

AutoCAD HDI Printer Drivers

User Manual





Océ-Technologies B.V.

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Chapter 1

Introduction



Océ HDI driver presentation

The Océ HDI driver is an application driver specific for AutoCAD. It converts AutoCAD objects and properties into HP-GL/2 printable files that can be sent to the printer.

What is a printer driver

A printer driver is a computer program that is the elementary link between applications and printers, they allow printing. Without printer drivers, you would have to start a job submission application and send the file manually to the printer. But the printer would then need to interpret all types of native formats (like .DWG and .DOC formats) which is not the case typically.

A printer driver allows a user to print documents by giving control of how a document will be printed and delivered (orientation, folding...). It generates also a printable image of a document (from a native file format) and submits it to the printer.

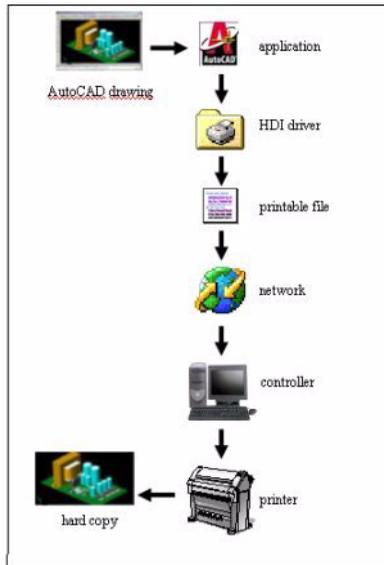
You can find two types of drivers:

- The system drivers which are included into an operating system. They provide a printer service to every application running under that operating system.
- The application drivers which are included into an application such as AutoCAD. They provide a printering service to that specific application only.

What is the Océ HDI Driver

The Océ HDI driver is a dedicated printer driver for the AutoCAD application.

The main purpose of the HDI driver is to convert AutoCAD drawings into a set of HP-GL/2 (and HP-RTL) commands. The Océ HDI driver makes sure that HP-GL/2 commands generated can be interpreted by the Océ printers, and addresses Océ specific features by converting driver Interface settings into remote commands (RCF ticket) on top of the HP-GL/2 data.



[1] Workflow from the AutoCAD drawing to the plot

Compatibility

Application compatibility

The Océ HDI AutoCAD Printer Drivers are available for the following Autodesk applications:

- AutoCAD 2000 based applications
- AutoCAD 2000i based applications
- AutoCAD 2002 based applications
- AutoCAD 2004 based applications
- AutoCAD 2005 based applications.

Note: *The 'AutoCAD 2000 family' refers to all the above mentioned applications.*

Operating system compatibility

<i>Application</i>	<i>HDI Driver</i>	<i>Operating System</i>
AutoCAD 2000	HDI 1.x.x	Windows 95, 98, Me Windows NT4 Windows 2000
AutoCAD 2000i	HDI 2.x.x	Windows 95, 98, Me Windows NT4 Windows 2000
AutoCAD 2002	HDI 3.x.x	Windows 98, Me Windows NT4 Windows 2000 Windows XP (with Autodesk update)
AutoCAD 2004	HDI 4.x.x	Windows NT4 Windows 2000 Windows XP
AutoCAD 2005	HDI 5.x.x	Windows 2000 Windows XP

Printer compatibility

The Océ HDI driver addresses any Océ Wide Format printer.

Configuration requirements

The driver required environment is the one needed by the concerned Autodesk applications.

Prerequisite (for AutoCAD 2000 users only)

If your version of AutoCAD 2000 is prior to January 2000, download and install the 'AutoCAD 2000 Plotting Update Patch' from Autodesk web site (<http://support.autodesk.com>), since it corrects several printing problems (see 'Check if your AutoCAD 2000 version has been updated' on page 47).

Chapter 2

AutoCAD HDI Driver Installation



Update the Océ HDI driver from the ‘Océ Driver Pack’ CD-ROM

Attention: *Close all your Autodesk applications.*

- ▼ **Update the Océ HDI driver from the ‘Océ Driver Pack’**
- 1 Insert the ‘Océ Driver Pack’ CD-ROM in your CD drive. The CD is launched automatically.
 - 2 Click on ‘Install Products’.
 - 3 Select your printer.
 - 4 Click on ‘AutoCAD 2000 family’.
 - 5 Click on ‘Install’.
 - 6 Read the License agreement and click on ‘Accept’.
 - 7 Select your Autodesk application.
 - 8 Choose your driver language.
 - 9 Click ‘OK’.
 - 10 On the ‘Success’ message, click ‘OK’.
 - 11 The Océ HDI driver files are now updated:
 - If your Océ plotter is already installed under AutoCAD, go to ‘Adjust the Océ printing settings’ on page 18.
 - Otherwise, go to ‘Install and configure an Océ plotter’ on page 18.

Update the Océ HDI driver from the Web

Get the driver installation files

▼ **Download the installation files**

- 1 Open your Internet browser.
- 2 Go to the international Océ web site (<http://www.oce.com>).
- 3 Click on 'Drivers, Downloads and Support'.
- 4 Click on 'Drivers'.
- 5 Select your printer in the 'Product' list.
- 6 Select the 'AutoCAD 2000 family HDI Drivers' from the 'Title' list and click 'Go'.
- 7 Select the driver in the 'Direct download' column and follow the instructions to save it locally.

▼ **Unzip the installation files**

- 1 Go to the Windows explorer and open the folder where you saved the file.
- 2 Double click on the .exe file to extract it.
- 3 Browse to the directory where you want to extract the driver installation files (default folder is: \OCEHDI).
- 4 Click 'Unzip'.
- 5 Click 'OK' and 'Close'.

You can now update the océ HDI driver using the Océ set-up program or the Autodesk 'Add-A-Plotter Wizard'.

Update the driver using the Océ set-up program

Attention: *Make sure that you previously closed all your Autodesk applications.*

▼ **Update a driver using the Océ set-up program**

- 1 Open the directory where you extracted the driver installation files (default folder is: \OCEHDI).
- 2 Double click on the 'Setup.exe' file to launch the installation process.
- 3 Select your Autodesk application.
- 4 Choose your driver language.
- 5 Click 'OK'.
- 6 On the 'Success' message, click 'OK'.
- 7 The Océ HDI driver files are now updated:
 - If your Océ plotter is already installed under AutoCAD, go to 'Adjust the Océ printing settings' on page 18.
 - Otherwise, go to 'Install and configure an Océ plotter' on page 18.

