

AV32



Online help SHEET METAL CENTER Plus

Admin AV32







Welcome to the help for AV32

General Notes on Navigation



Select Navigation Method

There are two methods to navigate AV32 's help files:

1. Interactive Navigation.

This allows you to control which texts you view by hovering the mouse over the relevant hotspots in the illustrations.

2. Consecutive Navigation.

This mode leads you sequentially through each help page. All available details are shown one after the other. Click the 'Next page' button (right arrow) in the left navigation panel [1] to move one step onwards.

Important Note

AV32 is machine-independent software. It offers a multitude of functions, some of which may not be supported by your machine. This online help document describes the general functions of the program using illustration which - dependent on your machine, post-processor and purchased options - may vary from the display on your system. The continuous development of AV32 can also cause differences between the screenshots shown, and what is shown on your workstation. Please first compare the revision number of your help documentation to that of your software, and check our <u>Website</u> to see if there is a newer version available.

The screen is divided into four areas: the menu to the left with navigation buttons and the page number, which you can type in to jump to a specific side.

The content list is at the top, divided into chapters. The glossary is at the bottom, with key words and phrases linked throughout the help files. You can swap the glossary for an index list, as preferred. Simple click a keyword in either case to link straight through to a relevant help page.

The middle frame shows the current document. There are two methods to navigate the help files:

Interactive

or

Consecutive





The Start Screen

Launch and Exit the Program; Navigate the Program.



This is AV32 's homepage. You can return here from any stage in the program by clicking the 'Home' button.

Click the IBE logo [3] to access the website of IBE Software GmbH via your active internet connection.

Exit the program by clicking [File],[Exit] [2].

Important Note

You must allocate material groups to your machines to avoid errors during your parts' production. Material groups are given properties which relate to their technical possibilities. These settings also help avoid damage to your machines. There is more information on material groups in the user's online help pages.

AV32 has many options for customization to individual users' needs. The program can be used in many ways with many different machines, often necessitating such customizations, e.g. by adding bespoke modules to the software. The online help describes the general options and settings for the program and database. These settings will sometimes affect the program's user interface, meaning that it sometimes looks different than in the help files' illustrations.

AV32 holds your data in an SQL database. The database can be held on a local workstation, or on a server in your network. You will require a Microsoft SQL Server (version dependent on your operating system) to host the database. There is more inforation on Database Settings in the corresponding help chapter.

This licensed software is dongle-protected. The software checks for a dongle with sufficient access at start-up and at intervals during the session.

There is more information on dongles in the Individual Settings chapter.

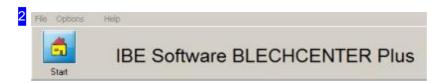
The program can work in a predetermined mode by presetting determine settings. It will run in this version by appropriate markings. These restrictions can also be bound on a user.







You can access each module directly while working with AV32. . More information on the processing modules in the user's help files.

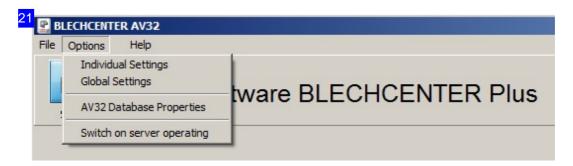


The 'Home' button always brings you back to this page.

The menu panel gives some options for controlling the program. Exit the program using the corresponding option under [File].

To make basic program settings or to adjust database connection settings, select [Options]. Here you can make individual settings for each user, and global settings for all users.

To get more information about the program, select [Help]. You'll also find information for program settings at startup. Select [Help][Contents]:Command Line.



To make settings for individual users, select [Individual Settings]. You can make setings about who can access which program modules and forms from their workstation.





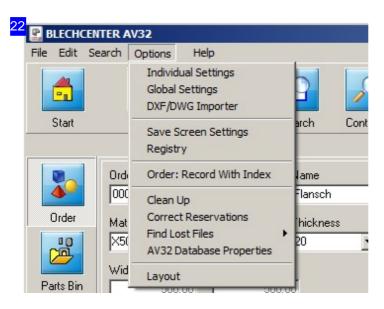
Click [Global Settings] to make settings which apply globally. Take care here, as settings you make will affect everyone using the program!

This helps avoid replication errors.

To view database information, select [Database Properties AV32]; a dialog will open showing that information.

Select the 'Server Operating' option to run the program in a mode so it works as service provider for external programs.

There are further options available later in the program.



The advanced options menu for this program. You MUST make a back-up before changing any of these settings, as they cannot be reversed!

- Batch-Debugger: If you have selected optimizing nesting plans with batch processing, you can get an
 additional debug-window, to trace the nesting process. Select 'Batch-Debugger' and the
 debug-window will appear automatically when nesting.
- o Tidy-up: deletes all temporary files. More details in the dialog help.
- Correct reservations: all order reservations are recalculated based on production data. Only the currently visible order records in the search filter will be corrected if additionally the <Ctrl> key is pressed, not the sheets.
 - This function requires all users to logout before it is permitted.
- o Find lost files: you can restore or delete 'lost' files here.
- o You can read and filter DXF drawings targeted and controlled, in the option 'CAD Import'.







Click the icon to open a dialog with information 'About' the program, and a link to IBE Software GmbH's website.



Info dialog for AV32. The link leads to IBE Software GmbH's homepage; we look forward to your visit.

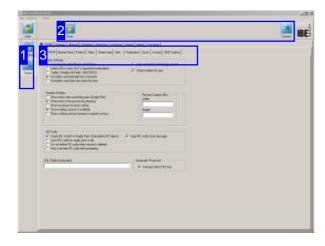
The software is dongle-protected. The software checks for a dongle with sufficient access at start-up and at intervals during the session. If you wish to add options or purchase a license extension, this can be done using IBE's licensing program. There is more information on adding premissions to dongles in the Individual Settings chapter.





Global Settings

Program Settings.



AV32 can be adjusted to your operating environment and individual requirements on individual and global bases.

This screen allows you to make general global settings. You must be accessing the software exclusively to make changes to global settings.

Settings which should apply globally are made in this screen, accessed by clicking [Options], [Global Options]. All users on the network who work with this software will be affected, receiving the same basic settings.

The most important and necessary settings relating to production can be grouped as follows:

- 1. Machines
- 2. Post-processors
- 3. Material Groups

You will find an overview of further settings in the 'General Settings'.



The navigation panel gives general navigation control of the program's forms.

- o Use the top button to access the individual settings.
- o The 'Global' button always returns to here, the Global Settings screen.





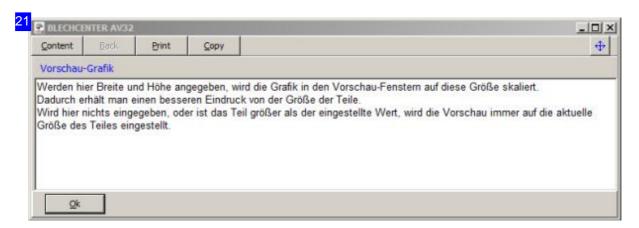
The left button 'Save' saves the current settings for use now and next time. These settings will take effect again at next time you call the program.





The context display helps you to work with each of the individual forms. First click the right-hand button 'Context' and then the part of the current form you would like to know more about. If a description is available, it will be called in its own dialog.

The context help often gives information about the expected range or format of an entry.



If a description is available, it will often give information about the expected data range and format of an entry.

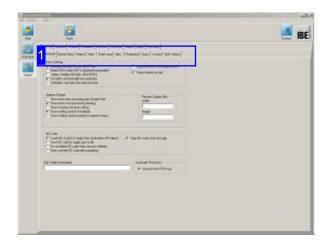


Tabs corresponding to the program's various themes are shown in the top tab panel, with context-sensitive tabs below where you can make each setting.





General Settings



This chapter lists the most important tabs from the 'Global Settings' to help you find the relevant help item. The setting options for each form are shown in the context help.

The following list describes the cascading sequence of the program's settings tabs. You can use the index or contents lists to link directly to a relevant help page.

- o 'Config'
- o |--'General'
- o |--'Data'
- o |--|--'Customer'
- o |--|--'Part'
- o |--|--'Part History'
- o |--|--'Article'
- o |--|--'Cost Center'
- o |--|--'Certificate'
- o |--'Project'
- o |--'Order'
- o |--'Sheet store'

Fortsetzung 'Config'

- o |--'Nesting'
- o |--|--'Nesting'
- o |--|--'Standard-Platten'
- o |--|--'Overview'
- o |--|--'Batch'
- o |--'Production'
- o |--'Store'
- o |--'BDE-Station'
- o 'User'
- o 'Material'
- o 'Estimates'
- o 'Maschinen'
- o |--'Machines'
- o I--'Data'
- o |--'Tools'
- o |--'Technology/Postproc.'
- o |--'Support'
- o |--'Nesting'
- o |--|--'Values'
- o |--|--'Batch'
- o |--'Estimates'
- o |--'Speziell'
- o |--|--'Disposal'
- o |--|--'Stations'
- o 'ncServer'
- o 'Search'
- o |--'Matching Data Entries'
- o |--'Set'
- o 'Import'
- o 'Reader'

Note that the tabs may not be available or may have other representations depending on the integrated (optional) technology modules.

Some topics include only the setting 'Registered file'; in this case you will be redirected to the 'General settings for files'.



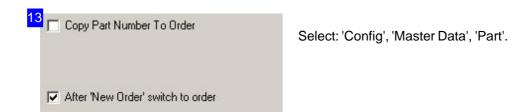




To make the settings in the various themes, select the tabs as shown below. The subsequent tabs are context sensitive, and will appear when the previous one is selected.

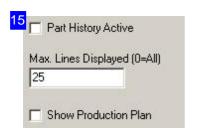
Basic Settings	
Calculate Quantity/Reserved Of Parts	 Approval when technology present
Delete ZEW when DXF is imported/manipulated	Sheet number for part
Tables: Initialize All Fields (Not ZERO)	3 Street number for part
Set editor automatically from username	
Schedule: next date also enter the time	
Graphic Display	
Show tools when punching parts (Single Part)	Preview Graphic Min.
Show tools in the processing drawing	Width
Show traverses for laser cutting	
Show cutting contour if available	Height
Show cutting contour instead of original contour	Troight
NC Code ✓ Create NC Code For Single Parts (Calculation Of Values) ✓ Save NC code for single parts to file ✓ Do not delete NC code when record is deleted. ✓ Only overwrite NC code after prompting	Copy NC code: Error message
QL Folder (Automatic)	Automatic Processes

Select: 'Config', 'General'.

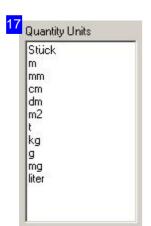








Select: 'Config', 'Master Data', 'Part History'.



Select: 'Config', 'Master Data', 'Article'.



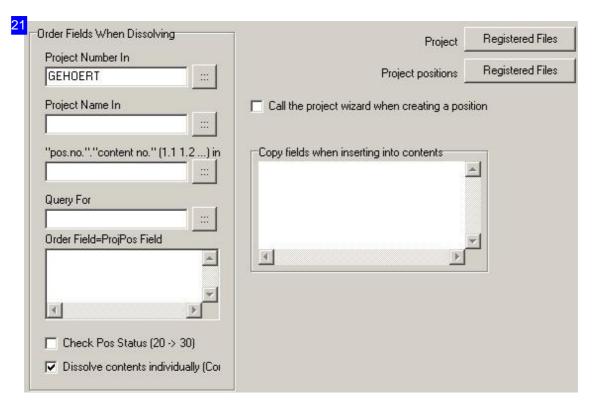
Select: 'Config', 'Master Data', 'Cost Center'

The 'Registered file' button exists in many fields of work. It opens the respective dialogue 'Register files', to register the types of files for further processing in the system.

Particular types of files for AV32 are 'PrintAutoPdf' 'PostAutoPdf' und 'BDEStationAutoPdf'. Are these file types registered, they trigger certain functions in the work process.

