# Learning GravoStyle'98 A Training Manual



GravoStyle'98 for Windows® 95, 98 & NT



## **Congratulations!**

You have just acquired GravoStyle'98, the premier engraving software.

This training manual has been produced to help you discover and familiarize yourself with the available functions in the four levels of GravoStyle'98.

After you become more familiar with GravoStyle'98, you will appreciate the ease and flexibility with which you can create your engraving jobs. Your customers will recognize the high quality in your engraving achievements. And, best of all, you will enjoy learning and using this special software.

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## Chapter 1 Introduction

- What is *GravoStyle*'98
- Introducing the Different Levels
- Recommended System Configuration
- Contents of the Package
- Resources for Learning and Using GravoStyle'98

## Introduction

What is GravoStyle'98

#### What you should know

*GravoStyle'98* is software developed for use under Microsoft<sup>®</sup> Windows and for this reason requires some knowledge of this operating environment. If you do not know Microsoft<sup>®</sup> Windows, it will be essential to acquire a basic understanding of working in this

environment. Chapter 1 of your Microsoft<sup>®</sup> Windows user's manual will provide you with important information on this topic. Also, we strongly advise you to use the built-in Windows Help system to further your understanding of Windows. You can see an

introduction by pressing the **unservice** key on the task bar followed by the **unservice** button on the pop-up menu. Double-click on the Introducing Windows menu selection.

#### What makes GravoStyle'98 unique?

GravoStyle'98 has been designed to meet all your engraving needs, from simple plates to three-dimensional volumetric models. The user does not have to be an artist or an engineer to get great results. The program is designed in levels so that you can learn and use only those functions you need. It makes the engraving process fast, accurate and easy.

*GravoStyle'98* is both a vector graphics and bitmap graphics application. Vector based objects are composed of lines and arcs while bitmaps are composed of pixels or picture elements. *GravoStyle'98* neatly integrates bitmap and vector editing tools into the user interface. And, because it is a full 32-bit Windows application, it is fast.

Some of the more significant capabilities of the software include:

- Scanning and vectorizing
- Typographic text manipulation
- Columns
- Long plate engrave objects longer than the engraving machine
- Graphic editing
- Photostyle engraving a photograph
- Importing and exporting text and graphics interface with other Windows programs
- Automatic toolpath generation
- Dials and Rulers
- Braille
- Styl'Art Volumetric modeling
- Photo Art Creating a 3D surface from a gray-scale image

#### The design process

When preparing a job, the designer has the ability to use either artistic or technical methods, or a combination of both. Artistically, the user can create and manipulate objects and text interactively, i.e., visually. When more precise layout is required, precision dialogs are available to aid the user. The examples in this tutorial help introduce and familiarize the user with both aspects of the software.

#### **Background history**

*GravoStyle'98* is the latest in a line of professional engraving software packages offered by New Hermes. It is Windows<sup>®</sup> 95/98/NT compatible and follows the standard Windows conventions you have already learned if you have been using other Windows software packages. *GravoStyle'98* was developed in cooperation with New Hermes' parent company, Gravograph, and is available worldwide in many languages.

*GravoStyle'98* is packaged in modules so you need only purchase capabilities you need today. As your needs grow, *GravoStyle'98* functionality can be extended by moving to a more advanced level and/or by adding options. This is accomplished simply by entering codes into the software.

### Introducing the Different Levels

*GravoStyle'98* is available in four levels in order to meet the different needs of the numerous engraving applications throughout the world (personalization, sign-making, marking, machining, etc). Each level is built upon the previous level. You receive all the functionality of the preceding level as you move up from Discovery through Industry, Graphic and Dynamic.

For each of these levels, additional options are available for more specialized operations such as PhotoStyle, Dials and Rulers, Braille, etc. A detailed chart of the levels and options follows.