Update the driver using the Autodesk ‘Add-A-Plotter Wizard’

Attention: *Make sure that you previously closed all your Autodesk applications.*

▼ **Update the Océ HDI driver using ‘Add-A-Plotter Wizard’**

- 1 Open the Autodesk application you want to update the driver for.
- 2 From File/ Plotter Manager, double click on ‘Add-A-Plotter Wizard’.
Note: *If you have several AutoCAD applications installed, you are prompted to select the one you update the driver for.*
- 3 Click ‘Next’.
- 4 Click the ‘Have Disk’ button.
- 5 Browse to the directory where you extracted the files (default folder is: \OCEHDI).
- 6 Open the directory of the language you want to install.
- 7 Select the folder corresponding to your version of AutoCAD.
- 8 Select ‘Oce.hif’ and click ‘Open’ to copy the files on your disk.
Note: *An error message (‘Access denied’) may appear if you previously copied the Océ HDI driver files from an ‘Océ Driver Pack’ CD. Some files cannot be updated on your disk because they are read-only. If so, exit the procedure, remove the read-only property of these files in your AutoCAD directory and go back to step 1.*
- 9 The driver is now updated, click on ‘Cancel’:
 - If your Océ plotter is already installed under AutoCAD, go to ‘Adjust the Océ printing settings’ on page 18.
 - Otherwise, go to ‘Install and configure an Océ plotter’ on page 18.

Install and configure an Océ plotter

Note: *Open the application you want to install the driver for.*

▼ **Launch the Autodesk ‘Add-A-Plotter Wizard’**

- 1 From File/ Plotter Manager, double click on ‘Add-A-Plotter Wizard’.

Note: *If you have several AutoCAD applications installed, you are prompted to select the one you update the driver for.*

- 2 Click on ‘Next’.
- 3 Select ‘My Computer’ to install the driver on your local PC.
- 4 Click on ‘Next’.

▼ **Install an Océ plotter**

- 1 Select ‘Océ’ in the list of manufacturers.
- 2 Select the printer model you want to install.
- 3 Click on ‘Next’ twice.
- 4 Select the printer port to which your printer is connected (if you do not know which port to select, please contact your system administrator).

Note: *AutoCAD applications do not support LPR port.*

- 5 Click on ‘Next’.
- 6 Enter a name you want to associate with the current driver and click on ‘Next’.

▼ **Adjust the Océ printing settings**

- 1 Click on ‘Edit Plotter Configuration...’ or open a .pc3 file.
- 2 Select ‘Custom Properties’ in the list of options (upper window).
- 3 Click on the ‘Custom Properties’ button.
- 4 Adjust the settings in the ‘Configuration Parameters’ window according to your actual printer configuration (e.g.: number of rolls).

Note: *The ‘Configuration Parameters’ window is not available for Océ inkjet printers.*

- 5 Click ‘OK’.
- 6 Adjust the displayed settings and click on ‘OK’ twice.
- 7 Click on ‘Finish’.

Note: *Your Océ plotter is now installed as you can see in the ‘Plotters’ window of the Autodesk Manager (note that the plotter name has a .pc3 extension).*

Note: *You can also modify the settings before printing from your AutoCAD application in the File/Plot menu. Select your Océ plotter and click ‘Properties’.*

Chapter 3

Océ HDI Driver Configuration



Introduction

Océ Settings presentation

This section describes the printing settings which are managed by the Océ HDI driver. You can access these settings from the 'Plotter Configuration Editor'/'Device and Document settings' window. The Océ HDI driver settings are located in:

- The general device and document settings.
- The Océ 'Custom Properties'.

Note: *Some settings described below may be specific to a given printer and may not appear for other printers.*

Note: *Some settings in the 'Device and Document settings' tab are Autodesk application dependent; they are not described in this manual. See the AutoCAD documentation.*

Access the printing settings

You can access and change the printing settings at any time from the AutoCAD application or from the system:

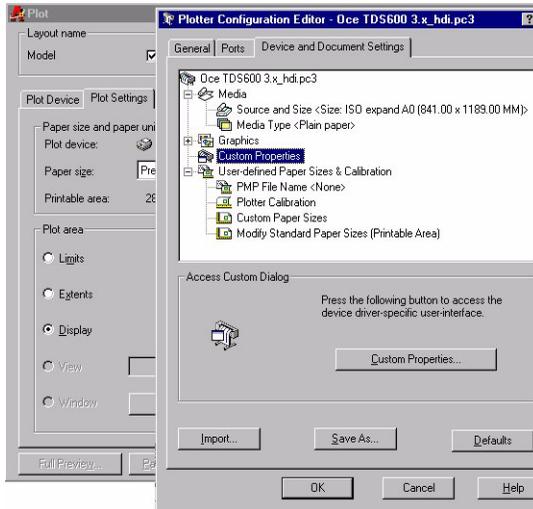
Note: *You can set the printing parameters during the installation. See 'Adjust the Océ printing settings' on page 18.*

From the AutoCAD application

- At any time from the AutoCAD 'Plot' function:

▼ Access the Océ printing settings from AutoCAD

- 1 Select the Plot icon (or select File menu/ Plot).
- 2 Click on the 'Properties' button. The current Plotter Configuration Editor is displayed.
- 3 Select the 'Device and Document Settings' tab.
- 4 Click on 'Custom Properties' to access the Océ specific settings (the button opens the 'Océ Custom settings' window).



