



Steel Projects

WinSER

V 6.50.5.xx

User Manual

November 2009

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1. Introduction

This manual is organized to explain how to set up WinSER and use it the most efficient way for the company.

1.1 Conventions used in the manual

Here is a list of the conventions we are going to use in this manual.

Label	Description
[Shift]	The Shift key on the keyboard
{Configuration}	Menu Item

1.2 Shortcuts

Here is a list of shortcuts used in WinSER.

Key	Description
[Ins]	New
[Enter]	Modify
[Del]	Delete
[F2]	Rename
[Ctrl]+[Q]	Close
[F4]	Importation
[F9]	WinSHIP
[F5]	Refresh

2. Configuration

2.1 General

2.1.1 Application Settings

The general configuration window can be accessed via {Configuration/Option}.

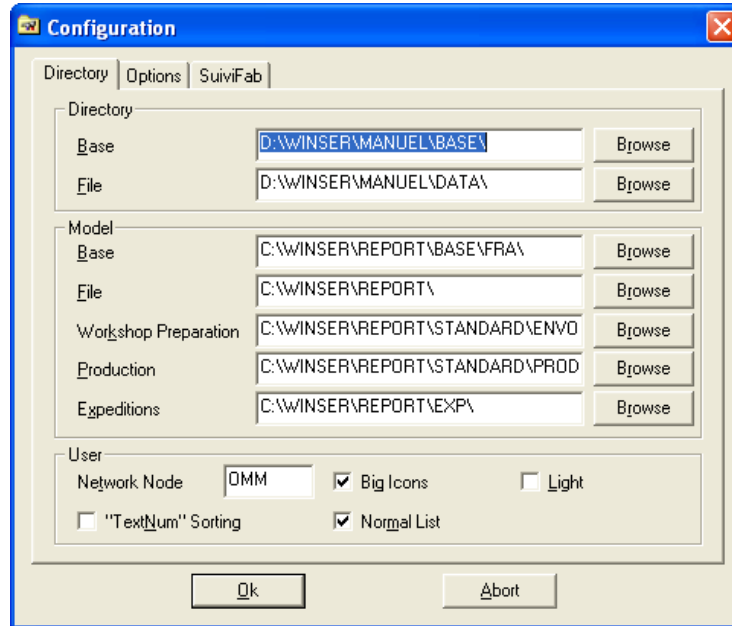


Fig. 2.1.1 - Configuration Option Directory

Label	Description
Directory	
BASE	BASE files folder (Must be the same as WinSTEEL BASE folder)
FILE	DATA files folder
Model	
Base	Directory where BASE information based reports are.
File	Directory where DATA information based reports are.
Workshop Preparation	Directory where Workshop Preparation related reports are.
Production	Directory where production feedback related reports are.
Expeditions	Directory for Shipping Reports.
User	
Network Node	Unique ID for the workstation.
Big Icons	Displays big icons in WinSER toolbar.
Normal List	If ON, one line over two is highlighted.
"TextNum" Sorting	Sorts the columns using a text and numerical sort. i.e. A1, A2, A10 instead of alphabetical order A1, A10, A2.
Light	If ON, turns WinSER into WinSER Light (i.e. read-only). WinSER light needs to be activated on the dongle.

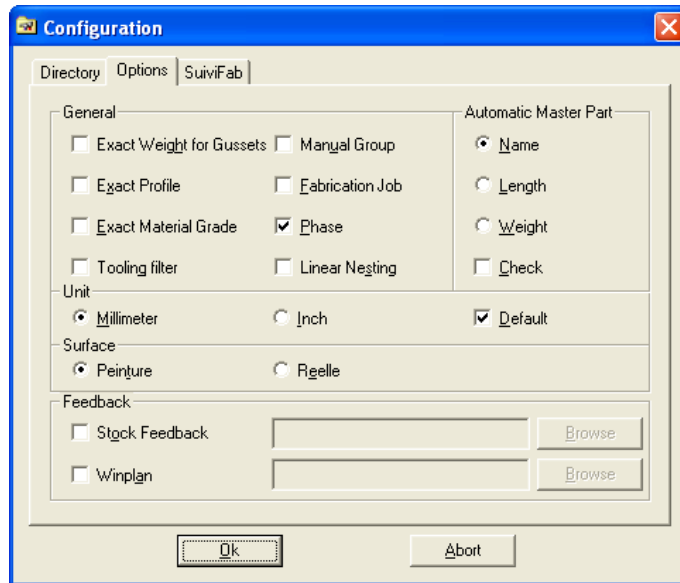


Fig. 2.1.2 - Configuration Option Options

Label	Description
General	
Exact Weight for Gussets	The weight for plates is calculated as per the shape of the part, and not the rectangular weight.
Exact Profile	During import, if a profile does not exist in the database, then an equivalence window will appear to either select a matching profile or to create a new one.
Exact Material Grade	Same as Exact profile option but for material grades.
Tooling Filter	
Manual Group	To disable the automatic group assignment.
Fabrication Job	Allows to save the fabrication jobs
Phase	Allows the use of phases
Linear Nesting	Shows for each parts if they have been fully nested.
Automatic Master Part	
Name	Sets the master part if its name is the same as the assembly name
Length	Sets the longest part as the master part
Weight	Sets the heaviest part as the master part
Check	Will display a message in the selection window if an assembly has no master part.
Unit	
Millimeter	Units are displayed in millimeters
Inch	Units are displayed in inches
Default	To set one of the units as a default unit.
Surface	
Peinture	Displayed area is the painting area
Reelle	Displayed area is the real area
Feedback	
Stock Feedback	To set a path the feed back information to WinSTOCK module.
WinPLAN	Path to give informations to WinPLAN.

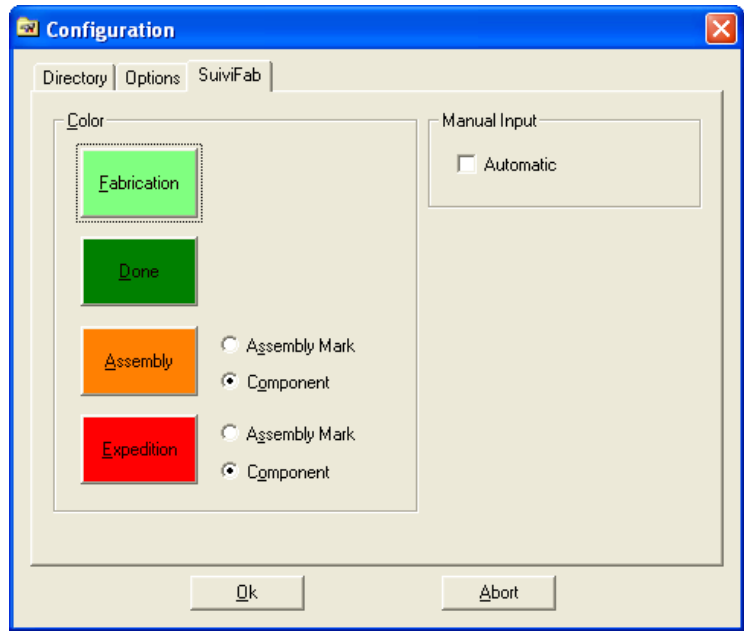


Fig. 2.1.3 - Configuration Option SuiviFab

Label	Description
Color	
Fabrication	Sets the color to visualize parts sent to fabrication.
Done	Sets the color to visualize parts on which machining is complete.
Assembly	Sets the color to visualize terminated assemblies.
Expedition	Sets the color to visualize the shipped assemblies.
Assembly Mark	The colorization is done at the assembly level.
Component	The colorization is done at the component level.
Manual Input	
Automatic	If enabled, the status of parts is automatically updated constantly. If not, it is only updated when you do a feedback in WinSER.

This window does not exist after WinSER version 6.50.5.XX.

Access Rights

To create users with restrictions in WinSER go to {Configuration/Access Rights} to reach the access rights panel:

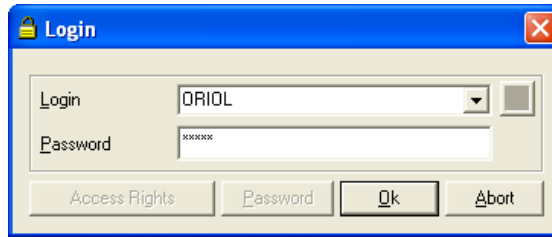


Fig. 2.1.4 - User List Panel

To create a new user, type his/her name in the Login field and a password in the Password field. Click on Ok, re-enter the password to confirm it and click on Ok to create the user. Then, to define the menu items they can access, click on Access Rights to open the following window:

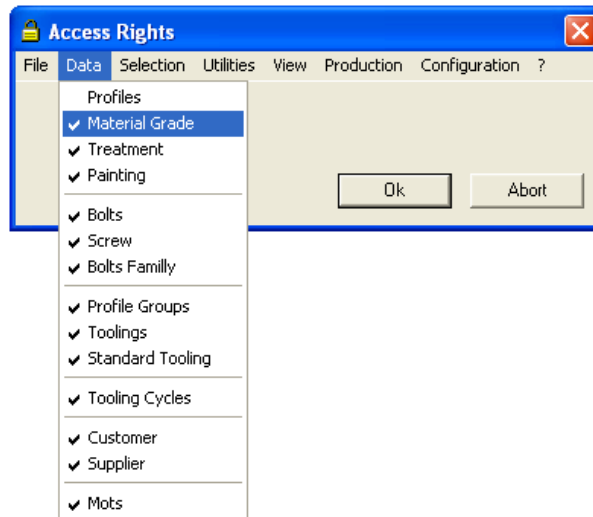


Fig. 2.1.5 - Access Rights Edition

Now, uncheck the items that don't apply to the user and confirm by clicking on Ok.

2.1.2 Shop Drawings

Shop drawing options allow the user to set-up the necessary formats, representation and parameters for the dimensioning text and lines and the printers to be used.

