

PROGRAM: LABEL ANALYZER

Version: 1.0

Dated: 10-JANUARY-2023

READ ME FILE / HOW TO OPERATE THIS SOFTWARE

**THIS SOFTWARE IS VIRUS-FREE
(SCANNED USING WINDOWS DEFENDER)**

**HELLO,
THANK YOU FOR TAKING OUT TIME AND VIEWING THIS
DOCUMENTATION.**

**THIS IS MY SECOND SOFTWARE, I WOULD STILL
REQUEST YOU TO SPEAR ANY IN-CONVENIENCE!**

**OVER THE NEXT FEW PAGES, I'LL GO OVER HOW THIS
WORKS, SO IN-CASE YOU GET STUCK SOMEWHERE
YOU CAN VIEW THIS DOCUMENTATION FOR GUIDANCE.**

**THIS IS A LABEL-ANALYZER THAT ALLOWS YOU TO
COMPARE VALUES FROM YOUR CHOSEN PACKING LIST
& LABEL, WITH COMPREHENSIVE DETAILS!**

**THANKS,
MUHAMMAD HAMZA SAEED**

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LABEL ANALYZER							
PACKING LIST	STEP 1: GET PACKING LIST	STEP 2: PACKING LIST DETAILS	STEP 3: SHEET NAME/ROW NUMBER	STEP 4: EXTRACTED COLUMNS	STEP 5: SET COLUMNS A	STEP 5: SET COLUMNS B	STEP 6: EXTRACTED VALUES
	Choose Packing List <input type="button" value="Choose"/>	File Name: Packing List (Small) - for Label Checking.xlsx Total Sheets: 3 1). Sheet1 (3) 2). PRODUCT LIST 3). TEST	Sheet Name PRODUCT LIST Row Number 1	Extract Columns 1. COILS NO. 2. SIZE 3. COLOR 4. N.W 5. G.W 6. METER 7. THICKNESS	Coil Number COIL NO. 1 Color/Design N/A Net Weight N/A Gross Weight N/A	Thickness N/A Width N/A Size N/A <input type="button" value="Extract Values"/>	COILS NO.: E41201 E41202 E41203 E41204 E41205 E41206 E41207 <input type="button" value="Press Analyze to process"/> <input type="button" value="Analyze Labels"/>
LABELS	STEP 1: GET LABELS	STEP 2: LABELS DETAILS	STEP 3: START WORD/END WORD	STEP 4: EXTRACTED LABELS	FORMATTING	TOOL	DELIMITATION
	Choose Labels <input type="button" value="Choose"/>	Computer thinks, Label ends at: CHINA If correct, press Extract Label! Sample: MILL NAME: SHANDONG HULIN COLOR	Start Word MILL NAME SHANDONG End Word CHINA	Extract Label Formatting Matches! Labels Extracted: 7 of 7 COIL NUMBER FOUND: E41201 E41202	How are labels formatted ? * Size (0.11" * 914) o Thickness (0.11) Width (914)		Status Column Delimiter <input type="button" value="Delimit"/>
ANALYZED SUMMARY	Analyzed Summary is as follows: Overview of Extracted Values: COIL NUMBER: [E41201, E41202, E41204, E41205, E41207, E41203] in Packing-List COIL NUMBER: [E41201, E41202, E41204, E41205, E41207, E41203] in Labels. Total Errors: 0 Errors in Coil Number: No Error in Coil Number: COIL NO (1) COIL NO (2) COIL NO (3) COIL NO (4) COIL NO (5) COIL NO (6) COIL NO (7)			ANALYZED DETAILS		Analyzed Details is as follows:	
	STANDARD VIEW ADDED			DELYN'S VIEW ADDED			

LABELS:

STEP 1 - 3 = PAGE 8

STEP 4 = PAGE 9

FORMATTING = PAGE 11

DELIMITATION TOOL:

- PAGE: 9-10

ANALYZED:

- PAGE: 12-13

PACKING LIST

WE START WITH THE PACKING LIST

PREREQUISITE:

BEFORE STARTING WITH STEP 1, MAKE SURE YOU HAVE A CLEAN DATA TO START WITH,

- COILS IN A PACKING LIST SHOULD BE IN THE SAME ORDER AS COILS IN THE LABEL FOR ACCURATE COMPARISON.**
- PACKING LIST SHOULD BE CLEAN, COLUMNS OF PACKING LIST SHOULD START FROM - CELL: A1 -**