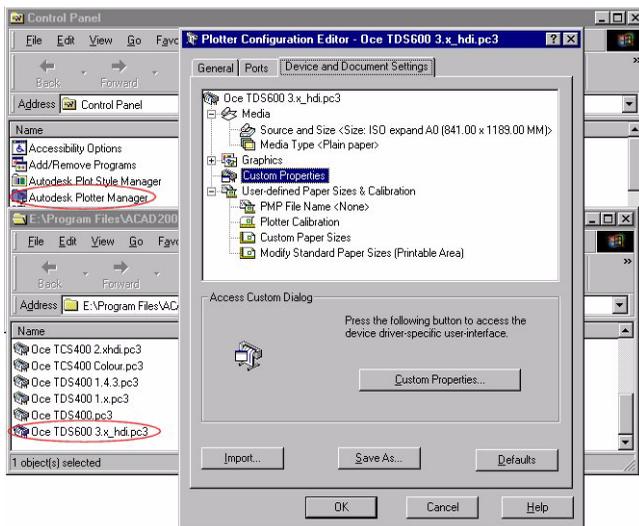
- During the creation of a new layout ('Page setup - layout' window)

Attention: *If the plotter name is 'none' or if it is the wrong one, select the plotter to be use in the list by choosing a .pc3 plotter (plotter configuration file).*

From Windows Explorer

▼ Access the Océ printing settings without opening AutoCAD

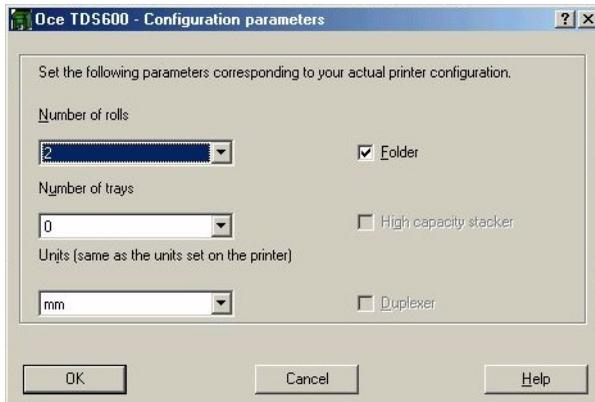
- 1 From the 'Start' menu click on 'Settings'
- 2 Select 'Control Panel'
- 3 Double-click on 'Autodesk Plotter Manager'
- 4 Double-click on the .pc3 printer you want to configure to open the Plotter Configuration Editor.
- 5 Select the 'Device and Document Settings' tab to access the settings.



Plotter configuration parameters

If you did not complete the plotter configuration during the Océ plotter installation (See 'Adjust the Océ printing settings' on page 18), the 'Configuration parameters' window appears when you first click on the 'Custom Properties' button. It allows you to configure some printer settings, according to the printer you use (Océ inkjet printers excepted):

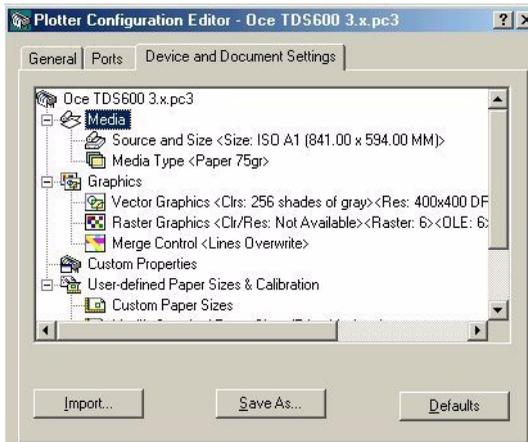
- Number of rolls: Set the number of rolls of media used by your printer.
- Number of trays: Set the number of trays used by your printer.
- Units: The units defined here must correspond to the units defined in the printer. Select inches or millimetres.
- Duplexer: Specify if your printer is equipped with the optional double sided print units.
- Folder: Specify if your printer is equipped with a folder.
- High capacity stacker Specify if your printer is equipped with the high capacity output unit (also called sheet receiving unit).



General device and document settings

Note: Some settings in the 'Device and Document settings' tab are Autodesk application dependent; they are not described in this manual. For those, please refer to the AutoCAD documentation.

Note: Some settings described below may be specific to a given printer and may not appear for other printers.



[2] Device and document Settings

Media settings

Source and size:

<i>Source</i>	You can force the source (roll number, tray) depending on the printer configuration.
<i>Automatic</i>	The printer selects the most appropriate roll for the printout (enabled by default on TDS and TCS printers).
<i>Width</i>	Setting which defines the maximum paper width that can be used in the media 'Size' list.
<i>Size</i>	Select the paper size. You can define a custom paper size (Océ Setting depending on the plotter). The size can also be adjusted in the 'Plot' window when plotting from the application.

Media type:

You can define the type of media you want to print on.

If the media is loaded, the drawing will be printed on this specific one. If not, you are requested to load that media on the printer.

Graphics settings

<i>Vector Graphics</i>	<p>Color Depth: you can select the color depth (color, shades of gray or virtual pens). See 'Pens - 255 virtual pens mode' on page 30.</p> <p>For more information, refer to the AutoCAD documentation.</p> <p>Color/ monochrome.</p> <p>Resolution: the resolution displayed is the actual printer resolution.</p> <p>Dithering: 'Hardware dithering' mode generates a mixed file (HP-GL/2 - RTL). 'Software dithering' mode generates a full raster file. The file is completely processed by the application.</p> <p>See AutoCAD documentation.</p>
<i>Raster Graphics</i> (not available on AutoCAD 2000)	
<i>Merge Control</i> (Custom setting in AutoCAD 2000)	<p>See AutoCAD documentation.</p> <p>Note: Available only on 'Hardware dithering' mode.</p>

User defined Paper Size and Calibration

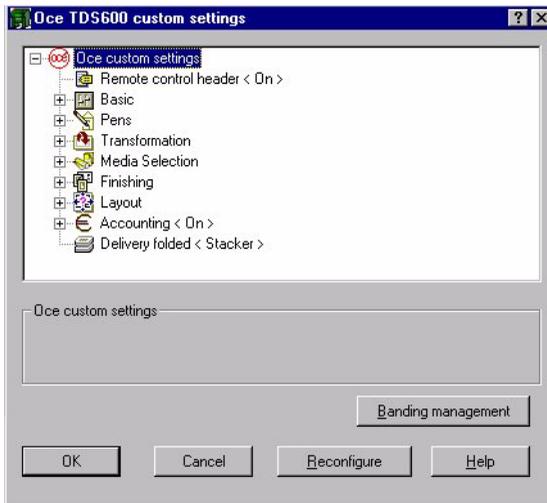
For these settings, see AutoCAD documentation.

Océ Custom settings

The Océ Custom properties dialogue box is the remote control panel for your printer from which you can define a precise plot configuration.

▼ Access the Océ Custom settings

- 1 Open the Plotter Configuration Editor See ‘Access the Océ printing settings from AutoCAD’ on page 21.
- 2 Select the ‘Device and Document Settings’ tab.
- 3 Click on ‘Custom Properties’ in the tree.
- 4 Click on the ‘Custom Properties’ button to access the Océ specific options (‘Océ Custom settings’).



