



Genus cars

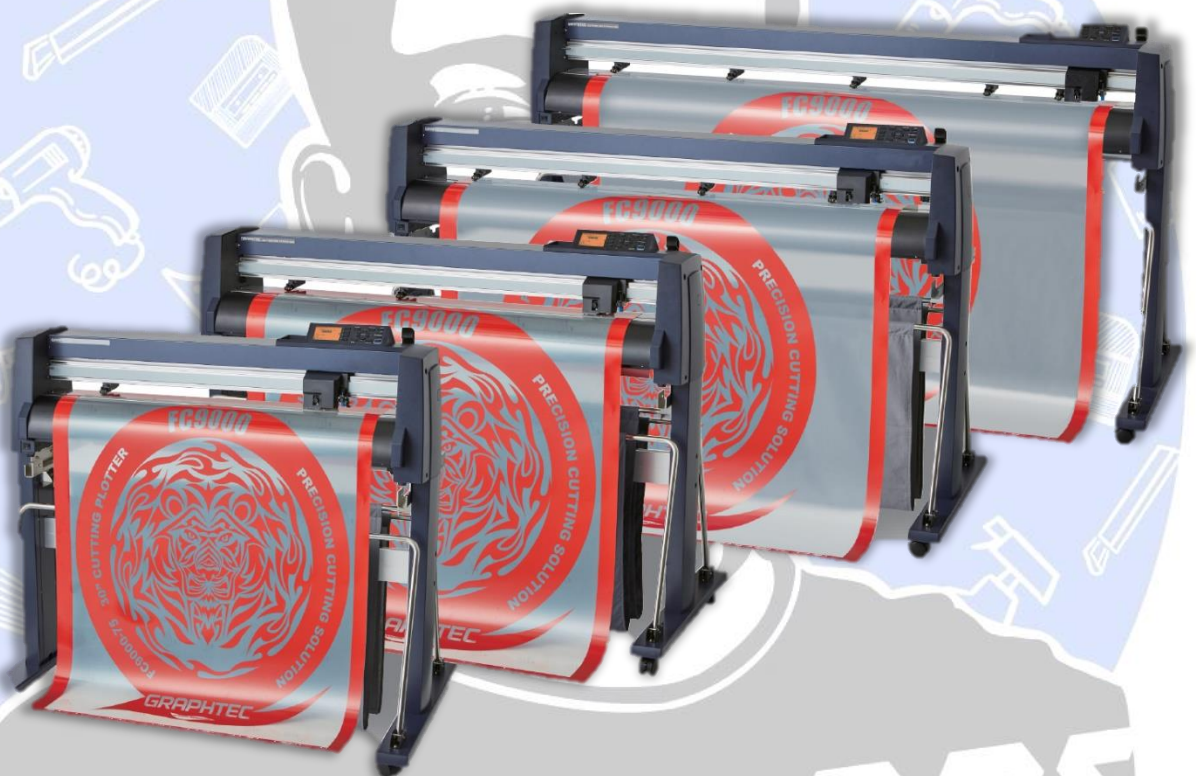
GRAPHTEC

CUTTING PRO

FC9000 Series 75/100/140/160

World's best cutting quality

High-end flagship model with advanced operation and efficiency-boosting features



GENUSCARS

Highest Level Performance

Best performances in its class of grit-rolling cutting plotters.

High Productivity

Equipped with advanced functions for high productivity, such as enhancing ease-of-use and shortening cutting time.

Useful Software

Easily create and cut high quality designs with included software.

Highest Level Performance

Best in class ability

1485mm/s maximum cutting speed, 39.2m/s² maximum acceleration, 5.88N (600gf) maximum cutting force. The FC9000 Series offers best in class productivity and abilities with a wider range of medias from thick to thin.



Second pen holder kit (option)

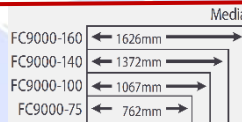
Reliable long-length tracking (Automatic Take-up Roller)

It supports long-length, 15m (50ft) (*1) and makes possible to cut large signs/pops with stable paper carriage and high accurate cutting quality. In addition, if Automatic Take-up Roller as option (*2) is equipped to plotter, it becomes possible to automatically wind media and improve your work efficiency.



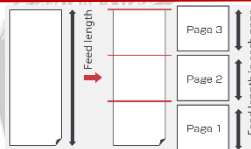
Wide area for full use of paper

Minimum cutting width is 50mm (1.96 inch). Maximum cutting width depends on each machines; 762mm (30 inch), 1067mm (42 inch), 1372mm (54 inch), 1626(64 inch).



Auto panning

To prevent skew of long-length cutting, this function makes possible to automatically split long-length jobs into smaller pages that are cut sequentially. It shortens feed length and enables stable cutting. It is useful for cutting with higher accuracy or beyond guaranteed long length.