## Introduction

Introducing the Different Levels

### STANDARD FEATURES AND FUNCTIONALITY

Software level:	DISCOVERY	INDUSTRY	GRAPHIC	DYNAMIC
PLATE COMPOSITION				
Automatic composition mode	•	•	•	•
Automatic vertical text	•	•	•	•
Basic font set	•	•	•	•
Diagonal text	•	•	•	•
Dials / scales	NA	OPT	OPT	OPT
Manual composition mode	•	•	•	•
Matrix/list of names & serial numbers	•	•	•	•
Spell checker	•	•	•	•
Text in arc	•	•	•	•
Text in columns	•	•	•	•
Text on a curve		•	•	•
Vertical text	•	•	•	•
DESIGN TOOLS				
Define drilling points	•	•	•	•
Elementary shapes	•	•	•	•
Right-to-left text entry	•	•	•	•
Tools for moving/resizing	•	•	•	•
Aligning objects with each other	NA	•	•	•
Conversion into circles	NA	•	•	•
Conversions into curves	NA	•	•	•
Duplication tools	NA	•	•	•
Fusion, addition, substraction, offset	NA	•	•	•
Segmentation functions	NA	•	•	•
Shading	NA	•	•	•
Splitting contours	NA	•	•	•
Scanning only	OPT	OPT	•	•
Vectorization only	OPT	OPT	•	•
HELP FUNCTIONS				
Guideline grid	•	•	•	•
Help for tool choice	•	•	•	•
Layer / color	•	•	•	•
WYSIWYRE	•	•	•	•
Cost estimate	NA	•	•	•
Spell checker	•	•	•	•
Group/ungroup	NA	•	•	•
Measurements	NA	•	•	•
Upper / lower case	NA	•	•	•
Toggle characters	NA	•	•	•

### STANDARD FEATURES AND FUNCTIONALITY (cont'd)

Software level:	DISCOVERY	INDUSTRY	GRAPHIC	DYNAMIC
IMPORT/EXPORT				
Drivers for GII and NHI tables	•	•	•	•
Export DXF, HPGL, EPS	•	•	•	•
Import HPGL, BMP, TIFF, EPS, DXF,				•
IGES, ISO				•
Import jobs GII, NHI	•	•	•	•
Laser drivers	•	•	•	•
CORRECTION / TOOL PATH				
Filling and 2-D tool management	OPT	OPT	•	•
Advanced tool management (CAM module)	NA	NA	•	•
3rd axis management (CAM with true 3-D	NA	NA	NA	•
capabilities)				
OPTIONS - Specilaty Tools				
Bar codes	OPT	OPT	OPT	OPT
Braille level 2	OPT	OPT	OPT	OPT
Dials / scales	NA	OPT	OPT	OPT
Drivers for other engraving machines	OPT	OPT	OPT	OPT
Engraving font (pack # 1)	OPT	OPT	OPT	OPT
Engraving font (pack # 2)	OPT	OPT	OPT	OPT
Engraving font (pack # 3)	OPT	OPT	OPT	OPT
Export DXF (3-D), HPGL, IGES, ISO (2-D	OPT	OPT	OPT	OPT
Filling and 2-D tool management	OPT	OPT	STD	STD
IGES projection	NA	NA	NA	OPT
ISO drivers	NA	NA	NA	OPT
Long plate	OPT	STD	STD	STD
PhotoStyle, bitmap editing, scanning	OPT	OPT	OPT	OPT
Scanning and vectorizing	OPT	OPT	STD	STD
Styl'Art	NA	NA	NA	OPT

## Introduction

## Recommended System Configuration

### Computers

PC Configuration	Minimum (Discovery)	Recommended (Industry/Graphic)	Recommended (Dynamic)
Туре	Pentium 200	Pentium II 266	Pentium II 333
Memory DRAM	32 MB	64 MB minimum	128 MB minimum
Internal hard disk	40MB	80 MB	80 MB
Windows	95, 98 or NT	95, 98 or NT	95, 98 or NT
CDROM drive	X 12	X 24	X 24
Mouse	Windows compatible	Windows compatible	Windows compatible
Keyboard	Extended 105 keys	Extended 105 keys	Extended 105 keys
Parallel port	1	2	2
Serial port	1	2	2
Graphic card	256 colors	32000	32000
Screen	15", resolution 800x600	19", resolution 1024x768	19", resolution 1024x768
Other peripherals	Disk drive 3.5"	Printer, Scanner (Twain), Sound Card	Printer, Scanner (Twain), Sound Card
Engraving Machine	All equipment accepting HPGL format	2D or 3D New Hermes/Gravograph machine	VMC or 3D New Hermes/Gravograph machine