[3] Océ Custom settings

When you exit the Océ custom settings by clicking on OK, the selected parameters are saved and automatically attached to the printer. This configuration is applied to every plot sent to that printer.

Note: Some options do not apply to all Océ printers, they can be specific to the printer selected.

Note: For more information on the Océ custom settings, please refer to your printer user's manual.

Banding management setting

Banding consists of dividing the whole image in stripes, so that the printer keeps one band of data in memory at a time instead of the whole image.

Use Banding if the printer does not have enough memory to entirely process a printout. However, it may slow down the printing process.

Note: *Using this setting may increase the processing time of your drawing.*

Arc tuning

Arc tuning forces AutoCAD application to segment arcs/circles in several vectors before sending them to the plotter.

Use this setting to improve output quality when printing drawings containing small characters (See ‘Small curved characters badly printed’ on page 49).

Remote control header

- | | |
|------------|---|
| <i>On</i> | Adds a remote control header to your plot file. This header describes the settings and attributes the plotter must applied to the printout. |
| <i>Off</i> | When Remote Control Header is disabled, the driver settings are unavailable. |

Basic options

<i>Plot quality (Océ colour Inkjet 5xxx and TCS400)</i>	Specifies the plot quality of your color Inkjet printers. This option has no effect on other machines. Different quality modes are available, depending on your printer: 'Normal'/ 'Release', 'Draft'/ 'Check', 'High'/ 'Presentation', 'Enhanced', and 'Ink Saver'. Refer to your printer user's manual for a detailed description of the available quality modes.
<i>Long plot mode (Océ colour Inkjet printers)</i>	On / Off Select this option to submit long plot up to 15 meters (49.2 feet.) When the option is disabled, plots are limited either to A0 or A1 length (E or D size), according to your printer type. Refer to your printer's user manual for precise plot length limitations.
<i>Print mode (TDS printers) or Content type (TCS printer)</i>	Select the print mode according to the content of your drawing (lines, images).
<i>Poster mode (Océ 94xx and 95xx printers)</i>	This parameter enables the poster mode in order to improve the darkness of large areas of black. Note: Media saver is disabled when Poster Mode is selected.
<i>Media saver</i>	Bypass: Disables media saver. Submitted plots are not added to the waiting jobs in the media saver, they are plotted immediately. Machine mode: Submitted plots are added to the waiting queue and are plotted according to the selected printer mode: Auto position or Nesting (refer to your printer's user manual).

Pens - 255 virtual pens mode

Many plotters that do not use pens can simulate the performance of a pen plotter by using virtual pens. You can configure the virtual pens within the Plot Style Table or in the plotter's control panel. If you allow software to control the pens, the Plot Style Table values for the Lineweight, Linetype, Screening, Line End Style, Line Join Style, and Fill Style settings are effective and override the settings on the plotter's control panel.

To select the printer virtual pens, select '255 Virtual Pens' in the Plotter Configuration Editor/ 'Device and Document Settings' tab/ 'Vector Graphics'/ 'Color Depth'.

To define a virtual pen number in the Plot Style Table Editor, go under Virtual Pen #, specify a virtual pen number between 1 and 255 and assign the color you want to this pen. Enter 0 or Automatic to specify that AutoCAD should make the virtual pen assignment from the AutoCAD Color Index (ACI).

When the 'Color depth' is set to '255 virtual pens', the 'Custom Properties' button will display 'Pens - 255 virtual pens', with a sub-level 'Use printer settings'.

- On* The drawing is printed with the pen attributes (Width, Color and Océ Pen pattern) that you have set on your printer control panel.
- Off* Default width and no pattern is used for all lines in the printed drawing. The color of the lines will be the colours of the HP-GL/2 pen palette.

Note: *When using '255 virtual pens' mode, the AutoCAD pen palette is ignored.*

Merge Control (with AutoCAD 2000 only)

Determines what happens when two or more colours intersect at the same point on a plot, especially in area fills.

- Overlay* Only the last colour specified is printed for a given line or area. The other colours specified for the same line or area are over-written.
- Merge* All the specified colours are blended together.

Transformation options

This option group lets you adapt your plot to specific output requirements.

<i>Mirror</i>	No mirror / in X / in Y. With the 'Mirror' option, you can print a mirror image of an original. You can define the value of the X-axis (in X) or/and the Y-axis (in Y), depending on the printer.
<i>Origin</i>	You can define the plot origin. Keep the default value (Lower right).
<i>Auto-rotation</i> (98xx and TDS printers)	Off - None: the auto-rotation is disabled. Productive: if possible, the drawings orientation is changed to landscape for faster printing due to reduced paper movement through the machine. If landscape format is not available, portrait format is automatically selected (for example, an A1 job will be printed using the A1 roll instead of the A0 roll that would be needed for the landscape format). Folding: drawings are automatically rotated to have the legend on top if folded. This depends on the folding method. To portrait: the orientation is changed to portrait. To landscape: the orientation is changed to landscape. Note: If auto-rotation is enabled, the rotate parameter is ignored.

Media selection

Auto-format
(98xx, TDS and TCS
printers)

On/Off

Set to 'on' (by default). It enables the automatic format selection of a standard paper format on which the drawing fits without loss of information.

This setting is available only if 'Automatic' is selected on the Custom Properties / Media Source & Size.

Fit Method

This option allows you to define on which media size a drawing will be printed, if the specified media size is not available.

Exact fit: A drawing is only printed if the specified media size is available. Otherwise, a message is displayed on the printer's control panel and the printer waits for the appropriate media to be loaded by the operator.

Next larger: The printer looks for the requested format. If it is not present, it prints the drawing on the next larger available media. If there is none, or not of the same media type, a message is displayed on the printer's control panel and the printer waits for the appropriate media to be loaded by the operator.

Next smaller: The printer looks for the requested format. If it is not present, it prints the drawing on the next smaller available media. If there is none, or not of the same media type, a message is displayed on the printer's control panel and the printer waits for the appropriate media to be loaded by the operator.

Finishing options

This option group lets you define how the plots are packaged when delivered.

You can install a folder unit on some Océ printers. The following two optional features are also available:

- Reinforcement unit
- Belt unit

Note: *For more details regarding the finishing options of your printer, refer to your printer's user manual.*

Note: *To access the folding settings, be sure that you declare the folder in the Configuration Parameters window.*

Folding

None / Full / First fold only.

None: The output is not folded. The copies are ejected at the rear of the printer onto the copy delivery tray.