User-friendly control panel

3.7inch LCD display and easy-to-use control panel supports 10 languages.



(*1) Operated with Graphtec specified media and conditions.

(*2) Corresponding Models: FC9000-140/160

• Guaranteed accuracy length: 20m (Under 1.2m per job)

• Maximum diameter of winding roll: φ180mm

* Winding conditions: -End face of roll media and end face of paper tube should be aligned.

-Width of roll media should be the same as width of paper tube at winding side.

* It cannot be wound if the media is folded or overlapped inside the basket.

Data output via USB flash memory without PC

When cutting data designed with Cutting Master 4 or Graphtec Pro Studio / Plus are saved to USB flash memory, they can be output directly to the cutting plotter by plugging in. This simplified work-flow enables users to operate without a computer.



Improved Application Software

Cutting Master 4



Cutting Master 4 is Graphtec plug-in software for Adobe Illustrator and CorelDRAW Graphic Suite. It sends cutting data to the plotter and includes a variety of functions such as: preview, registration mark creation, tool conditions, cut job settings and more. Cutting Master 4 is easy to use and enables you to get the best performance from your plotter. Trim marks for Adobe Illustrator is finally available.

<Main Features>

- Move, expand, shrink the object directly from the preview window
- Create object outline, recognize the line width and overlap
- Output by layer or color ● Insert weeding line
- Split an object into small pieces with tilling function
- Connectable and switchable to multiple plotters

Graphtec Pro Studio Graphtec Studio



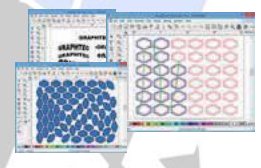
Easy-to-use application software for creating original designs. It has many enhanced functions such as auto-shapes, shading, and editing functions. It can also configure the cutting conditions and other settings on plotter. EPS, Ai (*5), CMX (*5), and PDF (*5) file formats are supported. Graphics created with other popular design software can be imported into the software.

<Main Features>

- Create designs using auto-shape, various line types, etc.
- Texts edit (rotate, mirror, fit-to-shape, etc.)
- Auto-trace (supporting bmp, tiff, jpeg, etc. image format)
- Connectable and switchable to multiple plotters
- EPS, DXF format files and other raster format files are supported
- Layer (*5) ● Output by color ● Insert weeding line (*5)

Multi-Function Optional

Graphtec Pro Studio Plus



Graphtec Pro Studio Plus is the enhanced edition of Graphtec Pro Studio. It is optional software with functions for improving productivity and advanced design. Additional functions include transformation of characters and graphics, automatic sequence number insertion, barcode creation, templates for rhinestone creation, nesting, directional change of cutting lines, changing cutting order, and more.

<Main Features of Graphtec Pro Studio Plus>

- Text and shape deformation, shadow / stripe effects ● Spelling check ● Vector ● Filter for bitmap image ● Power Nest (Nesting)
- Serialized numberings, Barcode, QR code, etc. ● Cutting simulation
- (Changing cutting order) ● Output by layer or color ● Insert weeding line

<Main Features of Graphtec Pro Studio Plus for Rhinestone>

- Rhinestone design support

<Main Features of Graphtec Pro Studio Plus for Auto Nesting>

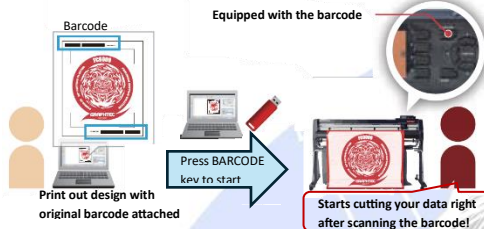
- Nesting (Auto, Power Nest, intelligent)

Improved ARMS for high precision cutting (ARMS 8.0)

The Advanced Registration Mark Sensing system delivers precise Print & Cut results by using sensors to detect registration marks and perform axis alignment. Countless efficiency boosting features improve productivity for print & cut applications such as stickers and decals.

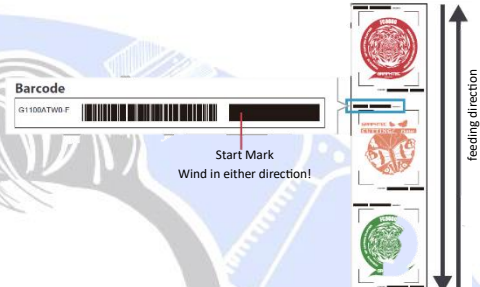
Data Link Function (Barcode Data Management/Continuous Cutting)

By reading Graphtec original barcode, FC9000 automatically detects its linked data from PC or USB flash memory. This function is available regardless of which printer or RIP software is used.