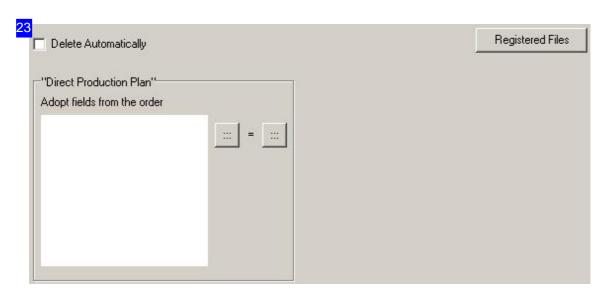






Select: 'Config', 'Project'.

When inserting field contents can be transferred to the project content. The field names must be given in the form of 'Project contents field name=Part field name' in this case.



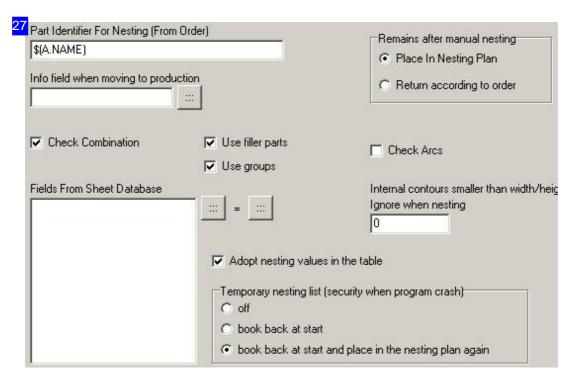
Select: 'Config', 'Order'.







Select: 'Config', 'Sheet store'.



Select: 'Config', 'Nesting', 'Nesting'.

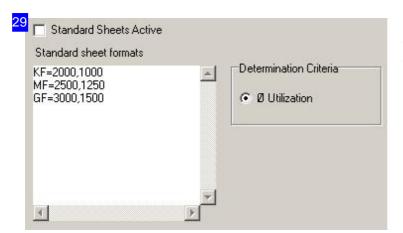
Orders and sheets are read back into the nesting plan at program start after a program crash and can then be nested again or be pushed back into the tables.

If it is your intention to use filler parts or groups, mark the appropriate checkboxes to release these features.

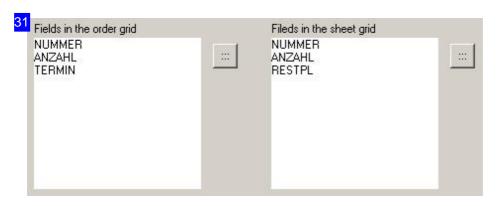
Mark the checkbox here to unlock the required functions to use filler parts or groups in the program.







Select: 'Config', 'Nesting', 'Standard Sheets'.



Select: 'Config', 'Nesting', 'Overview'.

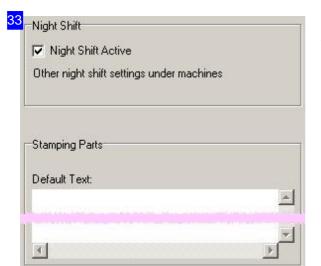
Here, the fields in the order- and in the plate grid are listed. Click on the button next to the field list for the desired grid, a dialog for the assignment opens.

Select 'Config', 'Nesting', 'Batch'.

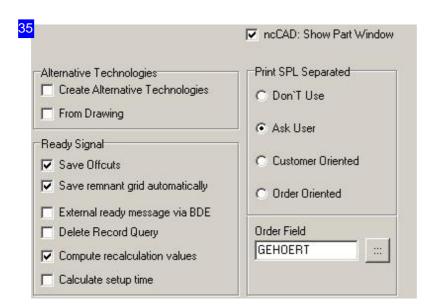
You can build and maintain a batch file for all machines, that has no batch file its own. You can also build a batch file at [Machine][Nesting][Batch] for any machine to optimize your nesting results.







Select: 'Config', 'Production' - here left side -



Select: 'Config', 'Production' - here right side -



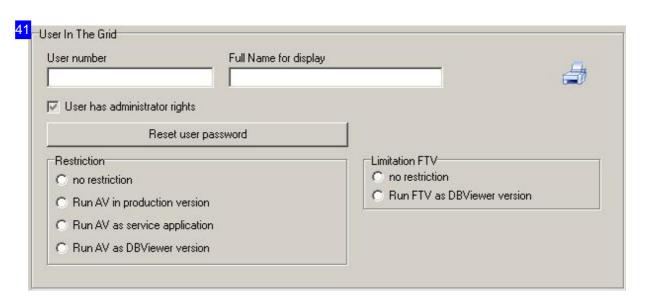
Select: 'Config', 'Store'.







Select: 'Editor' - framework 'General Admininistrator Options' - to framework 'User in the grid'.



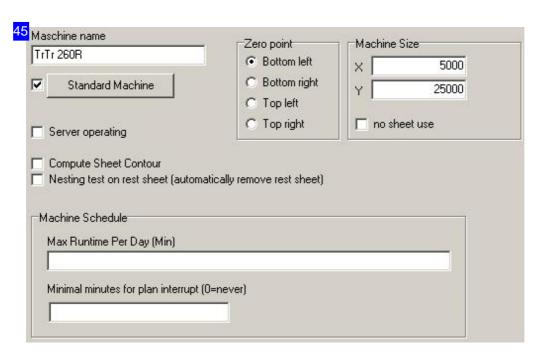
Select: 'Editor' - framework 'User in the grid' (Selection from the table of editors) -





art Identifier For Estimates Nesting (From Part)	
Complete calculation automatically	
Sales Texts Show Sales Texts	
E(KAL.MACHINE.VKTEXT) E(KAL.PLGCALC.VKTEXT)	<u> </u>

Select: 'Estimates'.



Select: 'Machines', 'Machine'.

Machine Size: Equivalent to that in night mode and specifies the size of the working area of a machine.

No sheet use: When this option is selected, no sheets from the sheet stock are used for nesting. It is then nested in a size corresponding to the machine size. This option is intended for machines on which





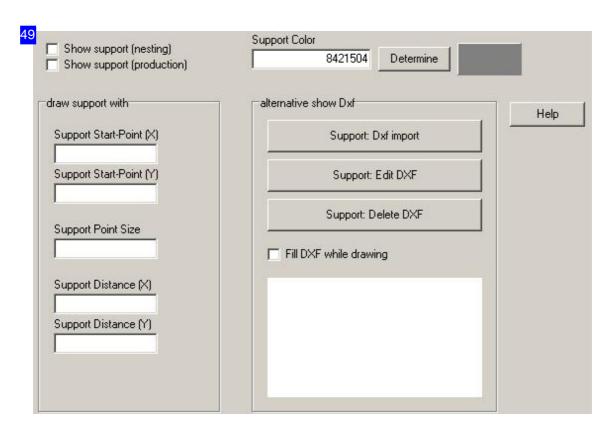
the parts are not cut, but are only nested to refine them e.g. when covering with foil.

No technology use: The relationship between machine, material and sheet thickness is broken with this selection. You can then select the material, even if no sheet thicknesses is available for the material group.

Server operating (optional): A machine is used in the server mode with his selection. If an AV32-workstation is set to server mode (see Server mode), only machines are considered for which this option is turned on.



Select: 'Machines', 'Tools'.



Select: 'Machines', 'Supports'.

You can define support points for a machine, on which the parts rest. The support plan can be read and





edited as DXF file. Select the context help for more information about the support points.

Preferred nesting method C True-shape C Rectangle C Parquet C Manual (ncCAD) C Manual	Use only this layer for DXF nesting ✓ Can process mirrored parts ✓ Nest Only Laser Paths ☐ automatic part stamping	Mark C none Part Index Nest Additional index Service Sequential no. Filename Denotation
1	orch offset Rounding Torch Offset (0.0, 300 1 1 match (empty = MATERIAL,BLECHDICKE)	0.01, 0.1 1.0)
1	300 1	0.01, 0.1 1.0)
1	300 1	0.01, 0.1 1.0)

Select: 'Machines', 'Nesting' (left side).

You can specify a factor for the font height in the field 'marking' for labeling the parts.

You can also specify for a machine, that parts become automatically the appropriate stamp text when a nesting plan includes text boxes. Mark the checkbox 'automatic parts stamping'.

Stamping parts can only be done by calling the stamping-dialog in the manufacturing process at a later time.

53 Workpie	ece clamp dead zone	Select 'M
	Left	- C01000 W
	Right	
1	Тор	
	Bottom	

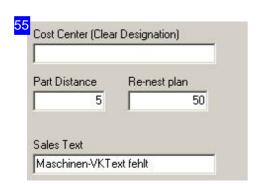
Select 'Machines', 'Nesting' (right side).





Select 'Machines', 'Nesting', 'Batch'.

You can build a batch file for any machine to optimize your nesting results (see [Config][Nesting][Batch]).



Select: 'Machines', 'Estimates'.



Select: 'Machines', 'Special', 'Disposal'.



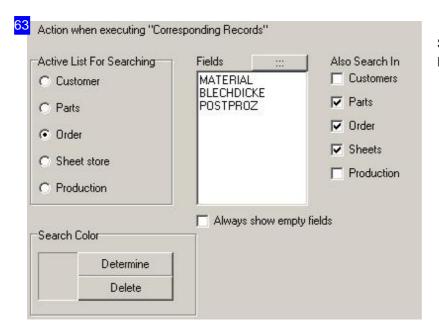
Select: 'Machines', 'Special', 'Stations'.



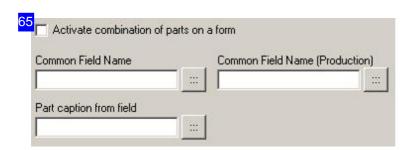
Select: 'ncServer'.







Select: 'Search', 'Matching Data Entries'.



Select: 'Search', 'Combination'.



Select: 'Import' frame 'Import record from file' - Configurations can be saved for CSV-Import of recurring files with the same structure. These includes the settings and the field mappings. Different configurations of CSV imports can be used repeatedly in a simple way by selecting the allocation



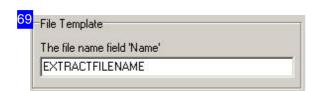


pattern.

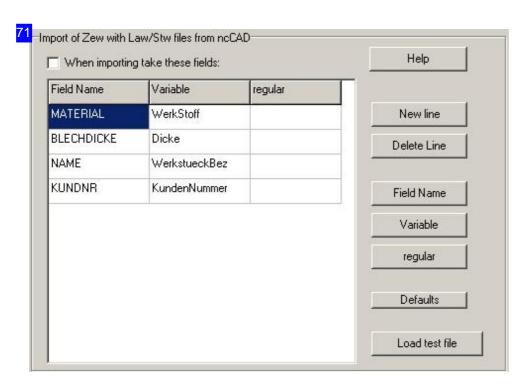
The listing in the field names list is editable. The definitions by a plurality of control codes can be formatted appropriately, because CSV exports from the different programs do not keep the given standards and interpret the fields individual. Exports of different operating systems can also have different line endings.

Click on the 'Help' button at the top right, a help dialog opens in which the control characters are explicitly listed and explained.

Note: If additional 'Data fields occupy from DXF file' is active, the fields identified here are overwritten.



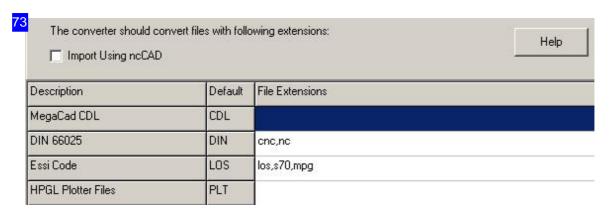
Select: 'Import' frame 'File Template' -



Select 'Import', frame 'Import from .. ncCAD' -





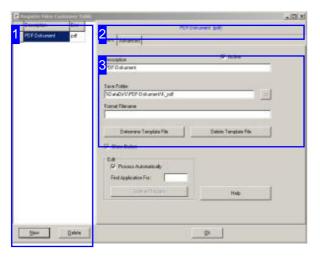


Select: 'Converter'.





Manage files.

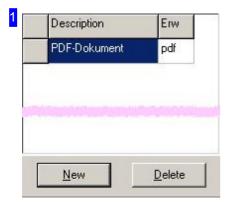


For processing, all files must be registered in the appropriate forms, so that they can be offered for selection. If this is possible, a button 'Registered file' is always offered in the appropriate form.