Full: The plot is folded according to the folding method of your choice.

First fold only: The plot is folded in one direction only, then exits from the folder unit. This option is useful for long plots. The Delivery option is not available if 'First fold only' is selected.

Folding methods

Specifies the folding method for your plot:

'Standard' (same as 'DIN', 'ANSI' and 'Architectural' methods - the factory default),
'Ericsson',
'AFNOR'.

This defines the position of the legend according to the paper motion direction.

Note: This option is available only when the folding option is set to 'Full'. The 'Ericsson' folding method does not permit 'Punching' or 'Reinforce' to be enabled but allows setting of a 'Binding edge'.

The AFNOR folding method does not permit 'Reinforce' to be enabled but allows settings of 'Binding edge' and 'Punching'.

<i>Folding orientation</i>	<p>If 'Full' folding is selected, you have access to the two folding orientation options. You can define:</p> <p>Automatic: The fold method is automatically selected by the printer to follow the orientation of your file.</p> <p>Portrait: Your plot is always folded in the portrait orientation. This is useful if your file contains a title block (legend) that requires portrait folding method.</p>
<i>Fold Packet Size</i>	<p>Use these field to enter the fold packet dimensions:</p> <p>Width, from 186 mm (7.3') to 230 mm (9').</p> <p>Length, from 276 mm (10.9') to 310 mm (12.3').</p> <p>This option is disabled when folding is set to 'None'. The length is not available when folding is set to 'First fold only'.</p>
<i>Cutting method</i>	<p>The media can be cut according to:</p> <p>The 'Plot size' ('Synchro').</p> <p>The 'Standard size' you have selected for plotting your drawing.</p> <p>A 'Custom length' (declared in millimeters or inches, depending on the unit selected in the 'Configuration' dialogue box).</p> <p>Note: For a long plot, (selected in the 'Basic' option) the cutting method must be set to 'Plot size' or 'Custom length'.</p>
<i>Binding edge</i>	<p>Check this box to add an additional margin to plots that must be folded, for punching purpose.</p> <p>Enter a custom width in the Edge field. The minimum binding edge value is 15 mm (0.6 inches), the maximum value is 30 mm (1.2 inches), the factory default is 20 mm (0.9 inches).</p> <p>This option is available only when the folding option is set to 'Full' or 'First fold only'.</p> <p>When the 'Folding option' is set to 'Full' and 'Folding method' set to 'Standard' or 'AFNOR', activating 'Binding edge' makes the 'Punching' option available.</p> <p>When the 'Folding option' is set to 'First fold only', activating 'Binding edge' hides and disable 'Punching'. Activating 'Binding edge' automatically disables 'Reinforce'.</p>

Punching

Check this box to add an additional margin for punching purposes. Enter a custom width in the 'Edge' field. The default value is 20.0 mm, it cannot be reduced.

This option is available only when the folding option is set to 'Full', and the binding edge set to 'On'.

Note: The punching edge is disabled when you enable the 'Reinforce option'.

Reinforce

This option adds the necessary additional edge for a reinforcing strip to be attached to the folded copy. The edge width is set at your printer front panel.

Note: Setting the 'Reinforce' edge to 'On' disables automatically the 'Binding edge' option and disables 'Punching'.

Layout options

This options group lets you control the position of the plot on the media. All positioning parameters are indicated in the unit selected in the Configuration dialogue box menu.

<i>Image alignment</i>	It allows you to position the drawing on the paper with respect to the corners as points of reference. You can use the horizontal and vertical shift options to fine tune the exact positioning.
<i>Leading edge correction</i>	<p>It allows you to add / remove a blank strip at the top of the image. The print length will increase / decrease accordingly.</p> <p>Once you have select 'add' or 'remove', enter the appropriate length in the right-hand field. The dimension is declared in the unit selected in the 'Configuration' dialogue box.</p> <p>Note: Decreasing the edges too much may generate a loss of information.</p>
<i>Trailing edge correction</i>	<p>It allows you to add / remove a blank strip at the bottom of the image. The print length will increase / decrease accordingly. The dimension is declared in the unit selected in the 'Configuration' dialogue box.</p> <p>Note: Decreasing the edges too much may generate a loss of information.</p>
<i>Horizontal shift correction</i>	If you need to modify the position of a drawing in the paper, you can shift the image by adjusting the horizontal margin. Select either the left or right side then enter the correct value in the field. The printout size will not change.
<i>Vertical shift correction</i>	You can shift the image by adjusting the Vertical margin. Select either the top or bottom side then enter the correct value in the field. The printout size will not change.

Stamping options

This option allows you to print on your drawings one of 50 predefined texts previously defined in the printer's control panel.

For example, you may wish to have the date, time or department name on your plots.

<i>Enable/disable the stamp option</i>	Check this box to enable the stamping option. Once the option is disabled, all parameters are restored to their default values.
<i>Predefined string</i>	Enter a number in the range 1-50, corresponding to a string stored in the printer's memory.
<i>Position</i>	Selects the position of the predefined text stamp: either at the top, middle or bottom of the title block of the drawing.
<i>Font size</i>	Selects the size of the text: 'Small' or 'Large', when stamping one of 50 predefined texts.
<i>color / grayscale</i>	Selects the colour of the text stamp, from light-gray to black.

Accounting options

Some Océ printers offer user account capabilities (TDS family and TCS400 printers). To provide input to the printer's accounting features, this option may send a user identification and an account number attached to the drawing file.

Note: *For more information on user accounting, please refer to your printer user's manual.*

<i>Accounting</i>	On / Off. If you check the box to enable the accounting option, the parameters are sent along with each plot file sent to the printer. When disabled, the print file is sent to the printer as a neutral one, with no user / account identification.
<i>Account ID</i>	It sends a user account number attached to the printout. Enter the account ID, in the range 0-999999999 (nine digits). Non numeric values are rejected.
<i>User ID</i>	Enter the user identification number, in the range 0-999999999 (nine digits). Non numeric values are rejected.

Plot delivery

Some Océ printers offer folding capabilities (9800, TDS600 and TDS800 printers). You can define where the plots are delivered. The options offered in this setting depend on whether the document is folded or not

Note: *The Delivery option is not available if 'First fold only' is selected.*

Note: *The list of delivery units available depends on your printer features.*

Delivery folded

Stacker / 'Belt 1', 'Belt 2' or 'Either belt'

The selections proposed in this field depend on the folding method used and on the optional features installed on your printer.

