




GR8000 SERIES HIGH-END CUTTING PLOTTER


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

PRODUCT PROFILE

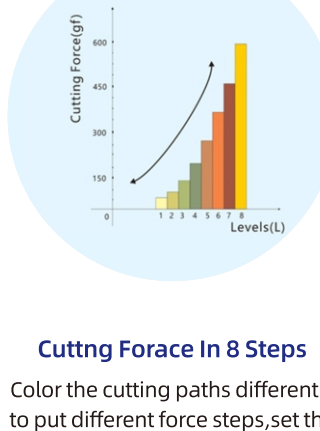
VICUT GR8000 Series of high performance cutting plotter offers advanced solution for users from automotive aftermarket, road safety, sign, graphic and counter-top installation. It is capable of processing paint protection film (PPF), window tinting, diamond grade reflective film, sandblast resist rubber,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



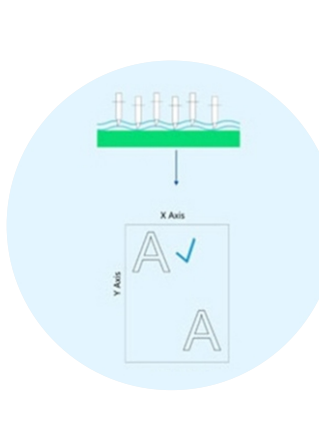
High Precision
The GR8000 series is able to cut small text strings, and it is easy to tear off the scraps.



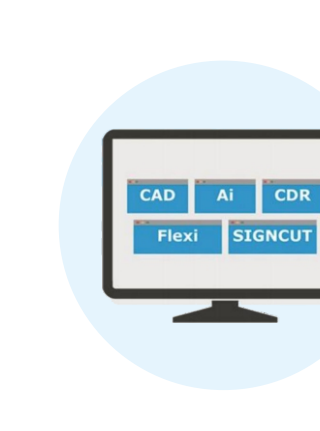
Stable Accurate Tracking Reach to 7Meters/23FT
Leading of most competitors, GR8000 series vinyl cutter is able to do stable long size tracking for 7 meters/23ft, which is an very important feature of high-level processing, it is ideal for making big signs, patterns, etc.




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



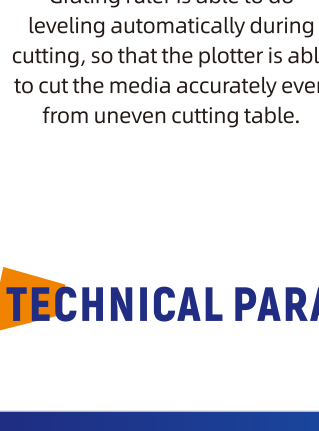
Big Cutting Force
Max. cutting force: 600gf / 5.8N. It is capable of processing thick materials.



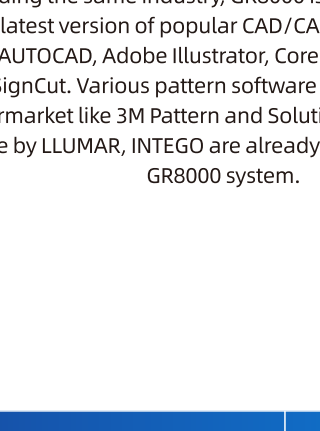
Static Electricity Free
The static interference is a headache for cutter plotters. The GR8000 series cutter eliminates the static interference successfully and having been tested year-round in different weather conditions.




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 LLLUMAR, 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.

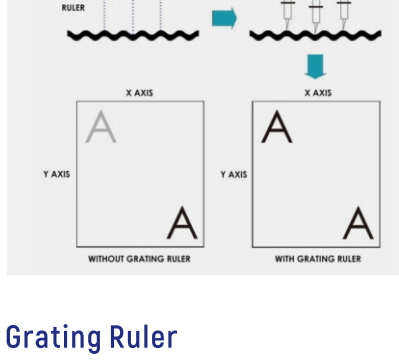
TECHNICAL PARAMETERS

| 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 | |
| Max cutting speed | | 800mm/s | |
| Max cutting 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 | | 1x1mm | |
| Min number size | | 3x3mm | |
| 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 | 1180x400x570mm | 1710x400x570mm | 2200x400x570mm |
| Gross/Net weight | 42/27kg | 96/62kg | 105/72kg |


DETAILS DESCRIPTION



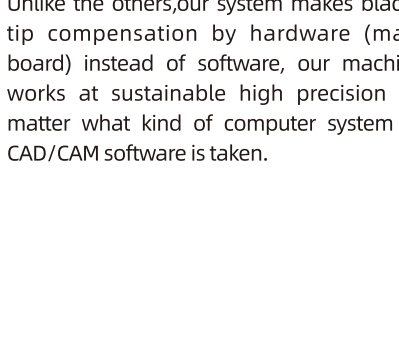
Advanced Tool Carriage
Taking the sport car structure, driven by silent voice coil motor, GR8000's tool carriage is featured as fast, more agility and no overheat for long-term non-stop operation.



