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# Justin Tools Basket

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## Installation and User Guide

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Justin Luo

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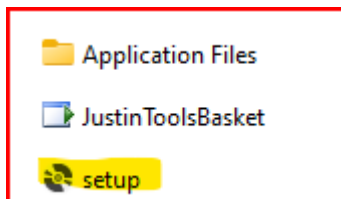
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## About the software

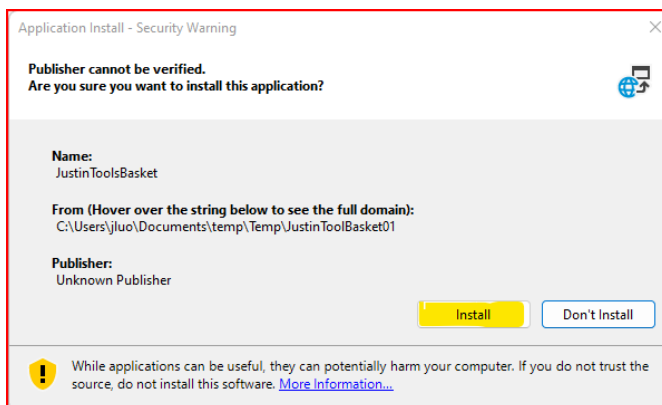
This software help CNC programmer to find all the existing CNC programs in library for a job automatically and copy them into a job folder. Then, CNC programmers can load all the programs from this folder to nest them together without searching them in the library one by one manually. It also contains small tools to add printing labels to the CNC program files, print PDF drawing packages, and add PDF file links to the part drawings in the Excel BOM.

## 1. Installation steps

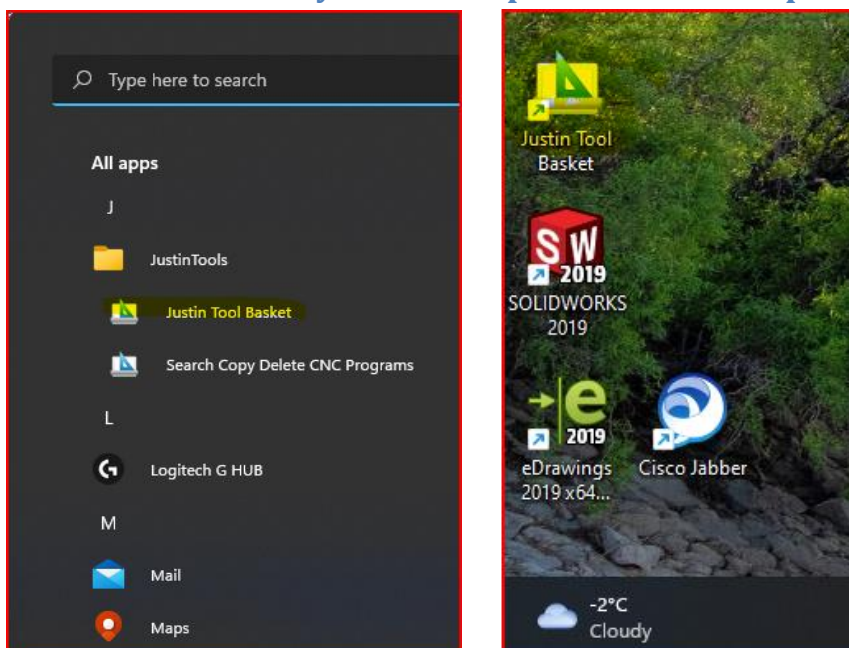
### 1.1 Double click the file Setup.exe in the .zip installation file.



### 1.2 Click Install button.



### 1.3 Find the icon in your start-up menu or desktop.



## 2. How to use it for a job:

### 2.1 Introduction of main interface

#### 2.1.1 Main interface

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Open Excel File C:\Users\jluo\Documents\temp\WO\Test\ShearList-VCsnet-CA-KVESJ-C22018A.xlsx Find Excel File

Excel Sheet Name	Column NO.	First Row NO.	Last Row NO.	Offset NO. for Result Column	Printer
Project Info	8	15	100	4	\famis520\MIS_Copyroom

CNC File PDF Hyperlink

CNC File Extension cp Search Job Folder only: C:\Users\jluo\Documents\temp\WO\Test\c1 Find Job Folder

Search Delete Label

Search And Copy C:\Users\jluo\Documents\temp\WO\STD-KVE Find CNC Library

Search CNC files in library: C:\Users\jluo\Documents\temp\WO\STD-KVE and job folder: C:\Users\jluo\Documents\temp\WO\Test\c1 0%

On the bottom of the interface, the left side is status bar that shows text information of current task, and the right side is a progress bar. They will change according to your task status.

#### 2.1.2 Excel BOM File Location:

Open Excel File C:\Users\jluo\Documents\temp\WO\Test\ShearList-VCsnet-CA-KVESJ-Test.xlsx Find Excel File

You can copy the path name directly into the text box, or use **Find BOM File button** to find the location.

#### 2.1.3 CNC Library Location:

Search And Copy N:\\_STD\_PART\STD-KVE Find CNC Library

You can copy the path name directly into the text box, or use **Find CNC Library button** to find the location. It is where you save your existing standard program files.

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## 2.1.4 Excel BOM information:

Excel Sheet Name: Project Info Column NO.: 8 First Row NO.: 15 Last Row NO.: 50 Offset NO. for Result Column: 4

CNC File: PDF CNC File Extension: cp Search Job Folder only: K:\\_CAN\_23\C23045D