The 'Delivery folded' option is available when the folding option is set to 'Full'.

Delivery unfolded

Integrated receiving tray / Receiving rack / Copy delivery tray... (depending on your printer options)

If you select a precise bin, enter its number in the right-hand field.

Note: The 'Delivery unfolded' option is available when the folding option is set to 'None'.

Chapter 4

How to?



How to print a drawing?

Display the application preview

Preview your drawing from File / Preview to check that it is correct from the application.

▼ **To access a preview of the drawing**

- 1 From the File menu, choose Plot.
- 2 In the Plot dialogue box, choose Partial or Full preview.
AutoCAD displays information about the plotted page and shows the location of the drawing on the page.

Check the layout settings from the 'Page setup'

A layout represents a plotted page. When you create a layout, you must specify the plotter and define the layout settings used by default. Every plot defined with this layout is printed on the same plotter with the same settings by default.

You can change these settings later on by accessing the 'Page setup'.

You can name and save the 'Page setup' in order to use it with other plots and layouts. You can select a 'Page setup name' from the list to apply its settings values to the current layout.

▼ **Change and check the layout settings**

- 1 Click on File / 'Page setup' to access the layout settings applied to the drawing
- 2 Define a new 'Page setup name' in order to reuse it later, or apply a previously registered page setup.
- 3 Set the layout settings.
- 4 Check that the layout settings are correct with the (Full or Partial) preview.

Define the Océ plotter settings

If you want to apply some plotter driver specific settings (transformation, shift, leading and trailing edge, finishing, accounting...) you can access the Océ plotter custom properties through the Plotter Configuration Editor.

▼ **Access the plotter custom properties**

- 1 Open the File / Page setup or Plot window.
- 2 On the 'Plot Device tab', choose your Océ plotter in the list (.pc3 extension).
- 3 Click on the 'Properties' button.
- 4 Access the 'Device and Document settings' tab.
- 5 Click on 'Custom properties' in the menu, then on the 'Custom properties' button.

Note: *When you validate the settings modifications, a confirmation window opens where you define whether these changes are applied for the current plot only or become the defaults settings for the plotter.*

How to get the correct output?

Here you can find the most useful options to set before plotting, in order to get quickly a correct plot.

The output depends also on the printer controller settings not available from the driver. If possible, check the settings applied on the controller.

Note: *The drawing preview in AutoCAD does not take into account the plotter custom properties.*

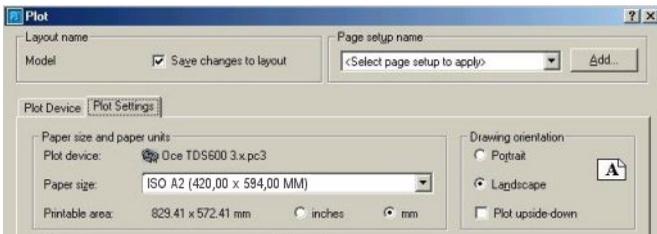
Position the drawing on the paper

If you want to get a correct plot easily, we advice you to keep the default values (automatic), as the plotter then selects the most appropriate options according to the drawing size and features.

Landscape orientation If the AutoCAD drawings are landscape oriented, keep the ‘Landscape’ orientation in the application settings, otherwise (‘Portrait’ orientation) the drawing is clipped by AutoCAD.

If you print on a roll, prefer the ‘Paper size’ which shows the shortest edge first. For example, to print an A2 drawing on an A2 roll paper, choose the ‘ISO A2 (420,00 x 594,00 MM)’ paper size (better than the ‘ISO A2 (594,00 x 420,00 MM)’ one).

Note: *The orientation is an AutoCAD setting, you set it in the ‘Page setup’ or ‘Plot’ windows and you can preview it.*



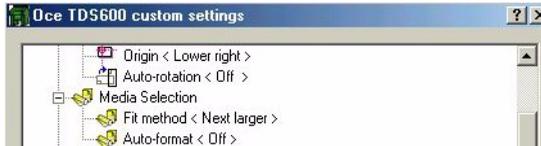
‘Media source and size’ selection If you set the Media source to ‘Automatic’, the plotter selects the most appropriate paper source according to the drawing settings.

If you know on which paper source (roll, tray) you want to print, you can force its selection in the Device and Document settings / Media / Source and size. Be sure that the roll selected is appropriate to your drawing.

Auto-format The ‘Auto-format’ setting (on Océ 9700, Océ 9800, Océ TDS and TCS printers) is available if you activate the ‘Automatic’ selection of the paper roll (‘Media source and size’). Set to ‘On’ by default, it selects the standard format on which the drawing fits without loss of information.

Note: *The ‘Auto-format’ setting is described in the ‘Media selection’ section on page 32.*

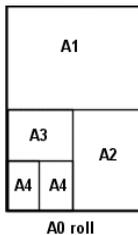
To access the ‘Auto-format’ setting, follow the procedure described in the ‘Access the Océ Custom settings’ section on page 27.



Auto-rotation If you choose the Auto-rotation ‘Productive’ your printer may rotate the drawing in order to print it out faster.

If your plot is folded, select the Auto-rotation ‘Folding’, associated to the correct folding method: the printer rotates the drawing in order to make the legend appear on the top, after the folding.

To enable auto-rotation on the Océ colour inkjet printers, activate the ‘Media saver’ setting on the driver. If the option is activated on the printer and the setting set to ‘Machine mode’ in the driver, the printer positions the drawing in order to optimize the use of paper, following this rule:



[4] The media saving positioning

Note: The 'Auto-rotation' and 'Media Saver' settings are described in the 'Océ Custom settings' section on page 27.

To access these settings, follow the procedure described in the 'Access the Océ Custom settings' section on page 27.

Drawing position on the paper If the drawing is not precisely positioned on the media, you can slightly move it on the paper by using the Alignment, Edge and Shift corrections.

Note: These settings are described in the 'Layout options' section on page 36. To access these settings, follow the procedure described in the 'Access the Océ Custom settings' section on page 27.

Cut the plot

On the Océ 9x00, Océ TDS and TCS printers, you can cut on the 'Plot size' (cut after the last line of the plot, whatever the paper size defined), on an industrial 'Standard size' or on a 'Custom length'.

On the Océ colour inkjet printers, you can cut on an standard size or activate the 'Long plot mode' if your printout format is longer than an A0 format.