Continuous Cut (Data Link function)

Barcode data management allows cutting different data sequentially by detecting the "Start Mark" of the new type of barcode. Sequential P&C process with roll-media is now available.



Supports colored marks / specialty media

A wide variety of media types including holographic paper and reflective sheets are now compatible due to improvements of the ARMS sensor algorithm.



* Sensor may not be able to read certain combinations of specialty

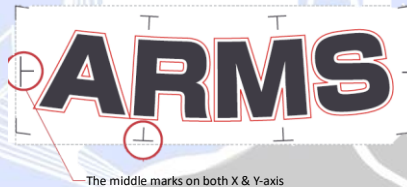
Supports Adobe Illustrator "Crop Marks"

Using the plug-in software Cutting Master 4, Adobe Illustrator crop marks will be available.



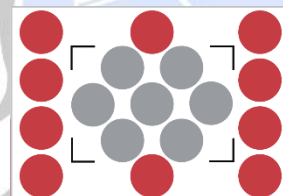
Segment Area Compensation (XY)

This function has been implemented in addition to the current X-axis Direction Segment Area Compensation. Middle mark is now available not only for X but also Y-axis alignment.



Expanded Cutting Area

It expands the cutting area to include objects outside of the area enclosed by registration marks. Production efficiency is enhanced by reducing media waste.



| Specifications | | | | |
|--|--|------------------------------|--|--|
| Item | FC9000-75 | FC9000-100 | FC9000-140 | FC9000-160 |
| Configuration | Grit rolling type | | | |
| Drive method | Digital servo drive | | | |
| Max. cutting area (W x L) (*1) | 762mm x 50m | 1067mm x 50m | 1372mm x 50m | 1626mm x 50m |
| Cutting area of guaranteed accuracy (*1) | 742mm x 15m | 1047mm x 10m / 762mm x 15m | 1352mm x 10m / 762mm x 15m | mm x 10m / 762mm x 15m 1607 |
| Mountable media width | Min. (*2) | 50mm | | |
| | Max. | 920mm (36.2 inch) | 1224mm (48.1 inch) | 1529mm (60.1inch) |
| Mountable roll media diameter | 76 to 200mm (160mm when the optional paper flange (OPH-A21) is installed) | | | |
| Mountable roll media mass | 12kg | 16kg | 20kg | 24kg |
| Compatible take-up roll width | - | - | 200 to 1372mm | 200 to 1626mm |
| Compatible take-up roll mass | - | - | 20kg | 20kg |
| Maximum cross cut width | 762mm | 1067mm | 1372mm | 1626mm |
| Max. cutting speed | 1485 mm/s at 45° direction | | | |
| Axial acceleration | Max. 39.2m/s ² at 45° direction | | | |
| Cutting force | Max. 5.88N (600gf) | | | |
| Minimum character size | Approx. 5 mm alphanumeric (varies depending on character font and media) | | | |
| Mechanical resolution | 0.005mm | | | |
| Programmable resolution | GP-GL : 0.1/0.05/0.025/0.01mm HP-GLTM (*3) : 0.025mm | | | |
| Repeatability (*1) | Max. 0.1 mm in plot up to 2 m (Excluding media expansion and contraction) | | | |
| Number of push rollers | 2 rollers | 3 rollers | 4 rollers (Max. 5 (option)) | |
| Mountable number of tools | 1 tool (mountable 2 tools (option)) | | | |
| Blade types | Super steel | | | |
| Pen types | Oil-based ballpoint pen, Water-based fiber-tip pen | | | |
| Media types | Thickness 0.25mm or less Marking film (PVC film / fluorescence / reflective), Polyester film (on condition), High Intensity reflective film (Diamond grade, Engineer grade) (*4) | | | |
| Display | Graphic type LCD with back-light (240dots x 128dots), supports 10 languages | | | |
| Interface | USB 2.0(Full Speed), Ethernet 10BASE-T/100BASE-TX | | | |
| Buffer memory | 2MB | | | |
| Command sets | GP-GL / HP-GL™ (Set by command or auto-detect) (*3) | | | |
| Compatible OS (*5) | Windows 10/8.1/7 Mac OS X 10.6 ~ 10.11 / macOS 10.12 ~ 10.14 (Graphtec Studio: 10.6 - 10.14, Cutting Master 4: 10.7 - 10.14) | | | |
| Supported software (*6) | Graphtec Pro Studio (Windows)(*7), Graphtec Studio(Mac), Cutting Master 4(*7), Windows Driver | | | |
| Power source | 100 V to 240 V AC, 50 / 60 Hz | | | |
| Power consumption | Max. 120W | | | |
| Operating environment | 10 to 35 °C, 35 to 75 % R.H. (non-condensing) | | | |
| Guaranteed accuracy environment | 16 to 32 °C, 35 to 70 % R.H. (non-condensing) | | | |
| External dimensions (W x D x H) (*8) | Approx.1360 x 1151 x 1232 mm | Approx.1665 x 1151 x 1232 mm | Approx.1970 x 1151 x 1232 mm | Approx.2224 x 1151 x 1232 mm |
| Weight (approx.) (*8) | 49 kg | 56 kg | 64.0 kg (80.9kg with installed automatic take-up roller) | 70.0 kg (88.5kg with installed automatic take-up roller) |
| Safety | PSE, UL/CUL, CE mark | | | |
| EMC | VCCI Class A, FCC Class A, CE mark | | | |