L=12  
H=8  
Offset=4

MATERIAL	X (GRAIN)	Y	PART DESCRIPTION	QTY.	CNC No.	Part No.	Weight Lbs	SQ. FT	Weight Lbs	InJobFolder	In both Job folder and Library
18 GA S/S - #4	10.992	9.811	CA-LIR-Sensor Conduit Box	1	40567XX	1.51	0.748906333	1.51	Exist	K:\_CAN_23\C23045D\4056710X.cp	
18 GA S/S - #4	6.677	5.496	CA-LIR-Sensor Conduit Box-Cover	1	40568XX	0.51	0.254838833	0.51	Exist	K:\_CAN_23\C23045D\4056820X.cp	
18 GA S/S - #4	5.157	2.756	CA-LIR-Sensor Plate	1	40569XX	0.2	0.09898925	0.2	Exist	K:\_CAN_23\C23045D\4056930X.cp	
18 GA S/S - #4	66.014	4.894	CA-Hood-Exhaust Collar-Manrel	1	50034XA-21124	4.52	2.243559139	4.52	Exist	K:\_CAN_23\C23045D\50034XA-21124.cp	
18 GA S/S - #4	41.846	4.394	CA-Plenum-Supply Collar	2	50121XX-6364	5.14	2.53768389	2.57	Exist	K:\_CAN_23\C23045D\50121XX-6364.cp	
18 GA S/S - #4	133.691	25.969	CA-Hood-Light Panel	1	53020XX-1345374I	48.61	24.10987208	48.61	Exist	K:\_CAN_23\C23045D\53020XX-1345374I.cp	
18 GA S/S - #4	133.595	44.037	CA-KVE-BACK	1	53021XX-C22018A	82.36	40.85502094	82.36	Not found	new	
18 GA S/S - #4	132.764	12.323	CA-Plenum-Bottom	1	53052XX-1341E	22.9	11.36146369	22.9	Not found	new	
18 GA S/S - #4	45.126	5.262	CA-KVE-Side Support	2	53116XX-1146	6.64	3.2979585	3.32	Exist	K:\_CAN_23\C23045D\53116XX-1146.cp	
18 GA S/S - #4	52.625	24.99	CA-KVE-INNER END-RIGHT	1	53122XX-531824	18.41	9.132630208	18.41	Exist	K:\_CAN_23\C23045D\53122XX-531824.cp	
18 GA S/S - #4	52.625	24.99	CA-KVE-INNER END-LEFT	1	53123XX-531824	18.41	9.132630208	18.41	Exist	K:\_CAN_23\C23045D\53123XX-531824.cp	
18 GA S/S - #4	56.093	27.87	CA-KVE-OUTER END-LEFT	1	53124XX-531824	21.89	10.85633271	21.89	Exist	K:\_CAN_23\C23045D\53124XX-531824.cp	
18 GA S/S - #4	56.093	27.87	CA-KVE-OUTER END-RIGHT	1	53125XX-531824	21.89	10.85633271	21.89	Exist	K:\_CAN_23\C23045D\53125XX-531824.cp	
18 GA S/S - #4	17.146	19.891	CA-KVE-Grease Trough-RT-With Jet End	1	53126AX-50002	4.77	2.368410319	4.77	Exist	K:\_CAN_23\C23045D\53126AX-50002.cp	
18 GA S/S - #4	17.146	19.143	CA-KVE-Grease Trough-LT-With Jet End	1	53126BX-50002	4.6	2.279346375	4.6	Exist	K:\_CAN_23\C23045D\53126BX-50002.cp	
18 GA S/S - #4	131.636	9.192	CA-KVE-Filter Rack	1	53128XX-334410	16.94	8.402764667	16.94	Exist	K:\_CAN_23\C23045D\53128XX-334410.cp	
18 GA S/S - #4	10.433	20.961	CA-Plenum-Side End-RT	1	53144XX-178457	3.06	1.518663563	3.06	Not found	new	
18 GA S/S - #4	10.433	20.961	CA-Plenum-Side End-LT	1	53145XX-178457	3.06	1.518663563	3.06	Not found	new	
18 GA S/S - #4	132.764	10.315	CA-Plenum-Top	1	53146XX-13463667	19.17	9.510143472	19.17	Not found	new	
18 GA S/S - #4	4.71	14.024	CA-Plenum-Center Mullion	1	53147XX-356	0.92	0.458701667	0.92	Not found	new	
18 GA S/S - #4	6.654	2.913	CA-KVC-Switch Plate	1	53193XX-10	0.27	0.134504875	0.27	Exist	K:\_CAN_23\C23045D\53193XX-10.cp	
18 GA S/S - #4	134.063	15.643	CA-KVE-False Back	1	53295XX-134240TLR	29.36	14.56352437	29.36	Exist	K:\_CAN_23\C23045D\53295XX-134240TLR.cp	
18 GA S/S - #4	131.732	23.74	CA-KVE/W-Inner Front	1	53350XX-134018L2I	43.78	21.71748389	43.78	Exist	K:\_CAN_23\C23045D\53350XX-134018L2I.cp	
18 GA S/S - #4	133.904	33.394	CA-KVE/W-Front	1	53352XX-C22018A	62.6	31.05270956	62.6	Not found	new	
18 GA S/S - #4	25.929	11.665	CA-Hood-Manrel-Access Panel-Distech	1	54055AX-2	4.23	2.100429063	4.23	Exist	K:\_CAN_23\C23045D\54055AX-2.cp	
18 GA S/S PERF	48	11.619	CA-Plenum-Supply Collar-Inner Perf	1	53055XX-152914	4.68	3.873	4.68	Not found	new	

## 2.2 Search CNC files directly from the Library for a job

### 2.2.1 Input all the information in the main interface.

Input the location of excel BOM file, Job folder where you want to copy CNC files to, and CNC library location.

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Open Excel File: C:\Users\jluo\Documents\temp\WO\Test\ShearList-VCSnet-CA-KVESJ-C22018A.xlsx Find Excel File

Excel Sheet Name: Project Info Column NO.: 8 First Row NO.: 15 Last Row NO.: 100 Offset NO. for Result Column: 4 Printer: \\fsmis520\MIS\_Copyroom

CNC File: PDF Hyperlink

CNC File Extension: cp Search Job Folder only: C:\Users\jluo\Documents\temp\WO\Test\c1 Find Job Folder

Search: Delete Label

Search And Copy: C:\Users\jluo\Documents\temp\WO\STD-KVE Find CNC Library

Search CNC files in library: C:\Users\jluo\Documents\temp\WO\STD-KVE and job folder: C:\Users\jluo\Documents\temp\WO\Test\c1 0%

### 2.2.2 Search and Copy from Library

After input all the information, Click **Search and Copy** button. The software will search CNC files for parts listed in Excel BOM. For a part, it will search in job folder firstly. If a CNC file is found in the job folder, the software will skip searching, and will begin to search for the next part in the list. If a CNC file is not found in job folder, it will search in library folder, and will copy matching CNC file in library to Job folder.