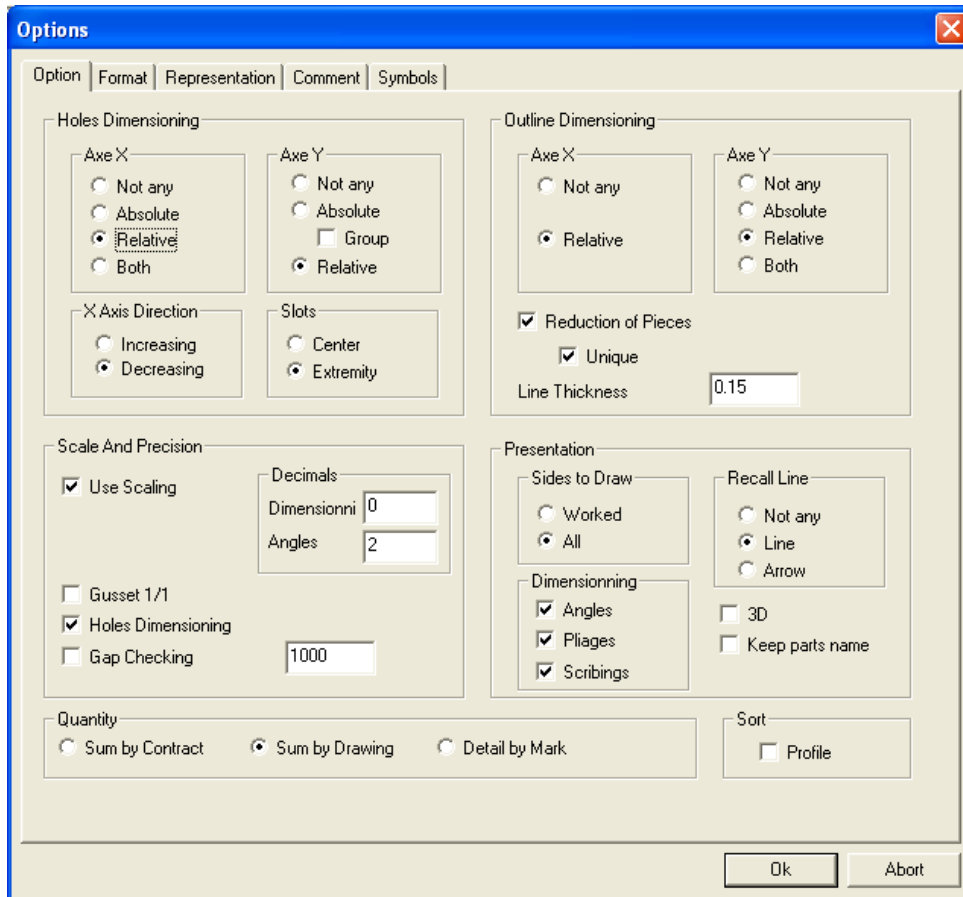


Fig. 2.1.6 - Shop Drawing Options - Options Tab

Field	Designation
Holes Dimensioning	Selection of the type of dimensions for holes in the horizontal axis (X axis) and gauges (Y axis) for each side of the piece. None: No Dimensioning Cumulative: Cumulative dimension according to the reference point of the concerned side Relative: The dimension of drilling is in relation to the previous one. The dimension of the first hole is relative to the reference point of the piece side Both: Cumulative and Relative dimensions
X Direction	This option allows to move the X axis zero point : Increasing: The zero point will be on the right The positive direction will go from right to left Decreasing: The zero point will be on the left The positive direction will go from left to right
Slots	This option allows to place the slot holes relatively to the length Centre: The length will be calculated between the centers of the two half-circles

	Extremity: The length will be calculated between the extremities of the two half-circles
Outline Dimensioning	None: No Dimensioning Cumulative: Cumulative dimension according to the reference point of the side you want to estimate. Relative: The dimension of drilling is in relation to the previous one. The dimension of the first corner is relative to the reference point of the piece side. Both: Cumulative + Relative options
Reduction of Pieces	This option allows omitting some unnecessary zones to make clearer the graphic view. No: No cut will be authorized. Yes: Selected cuts will be carried out.
Line Thickness	Parameter which defines the line thickness.
Scale and precision	Use scaling: Authorization to extend the piece in the X axis direction to avoid the characters superimposition. No: In case of difference, outline lines will be continuous. Yes: In case of difference, outline lines will be interrupted. Decimal Dimensions: The dimension will be represented with the number of the chosen decimals. Decimal Angles: The angles will be represented with the number of the chosen decimals.
Presentation	Worked: Only the worked sides will be edited. All: All sides of the piece will be printed
Dimensioning Line	Selection of the type of dimensioning line None: No type of dimensioning line Bar: A 45 degrees dash as an end of the dimension Arrow: A 30 degrees arrow as an end of the dimension line.
Angle Dimensioning	This option allows activating or deactivating angle dimensioning.

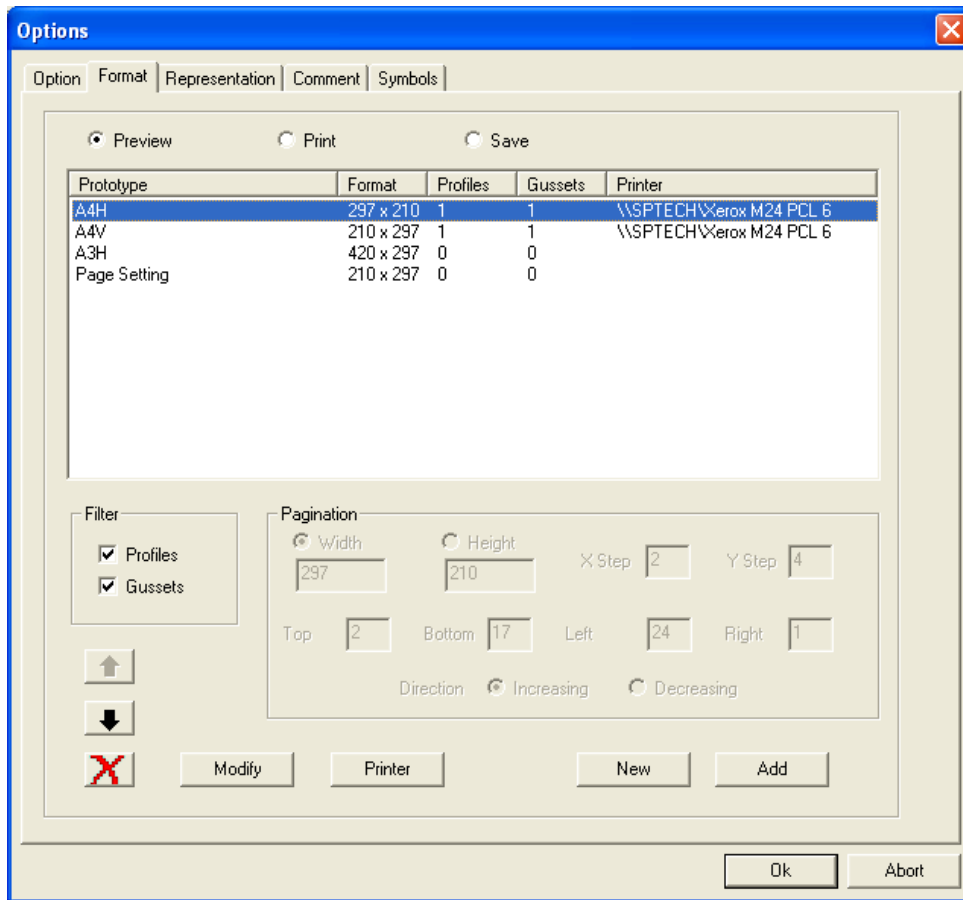


Fig. 2.1.7 - Shop Drawing Options - Format Tab

The screen above gives the possibility to assemble all available prototypes for shop drawings. Each one will be assigned to a printer and its characteristics, a format of paper, an orientation, etc.

Field	Designation
Prototype	Name of file which contain information of drawing sheet. This one can be under format DWG or DXF.
Format	Dimensions of paper sheet.
Profiles	Authorization to print log profiles (Beams, Angles,...)
Gussets	Authorization to print profiles and gussets. Possibility to print with 1 scale and page setting.
Printer	Name of the printer configured in the .
Preview	Allows to view the shop drawing on the screen before printing

The Printer button accesses the configured printer in the system and allows modification of the characteristics.

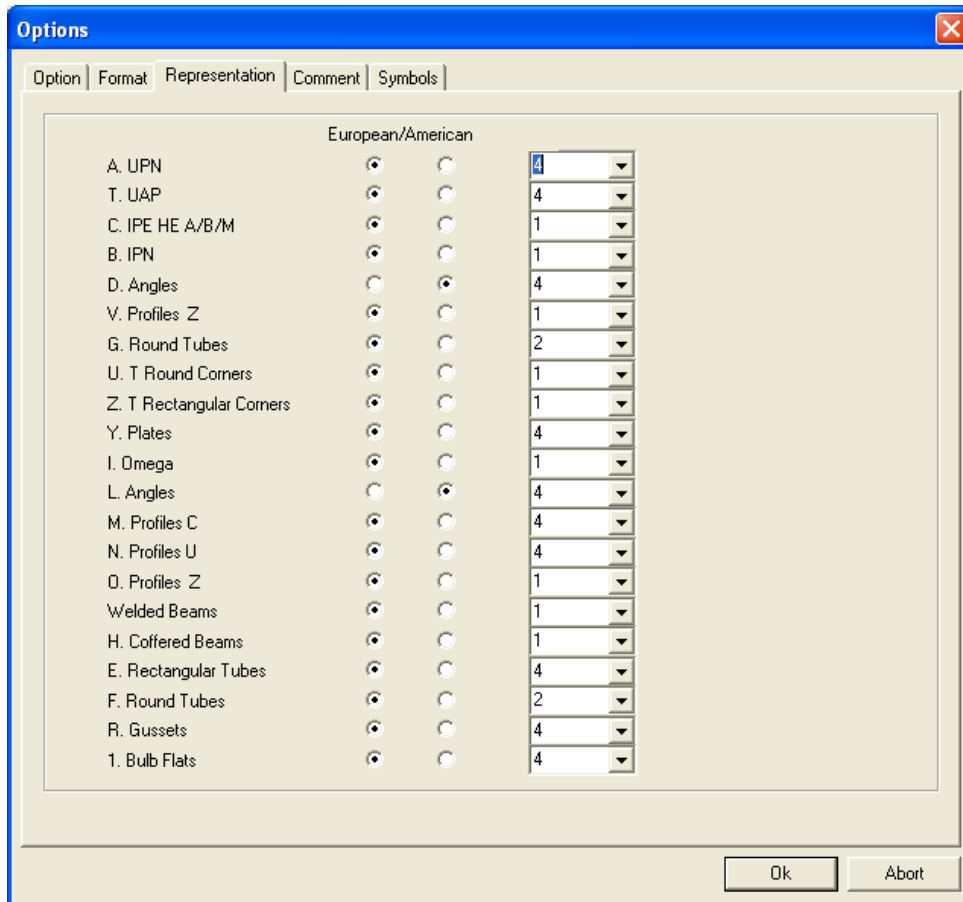


Fig. 2.1.8 - Shop Drawing Options - Representation Tab

Select the default representation type for each profile.