You can define and maintain all files you want to offer for work in this dialog. All files which are held in the system are displayed in the list [1].

Click on the 'Help' button at the bottom right [4] for further information.

Select 'Registered file' to maintain registered files in the appropriate form.



This table shows all file types which are defined and registered in the system. You can create new entries or delete selected entries with the buttons below the table.

Select an entry in the list for editing.

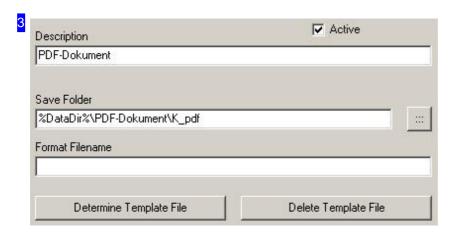




Manage file	-	clcon
save how as a single file in its own folder	Save location import extern Query	Type • automatically • Selection
Additional import exten file	sion on single	PoF
A J.J.C		The second
	aphics area ✓ Edit button ✓ Template button	History entrys I Insert
☐ Viewer Tab	▼ Edit button	

Determine the rules for the management and display of project work under the tab 'Advanced'.

Certain file types can be displayed as an additional tab under the graphic window in parts, order and project form, for everything that can be displayed from an internet-explorer like text, JPEG, BMP or HTML. Further viewer DLLs can appear here for other types of files. In addition, an 'Edit' button and a 'Template' button will appear in order to maintain the appropriate file. You can activate this under 'Additional tab in the graphics area' at the respective form.



Enter the identifier for the file type in the field 'Description'.

You specify the folder for storing the files in the 'Save folder'. Here, the path is determined by the

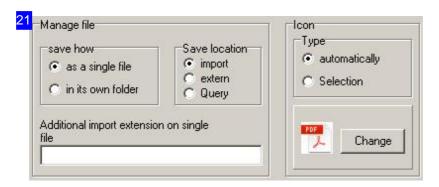




variable %DataDir%. This folder is automatically set by the program and should only be changed by administrators. Click on the selection to the right of the input field, a dialog opens and shows the memory location. To ensure a secure data storage, select only folder here that are in the file structure of the program.

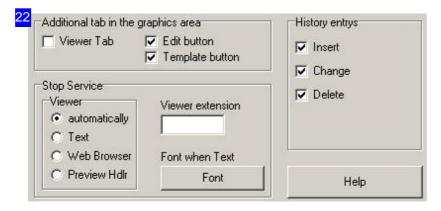
You can enter a formatted filename that matches the format rules under 'Format Filename'. If there is no entry, a standardized 8-character file name is formed with the given extension. These changes should also be made only by administrators.

You can specify a file to be used as a 'default' for an application when it needs a start file with a click on 'Determine Template File'. This can be very useful for text processing programs in order to obtain a uniform appearance. Use the 'Help' button for more information.



Specify another extension to be imported with in the adoption of a single file in the frame 'Manage File'.

You designate an icon for an application on the right side. With 'automatically', you specify that the symbol is selected by the system, depending on the individual application. Would you like to use a particular symbol, take 'Selection'. The use then depends on the format in which the files are used.



You can select a view in the 'Viewer' frame for the file display. If a file can not be displayed, the system looks for an appropriate image. Enter the extension of the image in the 'Viewer extension' field if an image is present. You can define a font style in the dialog for the presentation in text form, click 'Font when Text'.

You can make a choice, when for a file that leads up a history list, this should also be applied, in the right frame. Here, you specify the conditions under which a history entry is made.





nter File Extens	ion (e.g. 'D'	OC')		
hese entries ca	nnot be ch	anged subs	equently!	
Enter in	the list			

Enter a distinctive identifier in the upper field and the corresponding extension in the lower field in order to generate a new entry. You can also select a predefined type with the lower button. Note that the entries can not be changed later. Press on 'Enter in the list'.

If you create an object named 'PrintAutoPDF', a PDF file will be written automatically every time you print.

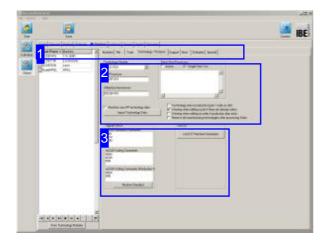
'PostBus Pdf': This file is generated from the corresponding form each time you save the record. This can be applied to all tables.

'BDEStationAutoPdf': These can only be used in production. If you create a production schedule and if you change the number of parts, a PDF file is automatically written that contains a label for each part. These can be printed out as needed and put on the parts.





Machine and Post-processor Settings.



Machines and their corresponding post-processors and the material groups allocated to them are interdependent. These relationships are given full consideration in AV32. You must allocate material groups and thickness to your machines, to avoid errors during part production. The material groups have properties relating to the technical possibilities of each material. Correct use of this feature protects your machines against damage or destruction.

This screen allows you to make settings for machines and post-processors. All users working with the software on your network will be affected by changes made here, so all users' settings will be correct.

You can import existing technology data from CSV files.

You can also select your technology module in this screen. Options are cncCUT, DXF or ncCAD. The corresponding DLLs must be loaded and enabled in the dongle. If a DLL is not available, the corresponding module is not displayed. You can examine your current program versions and download missing programs with the IBE dongle program at [Options] [Download IBE programs and updates]. Assign a technology module to a machine from the list on the left.

Then you can assign a technology module to a machine from the list on the left.



To make settings for your machines and post-processors, select 'Machines' at the top and 'Post-pr.' at the bottom.

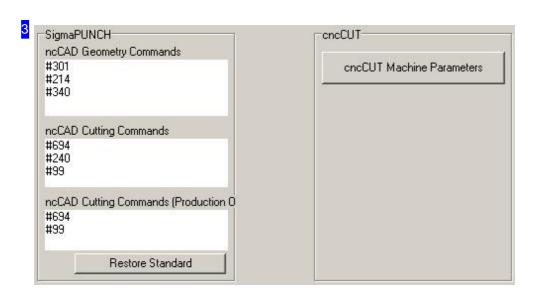




Technology Module	Batch Post-Processors ☐ Active Single Parts Too
Post-Processor NCDEF419	
Utilized post-processor NCDEF419	
Machine uses PP technology data Import Technology Data	☐ Technology only in production (part / order as dxf) ☐ Warning when editing a part if there are already orders ☐ Warning when editing an order if production plan exists

The 'Technology Module' selection list allows you to select an optional technology module. The selected module must be installed on your system and released in your dongle. The module actually used is shown here.

The bottom button opens a dialog for importing technoogy data from a CSV file. More on that in the coming chapter 'Importing CSV Files'.



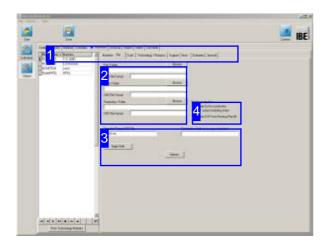
The 'CUT CNC machine parameters 'button above right leads you to a workspace where you can make the settings for the machine using the technology module. You can use 'cncCUT.DLL' as a technology module that you can download from the internet. The use of the module must be enabled in the dongle. More details in the coming chapter 'Machine Settings'.

The frames left show you standard commands for ncCAD.





Saving Programs and the Night Shift



This screen allows you to select a dedicated folder for your CNC program data.

To process programs on a night shift, lay the foundations for building your complete programs here. The Night Shift feature must be activated in the main settings!

CNC programs are generated for the production of parts and automatically bundled into the work processes. If you wish to save individual programs to specific folders, e.g. to keep programs organized to machines, then you can do that here.

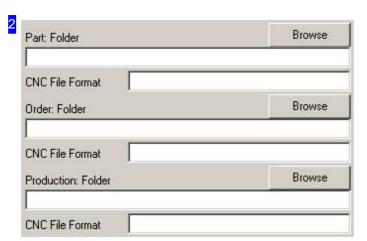
Multiple CNC programs can also be joined to make a single code file which can be worked by your night shift.



Select 'Machines' in the top tab panel and 'File' in the bottom panel to access the settings for machines and post-processors.







If these fields are empty then CNC programs will automatically be saved in the process related subfolder.

To organize differently using folders, set the folder locations here. More detailed information is available through the context help.

Important Note

These folders must exist before the program will work correctly!



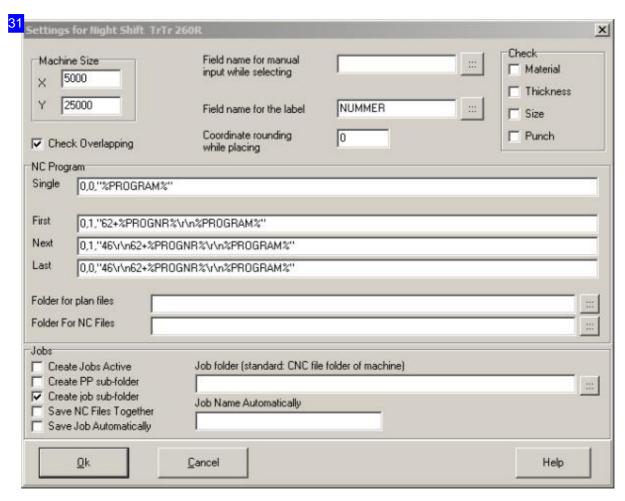
The input field allows you to set the naming format for your CNC programs. More details are available in the context help.

The 'Night Shift' button opens a dialog for setting the rules about creating a night shift program.

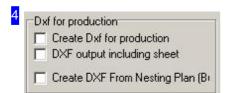
'Options' opens a menu to save or load all definitions for a machine. The complete definitions are saved in a file named PPNAME.MOB. The menu item 'Check cost center connections of all machines' allows you to check that all cost center links are correct. The context help should prove useful.







A series of production plans can be combined into a night shift program, which can then be operated by the night shift. You can create a shared CNC program. More detailed information can be obtained by clicking 'Help' at the bottom right.



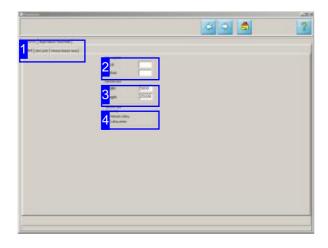
If 'Dxf' is used as technology module, a DXF file can be issued with the parts and the sheet. Select the checkboxes or give the decision to the production, by activating a button in the form. Select the lower checkbox in case. This function depends on the used technology module.





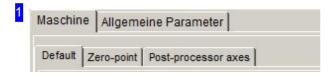
Machine Settings

Default Settings.



The adjacent frames allow settings to be made for the display of helpful controls in the preview windows.

This screen contains various additional settings for the technology module.



Tabs for the machine settings:

- Default
- o Null-point
- o Post-processor axes



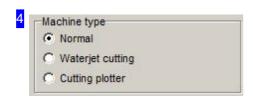
Enter the maximum speeds for the machine's cutting and traverse paths.







Enter the dimensions of your machine's cutting table in mm here. The cutting table is shown as a colored underlay in previews and the technology module's zoom window.

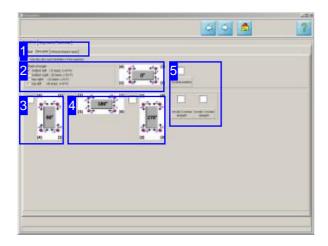


The machine type selection made here activates coresponding tabs in the technology module.





Null-point



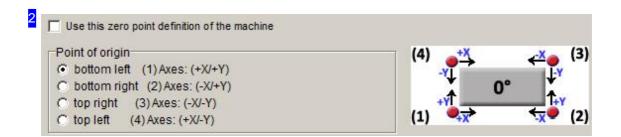
You must set a null-point as start point in order to create your nesting plan. The machines can sometimes offer a different null point, which AV32 can adapt to.

The null point defines a machine's reference point.



Tabs for the machine settings:

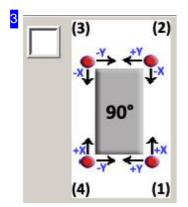
- Default
- Null-point
- o Post-processor axes



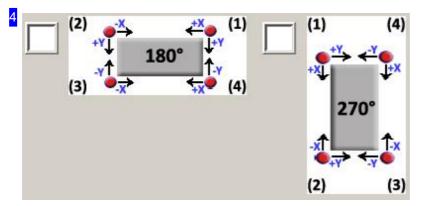




Select the position of your machine's null point and mark the checbox to confirm.