### 2.2.3 Open Excel BOM file.

Click **Open Excel File button** to open the Excel BOM file. You will find a column has been added in the BOM file. In column M, some cells contain CNC file path names, and some cells contain “new” and its back color changed to orange. The part with “new” in column M is the one that there is no existing CNC file for it in the library. The cell with label “new” has a hyperlink to the drawing’s DXF file. Click on the cell, it will open the DXF file in your CNC program editor. Create CNC programs for the part and saved them in job folder. Please remember to save new programs whose name with standard affix into your library as well. So, you do not need to create them again for the next job when this part is used again.

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## 2.2.4 Check whether you have gotten all the part CNC programs (optional)

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Open Excel File: C:\Users\jluo\Documents\temp\test\C22244A\ShearList-VCSnet-CA-KVESJ-C22244A.xlsx Find Excel File

Excel Sheet Name: Project Info Column NO.: 8 First Row NO.: 15 Last Row NO.: 100 Offset NO. for Result Column: 4 Printer: \\fsmis520\MIS\_Copyroom

CNC File PDF Hyperlink

CNC File Extension: cp Search Job Folder only: C:\Users\jluo\Documents\temp\test\C22244A\CNC Find Job Folder

Search Delete Label

Search And Copy: N:\\_STD\_PART\STD-KVE Find CNC Library

3 CNC files are not found for parts in BOM in job folder: C:\Users\jluo\Documents\temp\test\C22244A\CNC\ 100%

Click “Search Job folder Only button”. The software will search CNC files in your job folder only. Open Excel file. If “Exist” is shown in the column “L” for some parts, it means their CNC programs have been founded. If “Not found” with Red back color is shown in the column “L” for some parts, it means their CNC programs have not been founded. You need to create one for it.

MATERIAL	X (GRAIN)	Y	PART DESCRIPTION	QTY	CNC	No	PART No.	Weight Lbs	SQ. FT	Weight Lbs	InJobFolder	In both job folder and Library
18 GA S/S - #4	42.014	4.894	CA-Hood-Exhaust Collar	1			50034XX-1294A	2.88	1.427892472	2.88	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\50034XX-1294A.cp
18 GA S/S - #4	108.189	4.693	CA-Hood-Front Support	1			53013XX-2748	7.11	3.525909563	7.11	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53013XX-2748.cp
18 GA S/S - #4	119.691	32.969	CA-Hood-Light Panel	1			53020XX-C22244A	55.25	27.40342069	55.25	Not found	new
18 GA S/S - #4	120.462	44.037	CA-KVE-BACK	1			53021XX-C22244A	74.27	36.83878538	74.27	Not found	new
18 GA S/S - #4	2.831	26.537	CA-KVE-Splice Strip	1			53044BX-61100	1.05	0.521710049	1.05	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53044BX-61100.cp
18 GA S/S - #4	52.126	5.262	CA-KVE-Side Support	1			53116XX-1324	3.84	1.904770917	3.84	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53116XX-1324.cp
18 GA S/S - #4	59.625	25.247	CA-KVE-INNER END-LEFT	1			53123XX-60242A	21.07	10.45383594	21.07	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53123XX-60242A.cp
18 GA S/S - #4	63.093	27.905	CA-KVE-OUTER END-LEFT	1			53124XX-60242A	24.65	12.22645948	24.65	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53124XX-60242A.cp
18 GA S/S - #4	17.146	19.143	CA-KVE-Grease Trough-LT-With Jet End	1			53126BX-29002	4.6	2.279346375	4.6	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53126BX-29002.cp
18 GA S/S - #4	17.146	20.86	CA-KVE-Grease Trough-RT with Single End	1			53126CX-29002	5.01	2.483788611	5.01	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53126CX-29002.cp
18 GA S/S - #4	118.722	9.192	CA-KVE-Filter Rack	1			53128XX-301611	15.28	7.578421	15.28	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53128XX-301611.cp
18 GA S/S - #4	63.094	26.008	CA-KVE-Single End-Right-ContCapt	1			53153XA-60242A	22.97	11.39547744	22.97	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53153XA-60242A.cp
18 GA S/S - #4	118.881	15.643	CA-KVE-False Back	1			53295XX-120241	26.04	12.91427419	26.04	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53295XX-120241.cp
18 GA S/S - #4	118.818	29.74	CA-KVE-W-Inner Front	1			53350XX-120124	49.47	24.5392175	49.47	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53350XX-120124.cp
18 GA S/S - #4	119.904	39.394	CA-KVE-W-Front	1			53352XX-C22244A	66.13	32.80207067	66.13	Not found	new
18 GA S/S - #4	54	3.685	CA-KVE-Bolt Channel Field Joint	1			58030XX-1372	2.79	1.381875	2.79	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\58030XX-1372.cp

If all the parts have “Exist” in the column “L”, it means that you can start to nest them for this package.