Note: The cutting setting is described in the 'Finishing options' section on page 33.

Fold the plot

If you have installed a folder unit on your Océ printer, you can set the folding options (detailed on the Chapter 3, Océ Custom Settings, Finishing options and Plot delivery):

- Folding
- Folding methods
- Folding orientation
- Fold packet size
- Delivery folded

Note: The folding and finishing settings are described in the 'Finishing options' section on page 33.

Chapter 5

Troubleshooting

This chapter provides solutions and tips to deal with difficulties you may encounter using the Océ AutoCAD Printer Drivers. You can also find Self Support information in the Autodesk Knowledge Base available on the website: <http://usa.autodesk.com/>.



Solve installation and configuration problems

Fix troubles or error messages during the installation

'During the driver installation via 'Add_A_Plotter Wizard in AutoCAD, an error message 'Access denied' appears.'

Solution: In the AutoCAD installation folder, uncheck the 'Read only' setting of the following files (right click on the file and select 'Properties') and restart the installation process:

<i>AutoCAD 2000</i>	<i>AutoCAD 2000i, 2002</i>	<i>AutoCAD 2004, 2005</i>
oce6.hdi, oce6.drc	oce7.hdi, oce7.drc	oce8.hdi, oce8.drc,
drv_oce.hlp, drv_oce.cnt	drv_oce.hlp, drv_oce.cnt	oce8res.dll, drv_oce.hlp, drv_oce.cnt

These files are usually located in directories such as 'C:\Program Files\AutoCAD 2002\Drv' and 'C:\Program Files\AutoCAD 2002\Help'.

'During the installation of the driver with AutoCAD 2000 (using setup.exe) I have an error message asking me to update my application to the same DDK (Driver Development Kit) level'.

Solution: Update your AutoCAD 2000 application with the 'AutoCAD Plotting Update Patch' from the Autodesk Product Support web site (<http://support.autodesk.com>) in order to use it with the most up-to-date version of the AutoCAD Océ driver.

Manage connectivity

'The printer does not answer, I have no output'.

Solution: Check that the printer is not installed on a LPR port (LPR port is not supported). If it is, change the printer port (See chapter 2, 'AutoCAD HDI Driver Installation' on page 13).

▼ **Check the printer port**

- 1 In the Windows 'Start' menu, open the settings/ Printer window.
- 2 Select the printer you use.
- 3 Open the properties window.
- 4 On the 'Port' tab, check which port is used (LPT, LPR...).

Control the configuration

'I have printing difficulties under AutoCAD 2000'.

Solution: Check your AutoCAD version has been updated with the 'AutoCAD Plotting Update Patch' from the Autodesk Product Support web site (<http://support.autodesk.com>).

▼ **Check if your AutoCAD 2000 version has been updated**

- 1 In AutoCAD, enter the line command '`_vernum`' in the command window.
- 2 Validate. If the result is '`VERNUM = "T.1.08"`' or higher, the patch has been installed.

```
Command: _vernum  
VERNUM = "T.1.09" (read only)
```

[5] Example of version number for an updated AutoCAD 2000.

HDI driver update

'I have updated my previous HDI driver with the new version of the driver but that does not fix my problem'.

Suggestion: Remove your .pc3 file from the Plotter Manager and re-install your Océ plotter with the HDI updated driver. Follow the procedure 'Install and configure an Océ plotter' on page 18.

Improve output quality

Missing data

'When I print on an inkjet printer, data are missing in the plot'.

Solution: Check the Banding option to set it to 'On' (see 'Access the 'Banding' option' on 48) .

'When I print on a black and white printer, data are missing in the plot'.

Solution: Check in the Plotter Configuration Editor if 'Dithering' is set to 'Hardware Scatter/Cluster Dither'.

▼ **Check the 'Dithering' setting**

- 1 In AutoCAD, File/Plot window, click on the Plotter Configuration 'Properties' button to access the Plotter Configuration Editor.
- 2 In the Device and document settings tab, select 'Vector Graphics' setting.
- 3 At the bottom of the window, set the 'Dithering' property to 'Hardware Scatter/Cluster Dither'.

Unexpected data

'When I print with a black and white printer, I have unexpected data on my plot'

Workaround: Check if the banding option is disabled. If not, uncheck the option.

▼ **Access the 'Banding' option**

- 1 In AutoCAD, File/Plot window, click on the Plotter Configuration 'properties' button to access the Plotter Configuration Editor.
- 2 In the Device and document settings tab, select 'Custom properties' setting.
- 3 Click on the 'Custom Properties...' button. It opens the Custom settings window.
- 4 Click on the 'Banding management' button at the bottom of the window.
- 5 Check if the Banding option is unchecked (to set it to 'off').

Small curved characters badly printed

'When I print a drawing containing small curved characters, arcs or small circles, they are not recognisable on the printed output.'

Solution: Check the 'Fine segmentation' option.

▼ **Check the 'Fine segmentation' option**

- 1 In AutoCAD, File/Plot window, click on the Plotter Configuration 'properties' button to access the Plotter Configuration Editor.
- 2 In the Device and document settings tab, select 'Custom properties' setting.
- 3 Click on the 'Arc tuning' button.
- 4 Check 'Fine segmentation'.

Note: *Use this option only when absolutely needed as checking 'Fine segmentation' will generate bigger files and will need more time to process.*

Colour management

'On the printout, the gray line drawing quality is not satisfying'.

Solution: From the printer Control Panel / Printer Setting, select the 'CLOUD' rendering method (instead of 'CLUSTERED' - see your printer User Manual).

'Using AutoCAD 2002/2000i, the colours of my drawing are not correctly printed.'

Solution: If you have assigned a True Colour to a coloured line or to a layer of an AutoCAD drawing, set the 'Color depth' to '16777216 (24-bits) colors' (or '16777216 shades of gray').

▼ **Change the colour depth**

- 1 In AutoCAD, File/Plot window, click on the Plotter Configuration 'Properties' button to access the Plotter Configuration Editor.
- 2 In the 'Device and Document Settings' tab, select the Graphics/ Vector graphics setting.
- 3 Set the colour depth mode to '16777216 (24-bits) colors' (or '16777216 shades of gray').
- 4 Click on 'OK' to validate.

'In 24 bit colour depth drawings, white areas are not printed in pure white'.

Solution: Change the colour depth (see 'Change the colour depth' on 49).

