Spt32 Version 5





By GUNNAR Weissenberger AG

Contents

General

System requirements	1
Supplied software	
SPT32 Version 5	
Installation	
Reaisterina	
Procedure	

The SPT32 Workspace

View	5
File menu	
New	
Open	
Save	7
Save as	7
Print	7
Note	
Exit	
Edit menu	
Undo	
Repeat	
Cut	
Сору	
Paste	
Delete	
Delete all	
Select all	
Lock file	
Unlock file	
Transform	
Rotate	
Scaling	
Horizontal mirror	
Vertical mirror	
Convert to OpenPoly Data	
Settings menu	
Software settings - Basis	
Software settings - Cutter Settings	
Software settings - Administrative	
Software settings - RAPIDO machine	
Software settings - F1 machine	

1

5

	Software settings - 601 machine	. 18
	Software settings - 1001 machine	. 19
	Software settings - 3001 machine	. 19
	Hardware settings - Experts	.21
	Hardware settings - Vgroove width adjustment 1	. 22
	Hardware settings - Vgroove width adjustment 2	. 22
	Machine settings - Mat	23
	Machine settings - Speed	23
	Machine settings - Degrees	24
	Machine settings - Back overcuts	24
	Machine settings - V-groove overcuts	25
	Machine settings - Front overcuts	25
	Machine settings - RB Overcuts	26
	Safety settings	26
	Define mat board profiles	28
Service	es menu	. 28
	Changing the blade	. 28
	New initialisation	. 28
	Parking position	. 28
	Machine check	. 29
Optior	ns menu	.30
	Grid	. 30
	Autoloda mode	. 30
	Polygon mode	.31
	Intelli läyer	.31
	Pool mode	21
	Align	21
		. ວ ເ ເລດ
перп	Help index	. 32
	Help - Key shortquts	32
	Direct help	32
	Tins and tricks	32
	Assistants	33
	Configuration assistant	33
	My first mat	33
	Registration information	34
	About SPT32	35
	Counter	.35
	Counter by figures with 90° outside cut	.35
	Stopwatch	. 36
Toolbo	yr	. 36
	Toolbar menu	. 36
	Measurement input method	. 37
	Paste Clipboard	. 37
	Undo / Redo	. 37
	Transform menu	. 37
	Rotate figures	. 37
	Scaling figures	. 38
	Mirroring figures	. 39
	Catch mode	. 39
	Delete	40
	Doloro	10

	Sizes	
	Align	50
	Note	50
	Assistant	50
	OC button (Outside cut)	
	VG button (V-aroove cut)	
	Cutting V-groove figures	
	XM button	
	Cutting X- mats	
	RB button (Reversed Bevel)	
	SC button (Straight Cut only 601/3001)	
	Rotation button	
Co	ontrol bar	
00		
Creating	and editing layouts	57
Creating Me	and editing layouts	57
Creating Me	and editing layouts easurement Input Logic The six standard measurements	57 57 57
Creating Me	and editing layouts easurement Input Logic The six standard measurements Additional measurements	57
Creating Me	and editing layouts easurement Input Logic The six standard measurements Additional measurements Measurement input in fractions	57
Creating Me	and editing layouts easurement Input Logic The six standard measurements Additional measurements Measurement input in fractions Measurement input methods	57
Creating Me	and editing layouts easurement Input Logic The six standard measurements Additional measurements Measurement input in fractions Measurement input methods Standard measurement input	57 57 57 58 58 58 59 59
Creating Me	and editing layouts easurement Input Logic The six standard measurements Additional measurements Measurement input in fractions Measurement input methods Standard measurement input 4 margins measurement input	57
Creating Me	and editing layouts easurement Input Logic The six standard measurements Additional measurements Measurement input in fractions Measurement input methods Standard measurement input 4 margins measurement input In - outside measurement input	57 57 57 58 58 58 59 59 59 59 59
Creating Me	and editing layouts easurement Input Logic The six standard measurements Additional measurements Measurement input in fractions Measurement input methods Standard measurement input 4 margins measurement input In - outside measurement input	57 57 57 58 58 58 59 59 59 59 59 59 60 60

Cut40Cutting options40Check layout41Outside cut check 60143Automatic cutting order46Manual cutting order46Outside cut view / Overview46Dimension arrows47

In - outside measurement input	60
Measurement Input for Figures	60
A 010 (Rectangle)	60
C 050 (Keyhole with V-groove)	61
Minimum Input Entry	61
Minimum radius	61
Minimum angle	61
SPT32 Shortcut keys	62
Construction functions	64
Select	64
Move	64
Moving with safety distance	64
Drawing mode	64
Intelli Layer	65
Pool mode	
Aligning	69
Centring OM	
Equal space	71
Borders	71
Standard alignment	
-	

Font mode	73
Importing external data via clipboard	74
General	74
Create figures using various drawing functions and import	74
Importing Clipart	76
Autoload mode	80
Working with Autoload in SPT32	80
Configuring Autoload mode	82
File structure	82
Polygon mode	83
Creating figures in Polygon mode	83
Polygon display	85
Functions in Polygon mode	85
User intervention	86

Documentation

86

User manual	86
Internet	86
Help	86
News	87
Addresses	87

Glossary of Terms

Index

91

89

General

System requirements

- Microsoft Windows 95 / 98, ME, NT, 2000, XP
- Minimum Pentium III 400MHz (or similar CPU)
- Minimum 64 MB RAM (Win NT, 2000 or XP min 128 MB)
- CD-Rom drive min. 8 x speed
- Screen resolution 1024 x 768 Pixel, 16Bit or higher colour depth
- Windows Internet Explorer

Supplied software

SPT32 Version 5

SPT32 is powerful mat board cutting software. Together with a GUNNAR CMC you are able to create and cut out layouts very simply and easily.

Installation

Insert the program CD in the CD drive and follow the instructions on the screen. In case the program does not start automatically, proceed as follows:

Lick on the Start button and select Run

Enter D:\autorun (CD-ROM drive letter:\autorun)

Press Enter to confirm

Select Software followed by Spt32 in the main menu

Now follow the instructions given by the installation program

Registering

Procedure

Creating a registry key

When either running the machine for the first time, or when swapping the control unit or when the registered time runs out on a rented machine, as soon as the software starts and the initialising procedure is run, the following window appears:

please	register	
Registration	not yet sta	arted
Register now	No	<u>H</u> elp

If you click the **No** button, the process will be halted and the software will not start.

If you click **Yes**, the license window will open. Please read through the license agreement carefully.

Spt32 registry		
Datentransfer: Hiermit erklären Sie sich einverstanden, dass zur Registrierung Ihrer Maschine die folgenden Informationen an Ihren GUNNAR Partner sowie an Weissenberger AG übermittelt werden:		
Alle Informationen die im Dialog "Hilfe - über SPT32" enthalten sind. Alle Informationen die unter "Hilfe - Registrierungsinformationen" ersichtlich sind. Weissenberger AG sichert Ihnen zu, dass diese Daten streng vertraulich behandelt und r		
Transmission de données Vous confirmez ici accepter que, afin de permettre l'enregistrement de votre machine, les données suivantes soient transmises à votre partenaire GUNNAR et à Weissenberger SA :		
Toutes les informations contenues dans le dialogue " aide SPT32 ". Toutes les informations contenues dans le dossier " aide - Information de l'enregistrement 🗨		
۲		
save registration as file close		

If you do not agree to the license conditions, the window and the software will close and is not possible to work with SPT32. In this case, contact your GUNNAR dealer.

When the license conditions are accepted, the **Save Registration** button will be activated.

Click on the button to open the **Save as** window. Select the folder for saving the file, but do not under any circumstances change the allocated name of the file.

Save QuestK	ey information			? ×
Save jn: 🔁	Spt32	- 🗈	2	•••
AutoLoad Backup Data Pictures Pool Scripts	🗀 ស្រ			
File <u>n</u> ame:	QuestKey.gre			<u>S</u> ave
Save as type:	GUNNAR License files		•	Cancel

Once the registering has been saved, the machine status will be set to **Registering begun**. This means, that for the time being, you may freely work with the SPT32 without limitations. With each new start, you will be informed that the registering has begun. After 15 days, the software will not start, unless the registering has been completed.

Send the registry key

Spt32
Questkey successfully created.
C:\Spt32\QuestKey.gre Please send this file to your loacal dealer
[OK]

Once the registry key (Questkey.gre) has been created, send it to your authorised GUNNAR dealer. You will then receive a release key for a final registration, based on the details received, or, in the case of a rental, the number of cuts or days.

You may send the registration key to your dealer per email, in which case you will receive the release key also by email.

In case you do not have the possibility to send emails, you may copy the details onto a disk or CD, and then send them by post to your GUNNAR dealer. You will receive the release key from your dealer in the same way.

Entering the release key

The release key is a file. Save this file on the computer hard drive of the machine where SPT32 is installed, and which is connected to the machine. Start the SPT32 software. In the registration window, click the Yes button. The registration window will appear each time the software starts, for as long as the registration has not been completed.

🧲 register	ing SPT32		×	J
	please	register		
Versee	15 days le Register now	ft to regis	ter <u>H</u> elp	

The license window will be opened again. Only the buttons have changed. Click first on **I do agree** and then press the **open license file** button.

Spt32 registry
GUNNAR et à Weissenberger SA :
Toutes les informations contenues dans le dialogue " aide SPT32 ". Toutes les informations contenues dans le dossier " aide - Information de l'enregistrement Weissenberger SA garantit que ces données seront traitées confidentiellement et ne serc
Data transfer You hereby agree, that for the purpose of registering your machine, the following data may be submitted to your GUNNAR partner as well as to Weissenberger AG: All data contained within the file "help - about SPT32". All data visible within "help - registration data". Weissenberger AG confirms that the data will be kept strictly confidential and not passed
C I do agree C I do NOT agree
open license file close

The window to select the file will open. Select the path where the release key has been saved and confirm by pressing **OK**.

Load License in	formations				? X
Look jn: 🔂 Sp	x132	- 🗈	<u></u>	<u>e</u>	**
AutoLoad Backup Data Pictures Pool Scripts	Ètpl Iccense.gre I QuestKey.gre				
File name:	icense.gre			<u>O</u> per	1
Files of type:	iUNNAR License files		•	Cance	<u>ال</u>

The release key will be read. As soon as the key has been read successfully, a window will open either showing the guarantee conditions, in the case of a purchased machine, or the number of purchased cuts or days, in the case of a rented machine.

Spt32
SPT32 registration successfully.
Guarantee informations: Cuts: 100000; Days 365
(OK)

Status

The registration information can be checked in the Help menu.

The SPT32 Workspace

View



File menu

	New	Ctrl+N
G	Open	Ctrl+O
	Save	Ctrl+S
H	Save a	as
2	Print	
	Note	Ctrl+E
8	Exit	

New

Shortcut [Ctrl] [N]

This creates an empty new file (layout).