Field	Designation
European	Top flange of the profiles drawn below the web
American	Top flange of the profiles drawn above the web
Combo Box With Numbers	The reference origin of the piece which can be chosen on the table given in index

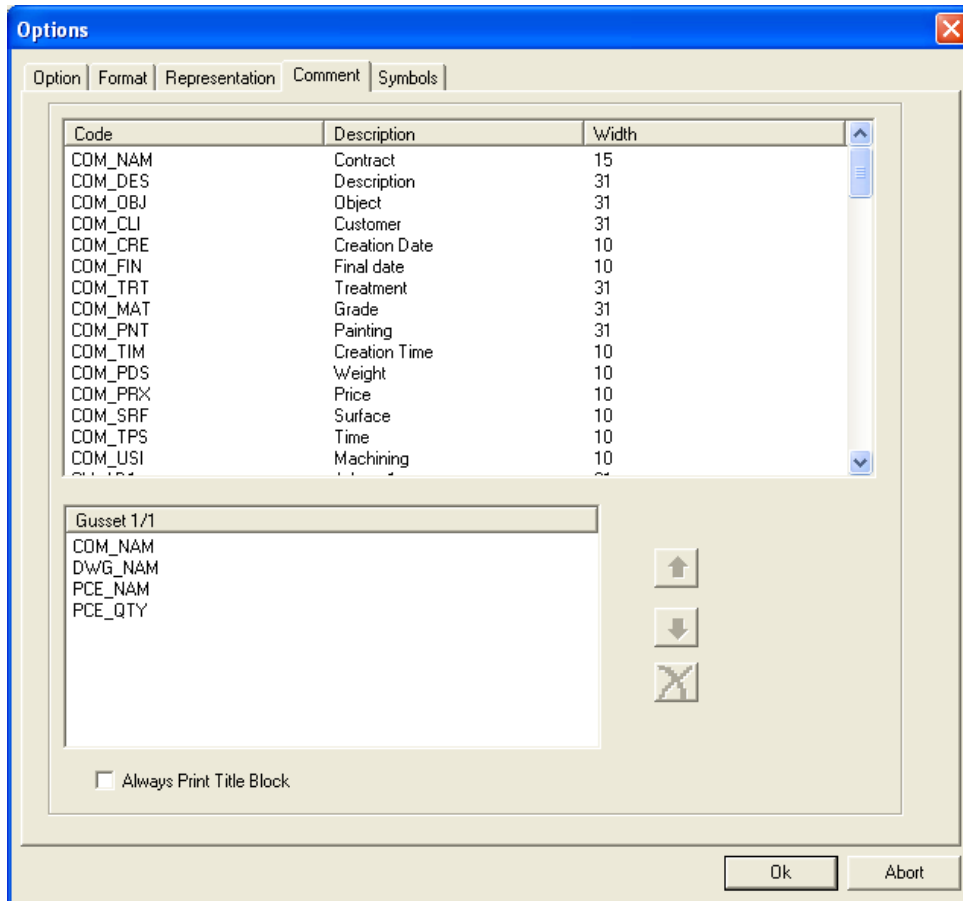


Fig. 2.1.9 - Shop Drawing Options - Comment Tab

List of keywords available for insertion in the prototypes.

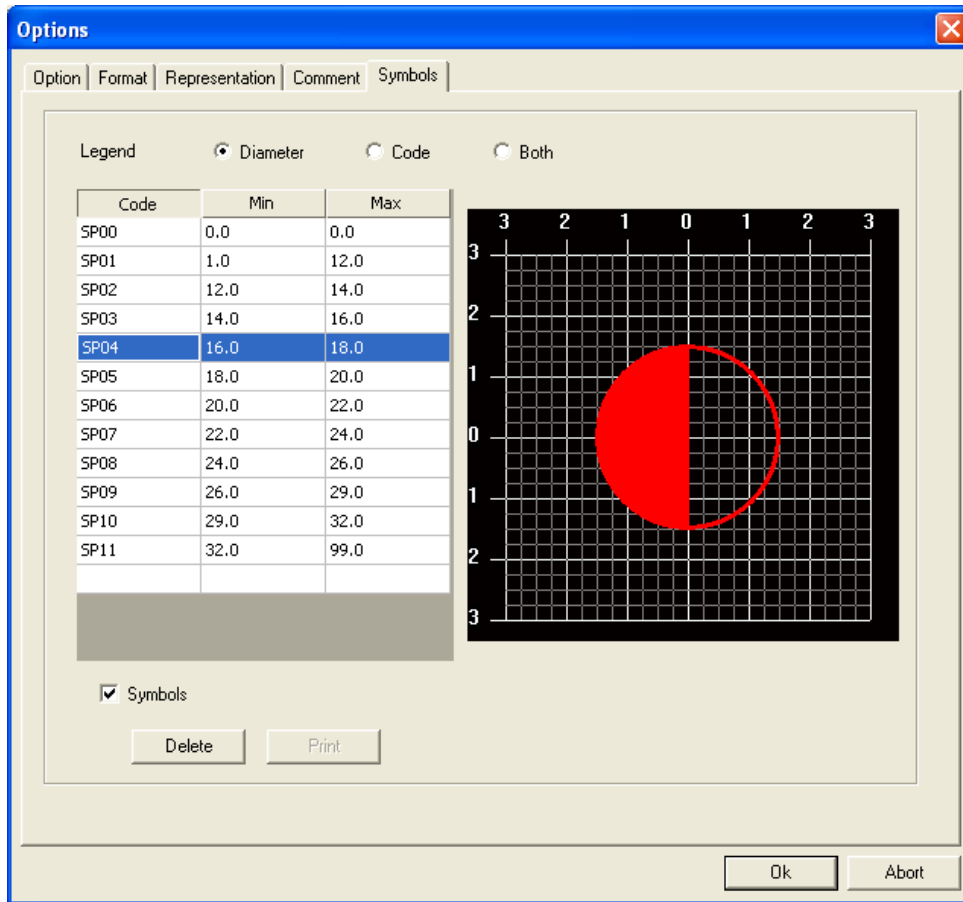


Fig. 2.1.10 - Shop Drawing Options - Symbols Tab

Symbols are used to represent holes.

Every shown symbol is assigned to a diameter range. The shop drawing will show the complete list of used symbols. It is possible to personalize these symbols when they are created. The user has got at their disposal small utilities to help generate basic geometrical elements.

2.2 Imports / Exports

2.2.1 Importation

In WinSER, there is only one import which has to be set up: the importation of CAM files from WinSTEEL. To do so, go to {Configuration/Importation} and fill the fields as below:

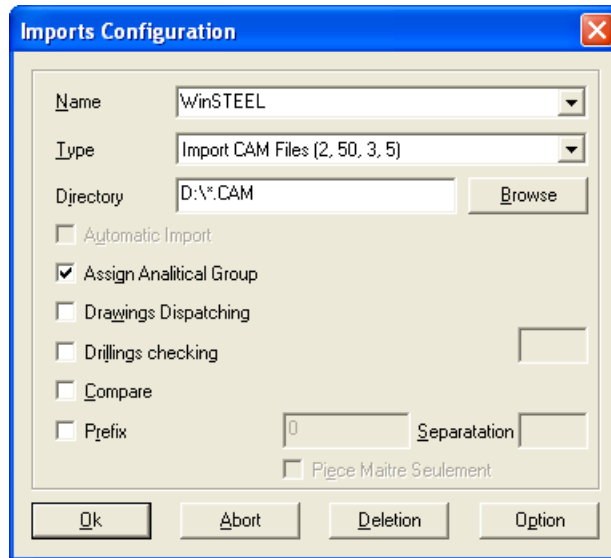


Fig. 2.2.1 - Import Configuration

2.2.2 Exportations

For each workstation that is to be included in WinSER, an export entry must be created. This list can include FICEP machines (CAM export), other supported CNC machines (DSTV, DXF, etc. export) or manual workstation such as welding, sandblasting, etc. (Export Dummy).

To create an export, go to {Configuration / Export} to open the window below and fill the fields regarding the workstation to be created:

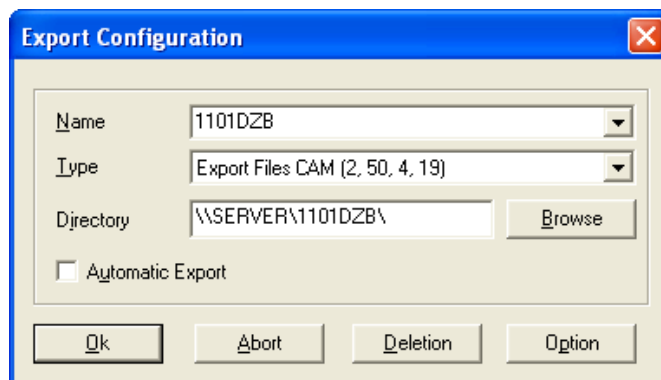


Fig. 2.2.2 - Export Configuration - FICEP Machine

The Machine name must be exactly the same as the machine name in the tooling cycles. Basically, machines names must always be identical for each machine. Please note that the export to each machine can also be set during the production process and that this ensure that the machine names will be consistent.

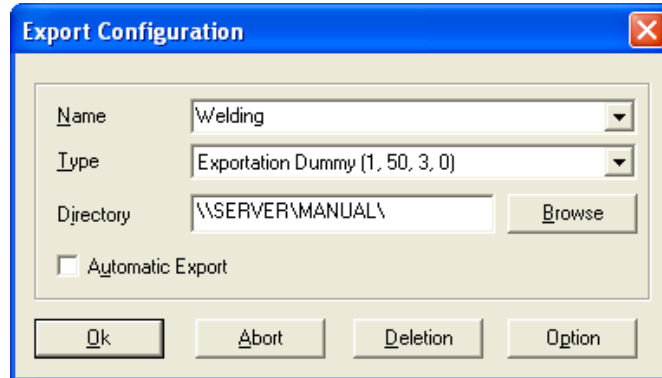


Fig. 2.2.3 - Export Configuration - Manual Workstation

2.2.3 Control Import

{Configuration / Control Import}

This option is used to configure the import for WinSER.

2.2.4 Production Data Export

{Configuration / Production Data Export}

This option is used to send data to SC Time when sending to production.

2.3 Profile Groups

WinSER dispatches the parts thanks to profile groups: each part belongs to a group of profiles with the same characteristics (profile, size, toolings, etc.). A profile group is also made to fit a certain sequence for the components in the workshop.

To open the profile group management window, go to {Data / Profile Groups}:

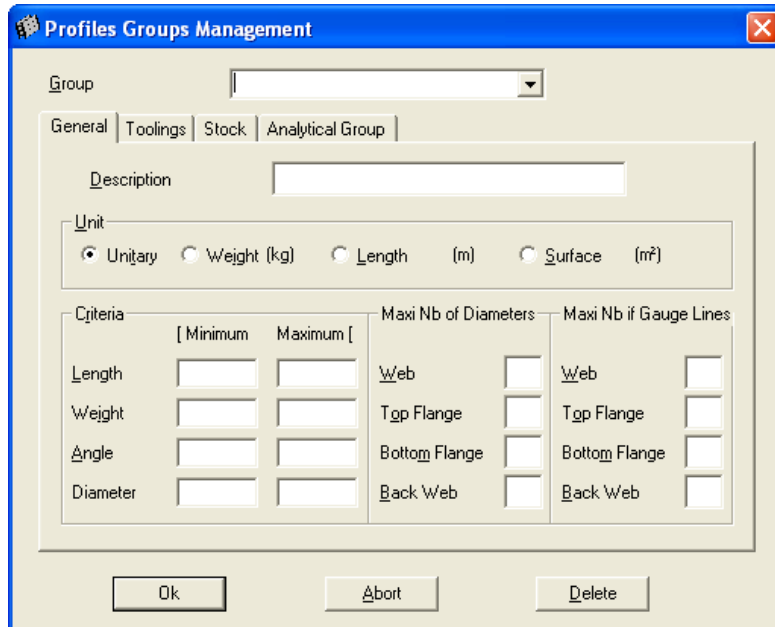


Fig. 2.3.1 - Profile Groups – General

Field	Description
Group	Profile Group Name
Description	Short description
Unit	
Criteria	Filters regarding the Length, Weight, Miter Cut Angle, Holes Diameter. For each criterion, we can set a minimum (included) value and a maximum (excluded) value.
Maxi Nb of Diameters	For each side of the profiles, a maximum quantity of different diameters can be indicated (useful in case of a machine with limited tool quantity)
Maxi Nb of Gauge Lines	For each side, defines the maximum different gauge lines. Useful in case of machines on which the gauge line, for punches for example, is set manually once for all.