MATERIAL	X (GRAIN)	Y	PART DESCRIPTION	QTY	CNC	No	PART No.	Weight Lbs	SQ. FT	Weight Lbs	InJobFolder	In both job folder and Library
18 GA S/S - #4	42.014	4.894	CA-Hood-Exhaust Collar	1			50034XX-1294A	2.88	1.427892472	2.88	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\50034XX-1294A.cp
18 GA S/S - #4	108.189	4.693	CA-Hood-Front Support	1			53013XX-2748	7.11	3.525909563	7.11	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53013XX-2748.cp
18 GA S/S - #4	119.691	32.969	CA-Hood-Light Panel	1			53020XX-C22244A	55.25	27.40342069	55.25	Exist	new
18 GA S/S - #4	120.462	44.037	CA-KVE-BACK	1			53021XX-C22244A	74.27	36.83878538	74.27	Exist	new
18 GA S/S - #4	2.831	26.537	CA-KVE-Splice Strip	1			53044BX-61100	1.05	0.521710049	1.05	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53044BX-61100.cp
18 GA S/S - #4	52.126	5.262	CA-KVE-Side Support	1			53116XX-1324	3.84	1.904770917	3.84	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53116XX-1324.cp
18 GA S/S - #4	59.625	25.247	CA-KVE-INNER END-LEFT	1			53123XX-60242A	21.07	10.45383594	21.07	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53123XX-60242A.cp
18 GA S/S - #4	63.093	27.905	CA-KVE-OUTER END-LEFT	1			53124XX-60242A	24.65	12.22645948	24.65	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53124XX-60242A.cp
18 GA S/S - #4	17.146	19.143	CA-KVE-Grease Trough-LT-With Jet End	1			53126BX-29002	4.6	2.279346375	4.6	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53126BX-29002.cp
18 GA S/S - #4	17.146	20.86	CA-KVE-Grease Trough-RT with Single End	1			53126CX-29002	5.01	2.483788611	5.01	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53126CX-29002.cp
18 GA S/S - #4	118.722	9.192	CA-KVE-Filter Rack	1			53128XX-301611	15.28	7.578421	15.28	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53128XX-301611.cp
18 GA S/S - #4	63.094	26.008	CA-KVE-Single End-Right-ContCapt	1			53153XA-60242A	22.97	11.39547744	22.97	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53153XA-60242A.cp
18 GA S/S - #4	118.881	15.643	CA-KVE-False Back	1			53295XX-120241	26.04	12.91427419	26.04	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53295XX-120241.cp
18 GA S/S - #4	118.818	29.74	CA-KVE-W-Inner Front	1			53350XX-120124	49.47	24.5392175	49.47	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\53350XX-120124.cp
18 GA S/S - #4	119.904	39.394	CA-KVE-W-Front	1			53352XX-C22244A	66.13	32.80207067	66.13	Exist	new
18 GA S/S - #4	54	3.685	CA-KVE-Bolt Channel Field Joint	1			58030XX-1372	2.79	1.381875	2.79	Exist	C:\Users\jluo\Documents\temp\test\C22244A\CNC\58030XX-1372.cp

## 2.2.5 Add Printing Label to All CNC Files

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Open Excel File: C:\Users\jluo\Documents\temp\test\C22244A\ShearList-VCSnet-CA-KVESJ-C22244A.xlsx Find Excel File

Excel Sheet Name: Project Info Column NO.: 8 First Row NO.: 15 Last Row NO.: 100 Offset NO. for Result Column: 4 Printer: \\fsmis520\MIS\_Copyroom

CNC File PDF Hyperlink

CNC File Extension: cp Search Job Folder only: C:\Users\jluo\Documents\temp\test\C22244A\CNC Find Job Folder

Search Delete Label

In each CNC program file within the job Folder, add a print label with project information: Machesstle\_C16318B #H-1 Add

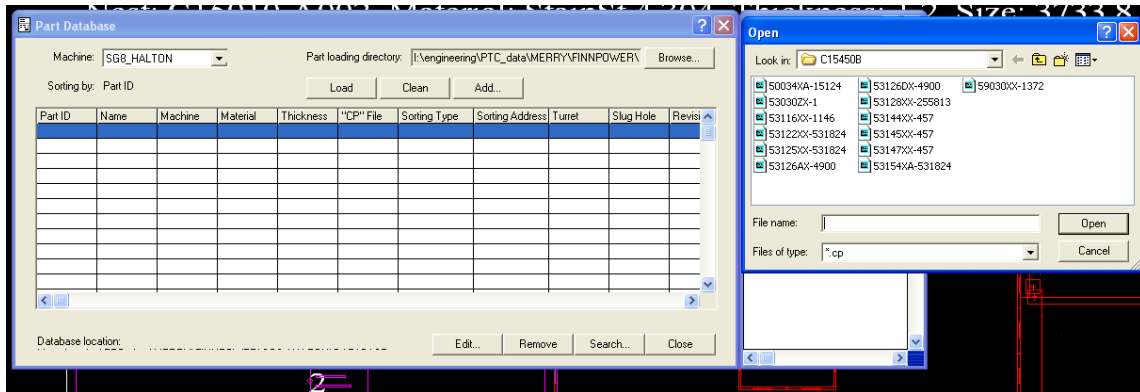
Added printing label to 16 files in job folder: C:\Users\jluo\Documents\temp\test\C22244A\CNC 100%

Click tab “Label”, and input the project information into the highlighted textbox, and then click “Add Button”. The information in the textbox will be added to all the CNC files in the job folder.



## 2.2.6 Load all the parts program files to nest

In your CNC programming editor, you can load all the part CNC programs for this job from the job folder to nest.