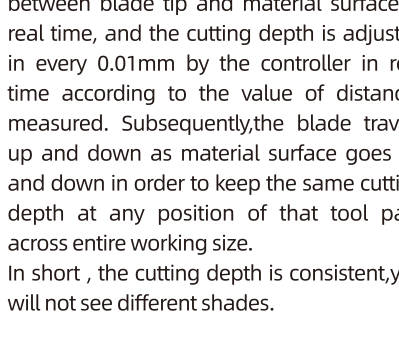
Accurate Rigid Push Rollers
Combination of accurate push rollers, precise feeding rollers and quality bracket ensure long stable linear tracking of media.



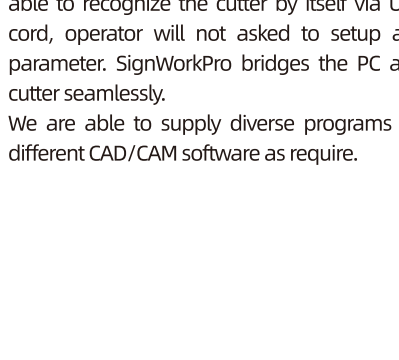
Servo Motor/closed-loop Control
Cutting/plotting will stop when the carriage is overloaded. It is an important safety feature to protect tool carriage when media is jammed. Servos bring out smooth acceleration, big torque, precise cutting / plotting and excellent durability.




Controller
GR8000 controller runs with advanced algorithm, easy to upgrade and customized 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 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.



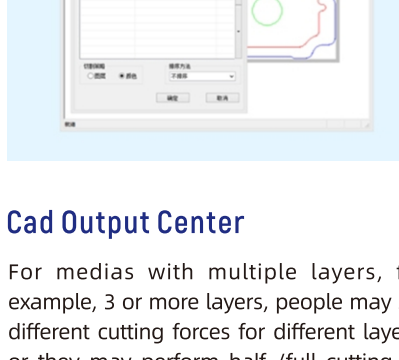
Signworkpro
A plugin software which is special developed for GR8000 series cutting plotter, is compatible with CorelDRAW and Adobe Illustrator. When the SignWorkPro is embedded, the PC is able to recognize the cutter by itself via USB cord, operator will not be asked to setup any parameter. SignWorkPro bridges the PC and cutter seamlessly. We are able to supply diverse programs for different CAD/CAM software as require.



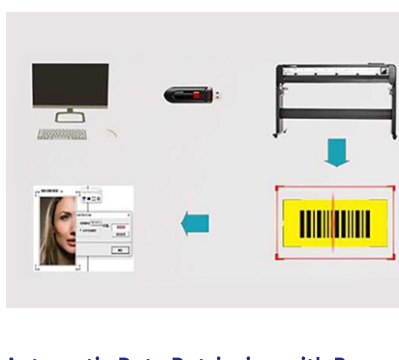
Suction Cutting Table
Dense air inlets & strong air flow to hold down the media flatly and tightly against the table top so that the tool carriage can perform fast and accurate cutting/plotting.



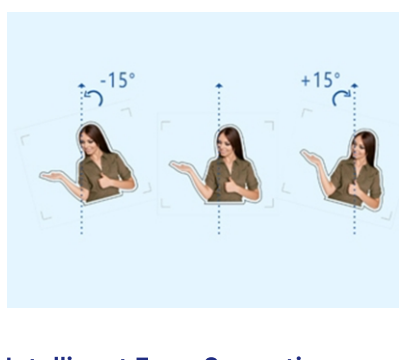
Top Class Components
For more outstanding performance and long-term reliable working, we only use top class brand name components such as BANDO belt, MINEBEA bearing, etc.



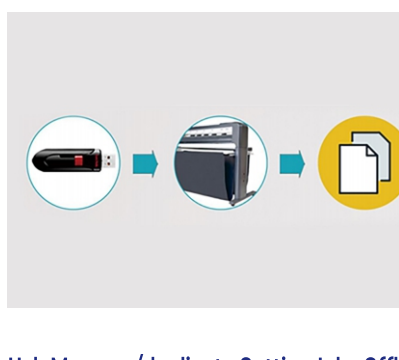
Cad Output Center
For medias with multiple layers, for example, 3 or more layers, different cutting forces for different layers, or they may perform half /full cutting, in such cases, it is convenient to design with CAD and send cutting job by CAD Output Center.



