, which is a very important feature of high-level processing, it is ideal for making big signs, patterns, etc.



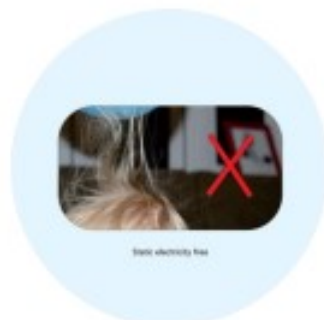
Fast Speed

Maximum speed reach to 800mm/s, acceleration speed 4000mm/s.



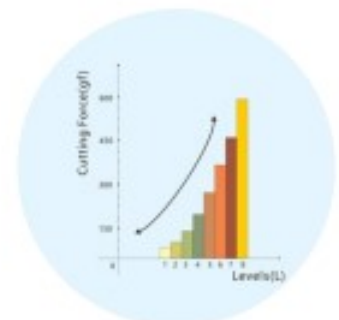
Big Cutting Force

Max. cutting force: 600gf / 5.8N. It is capable of processing thick materials.



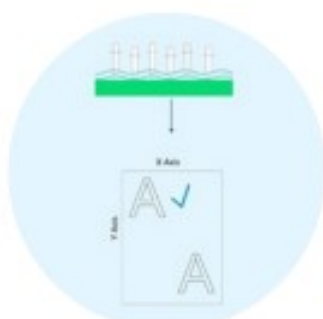
Static Electricity Free

The static interference is a headache for cutter plotters. The GR8000 series cutter eliminates the static interference successfully and having been tested year-round in different weather conditions.



Cutting Force In 8 Steps

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



Automatic Leveling

Grating ruler is able to do leveling automatically during cutting, so that the plotter is able to cut the media accurately even from uneven cutting table.



Leading Compatibility

Leading the same industry, GR8000 is able to adapt to the latest version of popular CAD/CAM software, such as AUTOCAD, Adobe Illustrator, Coreldraw, Flexisign, SignCut. Various pattern software in automotive aftermarket like 3M Pattern and Solutions Center (PSC), Core by LLUMAR, INTEGO are already compatible with GR8000 system.



No Need Overcut

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

TECHNICAL PARAMETERS

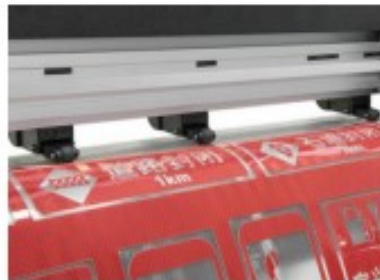
MODEL	GR8000-80	GR8000-140	GR8000-180
Max Cutting Width (Non-contour Cutting)	690mm	1290mm	1630mm
Max Cutting Width (Contour Cutting)	600mm	1220mm	1520mm
Max mountable media width	840mm	1440mm	1780mm
Min mountable media width	70mm		
Maxcutting speed	800mm/s		
Maxcutting force	600gf/5.8N in 8 steps		
Cutting force setup	Adjustable in every 1gf		
Drive	Servo		
Mechanical resolution	0.0125mm		
Min circle diameter	0.8mm		
Min. character size	1×1mm		
Min number size	3×3mm		
IOS	Win10/8/7/XP		
Memory buffer	2MB		
Software	Windows Driver,Sianworkpro,CADtoPlot pro		
LCD	English/ Chinese		
File format	HP-GL,PLT		
Port in standard	USB,RS-232		
Registration marks sensing	Red light sensor (CCD camera is optional)		
Power Input	90V-240VAC,50-60H		
Power consumption	60W		
Cutter holder/pen holder	1 for each		
Cutter blade diameters	2.0mm		
Cutter blade angles	30°,45°,60°		
Types of pen	Water based fiber-tip pen & Oil based ball pen		
Method to fix material	Push rollers		
Media stock roller plates	Included		
Basket	For option		
Package size L-W-H	1180×400×570mm	1710×400×570mm	2200×400×570mm

DETAILS DESCRIPTION



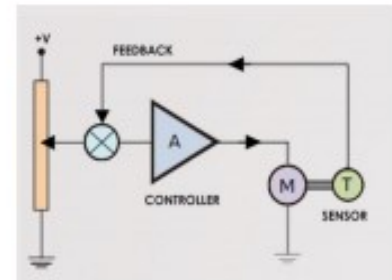
Advanced Tool Carriage

Taking the sport car structure, driven by silent voice coil motor, GR8000's tool carriage is featured as fast, more agility and no overheat for long-term non-stop operation.



Accurate Rigid Push Rollers

Combination of accurate push rollers, precise feeding rollers and quality bracket ensure long stable linear tracking of media.



Servo Motor/closed-loop Control

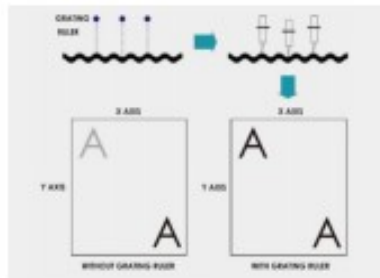
Cutting/plotting will stop when the carriage is overloaded. It is an important safety feature to protect tool carriage when media is jammed. Servos bring out smooth acceleration, big torque, precise cutting / plotting and excellent durability.



Controller

GR8000 controller runs with advanced algorithm, easy to upgrade and custom-made for different applications for future as we own it.

Unlike the others, our system makes blade-tip compensation by hardware (main board) instead of software, our machine works at sustainable high precision no matter what kind of computer system or CAD/CAM software is taken.



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.

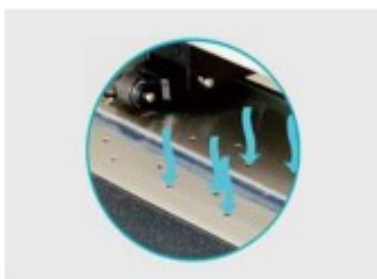


Signworkpro

A plugin software which is special developed for GR8000 series cutting plotter, is compatible with CorelDRAW and Adobe Illustrator.

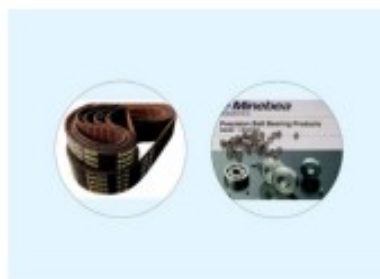
When the SignWorkPro is embedded, the PC is able to recognize the cutter by itself via USB cord, operator will not asked to setup any parameter. SignWorkPro bridges the PC and cutter seamlessly.

We are able to supply diverse programs for different CAD/CAM software as require.



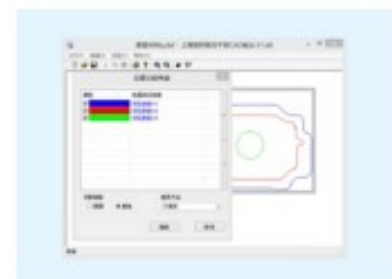
Suction Cutting Table

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 and accurate cutting/plotting.



Top Class Components

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



Cad Output Center

For medias with multiple layers, for example, 3 or more layers, people may set different cutting forces for different layers, or they may perform half /full cutting, in such cases it is convenient to design with