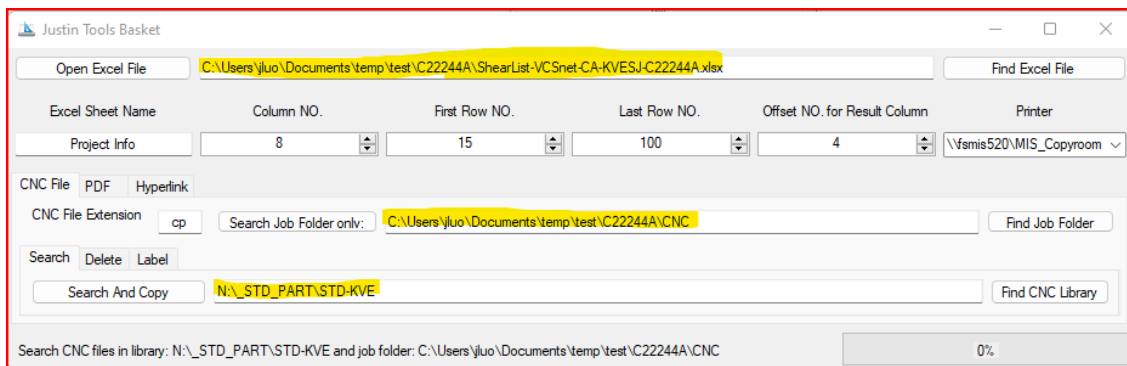


## 2.3 Use an existing nest file as template for a job

### 2.3.1 Copy the template to job folder and input all the information in the main interface.

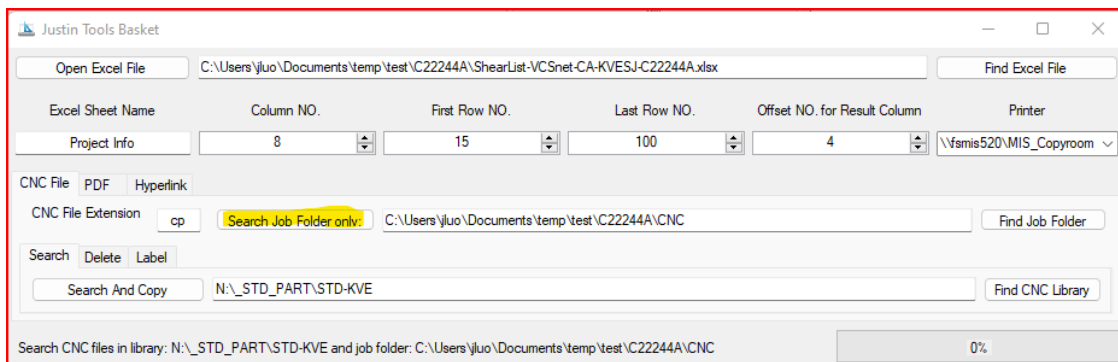
Find a recent nest file that the product sizes are close or same as current job, so most of the parts are in the same size. Copy the existing nest file into the job folder, and all the CNC files in the nest file will also be copied to the job folder.

Input the location of excel BOM file, Job folder where you want to copy CNC files to, and CNC library location.



### 2.3.2 Search Job folder Only Firstly

After input all the information, Click **“Search Job folder Only” button**. The software will search CNC files for parts listed in Excel BOM in job folder.





## 2.3.5 Add Printing Label to All CNC Files

Click tab “Label”, and input the project information into the highlighted textbox, and then click “Add Button”. The information in the textbox will be added to all the CNC files in the job folder.

## 2.3.6 Replace all the CNC files with value “Not Found” in Column L in the nest file.

Open the Excel file, and find all the cells with value “Not Found” in red back color in the column L. Then replace them in the nest file one by one. All the new CNC files have already been in the job folder. This way can save programmer’s time to nest parts.

## 2.4 Print a standard manufacturing package.

For some standard product, there are normally no changes for every release. CNC programmer have already input the PDF CNC file name in column H in the Excel BOM file.

For example, this is a BOM for a control panel with C7 screen, 1 PLC with size 15 X 24.

4	JOB NAME:								
5	Engineer:	Justin			Assembly FileName:			MarvelPstCP-1524C7P1	
6	SERIAL No:				Project Code:				
7	MODEL:				DATE:	3/8/2023			
10	QUANTITY:	1			SHIP DATE:	4/6/23			
11									
12									
13		SHEAR SIZE (inch)							
14	MATERIAL	X (GRAIN )	Y	PART DESCRIPTION	QTY.	CNC No.	PART No.	Weig	
15	16 GA ALUM	14.252	23.252	ELECTRICAL MOUNT PLATE	1		40008-1524		
16									
17	16 GA S/S - #4	39.26	8.448	CONTROL PANEL RH SIDE	1		40004-152407		
18	16 GA S/S - #4	39.26	8.448	CONTROL PANEL RH SIDE	1		40005-152407		
19	16 GA S/S - #4	16.002	25.002	CONTROL PANEL ELE Door	1		40006-1524C7		
20	16 GA S/S - #4	14.5	27	CP SUPPORT PLATE WITH HANGERS	1		40020-1524		
21									
22									
23	MATERIAL	Weight Lbs	SQ. FT				CP_1524C7P1001		
24	16 GA ALUM	6.01	2.301302111				CP_1524C7P1002		
25	16 GA S/S - #4	25.25	10.10360392				CP_1524C7P1003		

## 2.4.1 Input the location and other information of the Excel BOM file.

The screenshot shows the 'Justin Tools Basket' application window. The 'Open Excel File' field contains the path 'C:\Users\jluo\Documents\temp\test\C22244A\ShearList-VCsnet-CA-KVESJ-C22244A.xlsx'. The 'Excel Sheet Name' is 'Project Info', 'Column NO.' is 8, 'First Row NO.' is 15, 'Last Row NO.' is 100, and 'Offset NO. for Result Column' is 4. The 'Printer' dropdown is set to '\\fsmis520\MIS\_Copyroom'. Below these fields are buttons for 'CNC File', 'PDF', and 'Hyperlink'. At the bottom, there is a message: 'There is a PDF file list in the Excel file. Print all the files with hyperlinks in the list :', followed by a 'Print' button and an unchecked checkbox for 'Only Print First Page'.

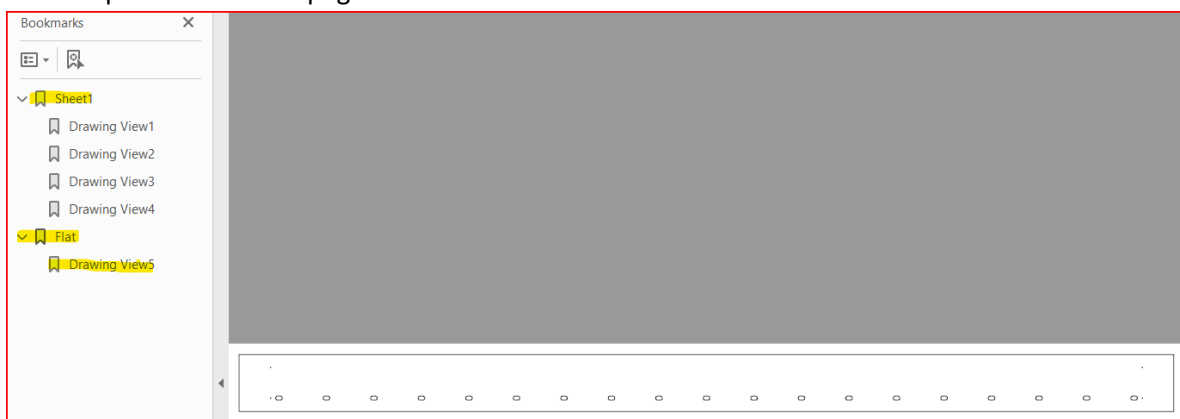
## 2.4.2 Choose the printer.