Sheets and drawings are generally laid out in landscape orientation. You can turn the display by 90° (ccw) about the null point. Mark the checkbox if you would like to do so.



As shown in [3], the display of the plate can turn by 180° or 270°.

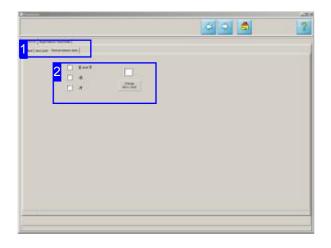


Possible settings for axes and mirroring.





Processor Axes.



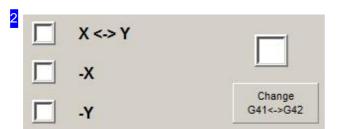
The X-axis is generally defined as the 'long side' and the Y-axis as the 'short side' of the machine table. Dependent on the machine, how the sheet is laid up and the post-processor, it can be necessary to swap the axes.

The processor axes set the running direction of the cutting tool when generating the NC code.



Tabs for the machine settings:

- o Defaults
- Null-point
- o Processor axes



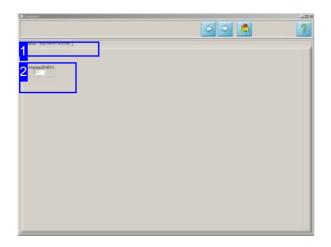
Mark the corresponding box to how CNC code outputs in X and Y should be interpreted. The top checkbox swaps the axes and the next two invert each axis.

Change the cutting direction on the right.





General

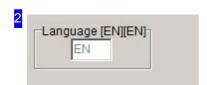


You select the language for the technology module in this window.

The machine settingss are part of the technology module and require a preset for the language.



Tab 'General settings':

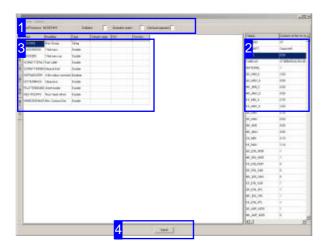


Enter an identifier for the language in which the machine settings should be display: DE for German and EN for English.





Importing Technology Data From a CSV File.



After installing AV32, you can import existing technology values from a CSV file. To do this, AV32 will require the optional library file 'TECHIMP.dll' to be installed in the main program directory.

You can import technology data in the 'Post-pr.' tab, accessed under the 'Machines' tab in the 'Global Settings' window. Select the relevant post-processor before importing any data. Click 'Technology Data - Import' to open a dialog for opening the CSV file and allocate the data to AV32 's corresponding input fields.

Transfer data from the CSV file by dragging and dropping the names in 'Column' from the table on the right [2] to the corresponding fields under 'CSV' to the left [3]. Assigning these values correctly now allows the computer to import the rest of the data automatically - click 'Import' at the bottom [4] to begin the transfer.

The complete process of the assignment can be stored in a mapping file (.ZUO). Select the menu item [File][Assignment][Save] to store the individual assignments and allocations to the CSV file after completition. This gives you a basis to obtain the same settings when reinstalling a post processor, without having to repeat the complete process. When loading a mapping file, the linked CSV file is automatically loaded and the process of mapping is automatically completed. Make sure that the path to the CSV file in the mapping file is correct. With an import of both files from another system, you might need to adjust the linkage with a text editor.



First enter the formating characters used when converting, and then import the CSV file using the menu item 'File'.

You can export the current settings of the postprocessor in a CSV file via the menu item 'Options'.





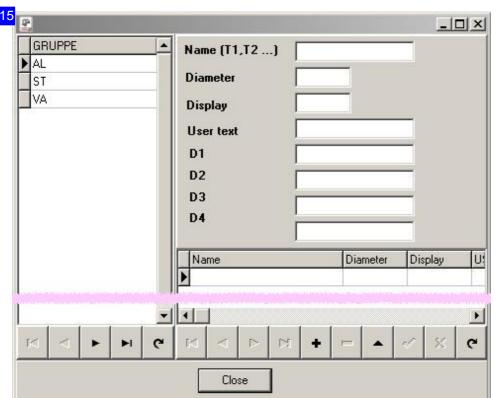
If exists a CSV file and also a mapping file, the data transfer can be done using the mapping file. Select the menu item 'Assignment'.



You can import a CSV file via the 'File' menu. Make sure that the separators are set correctly for the data transfer.



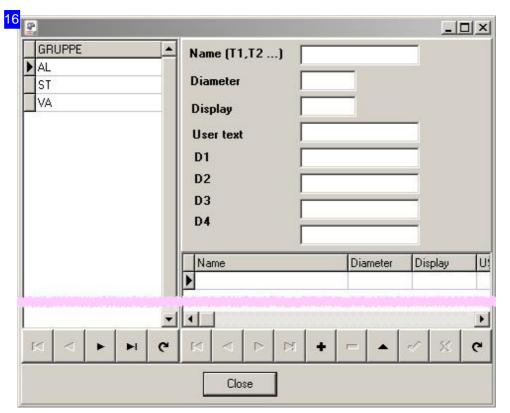
The 'Tool' menu allows you entering presets for drilling and tapping.



Here you can allocate the T-numbers different values for drilling for different materials.







Here you can allocate the T-numbers different values for tapping for different materials.



You can export the current settings of the postprocessor in a CSV file via the 'Options' menu. It is also written a mapping file automatically.

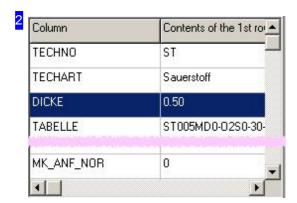


You can import a mapping file via the 'assignment' menu. The linked CSV file is also read with it and the assignment of the data to the table fields is made automatically.

Choose 'Save' to preserve the process after manual assignment for later use. The link is then made to the currently loaded CSV file!







Here is a list of all data from the file. Mark a field and drag-drop it on the field with the relevant description [3].

Field	Headline	Туре	Default value	CSV	Service
TECHNO	Mat. Group	String			
BLECHDICKE	Thickness	Double			
DICKEBIS	Thickness up	Double			
SCHNITTSPALT	Kerf width	Double			
SCHNITTINNEN	Internal Kerf	Double			
MITRADKORR	With radius correction	Boolean			
GITTERMASS	Clearance	Double			
PLATTENRAND	sheet border	Double			
RESTPLOFFS	Rest sheet offset	Double			
MINKONTMASS	Min. Contour Dim.	Double			

The technology data for the technology module are listed here. Drag and drop the CSV file's values [2] to the corresponding table titles.

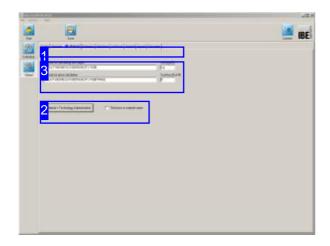


Once you have corrected the relevant allocations from the CSV file [2] to the data list [3], click 'Import' to start the transfer.





Materials Management and Settings in the Technology Module.



To access materials management, click 'Material/Technology Management' [2] under the 'Material' tab [1]. This brings you to a screen where you can make entries and settings for materials and technologies.

This screen also contains the formulae for calculating prices and weights. More detailed information on that can be found in the context help.

Materials management is a major part of what AV32. does. The materials management screen contains material groups with properties relevant for price calculations and technologies. Enter material groups here. Make the required settings, and enter the relevant values.



Select the 'Material' tab to access materials management.



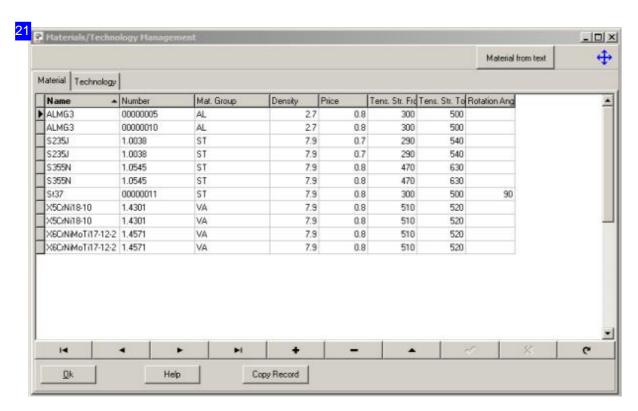
To access materials management, click 'Material/Technology Management' [2] under the 'Material' tab [1]. This brings you to a screen where you can make entries and settings for materials and technologies.





Formula for calculating the weight	Unit (kg/lb)
AREA*THICKNESS/1000*DENSITY/1000	kg
Formula for price calculation	Currency (Eur/\$
AREA*THICKNESS/1000*DENSITY/1000*PRICE	€

The formulae shown here work with variables which stem from all areas of the program. More detailed information on the root of each variable can be obtained by clicking the context help.



A basic requirement for getting the most out of AV32 is the correct maintenance of your materials and material groups database. The data you enter here is used in the parts and orders forms.

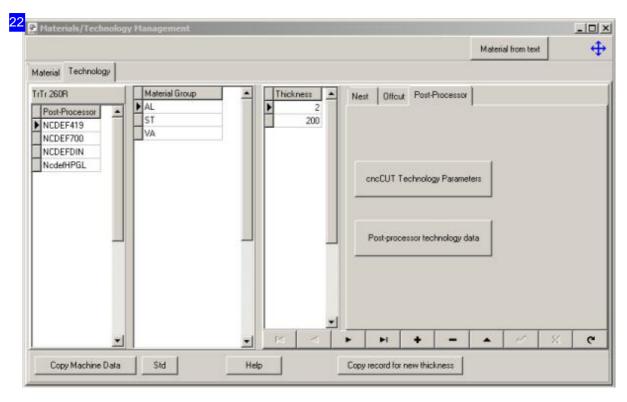
You can group materials together for your post-processors to access them. The post-processors can then assign technology data to the materials by group.

More detailed information on the table's individual columns can be found by clicking the 'Help' button under the table. You will also find explanations regarding thickness, density and price and how they relate calculating your parts for price estimates.

Click on 'material from text' upper right and a dialog opens, where you can import the material name from a text input or from text files into the database. These material names can be directly assigned to a material group.



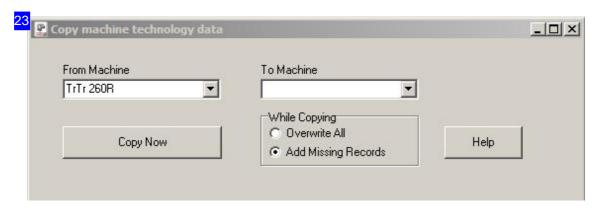




The 'Technonolgy Management' field allows you to assign various technology values to the material groups and sheet thicknesses in your post-processor.

You can make settings for nesting, offcut sheets and the post-processor here. For more detailed information, click the 'Help' button under the table.

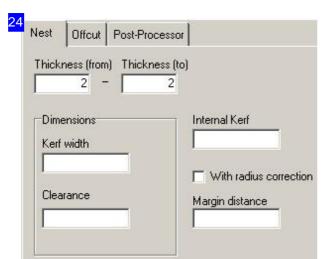
Click the button at the bottom left if you wish to transfer one machine's data to another. A dialog will open with options for copying some or all of the first machine's data.



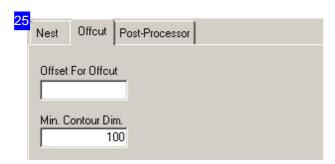
The 'Copy Machine Data' dialog allows you to copy all or some of one machine's data onto another. More detailed information on the individual settings is available by clicking the 'Help' button to the right.







Enter the values for the kerf width, edge distance and grid distance, which you want to assign to the sheet. Select the checkbox if you want to give radius compensation to the sheet.



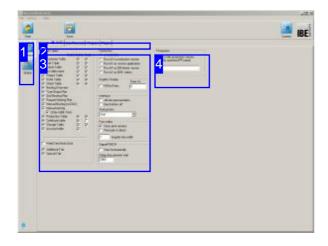
Enter the values for offset and the minimum required contour dimension that are valid for an offcut.





Individual Settings

Configuring Your Application.