| Option | | | |
|---|------------|--|--|
| Item | Part No. | Description | |
| Automatic Take-up Roller | OPH-A43 | For FC9000-140 | |
| | OPH-A44 | For FC9000-140 | |
| Additional push roller kit | OPH-A47 | For FC9000-140 or FC9000-160 | |
| 2nd pen holder | ECK0013 | For dual tool configuration (dealer option) | |
| Flange | OPH-A21 | Flange for media holding | |
| Graphtec Pro Studio Plus | OPS682-PLS | Design software including all advanced functions(1license) | |
| Graphtec Pro Studio Plus for Rhinestone | OPS682-RSF | Limited edition of rhinestone function only (1license) | |
| Graphtec Pro Studio Plus for Auto Nesting | OPS682-ANF | Limited edition of auto nesting function only (1license) | |

| Supplies | | | |
|---------------------------|----------------|--|---------------|
| Item | Part No. | Description | Package |
| Cutting blade holder | PHP33-CB09N-HS | For CB09U series blade | 1 set/pack |
| | PHP33-CB15N-HS | For CB15U series blade | 1 set/pack |
| | PHP35-CB09-HS | For CB09U series blade | 1 set/pack |
| | PHP35-CB15-HS | For CB15U series blade | 1 set/pack |
| Cutting blade | CB09-P | 0.9mm dia. 45° angle, Super steel | 5 blades/pack |
| | CB09UB-5 | 0.9mm dia. 45° angle, Super steel | 5 blades/pack |
| | CB09UB-K60-5 | 0.9mm dia. 60° angle, for Car-film | 5 blades/pack |
| | CB15U-5 | 1.5mm dia. 45° angle, for paper/cardboard | 5 blades/pack |
| | CB15U-K30-5 | 1.5mm dia. 30° angle, for paper/cardboard | 5 blades/pack |
| | CB15UA-5 | 1.5mm dia. 45° angle, for high intensity reflective film | 5 blades/pack |
| | CB15UA-K30-5 | 1.5mm dia. 30° angle, for high intensity reflective film | 5 blades/pack |
| Cross-cutter blade | PM-CC-002 | Super steel type | 1 blade/pack |
| Loupe | PM-CT-001 | Checking blade length, for PHP33 and PHP35 series | 1 set/pack |
| Fiber-tip pen holder | PHP31-FIBER | Pen holder for KF700 series pen | 1 set/pack |
| Water-based fiber-tip pen | KF700-BK | Pen (black) | 10 pens/pack |
| | KF700-RD | Pen (red) | 10 pens/pack |
| Ballpoint pen holder | PHP34-BALL | Pen holder for KB700 pen | 1 set/pack |
| Oil-based ballpoint pen | KB700-BK | Pen (black) | 10 pens/pack |
| Pouncing tool | PPA33-TP12 | Steel pin 1.2 mm dia. | 1 set/pack |
| Cutting mat | PM-CR-005 | For FC9000-75 replacing cutting mat | 2 sets/pack |
| | PM-CR-006 | For FC9000-100 replacing cutting mat | 2 sets/pack |
| | PM-CR-007 | For FC9000-140 replacing cutting mat | 2 sets/pack |
| | PM-CR-008 | For FC9000-160 replacing cutting mat | 2 sets/pack |

| Standard accessories | | |
|---------------------------|-----|---|
| Item | Qty | Description |
| Power cord | 1 | The type of cord is different by destination. |
| USB Cable | 1 | 2.9m long |
| Cutting blade holder | 1 | PHP33-CB09N-HS |
| Cutting Blade | 1 | CB09UB-1P |
| Loupe | 1 | PM-CT-001 |
| Fiber-tip pen holder | 1 | PHP31-FIBER |
| Water-based Fiber-tip pen | 1 | KF700-BK (black) |
| Stand | 1 | - |
| Media Stocker | 1 | - |
| Basket | 1 | - |
| Flange set | 1 | OPH-A21 (only America) |
| DVD-ROM | 1 | User manual, Windows driver, Graphtec Pro Studio (Windows, 1 license), Graphtec Studio (Mac), Cutting Master4 |
| Printed document | 1 | Setup Manual, Cutter Blade Manual and Safety Manual |