This screenshot is similar to the previous one, but the 'Printer' dropdown menu is open, showing a list of available printers. The selected printer is '\\fsmis520\MIS\_Copyroom'. Other visible printers include 'MIS\_Copyroom\_KM\_C650', 'OneNote for Windows 10', 'OneNote (Desktop)', 'Microsoft XPS Document Writer', 'Microsoft Print to PDF', 'Fax', and '\\FSMIS520\MIS\_Front\_Desk'.

## 2.4.3 Print the package.

This screenshot shows the 'Justin Tools Basket' interface with the 'Print' button highlighted in yellow. The 'Only Print First Page' checkbox is now checked and also highlighted in yellow. The rest of the interface remains the same as in the previous screenshots.

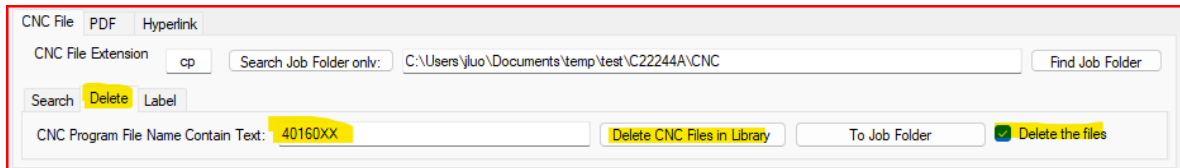
Click “Print **Button**”. If you check the “Only Print First Page”, it will only print first page of every PDF drawing file. If you uncheck the “Only Print First Page”, it will print all pages of every PDF drawing file. In our PDF drawing file, there are normally 2 pages. The first one is the main drawing with 4 views. The second one is for the Flat pattern of the sheet metal part. Normally, we do not want to print the second page.



After click “**Print Button**”, we can get the whole package. First paper is the Excel BOM. Second paper is the main assembly drawing. Then, all the part drawings in the same sequence in the BOM file. The last several papers are CNC files.

## 3. Maintain the Library

### 3.1 Delete program file and keep the old file with affix “-Rev00i”

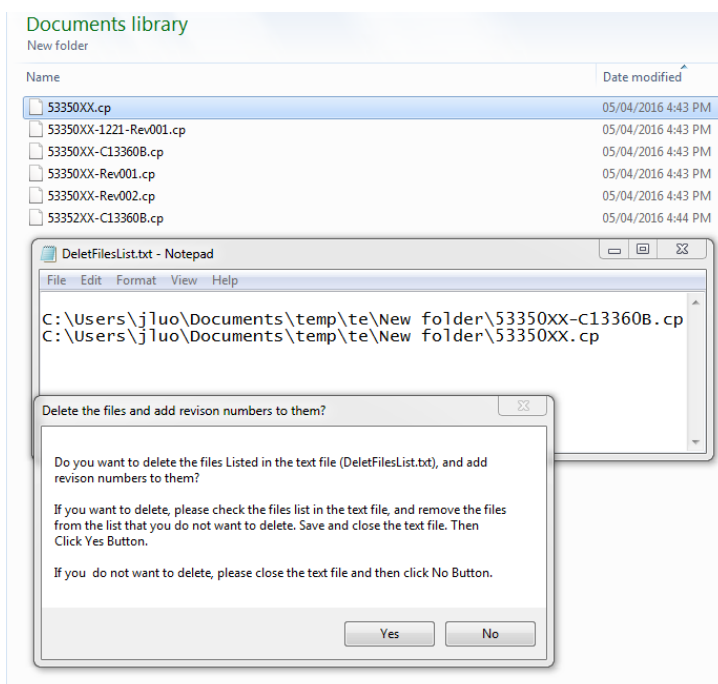


After engineers modify the design of a part, all the CNC program files in the library for this part need to be deleted. Current working program file will be saved as a file whose name carry latest revision number.

For example, 50034XX is a collar part. If an engineer decides to change the top flange width from 1 inch to 1.5 inches from now on. He needs to tell CNC programmer to delete programs for all sizes of collars in database. These files' names contain text “50034XX” and different affix based on the sizes, such as “50034XX-1211”, “50034XX-1214”, “50034XX-810”, “50034XX-1213”, and so on.

All programs for a part should be saved in one folder in your library. For example, CNC programmer Tao in Canada have built a part folder “50034” in database, and he put all the program files whose name contain “50034” in this folder. When the software tries to delete all the files that contain “50034XX” in database, and it finds one file “50034XX-1211” in the folder of “50034”, it will assume all the other files whose names contain “50034XX” are in this folder. For example, 50034XX-1211-Rev001 and 50034XX-1214 should be in this folder. Software will not continue to search other folders for them, and just search in this folder. This is a precondition for this software, and it can save searching time for us.

After clicking” **Delete CNC Files in Library** button “, while checking the “**Delete the Files Checkbox**”, there is message box popping out and “**DeletFilesList.txt**” is shown in notepad. Follow the instruction in the message box to delete or cancel the deleting.



Name	Name
50034XX.cp	50034XX-1-Rev001.cp
50034XX-1.cp	50034XX-12104-Rev001.cp
50034XX-12104.cp	50034XX-12104-Rev002.cp
50034XX-12104-Rev001.cp	50034XX-12104-Rev003.cp
50034XX-12104-Rev002.cp	50034XX-12104-Rev004.cp
50034XX-12104-Rev003.cp	50034XX-12104-Rev005.cp
50034XX-12104-Rev004.cp	50034XX-12104-Rev006.cp
50034XX-12104-Rev005.cp	50034XX-Rev001.cp
Before deleting	After deleting

## 3.2 Move CNC program files with certain text in name to job folder.

CNC File PDF Hyperlink

CNC File Extension cp Search Job Folder only: C:\Users\jluo\Documents\temp\test\C22244A\CNC Find Job Folder

Search Delete Label

CNC Program File Name Contain Text: 40160XX Delete CNC Files in Library To Job Folder Delete the files

When some parts are not used any more, their CNC programs should be removed from database. You can click **To Job Folder button** while checking the checkbox. All the program files whose names contain the certain text in Textbox will be moved to job folder. The software does not delete the files directly, because I want to give you a last chance to check whether you want to delete these programs. In this case, the job folder is like a recycle bin. You can keep the files there for a while, and check the programs there, then manually delete them by yourself.