If you have altered the current file, you will be asked if you wish to save the changes. Following that, an empty file with the default name "noname.s32" will be opened.

Open

Shortcut [Ctrl] [O]

Open			? ×
Look jn: 🔁 Data		🖻 🗈 🖄 📑 📰	<u>R</u>
Preview Bars321.s32 Bars322.s32 Bars323.s32 sample corner 1001.s32 sample corner 3001.s32	sample1.s32 sample2.s32 sample3.s32 sample4.s32 sample5.s32 sample6.s32	Sample7.532 SampleCorner1001.s3 SampleCorner3001.s3 SampleFont.s32 TestCut.s32 TestCutCirc.S32 TestCutCirc.S32	
File name: sample7.s32		<u>O</u> pen	
Files of type: Spt32 f. Win	dows 95 (*.s32)	Cancel	

Choose a file or enter the file name if known, and confirm by clicking [Open], in order to load this file. If the file was saved once before, a preview of the file will appear on the right hand side.

Save

Shortcut [Ctrl] [S]

Saves the current file (layout). If the data was not previously saved, you will be prompted to enter a new file name (see Save as).

Save as

Shortcut [Ctrl] [Shift] [S]

Save As			? ×
Save jn: 🔁 Data		• 🖻 🖄 😁 🖽	<u>A</u>
Preview	sample1.s32	sample7.s32	
Bars321.s32	sample2.s32	SampleCorner1001.s3	
Bars322.s32	sample3.s32	SampleCorner3001.s3	
Bars323.s32	sample4.s32	SampleFont.s32	
sample corner 1001.s32	sample5.s32	TestCut.s32	
sample corner 3001.s32	sample6.s32	TestCutCirc.S32	(Ohne)
			(0.0.0)
•		<u> </u>	
File name: testcut		Save	
Save as type: Spt32 f. Win	dows 95 (*.s32)	Cancel	

Enter a file name and confirm it by clicking [Save].

A file name may consist of up to 255 characters (including spaces). The following characters are not permitted: $\ \ /:*?"<>|$

Print

Spt32 print dialog	×
installed printers	properties
Init options Normalview Overview	print autoload data print note print, barcode print, openpoly details
 ✓ 	0k 🗙 Çancel 🥐 Help

Select the required printer from the list of **installed printers** and set the printer properties if necessary.

Use the **Printer option** to select the view type. Select either the normal view or the over view.

In addition you may print the Autoload data, any Notes created, the bar code or the open Poly data.

Note

Shortcut [Ctrl] [E]

Templates Sizes Arrange Note Assistant					
When required you can save notes with regard to the processing or other indications for the respective layout with the file here.					
✓ ②					

This feature enables you to save additional information for each saved file (*.s32), e.g. customer data or specific editing instructions. If you have added a note to a file, the

colour of the notepad icon in the status bar 🖉 will change accordingly.

Exit

Shortcut [Alt] [F4]

This command ends the current SPT32 session. If the current data has not yet been saved, you will be prompted to do so.

Edit menu

Ь	Undo	Alt+BkSp	
6	Redo	Shift+Alt+BkSp	
Ж	Cut	Ctrl+X	
Đ.	Сору	Ctrl+C	
	Paste	Ctrl+V	
$\boldsymbol{\times}$	Delete	Del	
×	Delete all	Ctrl+Del	
	Select all	Ctrl+A	
8	lock file		
3	unlock file	e	
	Transform	n	F
	convert t	o OpenPoly data	

Undo

Shortcut [Alt] [Back] or

9

This command cancels the effect of your last action. This means that, if, for example, you change the position of a figure and then select Edit – Undo, the figure will revert to its previous position.

Repeat



This command enables you to redo previously undone actions (repeat). This means that, if, for example, you change the position of a figure and then select Edit – Undo, the figure will revert to its previous position. Now select Edit – Repeat, the Undo action will be cancelled and the figure will revert once more to the changed position.

Cut

Shortcut [Ctrl] [X]

All selected figures will be cut from the work area and copied to the Clipboard. They may be pasted from there either back into the same position or into other files.

See also: Paste

Сору

Shortcut [Ctrl] [C]

All selected figures will be copied to the Clipboard. Copied figured may be pasted from there either back into the same position or copied into other files.

See also: Paste

Paste

Figures, which have been put onto the Clipboard either by copying or cutting, may be returned to their original position using this command.

The filed figures remain on the Clipboard, so that the command may be repeated as often as required.

See also: Copy, Cut

Delete



Deletes the selected figures from the work area.

Delete all

Shortcut [Ctrl] [Delete]

Deletes all figures from the work area.

Select all

Shortcut [Ctrl] [A]

Highlights all figures in the work area.

Lock file

This function locks the created layout, i.e. no changes are possible, such as moving or enlarging the figures.

The mat board is displayed in red to indicate that this function is activated.

Unlock file

This function removes the file lock.

Transform



As soon as the mouse is moved over the **Transform** field, a pop-up opens and shows 4 different functions.

Rotate

Selected figures will be rotated around the middle point of the figure, by the degrees defined.

See also: Rotating figures

Scaling

Selected figures will be scaled according to the value defined.

See also: Scaling Figures

Horizontal mirror

The selected figures will be mirrored horizontally around the central axis of the carton measurements entered.

See also: Mirror Figures

Vertical mirror

The selected figures will be mirrored vertically around the central axis of the carton measurements entered.

See also: Mirror Figures

Convert to OpenPoly Data

With this command, \$32 data (default file format) can be converted to OpenPoly Data. The respective figure can therefore be further edited in the polygon mode.

See also: Polygon Mode

Settings menu

Software settings Hardware settings Cutter settings Security settings Define mat profiles

Software settings - Basis

G Software settings					x
Base Cutter settings	Color settings ad	ministrative 🛛 Machin	•		
Units					1
Base: cm	• Ma	at thickness:	mm	·	
Moving position					
Park:	x: 5.00	cm Y: 5.	10 cm	🔽 autopark	
Blade Change:	x: 70.00	cm Y: 30	.00 cm		
Delay head down: 200		150 文 ms			
	🗸 Ok	X ⊆ancel	? Help		

Units

Basis; this unit is used for all measurements, except the mat thickness.

Mat thickness; this unit is used exclusively for the mat thickness.

Once a unit has been changed SPT32 must be restarted.

Positions

This is where you define the position for parking and changing the blades (in basis units)

The **Autopark** checkbox determines whether the machine should return to the predefined park position after each cut, or whether the machine should remain stationery after the last cut.

Delays

Delays are necessary, so that the pneumatic functions have sufficient.

The **Head Descend** delay is the time between the head descending and the cutting motion.

The **Head Ascend** delay is the time between the head ascending and the positioning motion.

Software settings - Cutter Settings

opening size correction:	l	-0.04	- cm	straight OS:	0.00	• cm
/G width correction:		0.00	- cm	🗌 auto adjus	t overcuts	
start correction X:	1.10	cm	safety o	listance X:	2.00	÷ cm
start correction Y:	.00 •	cm	safety o	listance Y:	2.00	÷ cm
start correction Z:	•	N 0	Position	ing speed:	100 🚖	%
C gafety rotation alwa	ys (•	auto safety	rotation	2.00	▲ mm	
C gafety rotation alwa	ys (•	auto safety	rotation	2.00	▲ mm	

Size of opening

This determines the size of the figure section.

See also: Configuration Assistant

Size of V-groove openings

If the size of a V-groove opening is altered, then the width of the V-groove will also be changed. Before you alter the size of the V-groove opening, make sure that the normal size of opening has been set correctly. Should you require a different width of V-groove to that which is pre-defined, change this in the V-groove definitions window.

See also: Configuration Assistant

Automatically adjust overcuts

When this field is activated, the adjustment of the opening size automatically changes the overcuts in the same proportion. It is recommended to always leave this field checked.

Opening size 90°

Settings in this field change the opening sizes of figures that are to be cut at 90°, as well as the sizes of all outside cuts (only 601/3001).

Start correction X, Y

Here you can determine the X and Y borders.

See also: Configuration Assistant

Start correction Z

This value is set in degrees.

After a new initialisation the blade head must be parallel to the Z head, so that the blade can be used. On the 601 / 1001 and 3001 machines this value may not be altered.

See also: Configuration Assistant

Warning: This setting may only be made after a new initialisation.

Security distance X, Y

This allows you to define the security distance for the **Move with security distance** function.

See: Move with security distance

Positioning speed

This allows you to set the current positioning speed (the speed of no-load runs between two figures). This value may always be left at 100%.

Safety rotation

In safety rotation mode the head is lifted from the mat board during each positioning run, then rotated and lowered again. On the one hand, this ensures that with greater thicknesses of board the blade is removed before the head is rotated. On the other hand, this function may be used when cutting acutely pointed figures (e.g. stars), by not rotating the board and therefore preventing damage occurring in the corners.

If **auto** is selected, the safety rotation will be activated starting with the mat board thickness entered in the edit window.

If **Always** is selected, the security rotation remains active.

If the security rotation is to remain turned off, set a high value in the auto section (5mm or higher).

Software settings - Administrative

G Software settings	×
Base Cutter settings Color settings administrative Machine	
Directories	
Autoload: C:\Spt32\AutoLoad	
Autoload separator:	
SPT32 data directory: C:\Spt32\Data	
view settings	
C Overview C Normalview	
Vok 🗶 Çancel 🤶 Help	

Directories

Autoload allows you to define the directory for your autoload files. By clicking the button on the right hand side, you can search for the required path.

Autoload separator defines the character that will separate the data.

This directory will be suggested as a default when saving or opening SPT32 files. The path may also be on a network.

See also: Autoload

Auto view

The **Auto view** setting allows the work area view to be set in such a way, that either the overview or the normal view is set.

Software settings - RAPIDO machine

G Software settings	×
Base Cutter settings Color settings administrative Machine	
additional head delays head down (throttle): 400 💭 ms	
optional settings CheckMode	
Rapido	
🗸 Ok 🎽 🧣 Help	

Additional head delays

Delays are necessary, in order that the pneumatic functions also have sufficient time.

Before you alter these settings, you should ensure that the throttle for a soft entry motion has been optimally set. After this, you may adjust the delay time for the head descent for a soft entry. Usually the default value can be used.

Optional settings

Activate the **Check mode** to ensure that the Z head makes a correction run around the entered measurement before each cut. In this way, the mechanical play may be almost eliminated and an improvement of the parallelism of the V-groove may be achieved.

Software settings - F1 machine

G Software settings	<u>></u>
Base Cutter settings Color settings adminis	strative Machine
outside cut offset settings X: \$5.00 Y: \$5.00 cm I work with offset OC enlargement: 3.00 additional head delays head down (throttle): \$50 \$\cute\$ms ms	Options DBD Position: 77.00 cm F1 options (vertically mounted) vertical use parkposisition when cutout removement
F1	
✓ 0k	X Gancel ? Help

Outside cut offset settings

Whenever you create a figure with outside cuts, it will be automatically set to the value of the defined minimum border in the X and Y direction.