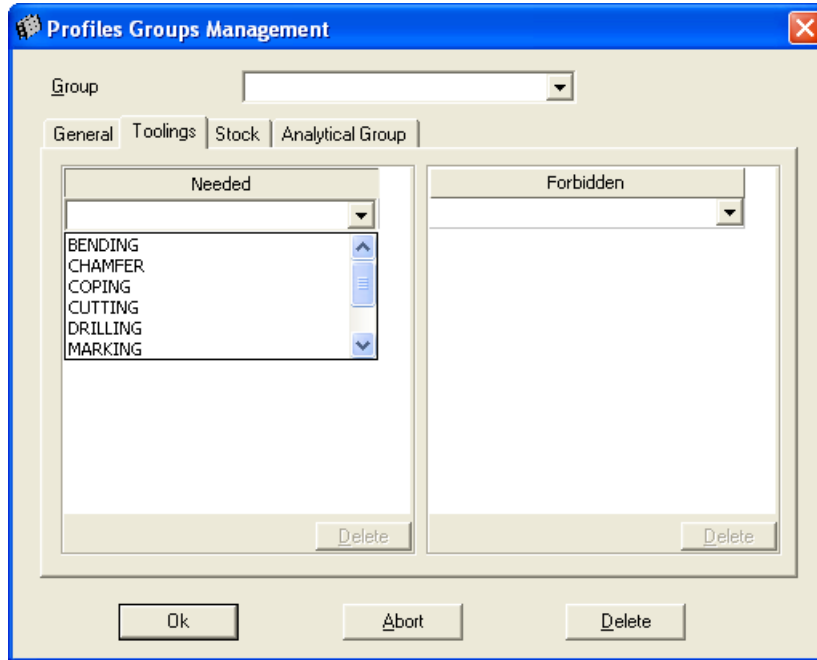


Fig. 2.3.2 - Profile Groups - Toolings

Each profile group can include toolings in its specifications. For example, if some W Beams must have holes in order to belong to the profile group named "Drilled W Beams", just select the tooling "Drilling" in the "needed" column. This way, if a beam matching the size criteria to belong to the profile group has no holes, it will not be assigned to this group.

The same can be done for forbidden tools i.e. to prevent a part with a specific tooling to be assigned to a profile group.

Be very careful when using this as setting up too many needed/forbidden toolings will end up in no part being assigned to the group.

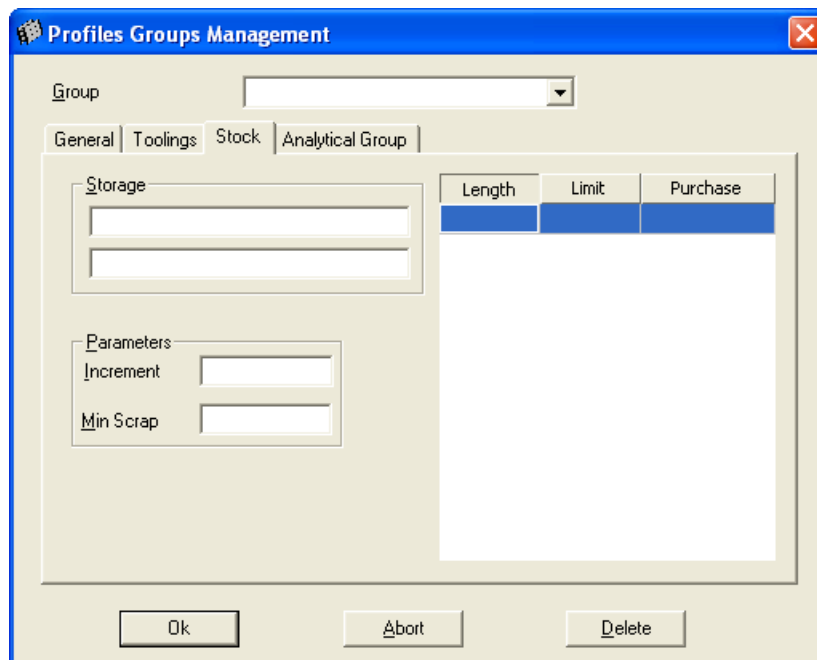


Fig. 2.3.3 - Profile Groups – Stock

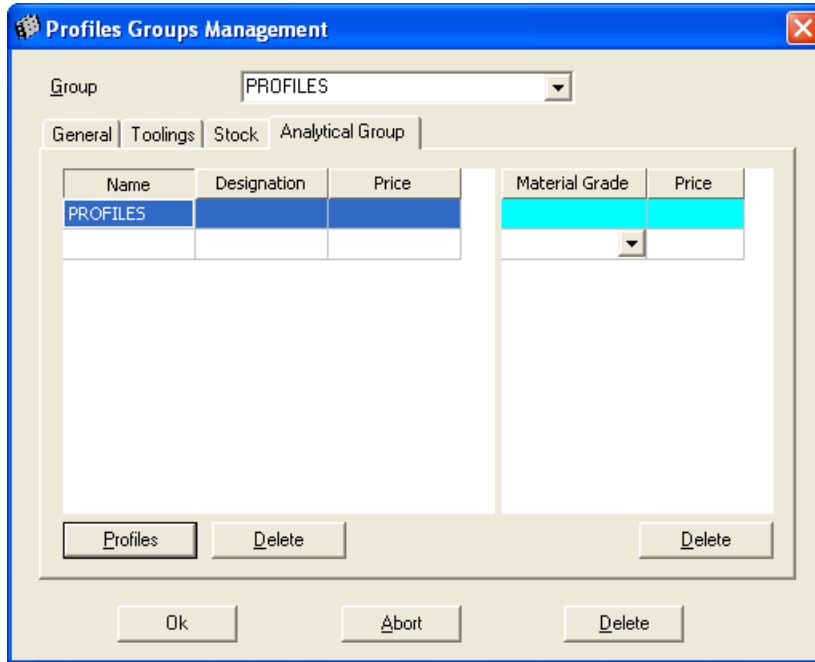


Fig. 2.3.4 - Profiles Groups - Analytical Group

This section allows the user to create the analytical group linked to the current profile group. Just click in the "Name" column and type the same name as the profile group. Then click on "Profiles" to open the profiles criteria's management window:

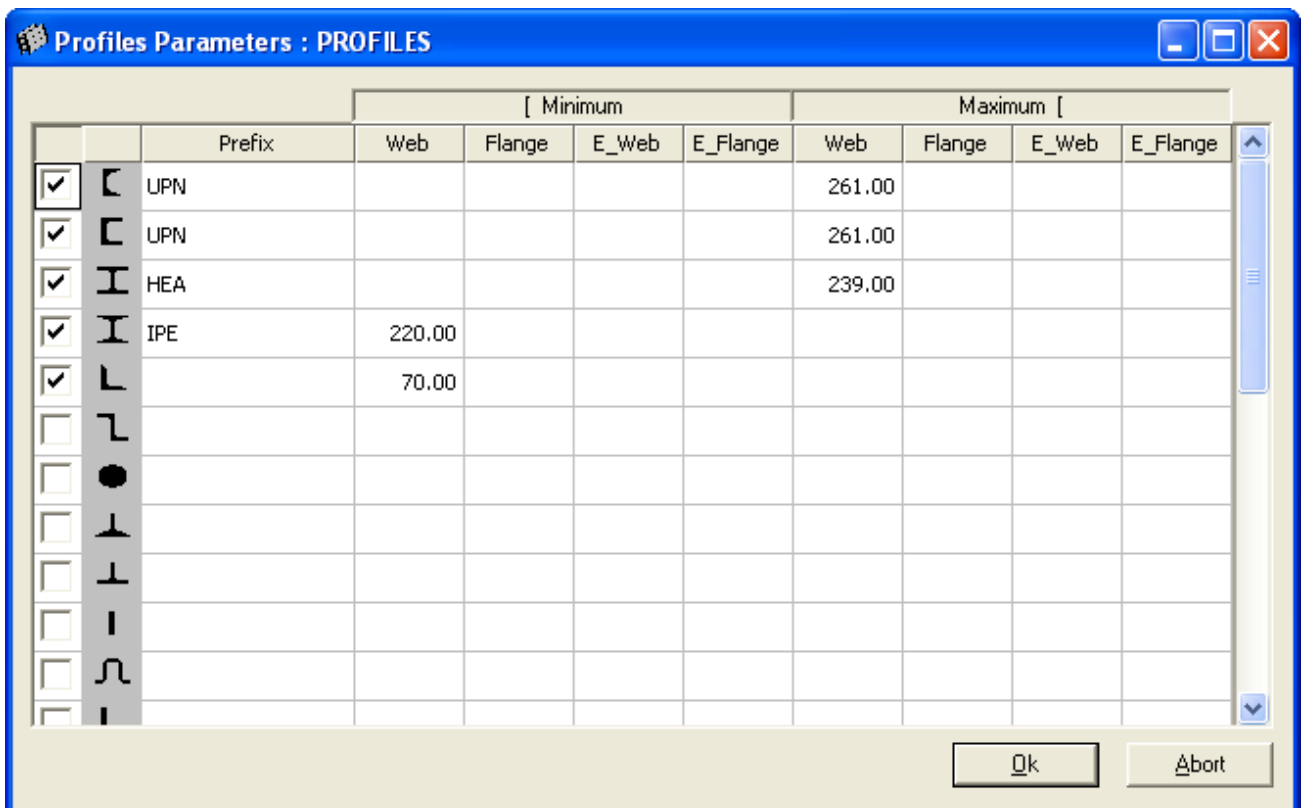


Fig. 2.3.5 - Profiles Parameters

Select the line corresponding to each profile's family that will belong to the current profile group. A prefix can be applied to a selected profile (UPN, UAP, IPE, etc.) and in addition size restrictions can be applied. E_ is for thickness.

In the example above, the profile group named PROFILES contains UPN's which their web size is less than 261 mm (260 mm included), and also contains IPE's with webs that are bigger than 220 mm. It also includes ALL angles, no matter their name and size.

Profiles groups must be created keeping in mind that ALL the parts must fit a profile group.