## 3.3 Copy CNC program files with certain text in name to job folder

CNC File PDF Hyperlink

CNC File Extension cp Search Job Folder only: C:\Users\jluo\Documents\temp\test\C22244A\CNC Find Job Folder

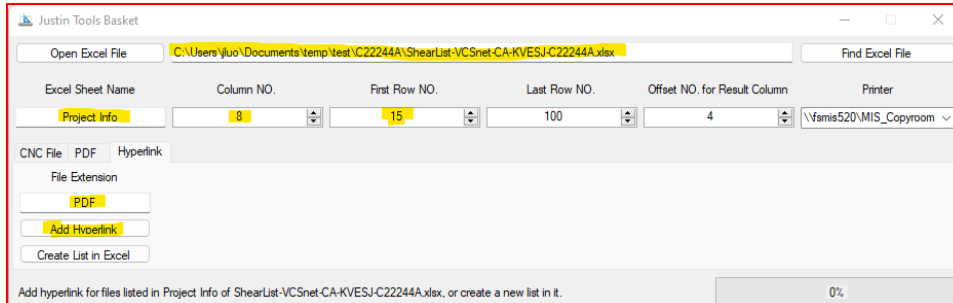
Search Delete Label

CNC Program File Name Contain Text: 40160XX Delete CNC Files in Library To Job Folder Delete the files

When you click **To Job Folder button** while **unchecking** the checkbox, software only copy the program files whose names contain the certain text in Textbox to job folder, and does not delete the ones in library. When you do not have an excel BOM file to provide the program files searching list, you can use this function to search and copy program file from database one by one. In this case, please input the whole file name with extension (50034XX-1211.cp) into the textbox, and so the software will only copy this file; otherwise, it may copy this file's old revision version (50034XX-1211-Rev001.cp) as well.

## 3.4 Add hyperlink to excel BOM file cells for part name.

It can add hyperlink to excel file cells. The hyperlink is linked to a file whose file name is the same as the cell value, and with the file extension specified by you. The file is also saved in the same folder as the excel file.



When you have a excel file which is a BOM of a job or a product, it can help you to find the drawing quickly.

### 3.4.1 Case 1: Add \*.dwg file link to USA dwg drawings and its BOM

I got \*.dwg drawings for KMH hood from USA engineering manager Aaron. There are more than 100 drawings in the folder, and they are for different configurations of hood. There is also a excel file which contain the drawing number and its description inside the folder. From the description, I can find a part drawing.

I can use this tool to create hyperlink in the excel file. Inside the column where save the part names, the software tries to find the corresponding DWG drawing for each of the cells. If it can find, it will add a hyperlink to the cell. Then you can open a dwg drawing directly by click the cell. If the software cannot find the drawing, there is no link on the cell. So, you will not waste time to search for a non-existing file.

SolidWorksProject > 2019 > KMH > From USA > KMH BOM & Drawings > Hood			
Name	Date modified	Type	
55843AX	2/7/2020 2:57 PM	DWG File	
55844AX	6/11/2021 9:01 AM	DWG File	
55845AX	5/18/2021 7:29 AM	DWG File	
55846AX	7/29/2021 3:07 PM	DWG File	
55846AX_OLD_SOUTHCO	7/29/2021 2:58 PM	DWG File	
55847AX	2/10/2020 8:17 AM	DWG File	
55847BX	7/20/2020 11:17 AM	DWG File	
55847CX	7/20/2020 11:19 AM	DWG File	
55847DX	7/20/2020 12:09 PM	DWG File	
55847EX	6/16/2021 1:11 PM	DWG File	
55847FX	6/16/2021 1:11 PM	DWG File	
55847GX	6/16/2021 1:10 PM	DWG File	
55847HX	1/27/2021 1:53 PM	DWG File	
55847JX	1/27/2021 3:48 PM	DWG File	
55847KX	1/28/2021 1:03 PM	DWG File	
55856AX	2/13/2020 12:02 PM	DWG File	
55856BX	3/16/2020 1:44 PM	DWG File	
55856CX	3/16/2020 1:44 PM	DWG File	
55856DX	7/20/2020 11:28 AM	DWG File	
55856EX	7/20/2020 11:27 AM	DWG File	
55898DX	6/30/2021 10:57 AM	DWG File	
55898EX	6/30/2021 10:59 AM	DWG File	
55898FX	6/30/2021 11:59 AM	DWG File	
55898GX	6/30/2021 11:00 AM	DWG File	
55898HX	6/30/2021 11:01 AM	DWG File	
56694DX	1/20/2021 2:44 PM	DWG File	
56694EX	1/20/2021 2:46 PM	DWG File	
56695AX	1/20/2021 1:01 PM	DWG File	
56696EX	1/18/2021 1:52 PM	DWG File	
56696FX	1/20/2021 1:59 PM	DWG File	
56696GX	1/20/2021 2:07 PM	DWG File	
56698AX	1/20/2021 1:47 PM	DWG File	
57428	1/14/2008 8:16 AM	DWG File	
57441	1/13/2006 2:56 PM	DWG File	
57442	2/1/2006 9:38 AM	DWG File	
BOM KMH 21 KMH Pizza Oven Hood	9/23/2021 3:52 PM	Microsoft Excel V	