If you mark the work with offset field, the figure will be set to these values.

If a figure with OC lies within the value determined in the **OC Extension** field (distance from the system border), the OC cut will be made to the edge (0).

Options

The **DBD Position** field determines the position for a switchover to an automatic blade depth setting in the Y-axis.

Click on this symbol in order to set up the position for the switchover of the automatic blade depth setting.

See also: Configuration Assistant

F1 Options (vertically mounted)

Activating or deactivating the **vertical** checkbox, will cause the special functions for vertical mounting to be turned either on or off.

Activating the **Park position when a cutout is removed** causes the park position to be reached after each figure of a multi-opening, in order that the cutout may be removed.

Additional head delays

Delays are necessary, in order that the pneumatic functions also have sufficient time.

Before you alter these settings, you should ensure that the throttle for a soft entry motion has been optimally set. After this, you may adjust the delay time for the head descent for a soft entry. Usually the default value can be used.

G Software settings × Base Cutter settings Color settings administrative Machine outside cut offset settings Options 103.50 DBD Position: cm 8 X: 2.00 Y: 2.00 cm work with offset OC enlargement: 0.00 additional head delays corrections -180.00 head down (throttle): 200 \$ ms start correction Z (straight): dea 601 🗸 Ok X ⊆ancel ? Help

Software settings - 601 machine

Outside cut offset settings

Whenever you create a figure with outside cuts, it will be automatically set to the value of the defined minimum border in the X and Y direction.

If you select the work with offset field, the figure will be set to these values.

If a figure with OC lies within the value determined in the **OC Enlargment** field (distance from the system border), the OC cut will be made to the edge (0).

601 Options

The DBD Position field determines the position for a switchover to an automatic blade depth setting in the Y-axis.

in order to set up the position for the switchover of the Click on this symbol automatic blade depth setting.

Additional head delays

Delays are necessary, in order that the pneumatic functions also have sufficient time.

Before you alter these settings, you should ensure that the throttle for a soft entry motion has been optimally set. After this, you may adjust the delay time for the head descent for a soft entry. Usually the default value can be used.

Corrections

The start correction 7 for the 90° head is defined here.

Software settings - 1001 machine

G Software settings	×
Base Cutter settings Color settings administrative Machine	
additional head delays 'after blade down' delay: 'after blade up' delay: 200	
1001/2001	
✓ Ok Sancel ? Help	

Additional head delays

Delays are necessary, in order that the pneumatic functions also have sufficient time.

The "After blade down" delay is the time between the blade descent and the cutting motion.

The **"After blade up"** delay is the time between the blade ascent and the head ascent motions.

Software settings - 3001 machine

Gg Software settings	×
Base Cutter settings Color settings administ	rative Machine
outside cut offset settings X: 0.00 Y: 0.00 cm If work with offset OC enlargement: 1.00 3001	options Image: options <t< td=""></t<>
✓ Ok	X ⊆ancel ? Help

Outside cut settings

Whenever you create a figure with outside cuts, it will be automatically set to the value of the defined minimum border in the X and Y direction.

If you select the work with offset field, the figure will be set to these values.

If a figure with OC lies within the value determined in the **OC Enlargment** field (distance from the system border), the OC cut will be made to the edge (0).

Corrections

The start correction Z for the 90° head is defined here.

Automatic V-groove settings

When checked, the **automatic blade depth setting** is activated. You can therefore cut a figure with additional V-groove, without having to change the blade. The blade depth is altered pneumatically, as soon as the software recognizes that a V-groove will follow.

You may define the difference between the Blade depth setting 1 and Blade depth setting 2.

See also: DBD Settings

If you additionally install a Matloader on your 3001M, you must activate the **Matloader** field when you work with it, in order to provide the correct vacuum performance.

Selecting the **COE additional confirmation** field ensures, that in COE mode after the first COE prompt to change, only the vacuum will be swapped to the right hand side, and the Z head will remain on the left hand side.

🚱 COE mode	<u>_0×</u>
COE mode changin	g now
	? Help

Therefore, if necessary, the mat board can be laid flat. The cut will be made after the 2^{nd} COE change prompt.

G COE additional confirmation	
please confirm COE cut	
OK	

Hardware settings - Experts

Cutting speed

Lardware settings	ent 1 vgroove width adj	ustment 2	×
rampe X & Y axis: 20 🔹 frequency max: 1000 📦 in (mm /s)	Curve settings (radius in start min. speed	cm) reach max. speed	
Default values	1.00 T	•	
	∕ OK X Cancel	? Help	

Positioning speed

Ge Hardware settings	×
expert vgroove width adjustment 1 vgroove width adjustment 2	[
rampe X & Y axis: 20 € U axis 20 €	
frequency max: 1000	
Default values cutting speed positioning speed	
CK X Gancel ? Help	

Settings in these windows should only be altered by a GUNNAR technician.

Hardware settings - Vgroove width adjustment 1



The curve is moved up or down relative to the **quadrant**, by entering a plus or minus sign or by clicking the arrow buttons. This way the curve becomes either shallower or steeper, thus improving the parallelism of the V-groove.



Hardware settings - Vgroove width adjustment 2

The curve is moved up or down relative to the **semicircle**, by entering a plus or minus sign or by clicking the arrow buttons. This way the curve becomes either shallower or steeper, thus improving the parallelism of the V-groove.

Warning!!! Changing these values affects not only the V-grooves but also all calculations of curves.

Machine settings - Mat

🔩 define mat, speed & corrections
VG overcuts front overcuts SC overcuts RB overcuts
Mat Speed Degrees back Overcuts
thickness 1.300 mm
define mat profiles
✓ Ok X ⊆ancel ? Help

You may set the mat thickness here.

If you make any changes here, they will remain valid until the next time you select a mat profile.

These details are required, in order to calculate the overcuts for different mat thicknesses automatically.

See also: Defining mat profiles, Configuration Assistant

Machine settings - Speed

🧲 define mat, s	speed & corrections	×
WG overcuts Mat	front overcuts SC overcuts RB ove Speed Degrees back Overc cutting speed 100	rcuts uts %
 ✓ 	Ok X Gancel ? Help	

You may set the current speed here. If a very thick or hard mat has to be cut, the speed must be reduced. Standard thickness (0,6 - 2,0mm) may be cut at 100%.

If you make any changes here, they will remain valid until the next time you select a mat profile.

This setting has no influence over the speed of blank runs.

Machine settings - Degrees

🧲 define mat, sp	eed & corre	ctions			×
VG overcuts	front overcu	its	SC overcuts	RB ov	ercuts
Mat	Speed	Deg	grees	back Over	cuts
straight correcti	on:	3	•	٠	
round correction	1:	0	÷	۰	
	ж 🚦		el	7 Help	
					1

The degree correction allows you to define the rotation of the cutting head. This is necessary in order to avoid insertion curves with straight cuts or circular transitions.

See also: Configuration Assistant

🧲 define mat, sp	eed & correcti	ons	×			
VG overcuts Mat	front overcuts Speed	SC overc	uts RB overcuts back Overcuts			
-0.020 +						
		unit cm				
~	k 🗶	Cancel	? Help			

Machine settings - Back overcuts

See also: Configuration Assistant

Machine settings - V-groove overcuts



See also: Configuration Assistant

Machine settings - Front overcuts



See also: Configuration Assistant

Machine settings - RB Overcuts



See also: Configuration Assistant

Safety settings

lock/unlock Spt32 settings			
Password			
🗸 Ok	X Cancel	? Help	

When you call up this function for the first time, click on the button with the 3 dots. For each subsequent start you must first enter your password, and then click on this button again. (In case you have forgotten your password, please contact your GUNNAR dealer). The following window will appear:

lock/unlock	Spt32 set	ttings	×	
Password				
-	Ok	X ⊆ancel	? Help	
change	password a	and settings		
new pa	ssword			
verify				
	:	set new password		
Hardware settings Software settings define mat, speed & corrections				

Now you may enter a new password, hardware settings, software settings, carton settings or speed as well as block or release correction windows.

This is done by clicking the checkbox in front of the appropriate setting.

This way you can prevent unauthorized or unqualified people from changing your settings and defined profiles. Accidental changes or the removal of settings may be prevented this way too.

Once you have entered the password or blocked a function, please confirm it by pressing OK.

If a function has been blocked, then the following window will appear when the function is selected:

G Spt32 security information	×
this dialog is locked by security !	
Password	
🗸 Ok 🏾 🕇 Help	

After entering the password the desired window will be displayed as usual.

Define mat board profiles

	Mat	Speed	straight c.	round c.	label	
C1	0.600	100	3	0	Label	
C2	1.000	100	3	0	Label	
C3	1.300	100	3	0	Label	
C4	1.500	100	3	0	Label	
C5	1.700	90	3	0	Label	
C6	2.000	80	3	0	Label	
C7	2.800	70	3	0	Label	
C8	3.000	60	3	0	Label	
C9	0.700	100	3	0	VGroove	

See also: Configuration Assistant

Services menu

₽	Blade change	Ctrl+F5
01	New initialization	Ctrl+I
1	Park position	Ctrl+P
V	Check machine	Ctrl+T

Changing the blade

Shortcut [Ctrl] [F5]

This command causes the blade head to move to the change blade position, which can be defined in the **Software Settings - Basis**. The change blade position allows access to the blade holder.

Refer to the User Manual for instructions on how to change a blade.

New initialisation

Shortcut [Ctrl] [I]

This menu option starts a re-initialisation of the machine process (calibration).

Parking position

Shortcut [Ctrl] [P]

This menu option allows the manual movement to the parking position.

See also: Autopark

Machine check

Shortcut [Ctrl] [T]

Warning!!! To avoid damage to the table, please put a second mat board onto the tabletop before conducting a machine check.

Primarily the machine check is used to check the pneumatic functions. In addition, the machine may be moved manually and therefore the sensors may be checked.



Clamps

Switches the clamping of the mat board on and off.

45° Head

Moves the blade head up and down.

Blade

Moves the blade up and down (only on 1001/2001)

Throttle

This switches the throttle on and off. A click on the Z head may be heard, which indicates, whether the solenoid switches or not.

The arm or blade head may only be moved, by clicking on the arrow symbol. The 3 LED's in the sensor line show the status of the end positions. Red indicates the machine has reached an end position. Green indicates that everything is OK, and that the axis may be moved in whatever direction. The sequence is alphabetic. X = horizontal direction, Y = vertical direction, Z = rotating axis.

By checking the **move by increments** field, the respective

movements will be made only one increment per click.

The machine status LED shows whether there is communication between the PC and the machine.