2.4 Toolings

2.4.1 General Toolings

Toolings are, with profiles groups, very important in the WinSER operations. They are used to define where to dispatch the parts in the production process. Each component has toolings assigned to automatically, regarding the drawing of the part. These toolings are the classic toolings. In addition to these classic toolings (Cutting, Drilling, Marking, Coping, Bending), it's possible to create additional toolings. To do so, go to {Data / Toolings}:

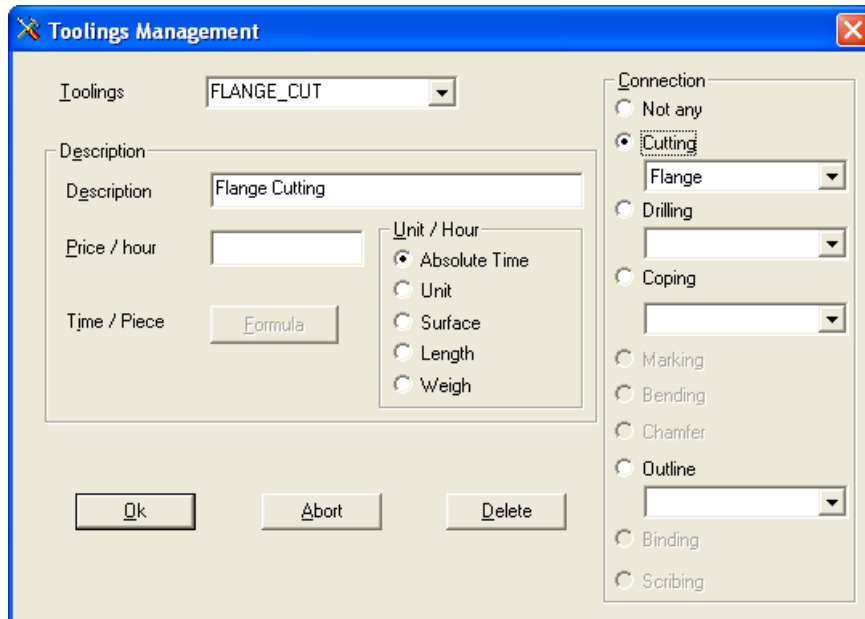


Fig. 2.4.1 – Toolings

In this example, a tooling named "FLANGE_CUT" was created and is linked to a classic tooling "cutting" in the flanges. This way, when there is a flange cut in the drawing of a part, WinSER will assign automatically the FLANGE_CUT to the component's toolings.

It's also possible to create toolings with no connection to classic tolling such as painting, quality control, etc. These toolings will have to be assigned manually to the components or using standard toolings rules.

2.4.2 Standard Toolings

Standard tooling is used to add toolings to components even when there is no tooling in the drawing of the component. This is useful when the user wants to add automatically manual toolings such as painting, shot blasting, etc. for production tracking purposes (barcode reader terminals, manual feedback).

To configure a standard tooling, go to {Data / Standard Toolings}:

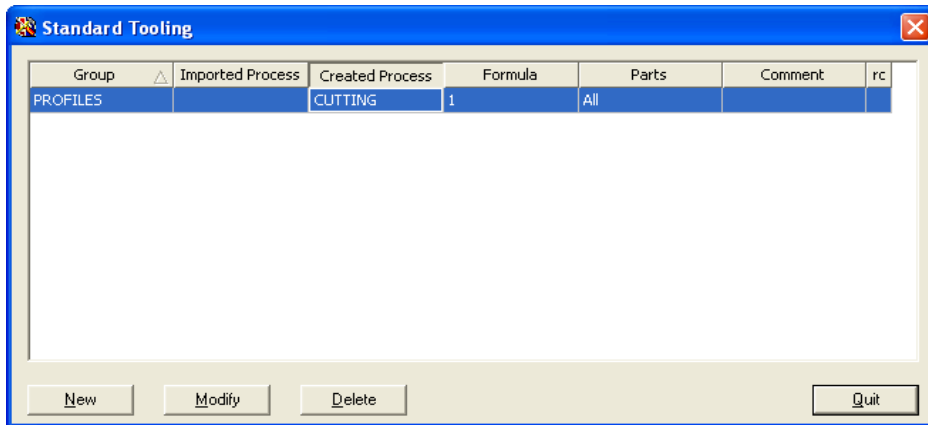


Fig. 2.4.2 - Standard Toolings

Click on New to create a new standard tooling:

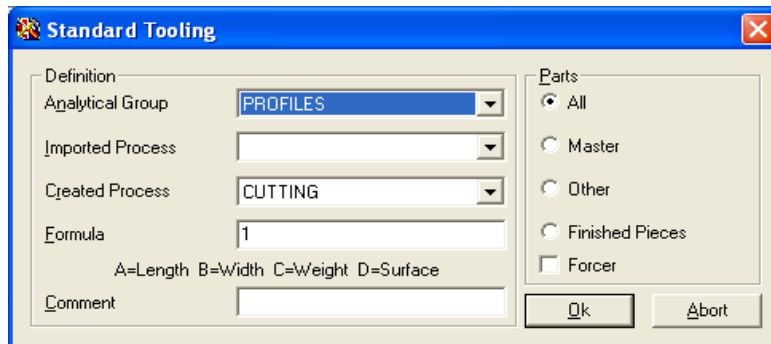


Fig. 2.4.3 - Standard Tooling Configuration

Field	Description
Definition	
Analytical Group	Profile Group to whom the standard tooling is for
Imported Process	Tooling to be transformed (if selected)
Created Process	Tooling created
Formula	1
Comment	Comment to describe the standard tooling
Parts	
All	The tooling will be applied to all the parts of the profile group
Master	Tooling applied only to the master part
Other	Tooling applied to all the parts except the master ones
Finished Pieces	Tooling applied to the parts which are alone in an assembly (i.e. don't need assembly process)
Forcer	To force the tooling assignment.

In the example, the CUTTING tooling will be added to ALL the parts belonging to the profile group PROFILES.

2.5 Tooling Cycles

After having properly created the profiles groups, one needs to set up the tooling cycles. A tooling cycle determines the longest path in the workshop for a part belonging to a specified profile group.

To define the tooling cycle of a profile group, go to {Data / Tooling Cycles}:

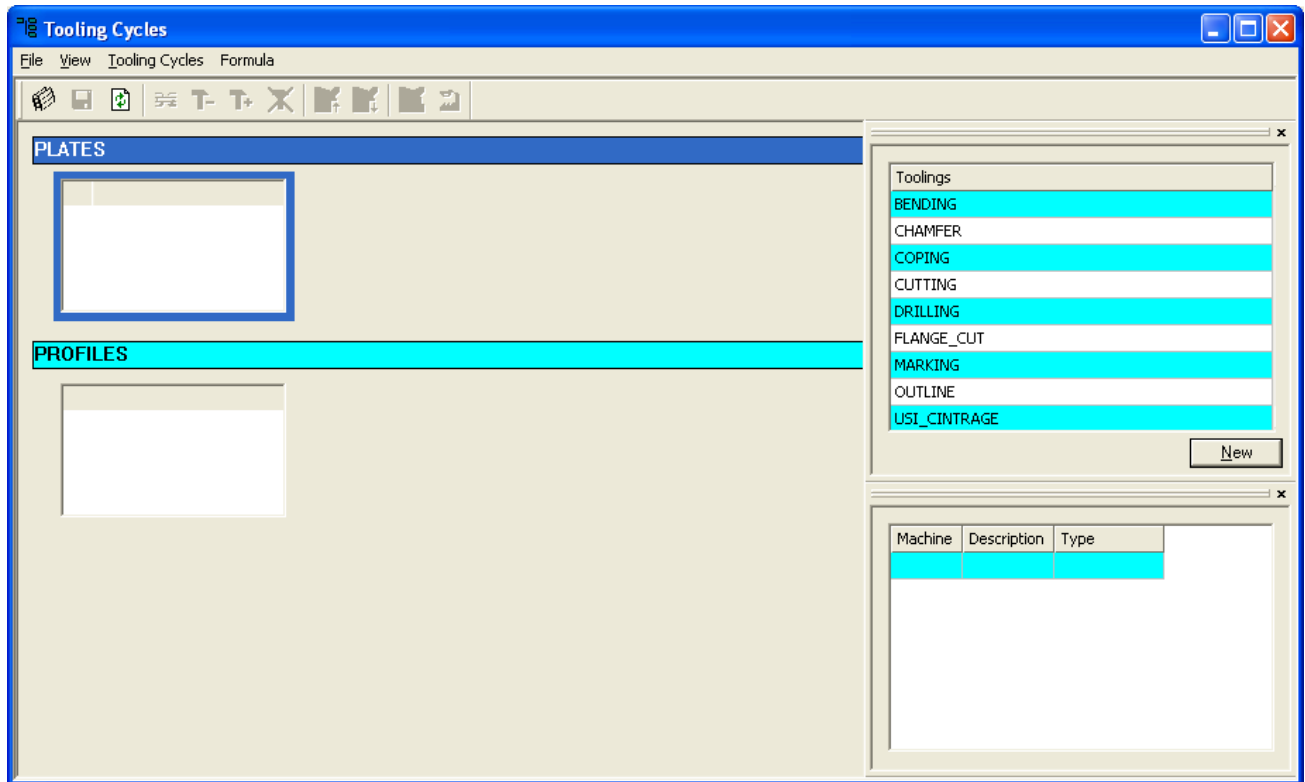


Fig. 2.5.1 - Tooling Cycles

Note the lines representing the profiles groups. Now define the tooling cycle for the first group and assign the machines / workstations to each tooling / operation of the tooling cycle.

2.5.1 Creating the Tooling Cycle

To do so, drag and drop the toolings from the box on the right hand side of the window to the empty boxes.

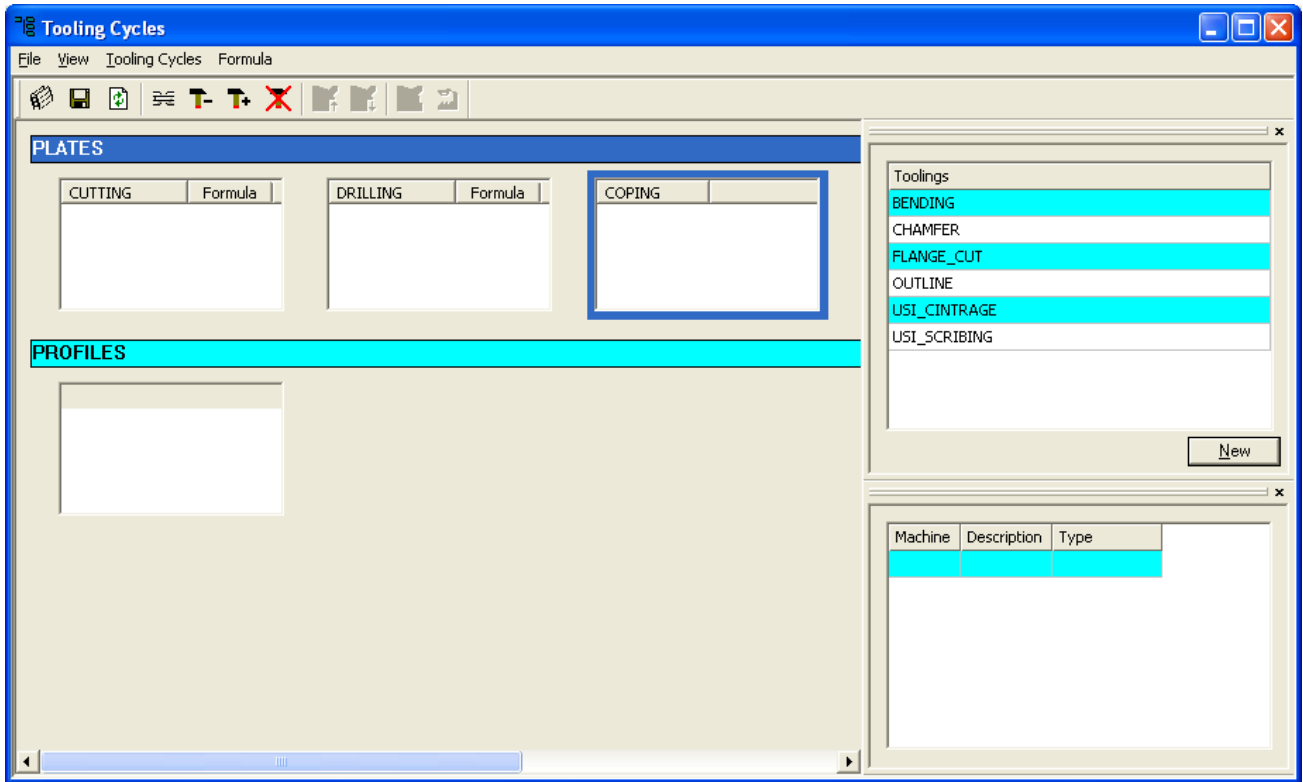


Fig. 2.5.2 - Tooling Cycles - Creating the Cycle

You can change the tooling order by clicking on a box and moving it toward left or right using



2.5.2 Creating Machine / Workstations

The machines and workstations need to be created in WinSER. To do so, just click in the machine column in the bottom right box and enter the name of each machine. Names must not contain spaces. Then, select the type of machine (cut for cutting machines).