You can make settings relating to an invdividual workstation under [Options],[Individual Settings]. Set the location of your license dongle and which windows you will require access to.

IBE uses both traditional hardlocks and a more modern type of USB dongle license protection which allows maintenance to be carried out via the internet and licenses to be transfered to new hardware.

AV32 can be tailored individually and globally to your operating system and requirements. This screen allows you to make settings for individual workstations.



The navigation panel gives general navigation control of the program's forms.

- o The 'Individual' button gives access to the individual user settings.
- o The bottom button returns to the Global Settings screen.



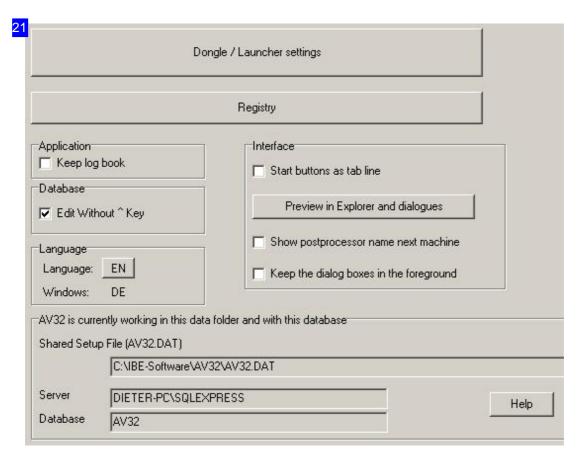
Tabs corresponding to the program's various themes are shown in the top tab panel.





- o 'General'
- o 'AV32'
- o 'Operator/Password'
- o 'Programs'
- o 'Plugins'

Settings for a personal workstation can be found under the 'AV32' [3] tab. For dongle management and license activation, click 'General'.



You make the dongle administrative and program launcher settings in a separate dialog. Press the top button, the dialog is opened with the 'license window'.

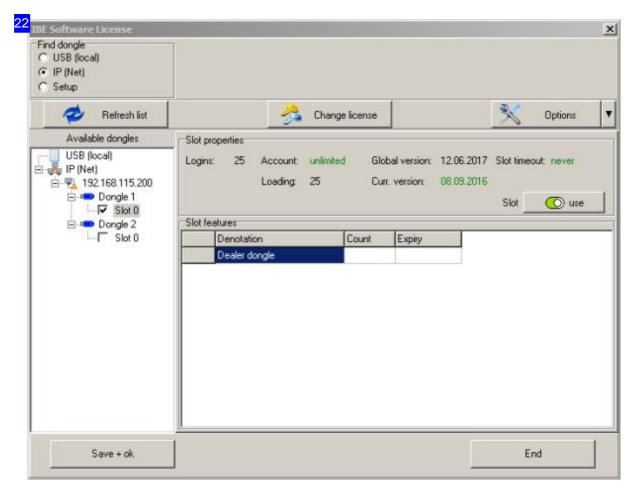
All individual settings/display settings are stored in a section of the Windows registry. Click on 'Registry' the dialog is opened to edit the 'application record'.

The window for the file preview (File Explorer) can be configured to as part of 'Interface'. This requires that the library 'ibe_PrvHdlr.dll' is available on the computer, that a preview of the different file formats in the File Explorer is possible. The old Explorer window is then replaced by a new one that looks like the Windows®-Explorer.

Click on the button 'Preview in Explorer and dialogues' opens a dialog in which the different file formats can be registered.







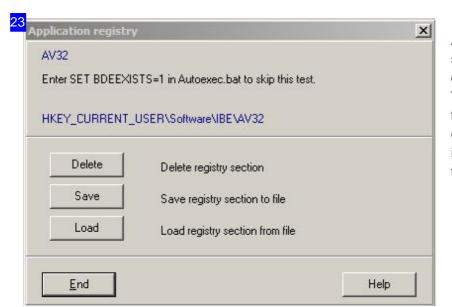
The license dongle can be attached to your individual workstation or to the network server. If you have an IBE dongle the license is activated with a license file which can be downloaded from the internet. Click 'Check Internet' and we will check and update your dongle. The license files are created individually and sequentially for each dongle. This requires the identification of your dongle. The sequence of udates must be continuously.

The license file can also be sent offline and imported to your system on a data media. Once you have the data media inserted, click 'Install License File'.

You can also authorise an extension using license codes entered into the 'Manual Input' box.

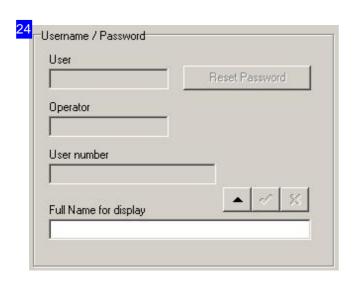






All individual settings / display settings are stored in a section of the Windows® registry.

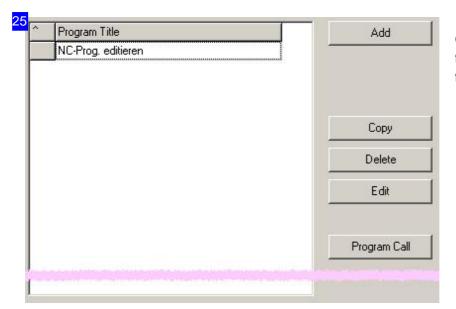
The portion can be stored in a file and loaded again on another computer. Ensure that path information are edited when these are set.



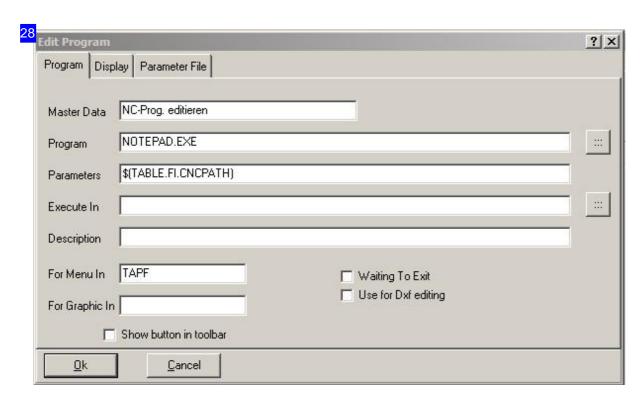
Enter the username and password, if desired.







Control of integrated programs for later use. A dialogue opens for maintenance.



All settings are made for the use of an integrated program in this dialog. You set the guidelines for the program display and the parameter file under the respective tabs.

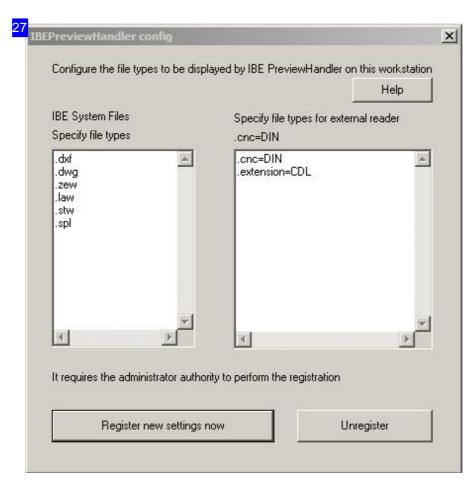




wmakdxf.dll + Mak2DXF Converter + Loaded	
vhandxf.dll + Makro vmakdxf.dll + Mak2DXF Converter vmatdrill.dll + Loaded	
wmakdxf.dll + Mak2DXF Converter + Loaded	
symatdrill.dll + Loaded	
, , , , , , , , , , , , , , , , , , ,	
avpartcreator.dll + PartCreator	
avrondeneing.dll + Mak2DXF Converter	
	ACCOMPRISE CONTRACTOR

Get informations about all plug-ins in this list and make any potential adjustments.

A plugin is started automatically on each workstation, if it is installed in a network. Here it can be switched off individually; mark the checkbox at the bottom right. The system has to be restarted after a change to take effect.

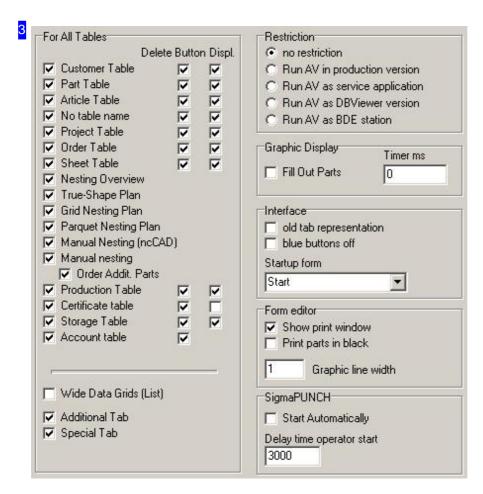


The file formats .dwg and .dxf can be displayed in addition to the IBE file formats .zew, .law, .stl and

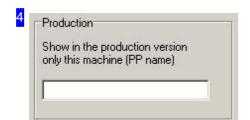




.spl. Other formats can be activated, the corresponding reader must then be present on the computer. Organize in the right list the appropriate file extension ('extension') format to eg 'cnc' to activate the preview. If the same file extension should be read with different programs, a string must be specified and exist in the file. The string is indicated by a vertical bar: .cnc=TPF|#MACHTYP\$.cnc=DIN Click on the button 'Register new settings now' to register the preview programs. Registration takes place in the registry, making it universal and also available for the preview in the System Explorer window.



Set the checkboxes corresponding to all windows you would like to be able to use at your workstation. If you require any further information on the individual settings, use the context help system. Click the 'Context' button first, then the setting you wish to find out more about. If a description is available it will pop up in a dialog. The context help often gives tips about the expected format of inputs in a form.

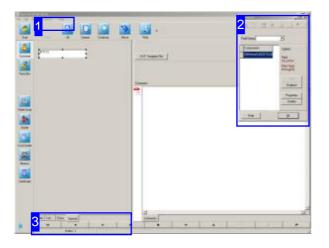


You have to enter the post-processor if production-version is used. Only data-sets for this machine will appear at production.





Show database fields individually in forms



You can see the contents of database fields in the forms under the conditions specified by the program, and adjusted them freely in the database maintenance. The adaptation of the forms takes place exclusively via the Design Wizard. With it you can place additional input or display fields for certain database fields in predefined areas in the form. Also cross-references, that is, fields from other tables, can be displayed.

If you want to create your own new fields in the data table it must be done before calling the Design Wizard.

- Click 'Options', 'Database Properties'. A dialog opens where you can select 'Table Properties' with a click on the button right in the header.
- Enter the physical fields with the appropriate data types.

Adapt the forms with the Design Wizard. Select the menu item [Options][Layout]; a dialog opens where you can adapt the data fields onto the form.

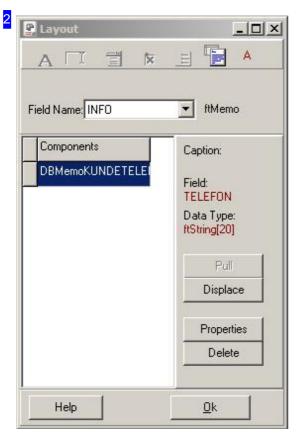
Only physically existing fields in the database can be used in the draft .



You can start the Design Wizard under the menu item 'Options', 'Layout' in the various forms.







To bring a new field to a form:

- Select a field name from the list. Form elements are activated with the associated field name in the header.
- Select a form element; the element will be displayed with an internal name in the list of components. This name can not be changed and is used only for identification while designing.
- Select a component from the list. If the element is already included in the form, it is marked and the button 'Displace' will be enabled, which allows you to remove the element.

If the element is not yet available, the button 'Pull' is activated. Press the button and drag it while pressing the MT to the desired location on the form. Possible locations are indicated by the cursor. You get a larger field for location on the tab 'Special'.

An element can be moved with the mouse in the form and changed in size with the markings. Select 'Properties' for exact placement.

The order of elements in the list can be sorted for the control of the elements with <Tab>. Drag the gray box next to the entry with the mouse to the desired list position.