Options menu

=	Grid	
	Autoload mo	ode F6
	Polygon mo	de F7
	Intelli layer	F8
	Pool mode	F11
	Arrange	F12
A BC	Font mode	Ctrl+F

Grid

Shortcut [Ctrl] [G]

🗲 grid properties			×
grid width × grid width y	2	cm cm	Y Z
grid on			
🗸 ок	X Cancel		? <u>H</u> elp

The grid width of the X and Y coordinates may be entered here.

The created figures may then be set out on the layout using the selected grid. When manually moving the figures by drag and drop, the figure will always be applied to the grid. You may activate or deactivate the grid by checking the Grid on field either on or off. The gridlines are **not** visible on the work surface. As a reference for setting out to the grid, use the square surrounding the figure.

Autoload mode

Function key [F6]

This mode allows figures or layouts, which have been created in ASCII format to be read in over a network.

See: Creating and editing layouts - Autoload mode
Polygon mode

Function key **[F7]** With this mode figures may be created, by entering their coordinates. See also: **Creating and editing layouts - Polygon mode**

Intelli layer

Function key **[F8]** Automatic laying function of identical layouts See also: **Creating and editing layouts - Intelli layer**

Pool mode

Function key [F11] This function allows the mat board to be used efficiently, with different layouts. See also: Creating and editing layouts - Pool mode

Align

Function key [F12]

The align function allows you a precise alignment of layouts with multi openings, without an outside cut.

See also: Creating and editing layouts - Align

Font mode

Shortcut [Ctrl] [F]

This mode permits the direct creation of letters and symbols in SPT32.

See also: Creating and editing layouts - Font mode

Help menu



Help index

Function key **[F1]** Opens the SPT32 help index.

Help - Key shortcuts

This help page describes all shortcuts and function keys.

See also: SPT32 Shortcuts

Direct help

Shortcut [Shift] [F1]

When you select this menu option a question mark will be attached to the mouse pointer. You may now click on the item about which you want to learn more.

If you are in a section of SPT32 for which there is chapter in Help, this will open directly by pressing the shortcut keys **[Shift] [F1]**. Otherwise you can reach the Help index as with **[F1]**.

Tips and tricks

A separate Help is opened, in which you can find useful information on different themes, e.g. importing figures from CorelDraw, or using barcode readers.

Assistants....

Assistants 🕨	Configuration Assistant.txt
Registration informations	My first mat.txt
About SPT32	Open assistant

The assistants lead you quickly and safely to the through the settings procedures or to create the first mat board (PP).

Configuration assistant

After opening the configuration assistant, the area on the right of the screen describes all of the settings step by step.



My first mat

My first mat is set out in the same way as the configuration assistant and explains all the necessary steps when creating a mat board.

Registration information

Gs Spt32 - Reginfos		_ O ×
Guarantee settings 365 days guarantee, with 365 days left 100000 cuts guarantee, with 94589 cuts left		
Rental settings		
machine is not in rental mode	order new cuts/days	
	read Foense Key	
↓ 0k	Help	

Guarantee settings

You will find information here concerning the machine guarantee and the remaining time. Also, concerning the number of cuts, which are covered by the guarantee, i.e. the cuts remaining until expiry of the guarantee.

Rental settings

This field gives information here concerning the rental time and the remaining rental time and the number of cuts, which are covered by the guarantee, i.e. the cuts still remaining.

Using the **order new cuts/days** button, you have the possibility to extend the rental time or to order new cuts.

A new release key (License key) may be read using the **read license key** button. If there are any days or cuts remaining from the previous registration, these will be added to the new one.

About SPT32

Spt32 f. Windows XP Version 5.09m	Copyright 1997 - 2004 by Weissenberger AG, Rebstein
Current date: Nachine type: Machine number: Controller number: Controller version: SPT32 version: SPT32 program path: SPT32 data path: SPT32 program file:	6/12/00 GUNNAR601 42.601.003 200015678 Controller: @V1.00/11₩ 0 Version 5.09m C:\Spt32 C:\Spt32\Data C:\SpT32\SPT32.EXE Size: 5,087,744 bytes; D
x save info and ini	save ini support form

In case any problems should occur, important program information simplifies the analysis procedure.

Counter



From left to right; Figure counter, Layout (mat board) counter, Total counter.

You can change the figure and the layout counter at any time, using the arrow buttons. You can even set them to zero, by right clicking with the mouse on the respective counter and selecting reset in the popup window.

For cuts with outside cuts, the total counter always counts the outside cuts too.

The total counter cannot be influenced.

Example: If you cut a mat board with three figures, the counted result is as follows:

Figures counter	3
The layout counter	1
And the total counter	3

Counter by figures with 90° outside cut

On machines that have a 90° cutting head, every single cut line is counted and the result divided by 4. The result is then added to the figure counter.

Example:

A mat board with 2 openings and a 90° outside cut.

Figure counter: 2 openings + (4 OC lines / 4 =1)	= 3
Layout counter:	= 1
Total counter:	= 3

Stopwatch

reset figure counter reset lavout counter	
show counter as stopwatch	

This popup window opens after clicking with the right-hand mouse button on the total counter.

Select **Display counter as stopwatch**. The total counter display will change into a stopwatch, which will begin to run when the cutting command is activated, and will stop as soon as the layout is completed.



Toolbar



Toolbar menu



Save current layout see: File menu - save Open existing SPT32 file see: File menu - open Create new SPT32 file see: File menu - new

Measurement input method



See also: Entering measurements - the logic

Paste Clipboard



This button opens the window in order to paste data from the clipboard.

See: Importing data using the Clipboard

Undo / Redo



See also: Edit menu

Transform menu



Rotate figures

Select one or more figures

Press the rotate button 🥏

You can define the angle of rotation in the following window

rotate angle: 45	00	-
√ ok	X Cancel	? Help

e.g.

90° - the highlighted/selected figures will be rotated by 90 degrees clockwise.
90° - the highlighted figures are rotated by 90 degrees anticlockwise.

Please note: Entries in this window refer always to the current figure measurements, i.e. once the figure has been rotated twice by 45 degrees, it has been rotated a total of 90 degrees.

Scaling figures

Select one or more figures

Press the scale button

In the following window you can set the horizontal (X direction) and vertical (Y direction) scale factors.

scale factor X: 1.00 scale factor Y: 1.00		-	
√ 0k	¥ ⊆ancel	? Help	

e.g.

1 and 1 means no change

1.5 and 1.5 will enlarge the figure by 50%

3 and **1** enlarges the figure horizontally threefold whilst the vertical factor remains unchanged.

Please note: Entries in this window refer always to the current figure measurements, i.e. once the figure has been scaled twice by 0.5 in X and 0,5 in Y, it has now only 25% of it's original size.

Mirroring figures

Select one or more figures

Press the mirror horiz. button

The selected figure will now be mirrored in the horizontal direction around the central axis by the amount of the given mat board measurement.



The vertical mirror button works the same way, but in the vertical direction 📛

Catch mode



Start the catch mode by pressing [C] or the [catch] button

Move the mouse pointer near to the corner point of the figure that you wish to move (if you wish to use catch using the safety distance, hold down the Ctrl key). The mouse pointer changes to a blue X as soon as you move over a catch point*.

If the corner point has been caught, press the left hand mouse button. The mouse pointer will now change to a geometric symbol.

Move the mouse pointer now to the required corner position and press the left hand mouse button once again.

If you do not wish to position the figure at another corner point, but rather on a freely definable position, enter the X and Y coordinates, instead of doing point 4. The first time a number key is pressed on the keyboard, the editor window will open on the left hand side of the status bar.



*catch points are all corners of the surrounding square as well as the figure central point. In addition, all start and end points of each line and curve of a figure, as well as the half points of same can be captured.

Delete



Selected figures will be deleted.

Cut



Shortcut [Ctrl] [F9]

Without further confirmation, this command will execute the Cut procedure, provided you have not checked the field: **show this window when cutting**. The current layout will be cut after an automatic check of the layout. The current machine settings are used, which can be seen in the SPT32 status bar.

Pressing the space bar can interrupt cutting. (1001 and 3001 also by pressing the start button). See also: **User intervention**

Pressing the emergency stop button will force SPT32 to shut down, thereby losing the current layout, unless it was saved before commencing the cutting procedure.

Cutting options



When pressing the button the following window appears:

cut options	×
cut all	cut from
🔽 inside cuts	C Front Back
🔽 VG	COE
	VG dynamic blade depth
☐ : keep settings	IV XM dynamic blade depth
🗸 ок	🗶 Cancel 🛛 🦻 Help
🔲 show this dialog at c	ut command

You can set up different variable cutting options.

Inside cuts - all cuts on the layout will be cut using the normal cutting method.

VG - all figures will be cut using V-groove.

OC - all figures in the layout will be cut out using the outside cut.

Keep settings - when this option is checked, previously made settings will be maintained. If it is not activated, the three checkboxes for normal cut, VG and OC will be automatically activated again after each cut.

Constant cutting options can be selected on the right hand side of the window.

Cutting from

the **back** (default) – by default, all mat boards are cut from the back. Overcuts and the system margin are calculated accordingly

the **front** - all cuts are made from the front and the calculations are adjusted accordingly. Be aware, that when cutting from the front, the outside cut measurement of the mat board must be absolutely precise, in order that the borders of the inside cut are also precise. **Warning!** Set the cutting method (from the back or the front) before you create the layout, as the zero point and the minimum borders will alter during the change.

COE - Select this function in order to switch to the COE mode (interchangeable clamping only 601, 1001 and 3001).

VG automatic blade depth setting - when this field is activated, the automatic blade depth alteration will be used for V-groove cuts.

DM automatic blade depth setting - when this field is activated, the automatic blade depth setting will be used for double mat boards.

Show window during cutting - when this field is activated, the cutting option window will be displayed each time a cut command is performed. This prevents the wrong cutting options (from the back or from the front) being used in a layout.

Check layout



Click Check layout in order to check the current layout. If everything is ok, then the following window will appear.

Spt32 information	
layout o.k	
✓ OK	

If it is not possible to cut the layout -



because, for example, the figure is too close to the margin, then the following window will appear:

layout checker	×
figures not matching layout order:	
Rectangle: C: 20.00, 30.00; B: 0.90, 5.18	
VOK ? Help	
figure to close to x border	
-	

In the upper part of the window you can see the figures that are not aligned correctly.

An explanation is given in the lower section, explaining why it is not possible to cut the layout. The relevant error is shown in red.

The checking mechanism uses red to indicate inadmissible figures.

Outside cut check 601

Because of the 90° cutting head, the GUNNAR 601 can make outside cuts right at or along the margin. An additional layout checker checks whether a 90° cut will conflict with one or more clamps.

Example:



Result of the layout check:

This layout may be cut without any problems, because the two outer cuts directly on the edge of the mat board will not be cut.