2.6 Formulas

When releasing a job to production, WinSER can calculate the estimated time needed to process this job. Each workstation can have a time calculation formula. A workstation can be a CNC machine, a manual machine or a manual operation, such as painting, quality control, etc. Setting up the formula for one machine is accessible through the Fabrication Job window.

2.6.1 Creating a Time Calculation Formula

To start, access the tooling cycles menu via {Data / Toolings Cycles}. Then, in a tooling window, right click on the machine that is required to have a time calculation for production and select "Formula":

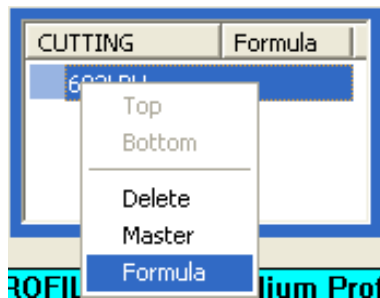


Fig. 2.6.1 – Opening the formulas

In the example, a formula will be created for a machine type with a saw. In the window that opens when "Formula" is clicked, select the excel file that matches the machine type:

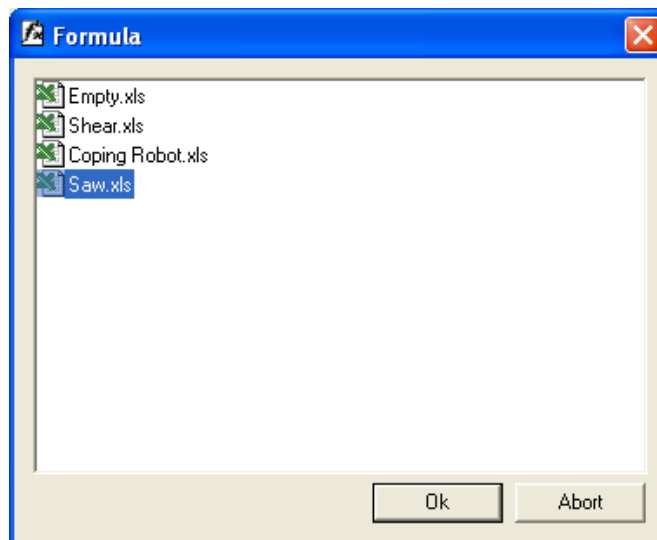


Fig. 2.6.2 – Selecting the type of formula

An Excel file will open and it has 3 tabs: RESULT, VAR and CALC. The VAR tab contains all the necessary tabs for calculating the tool time. All the orange fields contain the information that is automatically imported from the pieces that are produced. Typically nothing needs to be changed in the VAR tab.

The CALC tab contains all the formulas that are used to calculate the tool time.

The tab RESULT contains the results of the calculations along with the various parameters of the machine, such as shut down time, the blade speed, etc.

The tool time result must imperatively be attached to the RESULT tab, in field A1 and needs to be in seconds for 1 part..

	A	B	C	D	E	F	G
1	57.00		Tooling Cycles	PROFILES_01			
2			Tooling	CUTTING			
3			Machine	603LBH			
4							
5							
6							
7							
8							
9							
10							
11							
12							
13	Piece Length	0	mm				
14	Web Thickness	0	mm				
15	Flange Thickness	0	mm				
16	Section	0	cm ²				
17							
18	Positionning speed	30	m/min				
19							
20	Cutting						
21	Cutting Speed	30.1	cm ² /min				
22	Time	0	sec				
23	OPERATION	QTE	TIME	TOTAL TIME			
24	Fermeture Etaux Totale	1.00	30.00	30.00			
25	Rotation scie	0.00	15.00	0.00			
26	Coupe	2.00		0.00			
27	Remontée Partielle	1.00	6.00	6.00			
28	Fermeture Partielle	1.00	6.00	6.00			
29	Remontée Totale	1.00	15.00	15.00			
30	Translation	1.00	0.00	0.00			
31	TOTAL			57.00			
32							

Fig. 2.6.3 - Tab RESUL

Once the formula to calculate the time for a machine is created, the window must be closed and select "Yes" to save.

There will now be an icon beside the tool name, indicating that a time calculation is associated with the tool:


CUTTING	Formula
603LBH	

Fig. 2.6.4 – Formula Icon in Front of the Machine

When sending to fabrication, the production time for each machine that contains a formula is displayed beside the machine it corresponds to:





CUTTING	Time
 1003DFB	
 603LBH	0:29:56

Fig. 2.6.5 – Estimated Time for Production Using WinSER

2.7 Creating a Fabrication Job

A fabrication job is a selection of parts grouped together to be sent to the workshop.

2.7.1 Parts Selection

Drag and drop components in the selection window and click on . If you want WinSER to estimate the production time (if formulas have been created), click on .

This following window should appear:

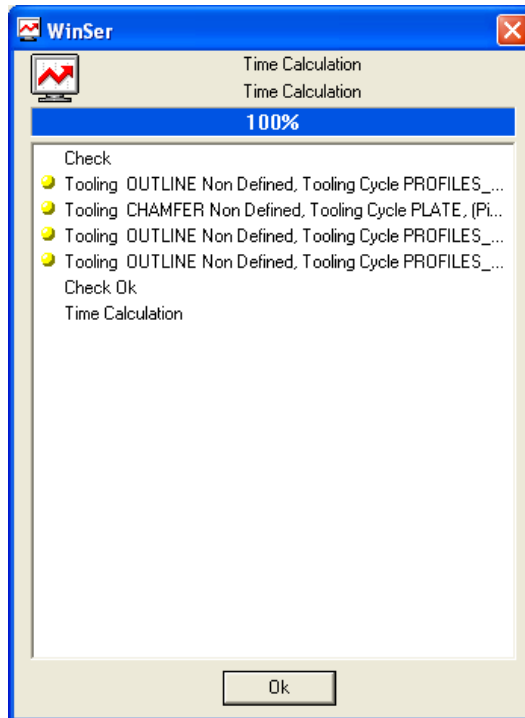


Fig. 2.7.1 - Components Checking

The yellow dots indicate that a tooling has not been set up in a tooling cycle. This won't stop the process but the parts with these toolings won't be sent to the appropriate workstation. Click OK to continue.

Red dots indicate that a part in the selection doesn't belong to any profile group. This will block the process. Review the profile groups or remove the part(s) from the fabrication job.

2.7.2 Cycles Overview

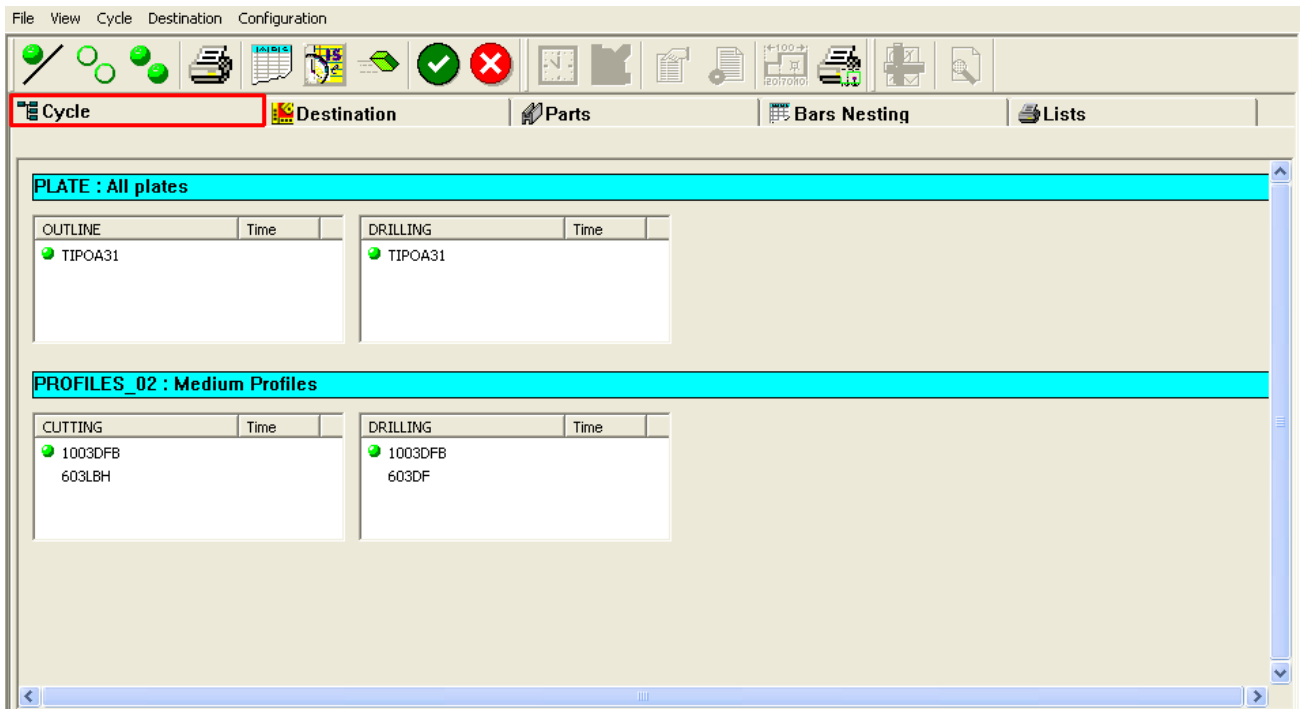


Fig. 2.7.2 - Cycles Overview

Here are displayed the tooling cycles of the profiles groups of the selected parts. When two machines are available for a tooling, WinSER automatically sends the parts to the first machine. However, it's possible to assign manually the parts to a specific machine. To do so, either double click on a machine to turn it on (green dot) and unselect the other machine, or right click on a machine and select "machine". Then, in the following window, drag and drop the components from a machine to the other. After validation, the tooling box should look as following:

CUTTING	Time
● 1003DFB	0:00:00
● 603LBH	0:00:00

Fig. 2.7.3 - Multiple Machine Selection

Note the blue dots indicating a multiple machine selection for a tooling.