Expand Matrix	Type	No.	Description
4	No	Operation	900-10 Shipping
5	No	Item	80125 Temp Sensor Assembly P2 XLT
6	No	Item	80055 Warm White LED Assy. (16)
7	No	Item	80037 Crate
8	No	Item	80000 Incandescent Light Assembly
9	No	Item	57441 Hanger Bracket
10	No	Item	57428 Grease Cup
11	No	Item	56698AX Shipping Cover /DCV
12	No	Item	56696GX Access Plate /DC Front Fc
13	No	Item	56696FX Access Plate /DCV Rear
14	No	Item	56696EX Access Plate /Hanger Bkt
15	No	Item	56696DX Access Plate
16	No	Item	56695AX Back Plate /DCV
17	No	Item	56694EX DCV Panel /Rear
18	No	Item	56694DX DCV Panel /Front
19	No	Item	55898HX Z Alignment Bracket X70/X55
20	No	Item	55898GX Z Alignment Bracket 570/670/970
21	No	Item	55898FX Z Alignment Bracket 555
22	No	Item	55898EX Z Alignment Bracket 360G/360GWB/855
23	No	Item	55898DX Z Alignment Bracket 540/640
24	No	Item	55898BX Pod End Filler RT
25	No	Item	55899AX Pod End Filler LT
26	No	Item	55856EX Rear Side Skirt RT - Slide - MM70/PS555
27	No	Item	55856DX Rear Side Skirt LT - Slide - MM70/PS555
28	No	Item	55856CX Rear Side Skirt Right- Slide - MM55
29	No	Item	55856BX Rear Side Skirt Left- Slide - MM55
30	No	Item	55856AX Rear Side Skirt - Slide - MM40
31	No	Item	55847CX False Front /70 /FC
32	No	Item	55847JX False Front /60 /FC
33	No	Item	55847HX False Front /40 /FC
34	No	Item	55847GX False Front /DCV Front
35	No	Item	55847FX False Front /JMC
36	No	Item	55847EX False Front /Blank
37	No	Item	55846AX Diverter
38	No	Item	55845AX Filter Stop
39	No	Item	55844AX Filter Rack
40	No	Item	55843AX Trim Angle



# Justin Tools Basket

## 3.4.2 Case 2: Add DXF file hyperlinks to Canada Excel BOM

Add DXF files' hyperlink to the part names in the Canada Excel BOM, and set the DXF file default opening application as CNC programming editor in CNC programmer's computer. When CNC programmers click the part Numbers with "new" in column M, the DXF files will be opened in the CNC programming editor directly. It can save time for him and avoid picking up the wrong DXF files.

MATERIAL	X (GRAIN)	Y	PART DESCRIPTION	QTY	CNC No	PART No.	Weight Lbs	SQ. FT	Weight Lbs	InJobFolder	In both job folder and Library
18 GA S/S - #4	42 014	4 894	CA-Hood-Exhaust Collar	1		50034XX-1294A	2.88	1.427892472	2.88	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\50034XX-1294A.cp
18 GA S/S - #4	108 189	4 693	CA-Hood-Front Support	1		53013XX-2748	7.11	3.525909563	7.11	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53013XX-2748.cp
18 GA S/S - #4	119 691	32 969	CA-Hood-Light Panel	1		53020XX-C22244A	55.25	27.40342069	55.25	Not found	new
18 GA S/S - #4	120 462	44 037	CA-KVE-BACK	1		53021XX-C22244A	74.27	36.83878538	74.27	Not found	new
18 GA S/S - #4	2 831	26 537	CA-KVE-Splice Strip	1		53044BX-61100	1.05	0.521710049	1.05	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53044BX-61100.cp
18 GA S/S - #4	52 126	5 262	CA-KVE-Side Support	1		53116XX-1324	3.84	1.904770917	3.84	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53116XX-1324.cp
18 GA S/S - #4	59 625	25 247	CA-KVE-INNER END-LEFT	1		53123XX-602424	21.07	10.45363594	21.07	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53123XX-602424.cp
18 GA S/S - #4	63 093	27 995	CA-KVE-OUTER END-LEFT	1		53124XX-602424	24.65	12.22645948	24.65	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53124XX-602424.cp
18 GA S/S - #4	17 146	19 143	CA-KVE-Grease Trough-LT-With Jet End	1		53126BX-29002	4.6	2.279346375	4.6	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53126BX-29002.cp
18 GA S/S - #4	17 146	20 86	CA-KVE-Grease Trough-RT-With Single End	1		53126CX-29002	5.01	2.483788611	5.01	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53126CX-29002.cp
18 GA S/S - #4	118 722	9 192	CA-KVE-Filter Rack	1		53128XX-301611	15.28	7.578421	15.28	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53128XX-301611.cp
18 GA S/S - #4	63 094	26 008	CA-KVE-Single End-Right-ContCapt	1		53153XA-602424	22.97	11.39547744	22.97	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53153XA-602424.cp
18 GA S/S - #4	118 881	15 643	CA-KVE-False Back	1		53265XX-120241	26.04	12.91427419	26.04	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53265XX-120241.cp
18 GA S/S - #4	118 818	29 74	CA-KVE/W-Inner Front	1		53350XX-120124	49.47	24.5392175	49.47	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\53350XX-120124.cp
18 GA S/S - #4	119 904	39 394	CA-KVE/W-Front	1		53352XX-C22244A	66.13	32.80207067	66.13	Not found	new
18 GA S/S - #4	54	3 685	CA-KVE-Bolt Channel Field Joint	1		59030XX-1372	2.79	1.381875	2.79	Exist	C:\Users\luo\Documents\temptest\C22244A\CNC\59030XX-1372.cp

## 3.4.3 Case 3: Create a file list for all the files in a folder.

Justin Tools Basket

Open Excel File  Find Excel File

Excel Sheet Name:  Column NO.:  First Row NO.:  Last Row NO.:  Offset NO. for Result Column:  Printer:

CNC File PDF Hyperlink

File Extension:

Add Hverlink

Create List in Excel

Added 10 \*.DWG files to a new list in Project Info of H-1L96L51H-BOM.xlsx

100%

When you get many DWG drawings for a job without a BOM, you can create a excel file and create a file list with hyperlinks in the excel file automatically by click "Create List in Excel Button".

For example, I got a DWG drawing package from USA for CFA hood "H-1L Closures 96L 51H". I create an Excel file "H-1L96L51H-BOM.XLSX" for this package.

temp > H-1L Closures 96L 51H

AutoSave Off H-1L96L51H-BOM

File Home Insert Page Layout Form

Undo Paste Cut Copy Format Painter Clipboard

A1 : X ✓ fx 53824AX

	A	B	C	D
1	53824AX			
2	53825FX			
3	53921XX			
4	56342DX			
5	56346XX			
6	56348XX			
7	56349XX			
8	56350XX			
9	56378CX			
10	56378XX			
11				



### 4. For Help

While opening this software, press key “F1”, this document will be opened.

If you have any questions about this software, please email to [Justin.luo@halton.com](mailto:Justin.luo@halton.com).