In this example, if you run the layout checker or press the cutting button, the following warning appears:

<mark>6</mark> 00	1 - outside cuts - li	ne checker				
	Warning please lower t	he red-signed	clampsI			
0						•
•						0
•	• •	O	O	0	0	0
	✓ Cut	X Cancel	? Help	bane		

The clamp heads highlighted in red have to be countersunk. By pressing them down lightly, they may be easily rotated by 180°.

Warning! Please take care that all the clamp heads highlighted in red have been countersunk before pressing the cutting button again. Damage may otherwise be caused to the blade head.

After countersinking the two red clamp heads, two still remain to hold the mat board. With mat boards of over 2mm thickness it is recommended that at least 2 heads per direction remain activated, i.e. a total of 4 clamps.

Now you may press **Cut** and the layout will be cut.

If you press **Cancel**, the warning will disappear and you may re-align the figures.

When you press **trans**, the layout will be moved by the set minimum margin in both the X and Y direction, in order to ensure, that no clamps conflict with the outside cuts. The transformation will only take place, if the outside measurement of the mat board permits it.



There are no active clamps in the X direction in this layout, so the following warning appears:

G (1)	1 - outside	cuts - line	checker					
	not eno layout n	ugh clamp ot cutable	os in cutting	gregioni				
°								0
0								0
°	•	•	O		0	0	0	0
	\$° 64	×	Cancel	? Help		bans		

In order to cut this layout you must either place the figure further away from the X margin, or use a larger mat board, so that an active clamp may be used in the X direction. In this case, pressing **trans** would move the layout in both the X and the Y direction by the set minimum margin.

When cutting whole sheets, special care must be taken with the layout checker.



This layout can be cut, because there are no 90° horizontal or vertical cuts which could conflict with a clamp head.



On the other hand, **all** the Y clamp heads and one X clamp head must be countersunk for this layout, and so the layout cannot be cut.

Automatic cutting order

Press [Automatic cutting order] and SPT32 automatically establishes a current cutting order. An existing cutting order will be automatically reset. If you want to add new figures to the data, start the Auto cutting order again. The newly added figures will be taken into account.

Manual cutting order



10

If you wish to or have to create a cutting order manually, select [Manual cutting order]. An existing cutting order will be automatically reset. Move the mouse pointer over the figure you want to add to the sequence and press the left hand mouse button to confirm. Move the mouse pointer to the next figure, and confirm again by pressing the left hand mouse button. Repeat as necessary.

Finally, press [Manual cutting order] to confirm the result or press [Escape].

Please note: when a figure lies within another figure, the inner figure must be cut first!

Outside cut view / Overview



Press the button to change the view on the right hand side of the screen. The view is determined by the dimensions defined under [OC]

By pressing the key again, the overview will be displayed.

This can also be preset, so that the desired view will always be set. See also Administrative settings

Dimension arrows



Press this button to display the functions of all dimension arrows. This means that all relevant dimension arrows will be displayed in grey, and the arrow that displays which value is currently being entered, will be shown in light yellow.



Pressing the button again deactivates the function and only the value that is currently being edited will be displayed as a yellow dimension arrow.

crea	te shape A010		
/tside measuremen/	1		
Width:	Height:		
30.00	40.00		
tandard			
Opening width:	Opening height:		
20.00	30.00		
Border left:	Border right:		
5.00	5.00		
Border top:	Border bottom:		
5.00	5.00		

On multi-openings only the dimension arrow of the respective active figure is displayed (the one being edited).



The dimension arrows disappear as soon as the data entry is confirmed and the entry mask has been closed. A click on a dimension arrow in the editing area focuses on that particular entry box.

Editing area

Templates Sizes Arrange Note Assistant Standard							
A 010	(A) (020)	A 030	(Å)				
A 070	(Å)	A 100	A 160				
A 180							
Corners Key holes							
Eancy							
Base							

Templates

You have the possibility to access the template catalogue from different areas. Click on the respective area to open the gallery view. Click again on the selected figure to open the input mask with the default dimensions for that figure, and the figure will be displayed in the workspace.

See also: Measurement input logic

Sizes

Templates	Sizes	Arrange Note	Assistant
_ ом			
OM × [30.00	у: 40.00	2

The current outer dimension of the mat board will be displayed in the size area. By double-clicking in the input box X or Y, the dimensions can be changed. The field with a grey background shows the current quantity of figures on the layout.

Align

Press the Align button to start the alignment mode.

See also: Align figures

Note

The edit field for notes will be opened.

See also: File menu - Note

Assistant

See also: Help menu - Assistants....

OC button (Outside cut)

When you wish to cut figures with an outside cut, press this button \bigcirc . If a figure already exists, highlight it and afterwards press the OC button. The current outside cut dimension will be assumed to be the applicable dimension.

If you wish to create a new figure, the most recently entered dimensions as well as the last used outside cut figure will be applied.

Right clicking the mouse button causes the popup **cut definition** from the window that appears:





You may choose from 6 different variants of outside cut. By clicking a particular figure that outside cut will be applied. By double-clicking the created figure you can alter the figure's properties as usual. Please note that the edit fields for the mat board size now refer to the outside cut measurement.

VG button (V-groove cut)

Press the \underline{VG} button in order to create V-groove figures.

If you wish to create a new figure, the most recently made entries will be used.

By clicking on the arrow the popup window opens define. Select define and the following window appears:

⊻G



You can define the width of the V-groove and the distance to the inner cut here. By activating the checkbox [only V-groove cut], the current dimensions will be used for the V-groove cut and no normal cut will be made.

The **blade holder** used for the V-groove cut must be set to a depth equivalent to half the width of the V-groove.

Please note that the opening size, particularly for V-groove cuts, must be 100% accurate.

Cutting V-groove figures

V-groove figures

If you have checked the **only V-groove** cut field in the **V-groove definition** window, all selected or newly created figures will be both displayed and cut with a V-groove.

If you have selected to cut from the **back** in the cutting options, this window will remind you that V-groove cuts will always be cut from the front.

Warning	×
⚠	Vgroove cuts always from front side, change to FRONT and CUT?
	Cancel

Make sure that the correct mat board profile has been selected (normally C9=Vgroove) and that the correct blade has been fitted.

Warning! V-groove cuts require a greater distance from the system margin (4.5 cm).

Figures with V-grooves

Figures with V-grooves are **always** cut from the front. In case you have not yet changed the cutting options to cut from the front, you will be reminded to do so.

Warning	×
⚠	Vgroove cuts always from front side, change to FRONT and CUT?
	Cancel

If you now activate the cut button or press **[Ctrl]+[F9]** this window will prompt you to select the correct profile as well as to fit the blade. If you have selected **V-groove automatic blade depth** setting in the **cutting options**, you do not have to fit another blade. The software does not prompt you to do this between the cuts, but rather it switches automatically back to a normal cut after the V-groove cut.

Warning! V-grooves will always be cut first.

VGroove information
please insert vgroove blade and select profiles
vgroove cut profile: C9=0.700;100;3;0;VGroove
C3=1.300;100;3;0;Label
Change blade

Once **Cut** has been confirmed, the V-groove will be cut. The mat board must be placed into the machine with the front side upwards. If you have not activated the automatic blade depth setting, this window will appear, as soon as the V-groove cut is finished.

VGroo	ve information	×
ple	ase insert blade for regu cut: C3	ılar
	C3=1.300;100;3;0;Label]
	Change blade Cut	

It prompts you, that the inner cut will also be cut from the front, and that therefore only the blade has to be changed and the board does not have to be turned over.

XM button

The XM button makes it possible to create multi mat boards (double, triple, ...). If a figure already

exists, select it and then press the XM button $\overset{\star \underline{M}}{}$

When you create a new figure, the last entries single layers will be used.

Clicking on the arrow will open a popup.	<u>d</u> efine	Select define and the XM
definition window appears:		

XM

🧲 xmat definition	n	×
Xmat no. Width	h cm mat profile	
# 7:		
# 6:		
□ #5:		
# 4:		
# 3:		
✓ #2: 1.000	resent	•
🗸 ОК	X Cancel ? Help	apply
	I	1
•		

The individual distances of double or triple boards can be defined here as well as making a profile allocation. Under profiles select "current" so that only the currently selected profile will always be used. Please note that only double mat boards can be cut with DBD.

Once you have confirmed with **OK** the selected figure will be used and the window closes again.

Cutting X- mats

If a layout is to be cut, SPT32 looks to see if it is a multi mat board that has to be cut. If this is the case, the following window will appear:

cut xmat			×				
Xmat layers							
	#7						
	#6						
	#5						
- F	#4						
	#3	0					
-	#2	0					
	base mat	0					
C	cutting mat #3						
	none						
🐰 cut 🔀 Çancel 💡 Help							

Here you can define which layer of a multi mat board should be cut. Once the layer has been selected, SPT32 checks to which profile this has already been allocated and prompts you to change the blade if necessary. On the top layer, normal figures (without multi cut) are cut, if any such cuts are to be found in the current layer. If you have placed several XM's on your sheet, all top layers will be laid on the top sheet, regardless of how many layers might follow for other figures.

Start the cutting procedure as normal using **[Ctrl] [F9]** or by using the Cut button. Do a blade change by pressing **[Ctrl] [F5]**.

RB button (Reversed Bevel)

If you want to use an insert batten for your mat board, seen from the front, you need a sharp edge like that used for an outside cut. However, overcuts must not be allowed to damage the visible surface of the mat board.



With the ^{RB} button the **Reversed Bevel** function will be activated. This means that no (or at least very short) overcuts will be made and the figure must be broken out.

SC button (Straight Cut only 601/3001)

If you wish to cut figures with the 90° head (straight cut), you should press the ^{SC} button (Straight cut). All selected/highlighted figures will be cut with the 90° head.

Warning!!! As long as this function remains activated, each figure that is selected thereafter will be cut in the same way.

Outside cuts made with the 601/3001 automatically use the 90° head and therefore do not have to be selected specifically.

Rotation button

Using this function you can automatically rotate the figures to be created. This function does not work on already existing figures. Contrary to the Rotate Figure function on the toolbar, the rotation button rotates not only the figure but also the whole layout (including the margin distance).

Press the arrow next to the [Rotate] button ^{Q°} and select one of the settings in the



e.g.

90° - the layout is rotated 90 degrees clockwise.

270° - the layout is rotated 90 degrees counter clockwise.

If you wish to rotate an existing figure, select the [Rotate figures] button.

Control bar

2.97, 6.91	C3=1.300;100;3;0;Label	Mat: 1.300	Speed: 100	Correction: 3, 0	OM x: 30.00 y:40.00; 0	2
				Curr Ma	Numbers of Mat dimension ent settings of t See also: Mac See also: Mac thickness, ove See also: N	Display status notes of figures in the layout as in X and Y direction the degree correction hine settings - degree Current speed settings chine settings - speed routs and mat profiles lachine settings - mat Mat profile selection r position coordinates

Creating and editing layouts

Measurement Input Logic

The six standard measurements

create	shape A010
Outside measurement	
Width:	Height: 40.00
Standard	
Opening width: 20.00	Opening height: 30.00
Border left: 5.00	Border right: 5.00
Border bottom: 5.00	Border top: 5.00

The sequence of the six standard dimensions varies depending on the measurement input method. Common to all input forms are the dimensions for the horizontal and vertical margin, the lengths of the horizontal and vertical cuts as well as the horizontal and vertical outside cut.