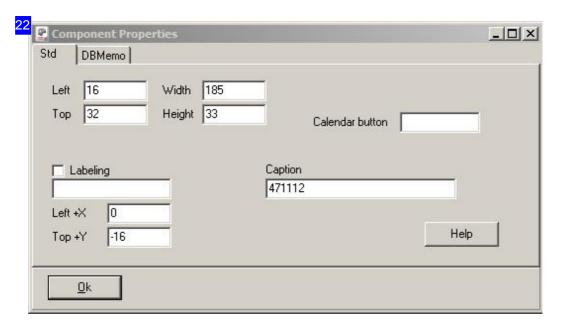


The possible field definitions for the database fields are available for selection in the header. The symbols are activated according to the selection and mean from the left:

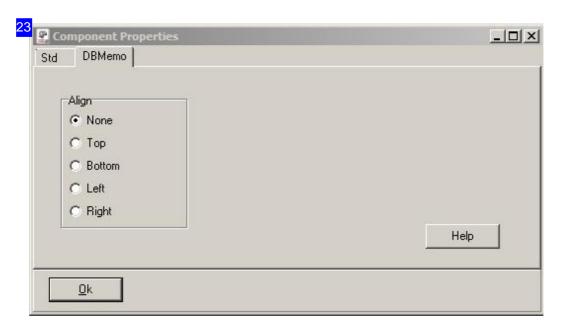
- o Label: Allows you to display the contents of the field as plain text. A change is not possible.
- o Edit box: allows you to display the contents of the field in a text field, it can be changed.
- ComboBox: Allows you to select the contents of the field out of a box. You can define on 'Properties'
 what texts appear in the box.
- o CheckBox: You can show the content of boolean (yes/no) fields for the selection.
- Radio Group: Allows you to select the contents of the field by clicking the radio buttons. You define the labeling of the buttons and the actual value in the data field on 'Properties'.
- o Text field: Allows you to select the contents of memo (text) fields.
- o Label Cross Reference: Allows you to view the contents of data fields from another data table as text. The field is set for this type under 'Properties' and not elected out of the box. This works only if the current table has a relation to another table (eg customer number, part index).







You can manipulate the form elements in this dialog. You can determine the size and position of the field exactly and enter a descriptive text for the field. Mark the selection box 'Labeling' and enter a text for description. You can also attach text fields on a frame under the tab 'DBMemo'. Is a field of type 'ftDATE', you can also generate a button that always opens a dialog automatically with a calendar as an aid for entering a date. Type the caption of the button in the field 'Calendar button' and thus generate the button.



Some elements can be attached to the frame where they should be represented. In this case, select the position where the field is to be attached.







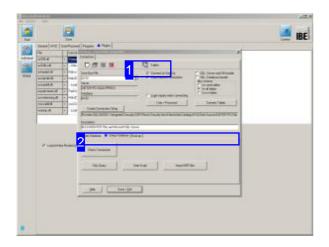
You have a large open space available under the tab 'Special' to display your individual information. This tab (special rider) must be activated in the 'Individual Settings'.





Database Settings

Backups and Restoring.



To see information about the database, click [Options], [Database properties AV32]. A dialog will open where you can see and check information about the database.

The AV32 database must be saved on an MS SQL server under the name 'AV32'. The installation of the SQL server, creation of the database and connection to the database are described in detail in the installation handbook.

A database backup should be made regularly by the administrator. Backups represent an important part of keeping your data secure. The 'SQL Server Management Studio' will help you do this, while taking all special aspects of your database into consideration. Install the program to your computer from your installation CD. More detailed information can be found in the installation handbook for AV32.

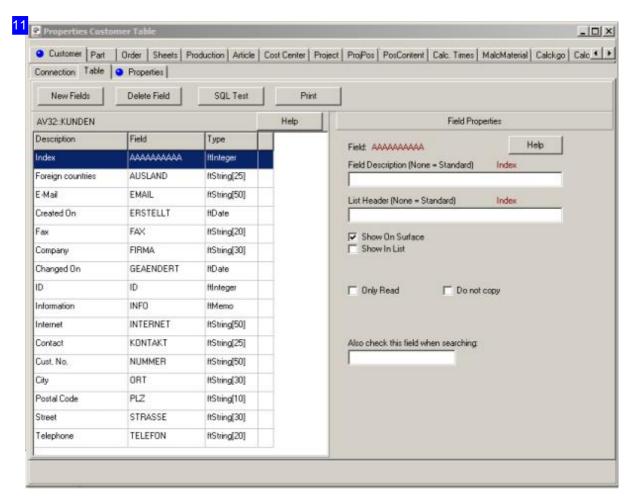
The software allows you to take manual backups as required, and/or a regular scheduled backup.



To access the database tables, click the SQL icon.







The links between the database tables can be seen in this dialog. You can select all tables in the tab panel for detailed information about the table fields and their properties.

The individual tab labels are assigned to the program's forms.

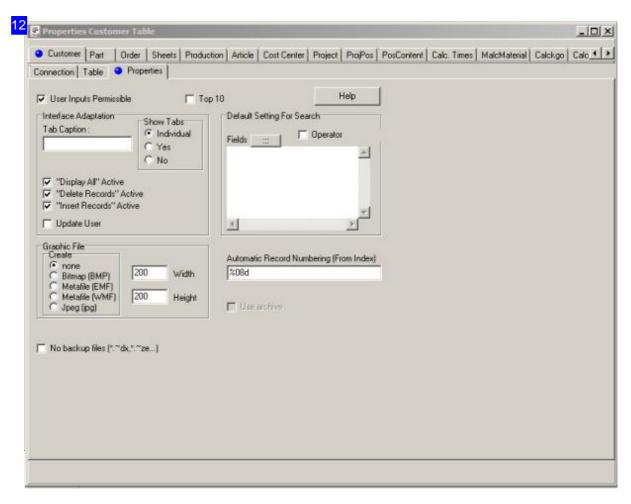
The contents of the tables' fields are linked to the contents of the fields throughout the program's forms. Any changes made here will lead to corresponding changes in the program, or that a given field will not be displayed, so be cautious when making changes.

For more details on the individual input fields, use the help button in the relevant dialog. Sometimes this operates like the context help system, sometimes like a normal help button.

You can make adjustments to the forms and preferences for dealing with the database on the tab 'Properties'.







Here you can specify in which format graphics are saved, which are made from drawings for general use. This is only possible for tables also containing drawings (.zew).

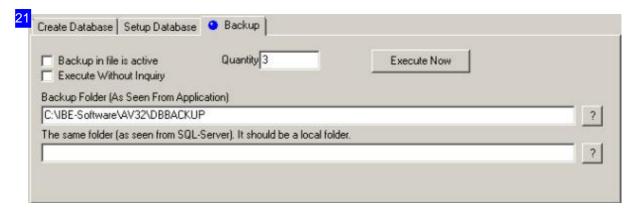
Use the Context help to obtain information about the individual input fields.



For making and and recovering to restore points, select the tabs 'Backup' and 'Create database'.







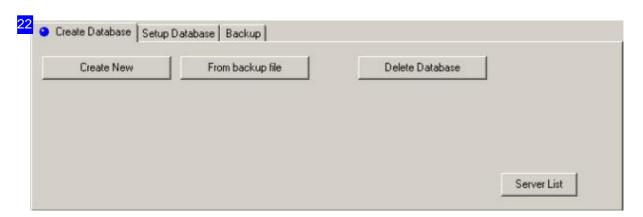
The database will be backed up to the folder designated as 'Backup Folder'. It is best to use a local folder to cut down complication - you can always save a duplicate backup to a redundant drive afterward if you wish. Even then, it is possible that the server may see this folder under a different path, e.g. due to different drive letter allocations from the server's point of view. To circumvent this problem, enter the address again as the server understands it the lower box.

If you have activated automatic database backups, a prompt dialog will appear when the last user logs out of the network. To suppress this, mark the corresponding checkbox.

Enter the number of backups you wish to hold in the 'Quantity' box. As this number is reached, the oldest entry will be overwritten.

For an automatic backup, mark the 'Backup Automatically' checkbox, and also the checkbox below if you wish to do this without prompting.

Check the address of the backup path and its server synonym, then click 'Execute Now' to confirm your settings.



The backup can be loaded back onto the database server if anything goes wrong. The first choice here is the 'SQL server management studio'.

You can also use the 'From Backup' button under 'Create Database'. Pay attention to the location of the backup; you don't want to overwrite the wrong file. To be certain, copy the backup to your local folder and then activate the restore point. When you first use the function a note will appear to choose the location. Select between the server and workstation. If you wish to use the server, you must know





the complete drive path!

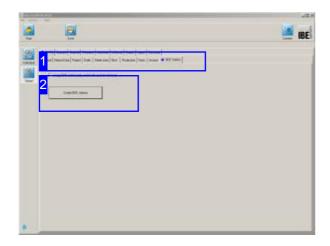
Click 'From Backup File' to restore your database.





PDA-Station

Production Data Acquisition on a Workstation.



A summary of the relevant parts can be displayed in AV32 under the folders 'order' and 'production'. There is respectively a 'PDA-station' button. To create a PDA-station, select under [Common Settings], [Config] [PDA station]. Click on 'Create PDA station' and a dialog opens where you can create and maintain the PDA stations.

PDA stations can be managed with the production data acquisition (PDA), which are involved in the work/manufacturing process in the most diverse places. Any data can be recorded at each station, for example, by a hand-held scanner. Thus, e.g. all parts can then be scanned if they carry a barcode label, at the various stations.

The look out is determined in a customized interface and must be adjusted by programming accordingly.



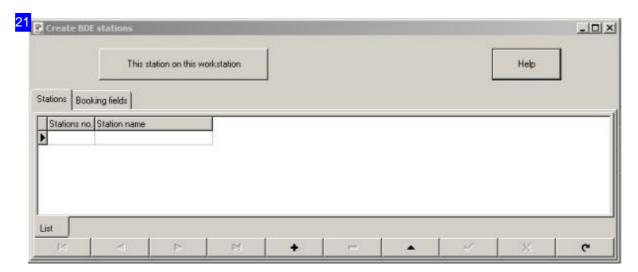
Select the tabs [Config] (above) and [BDE station] (below) in the header to manage the BDE stations.



Click on 'Create PDA station' and a dialog opens where you can create and maintain the PDA stations.





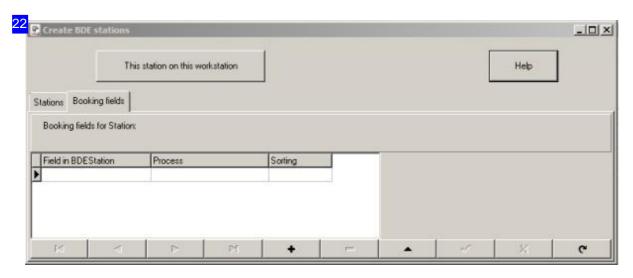


The stations are allocated to a workplace. Click on [This work at this station] and the work is set to the selected station.

All stations are listed on the [Stations] tab. Each station must be assigned to a workstation, at which data collection is carried out. All entries are then processed by a special interface at the workstation.

You can define fields on the [Booking Fields] tab, where data can be booked for the PDA interface by the workstation.

Use the 'Help' button at the top right for detailed information.



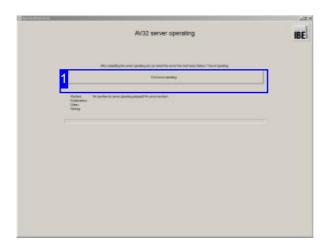
You can define fields on the [Booking Fields] tab, where data can be booked for the PDA interface through the workstation. The fields are part of the 'BDESTATIONEN' table. The 'process' column allows you to enter a text, which is displayed as a note on the PDA station. All stations are listed on the [Stations] tab.





Operating as Server

AV32 works as a service provider for Externals.



Select the menu item [Options] [Start Server operating] in the startup form to put a workstation in the server mode. Go to this field of work, in which you get informations about the machines in server mode. Here are just machines shown that are unlocked for server operation. Activation takes place for the machines under [Common Settings][Machine][Machine].

Stop the server operation by clicking the stop button [1].

An AV32 workstation can be set in a server mode. This option requires an interface to an application for the import or export of orders and production plans. Parts are then automatically nested during operation for certain machines and placed into the production.

