

PN SIMPLE OPTIMIZER

Version Presto

Special customization service: contact@pn8.cjb.net

Installs the software:

Minimum requirement: Microsoft Excel 97 or later versions.

1. Extracts the "PNSO.ZIP".
2. Runs the "setup.exe".
3. Follows the instruction.
4. Restarts the computer.

Note: Excel macro security must be set to "medium" or "low" to enable the macro inside PNSO workbook.

Opens the software:

1. Clicks the software icon in the programs group.



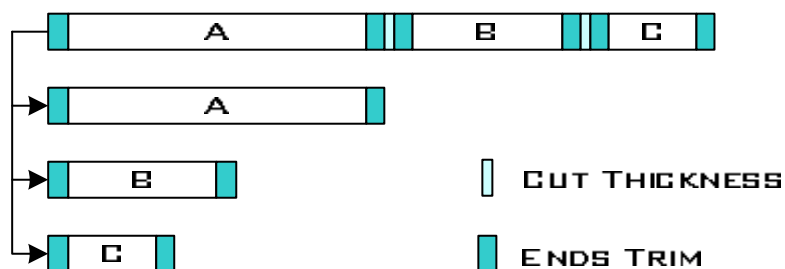
Note: In order to use the software, PNSO command bar must be loaded. This is automatic when starting the Microsoft Excel.

Saves workbook to a new name:

1. Save-as the PNSO workbook to a desired new name. (Optional)

Enters project information:

1. Enters the *project name*. (optional)
2. Enters the *cut thickness*. (optional)
3. Enters the *ends trim*. (Optional)



Configures the software:

1. Toggles between decimal fraction and mixed number format.
→ Clicks at the *stock header*.
2. Toggles the auto-erase of input.
→ Double-clicks at the stock header to show yellow headers.

STOCK		ENDS TRIM	
QTY.	NAME	LENGTH	QTY.

Enters stock information:

1. Enters available Stocks in the *stock* column.
2. Enters quantities of each stock in the *QTY.* column.

Note: User must start the input at the first row (5th) and don't leave any blank cell.

STOCK	QTY.
8	22
4	100

Enters part information:

1. Enters names of parts to be cut in the *name* column. (optional)
2. Enters lengths of parts to be cut in the *length* column.
3. Enters quantities in the *QTY.* column. (Blank = 1)

Note: User must start the input at the first row (5th) and don't leave any blank *length* cell.

NAME	LENGTH	QTY.
a	3.9	14
	2.14	28
b	4.63	22

Starts the optimization:

1. Clicks at "*Optimize*" button in the *PNSO* command bar.

Caution: User must complete any cell's value modification before click at the "*Optimize*" button to avoid a software mal function. *If it happens, closes and restarts the software without saving 2 times.*

Note: Any detected input error will be displayed during the optimization and please adjusts the red cells before re-optimizing.



Views the result:

▪ Required Stock Summary

This shows which and how many stocks you need to use in this cutting project. <Information for Quotation and estimation>

STOCK SUMMARY	8	4		
REQUIRED QUANTITY	22	20		

▪ Overall Utilization Percentage

This shows how efficient this cutting project is.

Tip: This information can help you to get the best efficiency by trials of stock input.

84.52%
84.52%

▪ Required stocks, Utilization Percentages and cutting plan.

<Information for the cutting operation>

1	84.63%	8	4.63	2.14		
2	84.63%	8	4.63	2.14		
3	84.63%	8	4.63	2.14		
4	84.63%	8	4.63	2.14		

Note: Stock quantities after the optimization are remaining quantities.

STOCK	QTY.
8	0
4	80



Cutting Assistant:

Enters the *length* that you want.

Note: this *length* don't have to match exactly with the input length

- ❖ Clicks "Find" to locate the cut.

Result:

"Stock" shows which stock the cut requires.

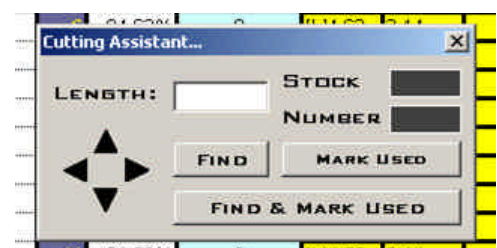
"Number" shows that stock's assigned number.

- ❖ Cuts that stock then Clicks "Mark Used".

Note: "Find & Mark used" automatically combines 2 commands.

Note: User can click on the *arrows* to manually locate the cut.

Double-clicks will skip 5 cells.



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