#### Compatibility

Two transfer modes are available with the *GravoStyle'98* version; HPGL and binary. The binary language can be used with all IS400 engravers and the IS200 (which is the Vanguard Unica with updated firmware).

The binary language was developed by Gravograph in order to reduce job transfer times and speed processing of the files for your engraving machine.

There is a wide range of standard HPGL drivers available for the standard line of Vanguard engravers as well as competitor engraving machines and CNC (Computerized Numerical Control) equipment.

### Contents of the Package

The GravoStyle'98 software package contains the following items:

- •1 GravoStyle'98 folder put in a jacket
- •1 program CDROM
- •1 protection key ( Dongle )
- •1 training manual
- •1 user manual

**Note:** the protection key (dongle) is programmable which will allow you to add supplementary options or to access a higher level by entering a new code. New Hermes supplies this code.

### Resources for Learning and Using GravoStyle'98

For more help in learning and using GravoStyle'98

- Use the Help (F1) built-in to the software
- Refer to the User's Manual
- If you are have exhausted all resources, call the New Hermes technical support hotline at 1-800-8-HERMES.

For help in learning and using the engraving equipment refer the machine user's manual.

## Chapter 2 Installation

- Connecting the Dongle
- Loading the Program
- Installing a Table Driver
- Directories and Files
- Upgrading Levels or Installing an Option

## Installation

## Connecting the Dongle

Make sure power is off before connecting dongle.

Plug the dongle into LPT1 or LPT2. The program will be able to automatically find it. The dongle male pins plug into the LPT port female contacts.

Connect the cable between the PC and the machine according to the configuration chosen (LPTx or COMx). Reconnect any other peripherals, such as the scanner.

#### **CAUTION:**

You can destroy the dongle if you accidentally plug it into the serial port (male pins).

Restart your computer.

**Note**: If the dongle is not recognized when the program is later launched, disconnect any other 'unknown' dongles or cables attached to the dongle and start the operation again.

### Loading the program

You will find the software pre-loaded on all computers purchased from New Hermes.

#### Important: This software can only be installed under Windows<sup>®</sup> 95, 98 or NT.

The following procedure describes the installation of GravoStyle'98 from:

- the D drive: internal or external CDROM drive
- to the C drive: corresponding to your computer's hard disk

**Note:** if you use different drives, replace the D: and C: drives with the name of the drives you selected.

Step-by-Step installation:

Insert the GravoStyle'98 CDROM in the CDROM drive.

On the Windows taskbar, click on

Click on Run

In the Run dialog box, type in the command :

D:\GravoStyle98\Setup.exe and click OK.

Follow the dialog boxes displayed and perform the indicated procedures:

DIALOG	PROCEDURE
Dialog box: Welcome	It is advised to close all running programs. Click NEXT
Dialog box: License	Software License Agreement. Click YES
Disk and directories destination	Select the drive and directory for the software installation. The default c:\gravostyle98 is recommended.
Coordinates 1	This is the user identification that will be recorded in the dongle
Coordinates 2	How to be contacted – used when you order options or upgrades
Type of Install	Typical, compact or custom; Select "custom" to install fonts
Select Program folder	Name of the program group into which GravoStyle'98 should be recorded. The default is recommended.

Reminder: throughout this progression of steps, it is possible to

- Cancel the software installation by clicking on Cancel
- or
- Return to the previous dialog box to revise an error, by clicking the Previous key.