If this operation is started, the AV32 remains in this mode until the operation is explicitly stopped. Do you want a permanent application, enlist the AV32 in the Startup folder of Windows® to activate the program on system startup.



Clicking on this button will stop the server operation and return to the normal program flow of the AV32. The change in the server operation is then possible at any time.





Glossary

Adminisrator	
Users with special rights for administr	ration of the network.
Authenticating	15
Password	15
User	15
Completion Notice	
Actions after a production run is finish	ned.
Actions	14
Create Offcut Grid	14
Create Offcut	14
Delete Entry	14
External	14
Cost Center	
Pricing structures for each machine.	
Cost Center	10
Entry	19
Fixing	19
Number	19
Registered Files	10
Data Files	
Files with processable data.	
Add.Import	25
Backup	59
Clean up	4
Delete Temporaries	4
DXF-/DWG-Converter	4
Field Name	20
Font	25
Format Rules	24
Format	24
Histories	25
Icon	25
Manage	22
Reader	22
Record Import	20
Recover	4
register	26
Registered	22
Registered	10





	Storage Folder	24
	Template Import	20
	Templates	24
	Types	23
	Viewer-Extension	25
	Viewer	25
	Web-Browser	25
	ZEW	9
Databa		
Databa Th	ase ne foundation of the software is an SQL database on a Microsoft SQL server.	
	Auto-PDF	26
	Backup File	60
	Backup Folder	60
	Database Backup	59
	Database Restore	59
	Delete Records	59
	display Fields	52
	Display Format true/false	58
	display	58
	Field	58
	General	56
	Inputs Looping Through	58
	Insert Records	59
	Manipulate	58
	Operating Data	
	Search	59
	Set Numbering	59
	SQL Database	57
	SQL-Server	56
	Tables - Connections	58
	Tables	58
	Top 10	59
	View All	59
Design	ı Wizard	
_	now database fields in forms individually.	
	Create	54
	Delete	54
	Element	54
	Lettering	55
	Position	55 55
	Starting Point	52
	Tack	55
	· -	00
DLLs		
-		

Dynamic libraries. Optional program files for extra functions.





	PlugIns	51
	TECHIMP.dll	37
F .Pr		
Editor	sons entered in the database.	
Per	sons entered in the database.	
	Operator	49
	Password	49
	User	49
	Username	9
Estimate		
	culation of prices and weights based on part drawings and preset data.	
Odi	odiation of photo and woighte bacca on part drawings and procest data.	
	Cost Center	19
	Formulae	43
	Parts Distance	19
	Programing Costs	19
	Quantities	10
	VK-Text	19
Global S	Settings	
	tings which will apply to all users in your network.	
001	ango whon will apply to all abord in your network.	
	Article	10
	Automatic Processes	9
	Base Settings	9
	Buildup	20
	Clamp dead zone	18
	Coating	17
	Common	9
	Configuration	9
	Context Help	6
	Cost Number	10
	Customer	22
	Data	7
	Disposal	19
	Editor	15
	Estimates	19
	File	28
	General	5
	Graphics Display	9
	Import	20
	Importer	22
	Machines	16
	Material	41
	Menu	3
	Navigation	6
	NC Blocks	9



Admin AV32



	ncServer	19
	Nesting	18
	Order	11
	Orientation	18
	Overwiev	13
	Part History	10
	Part	9
	PDA Station	
	Postprocessors	26
	Preview Size	9
	Production	14
	Project	11
	Search	20
	Sheet Numbers	9
	Sheet Store	12
	Special	19
	SQL Folder	9
	Standard Sheets	13
	Stations	19
	Stock	14
	Store	6
	Time	9
	Tools	17
Graphic		
Re	presentation of parts and sheets on the screen.	
	Display Contour	9
	Display Cutting Contour	9
	Display Production Plan	10
	Display Stamping	9
	Display Travese Paths	9
	Display	9
	Double	12
	Format Choice	59
	Preview Sizes	9
	Retrieval	4
Help		
Co	ntext Help for the individual input fields and selection boxes.	
	Command Line	6
	Context Help	6
	Help Dialog	7
	1 -3	·
Individu	ual Settings	
Se	ttings made to apply to one user at a time.	
	IBE Dongle	46
	IDE DUNIGIO	40





Activation Code	48
Article Table	52
Black Parts	52
Cost-Center Table	52
Customer Table	52
Customize Forms	52
Dongle Management	46
Editing	47
Fill Parts	52
General	45
Grid Nesting Plan	52
Hardlock	46
Introduction	46
Language	47
License Activation	46
License Window	47
Load Registration	49
Logbook	47
Manual Nesting	52
Menu	3
Order Table	52
Parquet Nesting Plan	52
Parts Table	52
Password	46
Plug-Ins	46
PlugIns	51
Printing Window	52
Production Table	52
Production Version	52
Program Integration	50
Program Launcher	47
Programs	46
Project Table	52
Registration	47
Reserving Parts	52
Save Registration	49
Sheet Table	52
Show Forms	52
Surface	47
Tabs	52
Tabs	59
True-Shape Nesting Plan	52
User Interface	52
User	46
Windows®-Registration	49

License

This program is license-protected software.





	IBE Dongle	46
	Activation Code	48
	Extension	48
	Global Version	48
	Hardlock	46
	License File	48
	License Window	47
	Net	48
	Slot	48
	USB-Port	48
Mach	ines	
C	Cutting machines using different technologies and power sources.	
	Assignment	16
	Copy Data	44
	CSV File - Import	28
	Cutting Speed	32
	Definitions	30
	Dimensions	33
	Format	35
	General	26
	Language	37
	Machine Size	16
	Machine type	33
	Night Shift	14
	No Sheet	16
	No Technology	16
	Null Point	34
	Orientation	16
	Parameter	28
	Position	35
	Postprocessors	27
	Processor Axes	36
	Running Direction	36
	Select Technology Module	28
	Server Operating	16
	Setup	27
	Support Points	17
	Technologies	28
	Technology Transfer	44
	Tools	17
	Traverse Paths	32
Mater		
S	Sheets of various materials which are locked to a cutting technology.	
	Formulae	43
	General	41





Important	1
Introduction	42
Material Groups	44
Material	42
Nesting	44
Offcuts	44
Post-Processor	44
Price	43
Technologies	42
Text File	43
Thicknesses	44
Weight	43
Menu Items	
Selectable functions for program navigation and operation.	
AV32 Database Properties	3
Correct Reservations	4
Exit Program	3
Find Lost Files	4
Global Settings	3
Individual Settings	3
Tidying Up	4
Nesting	
Optimal organization of your parts onto sheets.	
Check Arcs	12
Check Arcs	12
Consider Internal Contour	12
Consider Internal Contours	12
Create Parts	12
Dimensions	45
Edge Distance	45
Filler parts	12
Groups	12
Kerf	45
Layers	18
Method	18
Only Laser Paths	28
Orgin	16
Orientation	16
Parts name	12
Radius Correction	45
Remains	12
Return to Store	12
Torch Offsets	18
Torch Quantity	18





	_			
•	٦.	ff	\sim	ute
			(:1	

Remnants leftover from your cutting jobs.

	,	
	Book etion Notification ur Dimension	12 14 45
Offset	in Dimonsion	45
Operator		
Person res	ponsible for the current application.	
Admin	Rights	15
Operat	tor	49
Passw	ord	15
Restric	ctions	15
User		49
Order		
Creating pa	arts for manufacturing.	
	atically Delete	11
Fields		13
Warnir	ngs	28
Parts		
Individual p	parts in the parts bin or your orders.	
_	e Form	20
	Number	9
Create		12
Delete		9
Design		12
	/ Active	10
	/ Active	10
Marks	tu/Danamad	18
	ty/Reserved	9
Retrie		4
	to Store	12
Stamp		14
Sticker		26
Use St	ore	14
PDA-Station		
Station for	recording operating data (e.g. hand-held scanner).	
	istration	62
Creatir	_	62
Genera	al	61





Production Plan	
Nested parts, reserved from the database ready to cut.	
direct	11
Display	10
From Order	11
Night Operation	14
Parts Stamping	14
PDA-Station	26
Warnings	28
Production	
Process by running a production.	
Alternative Technologies	14
Calculate Setup Time	14
Costing	14
Disposal	17
DXF Output	31
Night Operation	31
Production Plans	31
Production Schedule	14
Ready Message	14
Project	
Parent element for parts, items, macros.	
Assignments Fields	11
Assistent	11
Dissolve	11
Project Assistant	11
Search	
Search for data entries using notable feautures as criteria.	
Active List	20
Color	20
Data Entries	20
Empty Fields	20
Fields	20
Formular	20
Retrieval	4
Server operating	
Service provider for external connections.	
End	64
Field allocations	18
General	63





	Machines	16
	Starting	3
05		
Sheets	andardized material sizes in varying thicknesses.	
Si	andardized material sizes in varying tricknesses.	
	Automatically Delete	12
	Double Graphics	12
	DXF Output	31
	Formats	13
	Materials Management	16
	Standard Sheets Active	13
	Standard Sheets Selection	16
	Utilization	13
Start		
	etting started with the order management software.	
	Auto Boot ncCAD	52
	Command Line	3
	Database	5
	DB Viewer Version	52
	Form Editor	52
	General	1
	Home Button	3
	Homepage	3
	Invisible Version	52
	Menu	3
	Production Version	52
	Program Protection	5
	Restrictions	15
	Server Path	19
	Settings	3
	Start Form	52
	Surface	52
	Tab	52
	Version	52
	Waiting Time ncCAD	52
Store		
	ore for finished cut parts.	
	·	
	Enter Parts	14
	Use	14
Suppor	rts	
	efined support points for cut sheets.	
	Color	17
		





	Delete	17
	DXF-Template	17
	Editing	17
	Offsets	17
	Sizes	17
	Starting Point	17
Techno	ologies	
Pro	ocesses for cutting your workpieces.	
	Alternative	14
	CSV Files	37
	From Drawings	14
	Import	28
	Importing	37
	Mapping File	37
	Modul	28
	ZUO File	37
Techno	ology Module	
Op	otional modules for adding technology data required by 5your machine	on to your parts.
	cncCUT-DLL	28
	Language	37
	Selection	28
Version	1	
Ex	ecution of the program in a special mode.	
	DB Viewer Version	52
	Invisible Version	52
	Production Version (FTV)	52
	Server Operation	63
	User	15
ZEW		
IBI	E's proprietary drawing format containg technology data.	
	Delete ZEW	9
	DXF Import	9
	Graphics	59
	Import ncCAD	21
	Retrieval	4





Index

А	Actions (Completion Notice)	14
	Activation Code (Individual Settings)	48
	Activation Code (License)	48
	Active List (Search)	20
	Add.Import (Data Files)	25
	Admin Rights (Operator)	15
	Administration (PDA-Station)	62
	Alternative (Technologies)	14
	Alternative Technologies (Production)	14
	Arrange Form (Parts)	20
	Article (Global Settings)	10
	Article Table (Individual Settings)	52
	Assignment (Machines)	16
	Assignments Fields (Project)	11
	Assistent (Project)	11
	Authenticating (Adminisrator)	15
	Auto Boot ncCAD (Start)	52
	Auto-PDF (Database)	26
	Automatic Processes (Global Settings)	9
	Automatically Delete (Order)	11
	Automatically Delete (Sheets)	12
	AV32 Database Properties (Menu Items)	3
В	Back Book (Offcuts)	12
	Backup (Data Files)	59
	Backup File (Database)	60
	Backup Folder (Database)	60
	Base Settings (Global Settings)	9
	Black Parts (Individual Settings)	52
	Buildup (Global Settings)	20
С	Calculate Setup Time (Production)	14
	Check Arcs (Nesting)	12
	Check Arcs (Nesting)	12
	Clamp dead zone (Global Settings)	18
	Clean up (Data Files)	4
	cncCUT-DLL (Technology Module)	28
	Coating (Global Settings)	17
	Color (Search)	20
	Color (Supports)	17
	Command Line (Start)	3
	Command Line (Help)	6
	Common (Global Settings)	9
	Completion Notification (Offcuts)	14
	Configuration (Global Settings)	9
	Consider Internal Contour (Nesting)	12
	Consider Internal Contours (Nesting)	12



