

P.E.P. TECHNOLOGY[©]

Automated Manufacturing with High Tech Software

The P.E.P. INVENTORY SOFTWARE

The Inventory software is a *graphical* plate-tracking program that tracks both *rectangular* and *irregular shaped* remnants. The software works automatically and interactively with all of the P.E.P. Nesting modules. As inventory plates and remnants are nested on, the nested plates are automatically "ALLOCATED". Plates remain "allocated" in the inventory until they are cut, at which time the balance of the plate will be designated a "remnant", if all of the material is not used.

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TERMINOLOGY

Allocated Implies the plate has been nested on, but not cut.
 Remnant Implies the plate has been cut and put back into inventory
 Preview window Displays the highlighted plate and or the nest when the plate is allocated
 Preview (+ / -) Displays the history of plate

	Name	Remnant	Date created	Material	Grade	Thicknes	Descripti	Orig size	Curr size	Area	Status	Date allocated	On order	P.C
1	1030		03-25-2005	0012	A	.25	MILD STE	48x48	48x48	2304	Allocated	03-29-2005		0329
2	1002		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200	Allocated	03-29-2005		0329
3	1003		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200	Allocated	03-29-2005		0329
4	1004		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200	Allocated	03-29-2005		0329
5	1005		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200	Allocated	03-29-2005		0329
6	1006		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
7	1007		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
8	1008		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
9	1009		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
10	1010		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
11	1012		03-25-2005	0012	A	.25	MILD STE	48x96	48x96	4608				0329
12	1013		03-25-2005	0012										29
13	1014		03-25-2005	0012										29
14	1015		03-25-2005	0012										29
15	1016		03-25-2005	0012										29
16	1017		03-25-2005	0012										29
17	1018		03-25-2005	0012										29
18	1019		03-25-2005	0012										29
19	1020		03-25-2005	0012										29
20	1021		03-25-2005	0012										29
21	1022		03-25-2005	0012										29
22	1023		03-25-2005	0012										29
23	1024		03-25-2005	0012										29
24	1025		03-25-2005	0012										29
25	1026		03-25-2005	0012										29
26	1027		03-25-2005	0012										29
27	1028		03-25-2005	0012										29
28	1029		03-25-2005	0012										29

PEP - PREVIEW - B0329-04

F4...Mark / Unmark highlighted F5...Add new plate(s) F7...Delete plates	INVENTORY COMMANDS F8.....Filter directory F10.....Search directory Ctrl-D...Edit plate info	Ctrl-I.....Import plates Ctrl-E.....Export plates Ctrl-P....Print directory ESC.....Exit / Cancel
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INVENTORY DIRECTORY FEATURES

The highlighted nest in the directory below displays the word **ALLOCATED** in the status column to the right of **AREA**. A picture of the scheduled nest will appear in the **PREVIEW** window until the plate is cut and the remnant placed into inventory.

Nested plates that have been “cut”, the nest closed and the remnant put back into inventory will display the word **REMNANT**.

Remnants are automatically defined by the software when the skeleton parameters are filled in. The stair step skeleton slice on the nest below is an example of how the remnant gets defined automatically.

Remnants for plates that have been sliced along the stair step cut or at the right edge of the nest will have the status changed to remnant once the plate has been reported cut.

Date created	The date the plate was put into inventory.
Status	Allocated implies the plate has been nested on but not cut.
Date Allocated	The date the plate was nested on.
Preview	Displays the highlighted plate and nest when allocated but not cut.

Name	Remnant	Date created	Material	Grade	Thicknes	Descripti	Orig size	Curr size	Area	Status	Date allocated	On order	P.C
1		03-25-2005	0012	A	.25	MILD STE	48x48	48x48	2304	Allocated	03-29-2005		0329
2		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200	Allocated	03-29-2005		0329
3		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200	Allocated	03-29-2005		0329
4		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200	Allocated	03-29-2005		0329
5		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200	Allocated	03-29-2005		0329
6		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
7		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
8		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
9		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
10		03-25-2005	0012	A	.25	MILD STE	60x120	60x120	7200				0329
11		03-25-2005	0012	A	.25	MILD STE	48x96	48x96	4608				0329
12		03-25-2005	0012										0329
13		03-25-2005	0012										0329
14		03-25-2005	0012										0329
15		03-25-2005	0012										0329
16		03-25-2005	0012										0329
17		03-25-2005	0012										0329
18		03-25-2005	0012										0329
19		03-25-2005	0012										0329
20		03-25-2005	0012										0329
21		03-25-2005	0012										0329
22		03-25-2005	0012										0329
23		03-25-2005	0012										0329
24		03-25-2005	0012										0329
25		03-25-2005	0012										0329
26		03-25-2005	0012										0329
27		03-25-2005	0012										0329
28		03-25-2005	0012										0329