Attention: *Process time increases as you increase colour depth. To solve this, on 600 dpi plotters, you can decrease resolution to 300 dpi when you increase colour depth.*

Plot settings definition

'The leading/trailing edge I defined is not correct on the output'.

Solution: In Custom settings/ Leading Edge Correction, make sure that the leading and trailing edges values NOT used are set to '0'. If they are not, set them to '0'.

▼ **Check the leading/trailing edge values**

- 1 In AutoCAD, File/Plot window, click on the Plotter Configuration 'Properties' button to access the Plotter Configuration Editor.
- 2 In the 'Device and Document Settings' tab, select 'Custom properties' setting.
- 3 Click on the 'Custom properties...' button. It opens the Custom settings window.
- 4 On the 'Layout' tree, select Leading / Trailing edge correction.
- 5 Check the Add/ Remove values.

'Using AutoCAD 2000i and higher, I do not have the option to select between 'Merge' or 'Overlay' settings'.

Solution: In the Plotter Configuration Editor/ Device and Document Setting tab/ Vector graphics setting, change the 'Dithering' setting to 'Hardware Scatter/Cluster Dither' (see 'Check the 'Dithering' setting' on 48).

The Merge feature is not compatible with any Software Dithering method, nor it is compatible with the 2 Color Depth vector Graphics mode (2 shades of grey).

'When I print and fold a drawing, the legend does not appear on the external side of the folding'.

Solution: In AutoCAD, apply a 180° rotation. The folding shows the legend on the right place (this only concerns the printers supporting folding).

Printer pen patterns

'I have upgraded my AutoCAD R14 version to an AutoCAD 2000 family application, can I print using Océ Pen Patterns?'

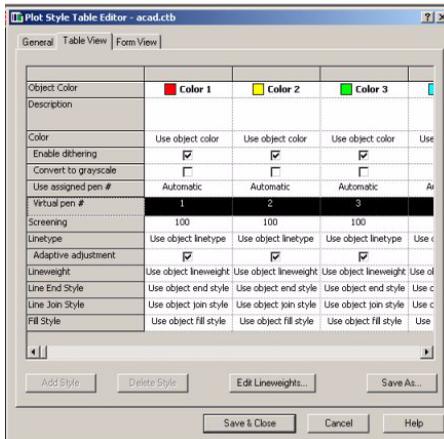
Answer: Yes, set the Océ Pen Patterns using the procedure below.



Set the Océ pen patterns to assign them to each AutoCAD color

- 1 In File/ Plot Style Manager, right click on the .ctb (or .stb) file and choose 'Open' from the short-cut menu (if you do not have any .ctb file, you can create one using the 'Add Color Dependent Plot Style Table' Wizard).
- 2 Select 'Table View' tab.
- 3 On the 'Virtual Pens #' row, associate a virtual pens number to each colour (e.g. the 'Color 1' is linked to the Virtual Pen number 1, the 'Color 2' is linked to the Virtual Pen number 2...):

Note: Do not leave any 'Virtual pen #' to 'Automatic'.



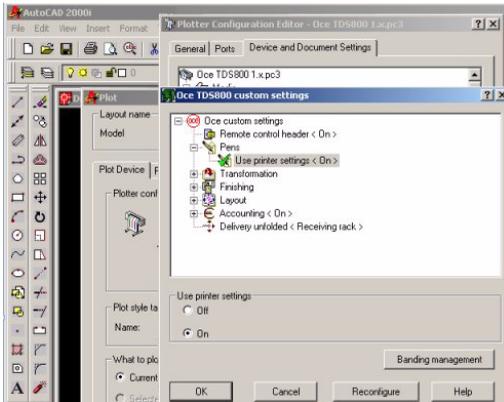
- 4 In the Printer Controller select Configuration / Pen menu and associate the 'Pen Numbers' you defined ('Virtual Pen Numbers') to the 'Pen Pattern Numbers' you want to use (see your printer User Manual).



Use the Océ Pen patterns to plot

- 1 In AutoCAD, File/Plot window, click on the Plotter Configuration 'Properties' button to access the Plotter Configuration Editor.
- 2 In the 'Device and Document Settings' tab, select the Graphics/ Vector graphics setting.
- 3 Set the color depth mode to '255 Virtual Pens'.
- 4 Select 'Custom properties' setting.
- 5 Click on the 'Custom properties...' button. It opens the Custom settings window.

- 6 In the 'Pens' tree, select 'Use printer settings' setting and set it to 'On'.



- 7 Click 'OK' and 'OK' to close the Plotter Configuration Editor.
- 8 In the 'File / Plot' window, select the created .ctb in the 'Plot style table (pen assignments)'.
- 9 Click 'OK' to plot the file.

Appendix A

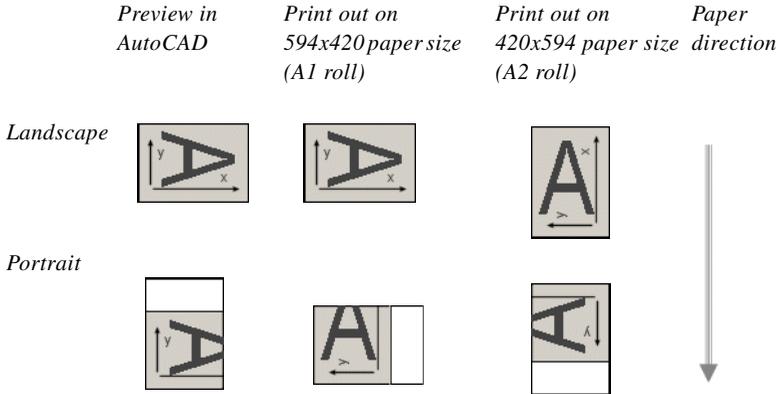
Examples of positioning

Examples of an A2 format AutoCAD drawing printed on an Océ TDS printer. Views of the plot according to the settings applied.



Application settings

Note: *The driver custom properties are set to their default values.*



Plotter settings

Note: The orientation set in the application is 'Landscape' and the 'Auto-format' is activated.

	Preview in AutoCAD	Print out on 594x420 paper size (A1 roll)	Print out on 420x594 paper size (A2 roll)	Paper direction
Auto-rotation		Productive 	Folding 	
Leading & trailing edges				
Shift		Horizontal shift right 	Vertical shift down 	
Cutting method				
		1. Cut on custom length 2. Cut on plot size		
Mirror				

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