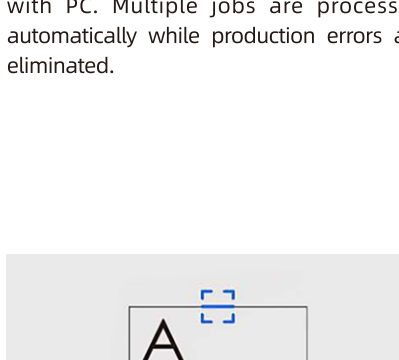
Automatic Data Retrieving with Bar-code
One click to find the cutting job from those saved in the USB memory by scanning the printed Bar-code, while no need to connect with PC. Multiple jobs are processed automatically while production errors are eliminated.



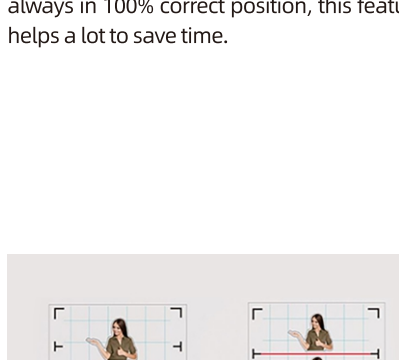
Intelligent Error Correction
If material is placed inclined (±15°), our system is still able to read registration marks, so it is unnecessary to put materials always in 100% correct position, this feature helps a lot to save time.



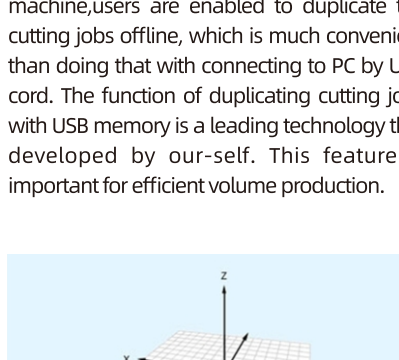
Usb Memory/duplicate Cutting Jobs Offline
Knowing exactly what trouble the users and what they want, we design the cutter to fix those practical headaches. With our machine, users are enabled to duplicate the cutting jobs offline, which is much convenient than doing that with connecting to PC by USB 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.



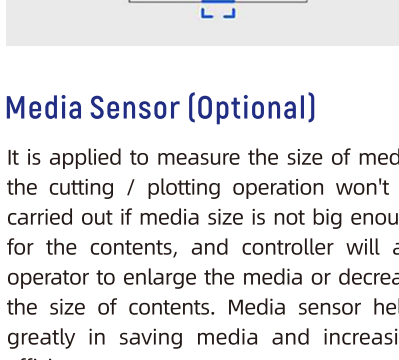
Media Sensor (Optional)
It is applied to measure the size of media, the cutting / plotting operation won't be carried out if media size is not big enough for the contents, and controller will ask operator to enlarge the media or decrease the size of contents. Media sensor helps greatly in saving media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



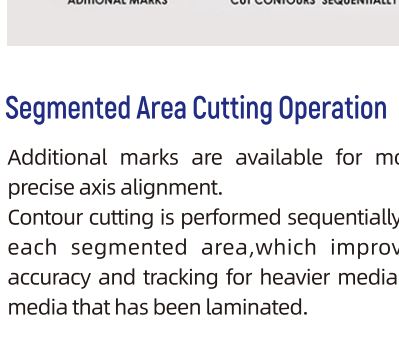
Segmented Area Cutting Operation
Additional marks are available for more precise axis alignment. Contour cutting is segmented in each segmented area, which improves accuracy and tracking for heavier media or media that has been laminated.



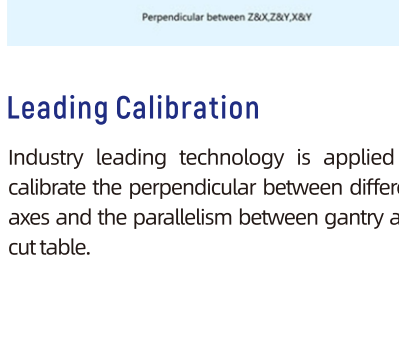
Leading Calibration
Industry leading technology is applied to calibrate the perpendicular between different axes and the parallelism between gantry and cut table.