The installation has begun. The progress bar and window show the files being installed.

Once the files are installed, you see a Setup Complete dialog. Click Finish to complete the installation.

And finally, you see another Setup Complete dialog prompting you to restart your computer. Click on the Yes option and the Finish button.

The first time you start *GravoStyle'98*, you will be prompted for the name to be entered into the dongle. It is recommended that you enter your company name.

Next, a Setup Machine dialog box will ask you to select the engraver(s) you will be using.

Setup a	achine	×
× 👩	Add machine	
less.		-
	Install, remove, carvigues your machine as you like. Use right mause butters to open context menu-	1.01
		64

Click on the + symbol of the Add machine icon to open the list of machines.

## Installation

Loading the Program (cont'd)



Click on the + symbol of the GravoStyle sub-directory to see all the types of GravoStyle machines available.

**Note:** Binary entries refer to a high performance binary data transfer protocol. Otherwise, transfer is performed using standard ASCII text.

Select the driver corresponding to the table you will use.

Right click on the driver chosen and select Add this machine contextual menu item or click on the Add button at the bottom of the window.

SEMD INSTANC	
3000 Bitcher	
- 월 1500 Bray - 월 1500 HPGL 20 - 월 1500 HPGL 30 - 월 15700 HPGL 30	-
Install, remove, configure your machine as you like. Use light nexus button to open cannet meau	/dd

The next dialog box (right) prompts you for the port used to connect the engraving machine.

Double click on the Add item to start the Windows Add Printer Wizard. The engraver will be configured like a printer in the Windows operating system.

Setup port	×
C Use Windows spooler	
Add List of installed printers :	-
1	-
C Dn offic	
	_
/F None	
OK. Cancel	

Follow the dialog boxes displayed and perform the indicated procedures. Click on the **Cancel** button at any time during this process to abort the printer install operation.

DIALOG	PROCEDURE
Add Printer Wizard	Click NEXT to begin procedure
How is this printer attached to your computer?	Choose local or network connection. Click NEXT
Define Network path	If Network was selected, enter the Network path or queue name. Click NEXT
Choose printer model	If local printer was selected, choose Generic in the left pane and Generic/Text Only in the right pane. Click NEXT
Choose port	Define the port you will use for the transfer: LPTx, COMx. Note: the mouse usually uses COM1. Click NEXT
Name the printer	Type in a friendly name such as IS400 on LPT1. If you want this to be the default printer (recommended), select the YES option. Click NEXT
Print a test page	Choose NO. Click FINISH

### Installing a table driver

Additional table drivers (also known as post-processors) can be configured any time after program installation. The procedure is as follows:

Machining	
Setup machines	ŀ
Tools data base	ŀ
Machining	ŀ

From the main menu, select Machining > Setup machines

e 🎁 Addinadwa	

The window corresponding to machine installations is displayed showing any drivers previously configured.

The little man icon next to the machine icon indicates the default machine.

Follow the machine installation procedure as previously described.

## Installation

## **Directories and Files**

After installation has been completed, the program will have created the following directories:



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### Upgrading Levels or Installing an Option

When you are ready to upgrade the *GravoStyle'98* level or add an option, contact New Hermes with the order information sheet. This sheet defines the current level and options installed as well as your specific dongle serial number.

To generate this information sheet, click on the yellow question mark symbol <sup>17</sup> in the Main Toolbar. Then click on the **Order** button. This automatically generates a text file in Wordpad or Word for Windows. This information sheet can be emailed, mailed or faxed to New Hermes. Make sure that all the contact information is included. Click Exit to remove the Help > About dialog.

When you subsequently receive your upgrade or option codes, return to the Help > About dialog by clicking on the yellow question mark symbol again. Type the codes into the three text boxes and click on the Validate button. Depending on the upgrade, you may be required to enter multiple sets of these codes, each time followed by clicking on the Validate button. After you click the Validate button, the program displays a message reporting success or a problem. Click Exit to remove the Help > About dialog.