Press the enter key, double-click on the grey surface or press the [generate figure] button to create a figure using the entered values and displays it in the work area proportionally scaled.

Additional measurements

create sha	pe 8050
Outside measurement	
Width:	Height:
30.00	40.00
- Standard	
Opening width:	Opening height:
20.00	30.00
Border left:	Border right:
5.00	5.00
Border bottom:	Border top:
5.00	5.00
Corner	
Radius:	
<mark>3.33</mark> ▲	

The above picture depicts an additional input box for defining the radius of a rounded corner.

Whichever input box appears depends on the figure selected. For example, both a rectangle and an ellipse do not need additional measurements.

Measurement input in fractions

Measurements are often displayed in fractions and not in decimal, above all in the imperial measurement system. In order to save you having to make a conversion, SPT32 allows an input in fractions in the **figure input mask**, the **coordinates mask** as well as the **OC input**. You therefore no longer need to convert for example 12 ³/₄ into 12.75, as you can enter this directly as a fraction.

_ ом ——			
OM ×	15.00	y: 12.3/4	1

Please take note that the number must be separated by a decimal separation sign (point or comma, depending on the country setting). The correct input would therefore be: 12.3/4 (number – point (comma) – fraction – slash – denominator.

SPT32 calculates the decimal value automatically. After you confirm the input, the value will always be shown in decimal.

Measurement input methods

Select the method of measurement input that most suits those of your customer.



Standard measurement input

The sequence of the input fields is as follows:

- Outside dimension horizontal (X)
- Outside dimension vertical (Y)
- Cut X (automatic calculation of margins in X)
- Cut Y (automatic calculation of margins in Y)
- Margin X (automatic calculation of the opposite margin, by using '-' or '+' key the X cut will be calculated)
- Margin Y (automatic calculation of the opposite margin, by using '-' or '+' key the Y cut will be calculated)

4 margins measurement input

The sequence of the input fields is as follows:

- Outside cut X (cut X will be automatically calculated)
- Outside cut Y (cut Y will be automatically calculated)
- Margin X (opposite margin is assigned the same value, cut x is calculated)
- Opposite margin X
- Margin Y (opposite margin is assigned the same value, cut Y is calculated)
- Opposite margin Y

In - outside measurement input

The sequence of the input fields is as follows:

- Cut X (automatic calculation of the margins in X)
- Cut Y (automatic calculation of the margins in Y)
- Margin X (Outside dimension X will be automatically calculated)
- Margin Y (Outside dimension Y will be automatically calculated)
- Opposite margin X
- Opposite margin Y

Measurement Input for Figures

In the following section 2 samples are displayed in order to clarify the input of measurements. Each figure is opened together with an entry mask, which is necessary in order to enter all the relevant dimensions.

All figures are given alphanumeric names, whereby the letter stands for the category to which the figure will be allocated and the number stands for the figure itself.

A 010 (Rectangle)



In order to generate this figure it is sufficient to enter the six standard measurements.

C 050 (Keyhole with V-groove)



In order to create the C050 figure, many more parameters are necessary. The keyhole distance, it's width and height, as well as the distance of the V-groove is displayed in the input mask, and, if active, will be displayed in the figure as a yellow dimension arrow. By clicking the respective dimension arrow, focus is then put on that particular input box.

Minimum Input Entry

Minimum radius

F1, 601, 3001 = 0.5 cm (0.2 inches) RAPIDO, 1001 = 1.5 cm (0.59 inches)

Minimum angle

The smallest or narrowest angle that can be cut is 10°.

SPT32 Shortcut keys

[ESC]	Exits catch mode or manual cutting sequence
[F1]	Opens help index
[Shift] [F1]	Opens direct help
[Shift] [O]	Turns the Outside cut on or off
[Shift] [X]	Turns on the multi mat board
[Shift] [V]	Turns on the V-groove definition
[Ctrl] [1] to [9]	Select the board profile
[Alt] [Bsp]	Undo
[Alt] [Shift] [Bsp]	Redo
[Ctrl] [F5]	Change blades
[Shift] [F5]	Change blades for 90° head (only 601/3001)
[Ctrl] [F9]	Cut current layout
[Ctrl] [Shift] [F9]	Only cut outside cuts
[F2]	Set the focus to the figure toolbar
[F3]	Turns on the vacuum, countersinks the clamps
[Ctrl] [F3]	Turns the vacuum off, raises the clamps
[F4]	Swaps the method of cutting from the front / from the back
[F6]	Swaps between the Professional and Autoload modes
[F7]	Turns the Polygon mode on/off
[F8]	Turns the Intelli layer on
[F9]	Opens the cutting options window
[F10]	Swaps between the windows
[F11]	Turns the Pool mode on/off
[F12]	Turns the alignment function on
[i]	Switches from absolute 0 point to relative 0 point
[C]	Turns the catch mode on/off
[0]	Activates the outside measurement X in the status bar
[M]	Switches the manual cutting sequence on/off
[R]	Redraws the figures on the screen
[Spacebar]	Cutting pause (with the possibilities: continue, cancel and change blade)
[Delete]	Deletes selected figures
[Ctrl] [Delete]	Deletes all figures

[Ctrl] [N]	Creates new empty file
[Ctrl] [O]	Opens existing file with window
[Ctrl] [S]	Saves current file
[Ctrl] [Shift] [S]	Save as
[Ctrl] [*]	Fits the screen display to the table dimensions
[Ctrl] [/]	Fits the screen display to the outside dimensions
[Ctrl] [+]	Zoom in
[Ctrl] [-]	Zoom out
[C†rl] [→]	Scroll right
[Ctrl] [<]	Scroll left
[Ctrl] [↑]	Scroll up
[Ctrl] [↓]	Scroll down
[Ctrl] [I]	Starts initialisation
[Ctrl] [P]	Moves to park position
[Ctrl] [T]	Opens the test clamping window
[Ctrl] [X]	Cut (deletes and copies data to the clipboard)
[Ctrl] [C]	Copies data to the clipboard
[Ctrl] [V]	Pastes data from the clipboard
[Ctrl] [H]	Fixed clamps (only 1001/2001)
[Ctrl] [E]	Opens the input field for notes
[Ctrl] [F]	Opens the font mode
[Ctrl] [Pgup]	Increases the counter
[Ctrl] [Pgdwn]	Decreases the counter
[Ctrl] [Home]	Sets the figure counter to 0
[Alt] [M]	Menu

Construction functions

Select

Move the mouse pointer over the edge of a figure and click with the left hand mouse button. The figure will now be red and is therefore selected or highlighted. By clicking once again the selection is moved. In order to select further figures, hold down the **[Ctrl]** key and select as many figures as required.

To remove the selection, click on an empty area of the work surface.

Move

Select either one or more figures. Move the mouse pointer over one of the selected figures and press the left hand mouse button. Hold the button down and move the figure to the required position. Once in position, release the mouse button.

For an exact positioning, see also: Catch mode

Moving with safety distance

Start the catch mode and when selecting a figure press the **[Ctrl]** key, so that the defined safety distance will be automatically used. You can now either place the captured figure in a specific place using the coordinates entered, or catch another figure and place it there.

Drawing mode

When the mouse pointer is over the table view and you press the right hand mouse button, the following window will appear:

fit to overview	
fit to outside	
Edit 🕨	
add to pool	
draw mode 🔹 🕨	filled
show figure properties	transparent
show figure propercies	3D

You can choose between the **Overview** and **Outside** cut, or you can open the Edit pop up menu. In addition you may add the selected figures to the pool using **Add to the pool** (see: optimal usage of the pool mode).

In the drawing mode you may switch from **filled** (standard setting) to **transparent**, or switch the 3D display on or off. In the transparent settings only the outline figures and not the filling will be shown. This way, possibly hidden figures and not the filled ones will become visible.

By clicking **Display Figure Properties** you open the figure input mask and the properties of the selected figure may be checked or altered.

Intelli Layer

This function enables you to make an automatic layout. SPT32 calculates and sets out as many figures as you wish, or at least as many as are possible on the given size of board. It makes therefore no difference if the figures have an outside cut or not. It is also not a problem to set out multi openings.

Example:

Create the figure A070 (Roman arch) using the dimensions 8×10 with a rectangular outside cut of 15×15 . Now press the **[F8]** key.

Intelli layer
3 0.5000 81.50 0.5000 # 999 ÷
statistics
figure count: 30 Trash: 0.0756 m²
N 🖌 🜒 🔕

The following window appears:

Just as with the figure properties mask, you can now enter all the dimensions you need for the creation of your layout:

the size of board, the distance of the figures in the X and Y direction, the distance from the system margin (only temporary – after cutting, the normally set up system margin will be automatically used again) and the required number of figures.

999 stand for endless and means that as many as have space on this board.

By pressing the (set out) button, all the data will be applied and displayed on the right hand side.



Pool mode

This function serves to achieve an optimum of material usage. Using the pool mode you have the possibility to set out different figures on one layout, or rather have them automatically set out. Apart from that, any number of figures can be entered, which will then be set out on several sheets. The pool mode continues to calculate new layouts until all the required figures have been cut.

Create a single figure **with Outside cut**, which you wish to set out automatically and save it in the pool. You may also use figures from the Autoload mode. Only figures with an outside cut will be taken into consideration.

Example:

Create a rectangle with the outer dimensions 50 x 70 and inner dimensions 40 x 60 and highlight the figure. Now press the shortcut key **[Shift] [F11]** or press the right hand mouse button and select **add to the pool.**
fit to overview	
fit to outside	
Edit	•
add to pool	
draw mode	►
show figure properties	

The figure will be put into the pool.

Create the next figure, e.g. another rectangle, but a little smaller. 30 x 40 outside and with a 20 x 30 opening. Press **[Shift] [F11]** or the right hand mouse button again. This figure will also be put into the pool.

Now create another figure and this time make it an oval with a 13 x 18 outside cut and a 9 x 13 opening. Press **[Shift] [F11]** or the right hand mouse button again and the figure will again be put into the pool.

Pool mode				
pool filename:				
120				
1 532: TP50.0/70.0 40.0/60.0 5.0/5.0 1 532: TP30.0/40.0 20.0/30.0 5.0/5.0 1 532: TP13.0/18.0 9.0/13.0 2.0/2.5				
🊟 🦷 🖌 🎢 · 🥑 🔇				

Now open the pool mode by pressing [F11].