2.7.3 Export Directories

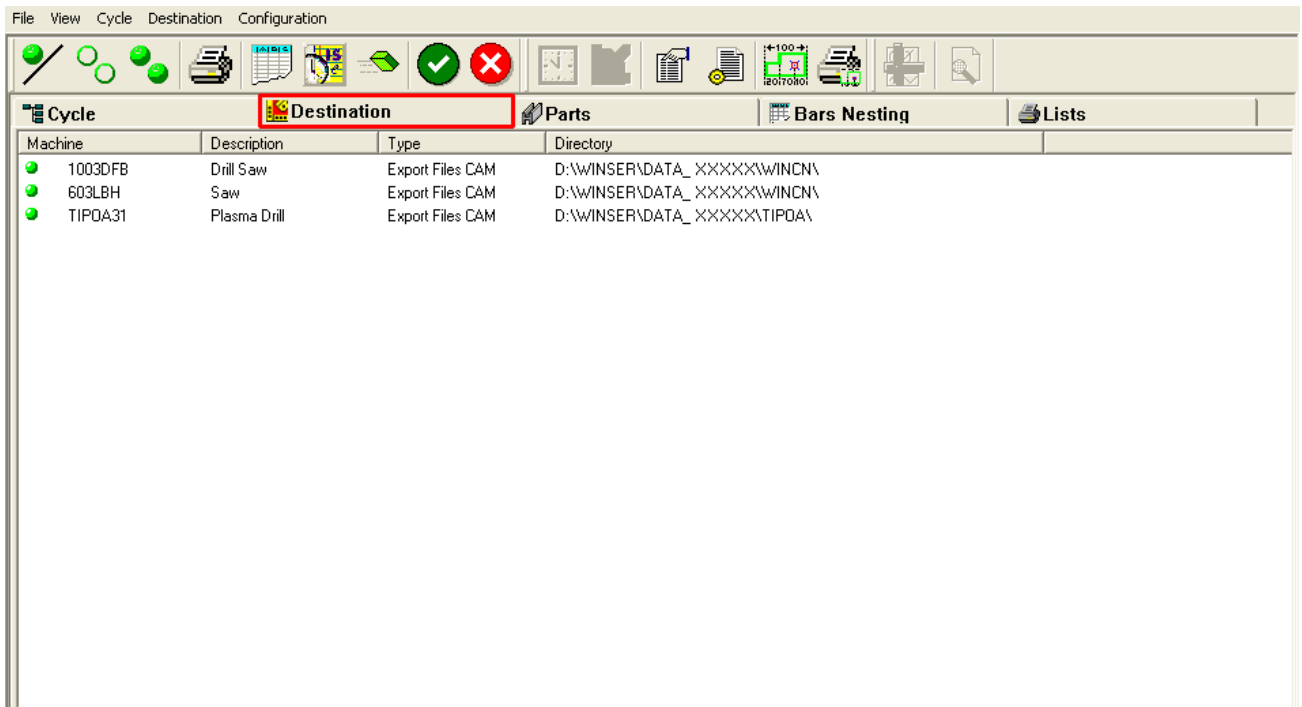


Fig. 2.7.4 - Export Directories

For each machine / workstation used for the current fabrication job the export directory is displayed, i.e. where the CAM files will be created. It is preferred that the folders are located on the server, making it easier to access from other computers. Do not create these folders on a dummy PC. It is strongly suggested to not create these folders directly on the machines; this is for the reason that the machine could be shutdown which would not allow a user to create or write to the file when making changes in WinSER, thus not making any saves/changes.

2.7.4 Parts List

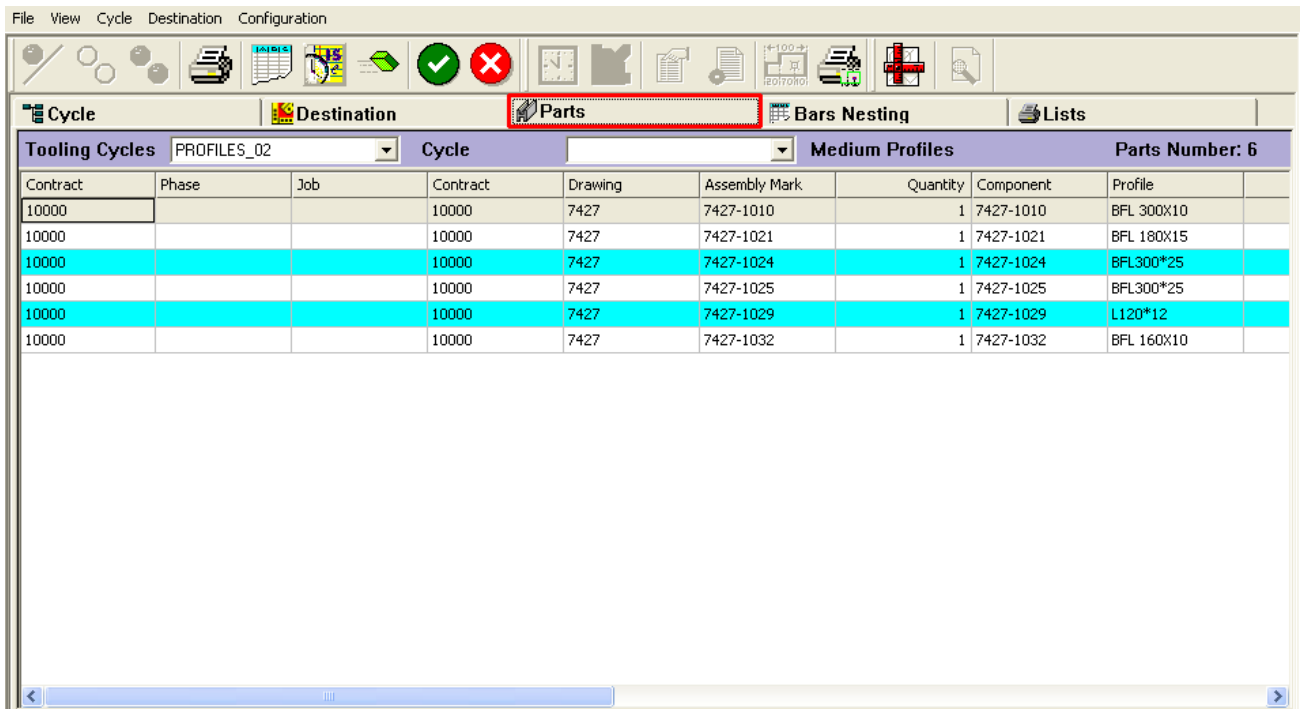



Fig. 2.7.5 - Parts List

This tab displays the components forming part of the fabrication job. They can be shown by tooling cycle or tooling.

2.7.5 Reports


Bars Nestings and Lists tabs allow to preview and print bar nesting reports (if WinBAR is installed) and workshop documents. Just double click on a report name to turn it green so it will be printed when releasing the fabrication job.

2.7.6 Releasing the Fabrication Job

To create the cam files and print the workshop documents, just click on . If the fabrication job requires to be saved, answer "Yes" to the fabrication backup question. Then, name the fabrication job and add optional information if so desired:

Fabrication Job	
Created on	05/08/2009 A 12:00:01
Name	TEST
Description	Test fabrication job
Date	
Beginning	05/08/2009
End	08/11/2009
Delivery	01/12/2009
Remark	
Type	
Shipping Code	
Bar Code	
Parts	31
Ok Abort	

Fig. 2.7.6 - Fabrication Job Backup

When the job has been released, it appears in the job list (click on  to open it) with a colored progress bar. It indicates the status of the fabrication job: light green means that the parts have been sent to production (cam files created). If the destination folders in the cycle calculation window are not selected, the job will be created but not released to production.

To open a fabrication job, right click on the job and select "Fabrication Job".

2.7.7 Production Feedback

If the workshop is equipped with FICEP machines, WinSER can "read" their production datas and insert them into the system. This allows for monitoring the production directly in the main window of WinSER. This automated feedback works only for cutting/drilling/coping operations. If feedback for assembly/manual workstations is desired, then the data must be inputted manually through {Production / Manual Input}.

2.7.8 Manual Feedback

To input completed production, simply click on  or via the menu {Production / Manual Input}.

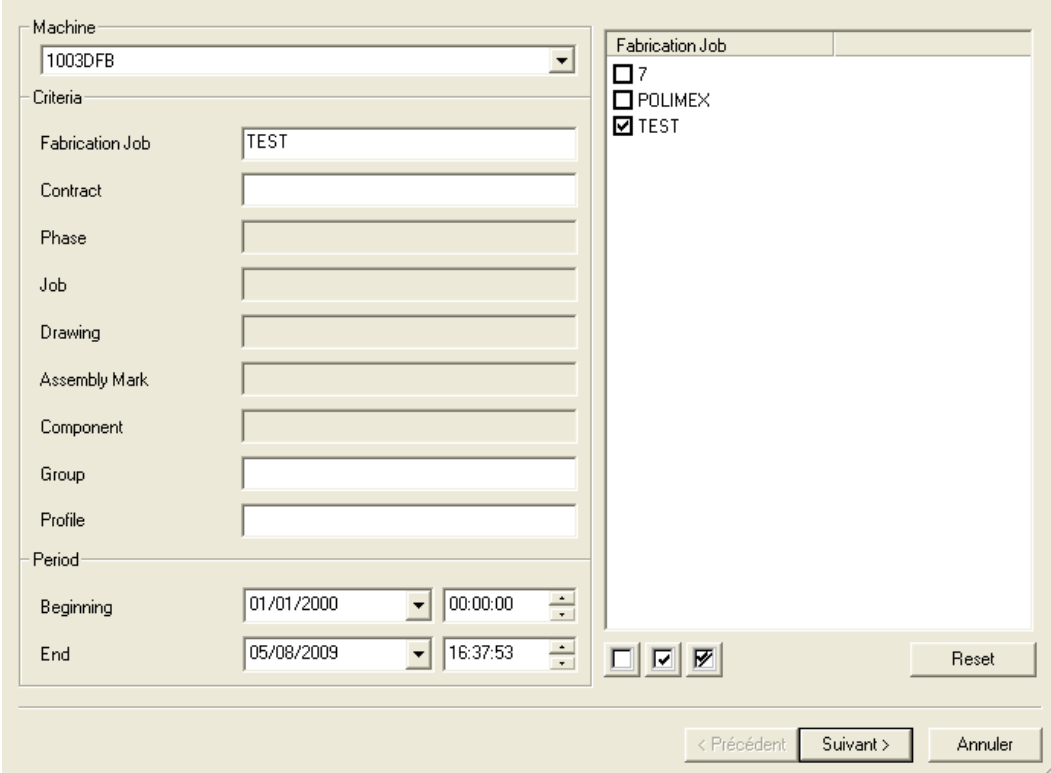


Fig. 2.7.7 - Manual Feedback – Filters

Select the machine or computer of interest to update the production data. It is also possible to use filters in the section "Criteria". Click "Next" to proceed.