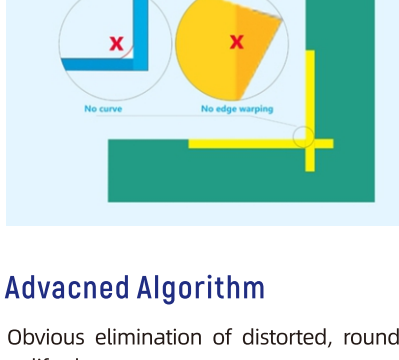
Advanced Algorithm
Obtained elimination of distorted, rounded or lifted corners.



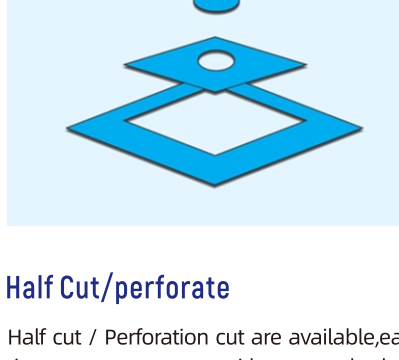
Half Cut/perforate
Half cut / Perforation cut are available, each time you may carry out either one or both.



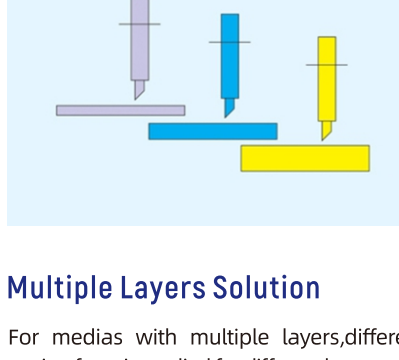
Multiple Layers Solution
For medias with multiple layers, different cutting force is applied for different layer.




Handshake Protocol
We supply Software Development Kit / SDK to match with client's software, which let the cutter work with specified software only.



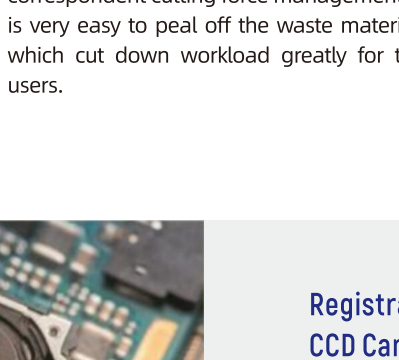
One click to load print driver
One-click to install print driver and printout with USB, send cutting job from any CAD software that with printer feature. Our print driver works with Windows 32 / 64 bit.



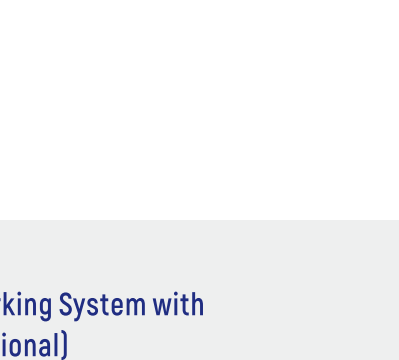
DXF Direct Output
Unnecessary to do any format conversion, GR8000 is compatible with .DXF file directly.



One-click Clear History
One-click deletion button for the currently print document and clear it completely.



Clean Smooth Edge Quality
The machining surface is smooth and clean with the help of Grating Ruler and the corresponding cutting force management. It is very easy to peel off the waste material, which cut down workload greatly for the users.

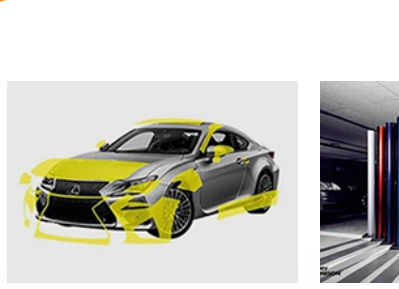


Two Pressure Levels
Push rollers with two pressure levels, flexible to set pressure according to media features.




Registration Marking with CCD Camera (Optional)
CCD camera detects the intricate die-less contours efficiently, problems caused by position error of human, poor quality printing issues are resolved. CCD camera is applied for wider variety of colors.

TOOLS & ACCESSORIES



Fine Blade Holder
This precise engineered components fits 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.



Cutting Blades
Angle 30° for reflective sheeting, thick media or small character.
Angle 60° for reflective film.
Angle 45°/Ø2.0mm for PPE.

SAMPLE DISPLAY

Paint Protection Film/ppf

Car Wrap Vinyl

Heat Transfer Material

Photo Paper

Sand Blast Film

Pre-printed Labels

Road & Traffic Signs

Wall Decals

SAMPLE DISPLAY