The three figures will now appear in the text field. Highlight the first figure by clicking on it with the left hand mouse button. Now click the right hand mouse button or press the

button to open the popup menu.

delete selected item
set counter
increment counter
decrement counter
set selected item to filler
 save this pool as
save this pool as open another pool
save this pool as open another pool start a new pool

Select Set the counter..., and enter the number of figures required.

Ge Poolite	em cou	Inter	
Count:	20	▲ ▼	🗸 ок

e.g. 20. Repeat this procedure for the next figures so that when you have finished, you have a list where the number 20 appears in front of each of the 3 figures.

Tip: If you double-click on the respective figure in the text field, the popup counter will open.

Save the pool by pressing the name for the pool.

figures to be set out.

button, select save pool as... (Ctrl-S) and enter a

Now enter the distances from the margin and to the figures in the input mask, as well as the distance if figures are placed inside each other. Finally, enter the size of board.





Press the **set out.**. button and the pool mode automatically calculates how many

of the respective figures will have space on the board. The calculation can take a little

time to complete, depending on the power of the PC processor and the number of



Once the set out is completed the following window appears:



Once the layout is ready to be cut, confirm by pressing **Cut**. Should you wish to carry on editing the layout or if you do not wish to proceed with cutting just now, press **Cancel** and the layout will remain on the screen.

The list will reduce the number of a particular figure according to how many have been set out and cut.

Once the layout has been cut, SPT32 asks if you wish to continue working from the pool.

🧲 Pool	
proceed calculatir	ng next layout?
√ 0k	X Cancel

You can continue with this process until the pool is completely empty.

You can also reset the counter, in which case the pool can be used limitlessly.

In case the pool is not completely emptied at one go or in one day, you may simply pause the work by exiting the pool mode. Providing the pool was saved at the beginning, then the numbers remaining in the pool on exiting will be taken over.

In order to continue working with the pool at a later date, simply open the pool mode,

click on the *pol* button and select **open pool**... from the menu. The pool will now start where you last left off.

Aligning

This function enables you to optimally align a layout with several openings, both to the edge of the board as well as the figures themselves. The multitudes of possibilities cover all eventualities.

To start the alignment function, either press **[F12]**, or use the options menu or click the register **Arrange** in the **edit area**. The following window will appear:

Templates Sizes Arrange Note Assistant
Centering OM
Equal space
Borders
standard arrange

The individual functions will become available as soon as at least one figure has been selected. Functions, which cannot be performed with the current layout, are greyed out – e.g. one cannot execute the same distance in the vertical direction for figures that are lying next to each other.

Centring OM

The buttons in this line align all selected figures to the middle of the given outside cut measurements.

If only one figure is selected, then the rectangle surrounding this figure will be calculated and aligned to the centre in either the horizontal, vertical or in both directions.



If, on the other hand, several or all figures are selected, then the rectangle surrounding all the selected figures will be calculated and the centre of this surrounding rectangle will be aligned to the centre of the board.

Equal space

In this line, the selected figures will be aligned to each other with the same distance.

The first button takes the extreme left and extreme right figures as a reference, and aligns the remaining figures with the same distance between them.



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With the second button the outside measurement will be taken into consideration and all figures selected will be aligned horizontally with the same distance to each other.



The third and fourth buttons work in the same way, but in the vertical direction.

Borders

The selected figures may be aligned both horizontally and vertically to the border by a defined distance. Enter the required border in the edit field:

5

The margin will always be displayed in the set up basis unit of measurement.

By clicking the appropriate button, select to which border the figures should be aligned. Clearly each figure can be aligned in 2 directions, e.g. 5 cm to the right hand border

2 and 5 cm to the bottom border . The number 2 shown on the button serves only as a symbol and does not represent the value set up.



Standard alignment

All selected figures will be aligned either to the right, the left, the top or the bottom figure. It will not be taken into consideration, if the figures lie on top of each other or not.



the extreme outside figures as a reference for alignment, but rather take the centre axis of the surrounding rectangle in either the horizontal or vertical direction.

Tip: As a more simple orientation simply place the mouse pointer on the button and this will change according to how the figures are to be aligned. For example:



Font mode

The font mode allows words or whole texts to be created in SPT32 and for these to be cut as a mat board or as decoration on a mat board.

Start the font mode from the **Options menu** or by using the shortcut key **[Ctrl] + [F]**. The font mode program window will open:

Font mode	
Arial B /	Font Selection
Paste position X: X: 3.00 Y: 3.00	Text position in set up measurement unit
Font height: 10.00	Text height in set up measurement unit
Text:	
Text	Enter desired Text here
	Confirm the Text entered - data will be placed in the layout
	Undo the last action made
	Open the help page
✓ 🖌 🥑 😢 —	Exit Font mode

By clicking on the arrow in the selection window, all fonts will be displayed that have been used at least once. By clicking on the desired font, this will be placed in the selection window.

If you wish to add another font, click on the button.

In order to avoid too great a flood of data, do not enter texts longer than that which the preview window can display. If a longer text is needed, do this in several stages.

Warning! Whilst all the fonts that are installed in Windows are made available, not all of them can be cut. Take care, that only True Type Fonts (.ttf) are used. The **Minimum radius** is equally valid for texts. If you are not sure, make a test cut on a piece of scrap board.

Once the data has been placed in the layout after confirming it with *mathematications*, no further corrections may be made. The letters will be dealt with just like normal standard figures.

Importing external data via clipboard

SPT32 gives you the possibility to import external data via clipboard and to use it for cutting.

We recommend using for your work either Micrografx Designer 7.0 or higher, as well as Corel Draw 9.0 or higher.

Further information on Corel Draw can be found under http://www.corel.com.

General

SPT32 can only import vector graphics, not bitmaps (Pictures).

A vector contains information about the distance from one point to another. It contains information about the location of the start and end point, reference points for curves, definition of the lines between points and much more. SPT32 filters out the required information and draws the lines on the screen.

It is important that the created figure, that is to be cut, is of original size or larger but not smaller. It is much easier for SPT32 to reduce the figure and remove superfluous points than it is to enlarge the figure and insert more required points.

SPT32 uses the created layouts and tries to cut that which ahs been imported. It is therefore very important that the positioning is precise and clear. For example, if you have a small unevenness or step in your layout that is hardly visible to the naked eye, SPT32 still will try to cut it. Please bare in mind that the results of the cutting can only be as good as the imported figures permit.

Create figures using various drawing functions and import

In Corel Draw and Micrografx Designer there are various drawing functions for straight or curved lines, rectangles, ellipses, stars etc. For further information on these functions, please refer to the documentation of the respective program.

When you create a figure, please only use a normal line type and set this up as thin as possible (hairline). If you select a line that is too thick, the figure will automatically become larger. In the worst case, SPT32 could regard it even as two cuts.

To import figures that you have created yourself, proceed as follows:

Warning, the following instructions are only a brief introduction for the creation of a drawing using an example in CorelDraw. Only a minimum of requirements will be demonstrated, which are necessary to allow importing into SPT32. In order to gain more exact knowledge and capabilities with a graphics program, refer to the respective software manufacturer or supplier.

Start SPT32

Start Corel Draw

With the help of drawing tools (freehand, , bezier, basic forms,), create a figure. Take note that the figure is closed or that the individual lines are joined or melted together. Important! Always select hairline as the line thickness.

Click on the selection arrow



Choose the figure that you wish to import.

Copy the figure onto the clipboard, either using the menu **Edit – Copy**, or using the shortcut **Ctrl + C**

Switch over to SPT32

Click on the Import data from the clipboard button or use the shortcut Ctrl + V

The **Paste clipboard** window will be opened. You may enter the desired position for the figure as X and Y coordinates. Define the figure size in the Insert dimension fields. If you have selected the **proportional** field, the dimension in the Y direction will be automatically altered, if you have entered a value in the X direction, and vice versa.

Clipboard paster				
Clipboard paster				
paste position	X: 0.00 Y: 0.00			
paste dimension	X: 26.81 Y: 22.71			
Closed polygons	v proportional			
tangential settings 30				
	j set as default			
🖌 🚺 🐐	- 🕐 😣			

In order to ensure that imported lines constitute a closed polygon, check the **Closed polygon** box and the figure will be automatically closed. Important for CorelDraw version 9 or higher: if you import more than one figure at a time, each figure will be

automatically closed. Delete the check mark in the **Closed polygon** field if you wish to import open polygons or single cuts.

Use the **tangential setting** to determine the angle, from which a hard stop will be made between two lines that meet. See: **TipsTricks**.

Press **Y** to confirm the input of the data and the figure will be displayed on the right hand side as well as the data being applied.

Using the Info button, information regarding the author and a subject description can be called up.

A click on the arrow near the *button opens a popup menu with the Match* zoom to imported figures and Imported EMF files functions.

fit to imported shape open metafile from disk

By matching the zoom, the view on the right hand side of the screen will be enlarged so that imported figures can be displayed as large as possible. Importing EMF files enables that existing EMF files may be imported, without having to start a graphics program and the file may be copied via clipboard.



button opens the respective help page directly.

Close the Insert Clipboard by pressing the **Markov** butto

Importing Clipart

As SPT32 cannot read picture formats such as bmp, jpeg or gif, all pictures or ClipArt's must first be converted into vector graphics in order to then have cutting details attached. As not every clipart or picture can be dealt with in the same way, it is only possible to give basic instructions on how to proceed. Please therefore be careful when selecting the motive.

Start SPT32

Start Corel Draw

Place the clipart CD in the drive

Open a new page and insert the clipart by clicking on **Tools - Drawing book - Search**. Select the drive, folder and the category e.g. abstract Select a figure and pull it onto the work area using drag and drop.



Enlarge the figure to almost screen size

Make sure that the figure is highlighted and click on Arrange - Ungroup in the menu bar

The tool **pen** can be found on the toolbar on the left hand side. Select the hairline and a <u>contour</u> will be drawn around the figure with a black line.

• ★ 🕅	

The next button down is the brush tool. Select "No fill".



You may now remove any unnecessary parts of the figure. In our example we can remove the eye pupils, as these would fall out in any case when cutting out the eyes.



Now select the whole figure.

Now click in the men bar on **Allocation - Forms - Melt** (Warning! This command is not always necessary and can alter the result both in a positive as well as a negative way)

Copy the figure onto the clipboard by pressing the shortcut keys Ctrl + C

Now switch to SPT32

21	
1-11	

Click on Insert data from the clipboard in the menu, or use the shortcut Ctrl + V.

The Insert Clipboard window will be opened and a figure is displayed on the right hand side. The points and lines around the figure show the calculated cutting points and will not be shown again once the data has been confirmed. They are helpful now, so that

possible messy areas can be cleaned up.



Enter the position and dimension data and confirm with

The imported figure can now be dealt with in the same way as a standard figure and receive properties such as V-groove and be built into a layer



Warning! Changes between the various versions of the different drawing programs can often happen rather quickly, so that the handling of figures can vary. The example shown above was made with CorelDraw 12. Deviations in editing using other versions are therefore possible.