D



Context Help (Global Settings)	6
Context Help (Help)	6
Contour Dimension (Offcuts)	45
Copy Data (Machines)	44
Copy Number (Parts)	9
Correct Reservations (Menu Items)	4
Cost Center (Cost Center)	10
Cost Center (Estimates)	19
Cost Number (Global Settings)	10
Cost-Center Table (Individual Settings)	52
Costing (Production)	14
Create (Design Wizard)	54
Create Offcut (Completion Notice)	14
Create Offcut Grid (Completion Notice)	14
Create Parts (Nesting)	12
Create Parts (Parts)	12
Creating (PDA-Station)	62
CSV File - Import (Machines)	28
CSV Files (Technologies)	37
Customer (Global Settings)	22
Customer Table (Individual Settings)	52
Customize Forms (Individual Settings)	52
Cutting Speed (Machines)	32
Data (Global Settings)	7
Data Entries (Search)	20
Database (Start)	5
Database Backup (Database)	59
Database Restore (Database)	59
DB Viewer Version (Start)	52
DB Viewer Version (Version)	52
Definitions (Machines)	30
Delete (Design Wizard)	54
Delete (Supports)	17
Delete Entry (Completion Notice)	14
Delete Records (Database)	59
Delete Temporaries (Data Files)	4
Delete ZEW (Parts)	9
Delete ZEW (ZEW)	9
Designation (Parts)	12
Dimensions (Machines)	33
Dimensions (Nesting)	45
direct (Production Plan)	11
Display (Production Plan)	10
display (Database)	58
Display (Graphic)	9
Display Contour (Graphic)	9
Display Cutting Contour (Graphic)	9
display Fields (Database)	52
Display Format true/false (Database)	58





	Display Production Plan (Graphic)	10
	Display Stamping (Graphic)	9
	Display Travese Paths (Graphic)	9
	Disposal (Production)	17
	Disposal (Global Settings)	19
	Dissolve (Project)	11
	Dongle Management (Individual Settings)	46
	Double (Graphic)	12
	Double Graphics (Sheets)	12
	DXF Import (ZEW)	9
	DXF Output (Production)	31
	DXF Output (Sheets)	31
	DXF-/DWG-Converter (Data Files)	4
	DXF-Template (Supports)	17
Е	Edge Distance (Nesting)	45
	Editing (Individual Settings)	47
	Editing (Supports)	17
	Editor (Global Settings)	15
	Element (Design Wizard)	54
	Empty Fields (Search)	20
	End (Server operating)	64
	Enter Parts (Store)	14
	Entry (Cost Center)	19
	Estimates (Global Settings)	19
	Exit Program (Menu Items)	3
	Extension (License)	48
	External (Completion Notice)	14
F	Field (Database)	58
	Field allocations (Server operating)	18
	Field Name (Data Files)	20
	Fields (Order)	13
	Fields (Search)	20
	File (Global Settings)	28
	Fill Parts (Individual Settings)	52
	Filler parts (Nesting)	12
	Find Lost Files (Menu Items)	4
	Fixing (Cost Center)	19
	Font (Data Files)	25
	Form Editor (Start)	52
	Format (Machines)	35
	Format (Data Files)	24
	Format Choice (Graphic)	59
	Format Rules (Data Files)	24
	Formats (Sheets)	13
	Formulae (Estimates)	43
	Formulae (Material)	43
	Formular (Search)	20
	From Drawings (Technologies)	14





	From Order (Production Plan)	11
G	General (Server operating) General (Individual Settings) General (Machines) General (Start) General (Global Settings) General (Material) General (PDA-Station) General (Database) Global Settings (Menu Items) Global Version (License) Graphics (ZEW) Graphics Display (Global Settings) Grid Nesting Plan (Individual Settings) Groups (Nesting)	63 45 26 1 5 41 61 56 3 48 59 9 52 12
Н	Hardlock (License) Hardlock (Individual Settings) Help Dialog (Help) Histories (Data Files) History Active (Parts) History Active (Parts) Home Button (Start) Homepage (Start)	46 46 7 25 10 10 3 3
l	IBE Dongle (License) IBE Dongle (Individual Settings) Icon (Data Files) Import (Technologies) Import (Global Settings) Import ncCAD (ZEW) Important (Material) Importer (Global Settings) Importing (Technologies) Individual Settings (Menu Items) Inputs Looping Through (Database) Insert Records (Database) Introduction (Material) Introduction (Individual Settings) Invisible Version (Start) Invisible Version (Version)	46 46 25 28 20 21 1 22 37 3 58 59 42 46 52 52
K	Kerf (Nesting)	45
L	Language (Individual Settings) Language (Machines) Language (Technology Module) Layers (Nesting) Lettering (Design Wizard) License Activation (Individual Settings)	47 37 37 18 55 46





	License File (License)	48
	License Window (License)	47
	License Window (Individual Settings)	47
	Load Registration (Individual Settings)	49
	Logbook (Individual Settings)	47
М	Machine Size (Machines)	16
	Machine type (Machines)	33
	Machines (Server operating)	16
	Machines (Global Settings)	16
	Manage (Data Files)	22
	Manipulate (Database)	58
	Manual Nesting (Individual Settings)	52
	Mapping File (Technologies)	37
	Marks (Parts)	18
	Material (Global Settings)	41
	Material (Material)	42
	Material Groups (Material)	44
	Materials Management (Sheets)	16
	Menu (Individual Settings)	3
	Menu (Start)	3
	Menu (Global Settings)	3
	Method (Nesting)	18
	Modul (Technologies)	28
Ν	Navigation (Global Settings)	6
	NC Blocks (Global Settings)	9
	ncServer (Global Settings)	19
	Nesting (Global Settings)	18
	Nesting (Material)	44
	Net (License)	48
	Night Operation (Production Plan)	14
	Night Operation (Production)	31
	Night Shift (Machines)	14
	No Sheet (Machines)	16
	No Technology (Machines)	16
	Null Point (Machines)	34
	Number (Cost Center)	19
0	Offcuts (Material)	44
	Offset (Offcuts)	45
	Offsets (Supports)	17
	Only Laser Paths (Nesting)	28
	Operator (Editor)	49
	Operator (Operator)	49
	Order (Global Settings)	11
	Order Table (Individual Settings)	52
	Orgin (Nesting)	16
	Orientation (Machines)	16
	Orientation (Global Settings)	18





	Orientation (Nesting) Overwiev (Global Settings)	16 13
Р	Parameter (Machines)	28
	Parquet Nesting Plan (Individual Settings)	52
	Part (Global Settings)	9
	Part History (Global Settings)	10
	Parts Distance (Estimates)	19
	Parts name (Nesting)	12
	Parts Stamping (Production Plan)	14
	Parts Table (Individual Settings)	52
	Password (Operator)	15
	Password (Individual Settings)	46
	Password (Editor)	49
	Password (Adminisrator)	15
	PDA-Station (Production Plan)	26
	Plug-Ins (Individual Settings)	46
	PlugIns (DLLs)	51
	PlugIns (Individual Settings)	51
	Position (Machines)	35
	Position (Design Wizard)	55
	Post-Processor (Material)	44
	Postprocessors (Global Settings)	26
	Postprocessors (Machines)	27
	Preview Size (Global Settings)	9
	Preview Sizes (Graphic)	9
	Price (Material)	43
	Printing Window (Individual Settings)	52
	Processor Axes (Machines)	36
	Production (Global Settings)	14
	Production Plans (Production)	31
	Production Schedule (Production)	14
	Production Table (Individual Settings)	52
	Production Version (Start)	52
	Production Version (Individual Settings)	52
	Production Version (FTV) (Version)	52
	Program Integration (Individual Settings)	50
	Program Launcher (Individual Settings)	47
	Program Protection (Start)	5
	Programing Costs (Estimates)	19
	Programs (Individual Settings)	46
	Project (Global Settings)	11
	Project Assistant (Project)	11
	Project Table (Individual Settings)	52
Q	Quantities (Estimates)	10
	Quantity/Reserved (Parts)	9
R	Radius Correction (Nesting)	45
	Reader (Data Files)	22





	Ready Message (Production)	14
	Record Import (Data Files)	20
	Recover (Data Files)	4
	register (Data Files)	26
	Registered (Data Files)	10
	Registered (Data Files)	22
	Registered Files (Cost Center)	10
	Registration (Individual Settings)	47
	Remains (Nesting)	12
	Reserving Parts (Individual Settings)	52
	Restrictions (Operator)	15
	Restrictions (Start)	15
	Retrieval (Search)	4
	Retrieval (Graphic)	4
	Retrieval (Parts)	4
	Retrieval (ZEW)	4
	Return to Store (Nesting)	12
	Return to Store (Parts)	12
	Running Direction (Machines)	36
s	Save Registration (Individual Settings)	49
	Search (Database)	59
	Search (Global Settings)	20
	Select Technology Module (Machines)	28
	Selection (Technology Module)	28
	Server Operating (Machines)	16
	Server Operation (Version)	63
	Server Path (Start)	19
	Set Numbering (Database)	59
	Settings (Start)	3
	Setup (Machines)	27
	Sheet Numbers (Global Settings)	9
	Sheet Store (Global Settings)	12
	Sheet Table (Individual Settings)	52
	Show Forms (Individual Settings)	52
	Sizes (Supports)	17
	Slot (License)	48
	Special (Global Settings)	19
	SQL Database (Database)	57
	SQL Folder (Global Settings)	9
	SQL-Server (Database)	56
	Stamping (Parts)	14
	Standard Sheets (Global Settings)	13
	Standard Sheets Active (Sheets)	13
	Standard Sheets Selection (Sheets)	16
	Start Form (Start)	52
	Starting (Server operating)	3
	Starting Point (Supports)	17
	Starting Point (Design Wizard)	52
	Stations (Global Settings)	19





	Sticker (Parts) Stock (Global Settings) Storage Folder (Data Files) Store (Global Settings) Support Points (Machines) Surface (Start) Surface (Individual Settings)	26 14 24 6 17 52 47
T	Tables (Database) Tables - Connections (Database) Tabs (Individual Settings) Tabs (Individual Settings) Tack (Design Wizard) TECHIMP.dll (DLLs) Technologies (Machines) Technologies (Machines) Technology Transfer (Machines) Template Import (Data Files) Templates (Data Files) Text File (Material) Thicknesses (Material) Tidying Up (Menu Items) Time (Global Settings) Tools (Machines) Tools (Global Settings) Tool (Database) Torch Offsets (Nesting) Traverse Paths (Machines) True-Shape Nesting Plan (Individual Settings) Types (Data Files)	52 58 58 59 52 55 37 28 42 44 20 24 43 44 4 9 17 17 59 18 18 32 52 23
U	USB-Port (License) Use (Store) Use Store (Parts) User (Individual Settings) User (Adminisrator) User (Editor) User (Operator) User (Version) User Interface (Individual Settings) Username (Editor) Utilization (Sheets)	48 14 14 46 15 49 15 52 9
V	Version (Start) View All (Database) Viewer (Data Files) Viewer-Extension (Data Files) VK-Text (Estimates)	52 59 25 25 19





W	Waiting Time ncCAD (Start)	52
	Warnings (Production Plan)	28
	Warnings (Order)	28
	Web-Browser (Data Files)	25
	Weight (Material)	43
	Windows®-Registration (Individual Settings)	49
Z	ZEW (Data Files)	9
	ZUO File (Technologies)	37





Table of Contents

Welcome to the help for AV32 General Notes on Navigation	1 1
The Start Screen Launch and Exit the Program; Navigate the Program.	2
Global Settings	6
Program Settings. General Settings	8
Manage files.	23
Machine and Post-processor Settings.	27
Saving Programs and the Night Shift	29
Machine Settings	32
Default Settings.	32
Null-point	34
Processor Axes.	36
General	37
Importing Technology Data From a CSV File.	38
Materials Management and Settings in the Technology Module.	42
Individual Settings	46
Configuring Your Application.	46
Show database fields individually in forms	53
Database Settings	57
Backups and Restoring.	57
PDA-Station	62
Production Data Acquisition on a Workstation.	62
Operating as Server	64
AV32 works as a service provider for Externals.	64
Glossary	65
Index	76