60x120, Spacing=.25

Inventory = 1005, FullPlate

INVENTORY COMMANDS		
F4... Mark / Unmark highlighted	F8.....Filter directory	Ctrl-I.....Import plates
F5...Add new plate(s)	F10.....Search directory	Ctrl-E....Export plates
F7...Delete plates	Ctrl-D...Edit plate info	Ctrl-P....Print directory
		ESC.....Exit / Cancel

The PEP Inventory File Structure

The Inventory is tracked using the following files:

#	File Name	Location	Description	File Example
1	Inventory. NDX	\PEP\Inventory	Index file	Inventory. NDX
2	Inventory. LFN	\PEP\Inventory	Inventory Database	Inventory. LFN
3	Supplier. LFN	\PEP\Inventory	Supplier Database	Supplier. LFN
4	Plate(s). ZIP	\PEP\Inventory	PEP code describing the plate / remnant	1000001.zip
5	Inv- #	\PEP\Inventory\Backup	Backup of Inventory	Inv-050523 092613.zip

GENERAL QUESTIONS AND ANSWERS

1. The inventory program is networkable - yes
2. File Lockout – yes workstations can access the inventory simultaneously and will be updated once every second when a change occurs.
3. The Inventory file location defaults to C unless directed to another drive location.

Importing of Existing Plates and Remnants

Mapping of customer's inventory files

The screenshot shows a Windows XP desktop with a file explorer window titled "P.E.P. 2005 - Inventory_Import" displaying a list of CSV files. The files are:

#	Name	Size	Date	Time
1	409 SST drop sheet.csv	21,620	05-20-2005	09:51:51
2	Aluminum drop.csv	115	05-20-2005	09:51:34
3	Mild steel drop plate.csv	2,676	05-20-2005	09:50:36
4	Mild steel drop sheet.csv	3,905	05-20-2005	09:50:23
5	Stainless steel drop plate.csv	4,096	05-20-2005	09:49:53
6	Stainless steel drop sheet.csv	10,307	05-20-2005	09:49:11

An "INVENTORY IMPORT MAPPING" dialog box is open, titled "(c:\PEP\Inventory\Import\409 SST drop sheet.csv)". It contains the following text:

Enter the column numbers for the following fields.
You can leave the fields blank.

File contains a header to be ignored

Field	Column
Name	
Material	
MaterialDesc	
Size	
Width	
Length	
Qty	
CostPerPound	
Date	
Location	
Application	
Notes	
Specification	
PO	
SupplierID	

COMMANDS

F1.....Accept all entries
ESC...Exit / Cancel

INVENTORY FAQ:

1. How are plates put into inventory?
 - a. Automatic input from a spreadsheet or MRP output
 - b. Manually typed in
 - c. Remnants are saved into inventory
2. Who can view the inventory?
 - a. Any PEP workstation, including the Shop Floor module
3. How are plates taken out of inventory?
 - a. As PEP nests on plates, Inventory is depleted
4. Can I print out the inventory?
 - a. Yes, but as soon as you do, it becomes history, instead of current information. You will get more accurate knowledge from leaving it in the computer.
5. Can I update the inventory automatically from my MRP system?
 - a. Yes – any comma separated value file can be imported into the Inventory
6. Can PEP Inventory update my MRP system?
 - a. Yes – PEP can output a file to update your MRP system with Inventory contents. This may take some custom programming to suit your format, but it is a simple task.
7. Can inventory give my purchasing agent a “Buy” list?
 - a. Yes