Autoload mode

Working with Autoload in SPT32

Start the Autoload mode by pressing [F6]. The following window will appear:



Select a folder and confirm by pressing (Enter). All the Autoload files contained will then be displayed.

Autoload mode				
Autoload data:	samples.da	t		
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber 🔼
2 302-M C1	30.0 40.0	5.0	5.0 20.0	30.0;Huber
2 302-M C1	30.0 40.0	5.0	5.0 20.0	30.0;Huber~N
2 302-M C1	30.0 40.0	6.0	6.0 18.0	28.0;Huber
2 302-M C1	30.0 40.0	8.0	8.0 14.0	24.0;Huber
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
2 302-M C1	40.0 30.0 aa al ta al	5.0	5.0 30.0	20.0;Huber @
2 302-M[C1]	30.0 40.0	5.UJ	5.0[20.0]	30.0;Huber @
21202 MICT	0.00	E OL	E 01 20 01	20.0.4.box @
2 302-M[C1]	40.0 30.0 40.0 30.0	5.01	5.01.30.01	20.0;Huber @
2[302-M[C1]	40.0 30.0 40.0 30.0	5.0	5.01 30.01	20.0;Huber @
2 302-M[C1]	40.0 30.0 40.0 30.0	5.01	5 01 30 01	20.0,Huber@
2 302-M[C1]	40.0 30.0 40.0 30.0	5.0	5 01 30 01	20.0,Huber @
2 302-M[C1]	40.0 30.0 40.0 30.0	5.0	5 01 30 01	20.0,Huber @
2 302-M[C1]	40.0 30.0 40.0 30.0	5.0	5 01 30 01	20.0,Huber @
2 302-MIC1	40 0 30 0	5.01	5 01 30 01	20.0;Huber @
2 302-MIC1	40 0 30 0	5.01	5 01 30 01	20.0;Huber @
2 302-MIC1	40.0 30.0	5.01	5.01.30.01	20.0;Huber @
2 302-MIC1	40.0 30.0	5.01	5.01.30.01	20.0;Huber @
2 302-MIC1	40.0 30.0	5.01	5.01.30.01	20.0:Huber @
2 302-MIC1	40.0 30.0	5.0	5.01 30.01	20.0:Huber @
2 302-MIC1	40.0 30.0	5.01	5.01 30.01	20.0:Huber @
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
2 302-M C1	40.0 30.0	5.0	5.0 30.0	20.0;Huber @
21302-MIC1	40.01.30.01	5.01	5.01.30 ₁ 01	20.0:Huber @ 🖊
A .			0.5	
				V V

Select a line and the respective figure will be displayed in the work area.

In order to cut the figure, press the button on the toolbar or in the Autoload window. The number of figures entered on each line will be reduced with every cut completed. As soon as "0" is reached in the line, the system will advance automatically to the next line.

- St. 10	

If a change of blade is necessary, press the change blade button and the blade head will move to the pre-defined blade change position. Once the blade change is completed, the job will be continued from where it left off.

If the figure requires an outside cut, press the OC button deactivate this function if not outside cut is desired.

Press the 💻 button and the selected line is added to a pool.

Press [F6] again in order to exit Autoload or click on

Configuring Autoload mode

See also: Software settings - Administrative

File structure

Standard data



45 | V3200 | C2 | 100 | 80 | 5 | 6 | 10 | 16

The first part is administrative: **45** pieces are to be cut using the board profile **C2** and using mat board type **V3200**. The second part means, that an outside cut is to be made by **100** by **80** units in x and y, with a margin of **5** and **6** units in x and y and with a cut length of **10** by **16** units in x and y.

Details for the individual figures can be found in the documentation on the Autoload mode.

Polygon mode

Creating figures in Polygon mode

Start the polygon mode either via the menu or by pressing **[F7].** A table appears which enables you to create a polygon move.

Polygon mode (F7)						
StartX	StartY	EndX	EndY	Weight>	Weighty	
1	Ĩ	• 🕐	8			

A GUNNAR SPT32 polygon is described by a number of lines. Each one of these lines can be created as a line or a curve and indeed both open as well as closed polygons may be created and cut. Take a look at the following example:



This open polygon consists of 4 lines. The first line starts at X5, Y8 and finishes at X5, Y18. The next line starts at X5, Y18 and finishes at X15, Y18 etc. The starting points of the lines that follow are automatically taken from the end coordinates of the previous one. To make an entry simply click on the first field and use the **Tab** key to advance to the next field. Using **Shift + Tab** you can move back one field at a time.

The line that has just been worked on will be displayed bold, in order to simplify recognition of the line.

The fourth line is displayed as a curve. Therefore, the control points must be entered in the table – in this case X10, Y3.

Explanation:

The control points for a curve may be calculated as follows:

Place a tangent at the start and end point of a curve. (a tangent is a line running perpendicular to a line from the end of a curve to its centre point). The point of intersection where the two tangents meet is the curve's control point.



Therefore a curve can encompass a maximum of 179° and if you require a longer curve, it must be constructed from 2 curves. Ideally you should not extend beyond 90° for each curve and then add on the next curve if necessary.

If the next line does not begin where the last one stopped, a blank or no load run will automatically be inserted.



Warning!!!

If a line is to be cut as a straight line and not as a curve, the **Weight X** and **Weight Y** input fields (control points for the curve) must remain empty. Entering "0" would mean that the control point coordinates would be set to zero.

Polygon display

After entering the coordinates for the open polygon press the **Preview** button. The data will now be displayed in the work area.

If you want to make any changes after the figures have been displayed, the figure must be selected for changes to take effect. If you have already left the polygon mode, by double-clicking on the figure you may open it again.

If the figure has not been selected, a new figure containing the new properties is

created when pressing the **Preview M** button.

You can use this function to make multiple copies of one figure. You only have to take the focus away from a figure before pressing the **Preview** button. Thereafter, each click will create another figure.

Functions in Polygon mode

By pressing the **Options** button

the following popup menu appears:

clear data
add line
insert line
remove line
Paste

By clicking the **clear data** command, **all** data in the table will be deleted. Figures that have been drawn in **Preview** remain in the work area and only the data in the table will be deleted.

Using the Add line command, a further line will be added at the end of the input table.

Using the **Insert line** command, a line will be added at the point you selected, just like you know from MS Excel.

Use the **Remove line** command to delete a selected line.



User intervention

If the **[Spacebar]** is pressed during a cut, the following window appears:



On the 601, 1001 and 3001 models, you may press the start button to carry out these functions.

Documentation

User manual

The User Manual is supplied with each machine. It contains information about the technical areas of the machine. Information concerning the GUNNAR spt32 software is only to be found in this Help.

Internet

You will find the most recent information about GUNNAR products on our website.

Homepage:	http://www.gunnar-europe.com
Download:	http://www.gunnar-europe.com/download.htm

Help

The Help only contains information to do with the GUNNAR SPT32 software. If you require technical information, please refer to the supplied User Manual.

News

News about GUNNAR products may be found on our website. The most recent news about SPT32 and its updates can be found in the SPT32 program group under "Latest News" in English.

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http://www.gunnar-europe.com/links.htm.

Glossary of Terms

Index

4

4 margins measurement input 57

Α

A 010 (Rectangle) 58 About SPT32 34 Additional measurements 56 Addresses 85 Align 31, 49 Aligning 68 Assistant 49 Assistants.... 32 Autoload mode 30, 78 Automatic cutting order 45

В

Borders 70

С

C 050 (Keyhole with V-groove) 59 Catch mode 38 Centring OM 68 Changing the blade 29 Check layout 40 Configuration assistant 32 Configuring Autoload mode 80 Construction functions 62 Control bar 54 Convert to OpenPoly Data 11 Copy 9 Counter 34 Counter by figures with 90 outside cut 35 Create figures using various drawing functions and import 73 Creating figures in Polygon mode 81 Cut 9, 39 Cutting options 39 Cutting V-groove figures 50 Cutting X- mats 52

D

Define mat board profiles 28 Delete 9, 38 Delete all 9 Dimension arrows 46 Direct help 32 Drawing mode 62

Ε

Edit menu 8 Editing area 48 Equal space 69 Exit 8

F

File menu 6 File structure 80 Font mode 31, 71 Functions in Polygon mode 83

G

General 73 Grid 30

Н

Hardware settings - Experts 20 Hardware settings - Vgroove width adjustment 1 22 Hardware settings - Vgroove width adjustment 2 23 Help 84 Help - Key shortcuts 32 Help index 32 Help menu 31 Horizontal mirror 11

I

Importing Clipart 75 Importing external data via clipboard 73 In - outside measurement input 57 Installation 1 Intelli layer 31, 63 Internet 84

L

Lock file 10

Μ

Machine check 29 Machine settings - Back overcuts 25 Machine settings - Degrees 24 Machine settings - Front overcuts 26 Machine settings - Mat 23 Machine settings - RB Overcuts 26 Machine settings - Speed 24 Machine settings - V-groove overcuts 25 Manual cutting order 45 Measurement Input for Figures 58 Measurement input in fractions 56 Measurement Input Logic 55 Measurement input method 36 Measurement input methods 56 Minimum angle 59 Minimum Input Entry 59 Minimum radius 59 Mirroring figures 37 Move 62 Moving with safety distance 62 My first mat 33

Ν

New 6 New initialisation 29 News 85 Note 7, 49

0

OC button (Outside cut) 49 Open 6 Options menu 30 Outside cut check 601 41 Outside cut view / Overview 45

Ρ

Parking position 29 Paste 9 Paste Clipboard 36 Polygon display 83 Polygon mode 31, 81 Pool mode 31, 65 Print 7 Procedure 1

R

RB button (Reversed Bevel) 53 Registering 1 Registration information 33 Repeat 9 Rotate 11 Rotate figures 36 Rotation button 54

S

Safety settings 26 Save 6 Save as 6 SC button (Straight Cut only 601/3001) 53 Scaling 11 Scaling figures 37 Select 62 Select all 10 Services menu 28 Settings menu 11 Sizes 48 Software settings - 601 machine 18 Software settings - 1001 machine 19 Software settings - 3001 machine 19 Software settings - Administrative 15 Software settings - Basis 12 Software settings - Cutter Settings 13 Software settings - F1 machine 17 Software settings - RAPIDO machine 16 SPT32 Shortcut keys 59 SPT32 Version 5 1 Standard alignment 71 Standard measurement input 57 Stopwatch 35 Supplied software 1 System requirements 1

Т

Templates 48 The six standard measurements 55 Tips and tricks 32 Toolbar 35 Toolbar menu 35 Transform 10 Transform menu 36

U

Undo 8 Undo / Redo 36 Unlock file 10 User intervention 83 User manual 84

V

Vertical mirror 11 VG button (V-groove cut) 49 View 5

W

Working with Autoload in SPT32 78

Χ

XM button 52