Component	Profile	Group	Quantity To Produce	Executed Quantity	Produced Quantity
7427-1010	BFL 300X10	PROFILES_02	2	0	1
7427-1021	BFL 180X15	PROFILES_02	2	0	2
7427-1024	BFL300*25	PROFILES_02	3	0	3
7427-1025	BFL300*25	PROFILES_02	2	0	2
7427-1029	L120*12	PROFILES_02	1	0	0
7427-1032	BFL 160X10	PROFILES_02	2	0	0

Fig. 2.7.8 - Manual Feedback - Quantity Input

Insert the number of parts produced on the current machine / workstation. It's also possible to set all the produced quantities to their maximum value by clicking "Auto". Click "Next" to continue.

Informations

Fabrication Time:

Date:

Time:

Operator:

Treatment:

Feedback:

Control:

Fig. 2.7.9 - Manual Feedback – Informations


To finish the manual feedback input, fill the different information fields and click "Finish". The display automatically refreshes and the color changes to display the production information's:



Fig. 2.7.10 - Manual Feedback – Display

The production status is visible from the contract to the assembly mark, through the fabrication jobs.

2.7.9 Automatic Feedback

For the FICEP machines and badge scanners (option), it is not necessary to input the production data manually. Simply click on  to start the process to collect the data.

Attention: The information is retrieved in real time. However there could be a delay from cutting the piece to visualizing the update in WinSER. This is due to the delay time for the machine to write to the database. Also, make sure that the machines completes the program prior to retrieving data, this will make sure the data is correct.

2.8 Reports

In addition to the progress bars on the screen, WinSER can create detailed reports from the production information. These reports are assessable via the menu {Production / Statistics}.

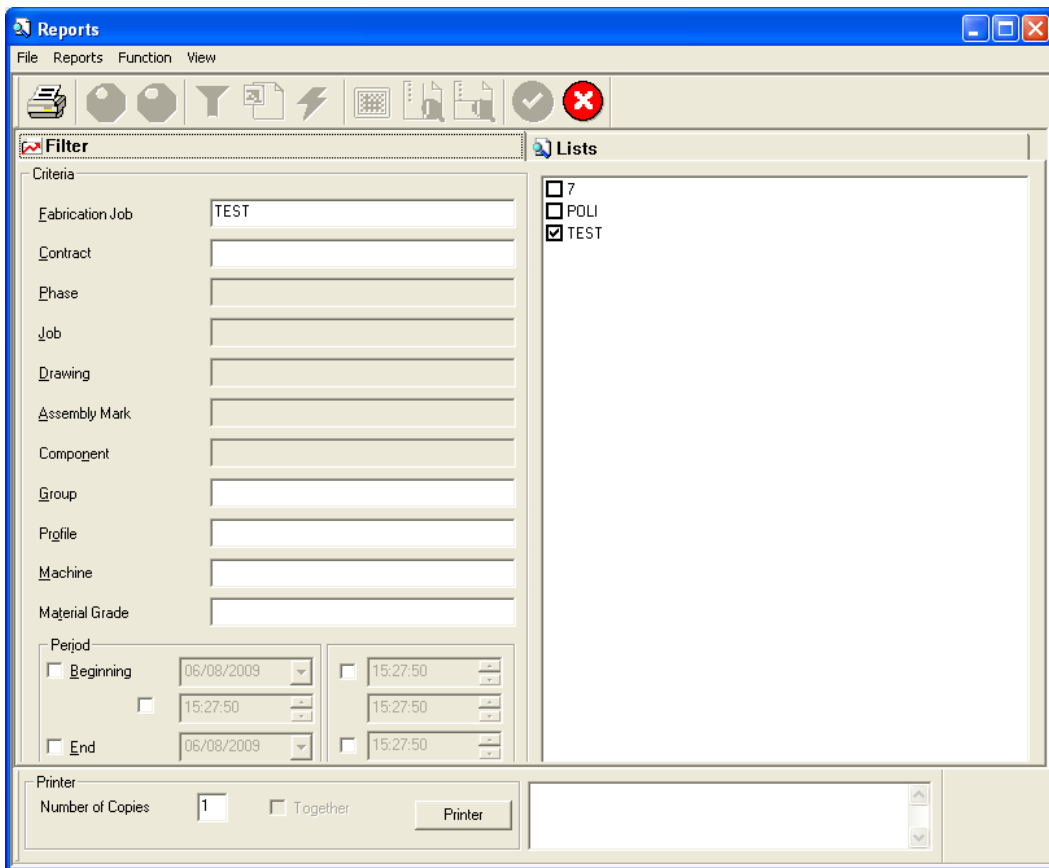


Fig. 2.8.1 - Production Feedback Reports

In the "Filter" tab, it is possible to precisely select the information that is required. As a minimum requirement for a filter, a Fabrication Job or Contract must be selected.

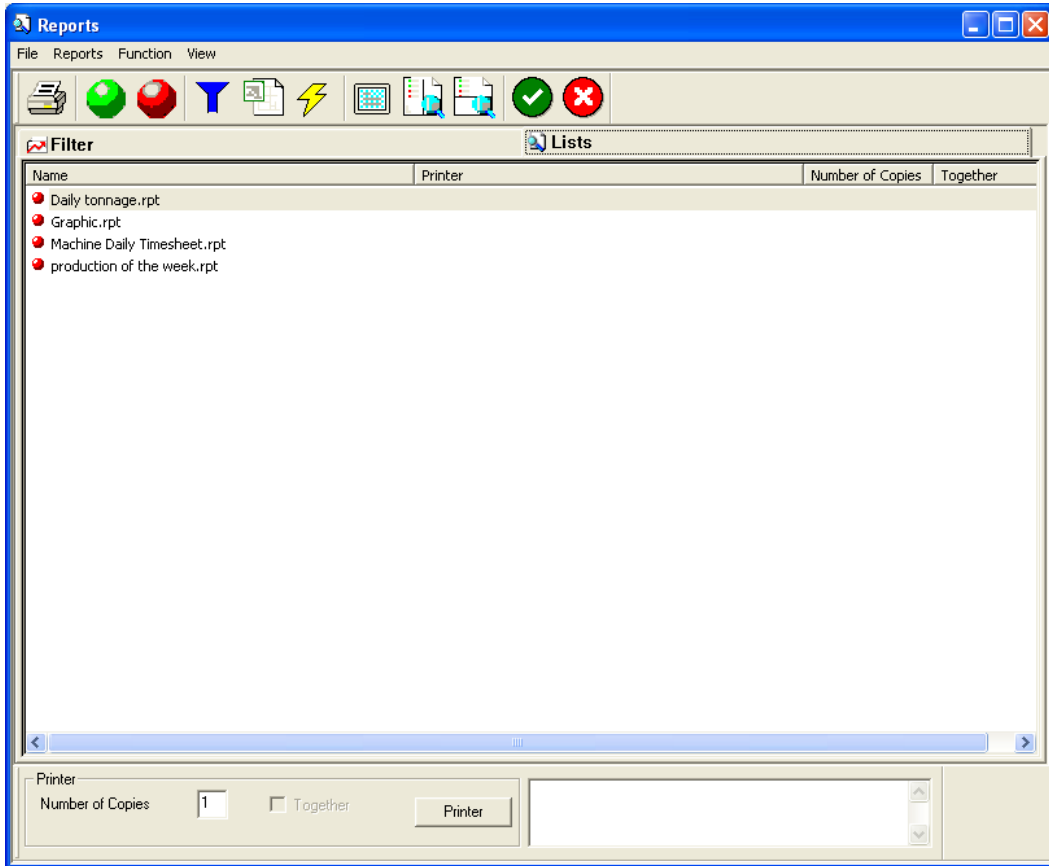


Fig. 2.8.2 - Production Feedback Report List

The tab "Lists" regroups all the possible reports. To preview a report, click on the desired one and


then click on one of the following buttons:   . To print one or more reports, double-click the corresponding line to select it (the light turns green) then click on .

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Steel Projects is a leading European Software Development Company. Our market leading Windows based modular CAD CAM Production software (WinSTEEL) has provided tremendous time and cost savings to Structural Steel Fabricators for over 20 years.

Scribing – automatic import and scribing of associated parts and their marks, less human errors enabling fast accurate throughput and assembly.

Bar Coding – instant tracking and database update of parts from arrival, through manufacture to dispatch and assembly.

Our fully integrated modular software provides the Structural Steel Fabricator with the solution he has been searching for, a scalable system to track and monitor both labour and material from estimation to delivery.

From Estimating, Contract Management, Suppliers, Material Enquiries, Purchasing, Orders, Invoices, Material Delivery, Stock Control, CAD Import, Bar and Plate nesting, Machine Timings, Bar Coding, Employee Time Cards, Part Audit Trail to CAM file routing to machines.

Estimating – quickly create accurate concise estimates using latest supplier price information from manual input, from imported excel sheets or WinSTEEL import.

Purchasing – automatic creation of contracts and prelim material lists, generate pricing enquiries, raise orders receive deliveries

Stock – stock control, automatic material addition from orders, material off cuts automatically added, reports materials received and allocated, outstanding orders.

Time – instant automatic allocation of employee time against actual contract / part / activity, salary preparation, true contract costing and timings.

Cost – up to date, accurate comparison between budget and actual cost, easy comparison and reporting.

WinSTEEL - importation of CAD files, contract phase and part management, profiles database, machine and tooling cycles.

WinSER – optimized machine routing, machine cycle times for parts and bars, machine load optimization, contract / load status at a glance, automatic feedback of machine times, planning control.

Nesting – Bar and Plate nesting, easy to use, fast and accurate, minimizes waste, improves productivity.

Post processors – maximize operator efficiency with single GUI, easy to use drag and drop functionality, available for all types of machines.

Unlike other MIS software this is a truly flexible, user-friendly plug and play system and does not require a software engineer to spend weeks or months to integrate the software into the Company's production machinery systems.

Steel Projects is the only software system that provides on-going feedback on workshop efficiency and machine utilization direct to the Production or Workshop Manager's PC.

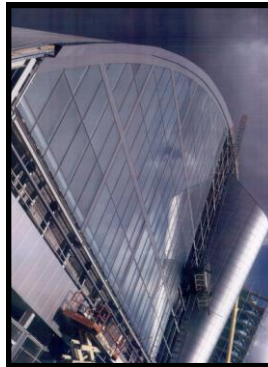
The real-time information provided can then be used to create reports on the efficiency of individual machines or the overall workshop. This data is invaluable to any manager requiring confirmation of or revision to current time scheduling, stock control, purchasing, nesting, cost analysis and capitalization of new machinery.

Our software package really is one of the easiest ever systems to implement and the modular nature of the software enables clients to choose to introduce the module, or modules, that best suit their business or working practices, thereby gaining the maximum financial benefit.

From large to small structural steel fabricators we help maximize their production efficiency, reduce their costs and increase their profitability.



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