AN EXAMPLE OF CLEAN PACKING LIST:

	A	B	C	D	E
1	COIL NUMBER	THICKNESS	WIDTH		
2	1	0.12	1000		
3	2	0.13	1000		
4	3	0.14	1000		
5					
6					

- STARTS FROM A1.**
- NO TRAILING VALUES LIKE IN COLUMNS, D | E, BECAUSE IF AN EMPTY VALUE EXIST THAT ROW IS REMOVED.**

A TOTAL BELOW COIL NUMBER / TOTAL OF NET-WEIGHTS WILL GET AUTOMATICALLY REMOVED, BUT IT'S BETTER TO CLEAN YOUR PACKING LIST INTO THE FORM SHOWN ABOVE.

STEP 1:
CHOOSE PACKING LIST
(AS OF 1.0, XLS / XLSX ARE SUPPORTED)

STEP 1: GET PACKING LIST

Choose Packing List

Choose

STEP 2:
ONCE PACKING LIST IS CHOSEN,
THE FOLLOWING DETAILS ARE DISPLAYED:

- FILE NAME
- NUMBER OF SHEETS
- SHEET NAMES
(IN ORDER)
- DETAILS
- PROMPT TO OPEN FILE

STEP 2: PACKING LIST DETAILS

Once a file is chosen,
Details will be displayed here

STEP 3:
SELECTION:

- SHEET NAME
(WITH PACKING LIST)
- ROW NUMBER
(OF COLUMNS)

STEP 3: SHEET NAME|ROW NUMBER

Sheet Name

Row Number

STEP 4:

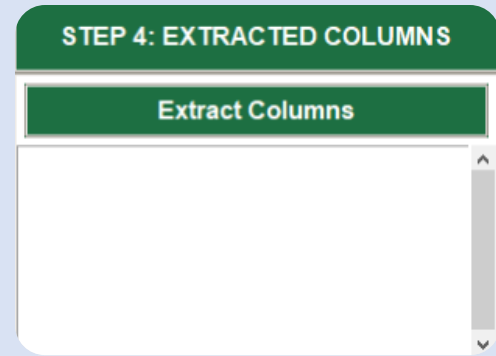
- ONCE SHEET NAME
& ROW NUMBER ARE
SELECTED IN STEP 3.

- PRESS:

EXTRACT COLUMNS

- ALL COLUMNS,

WILL BE DISPLAYED IN THE TEXT WIDGET BELOW.



STEP 5:



ONCE EXTRACT COLUMNS IS PRESSED IN STEP 4, DROP-DOWN
MENUS ARE FILLED WITH THOSE COLUMN NAMES.

N/A MEANS THAT THE VALUE BEING ASKED IS **NOT LISTED IN
THE PACKING LIST** / IF **YOU DON'T WANT TO COMPARE** THE
VALUE YOU CAN KEEP IT TO N/A.

TO **AVOID ERRORS:**

- MAKE SURE TO SELECT THE CORRECT COLUMN NAME.

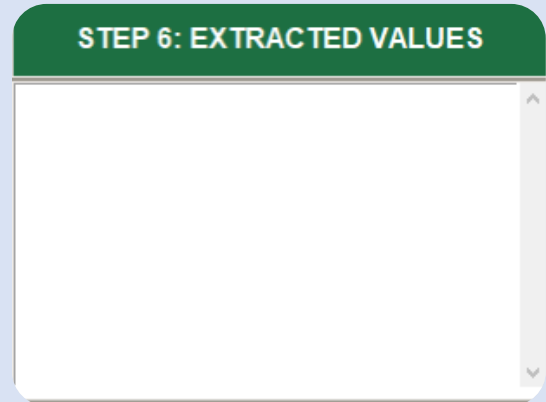
- MAKE SURE EITHER THICKNESS & WIDTH OR SIZE OR NEITHER
ARE SELECTED.

PRESS **EXTRACT VALUES** ONCE DONE!

STEP 6:
ONCE EXTRACT VALUES
IS PRESSED FROM STEP 5.

EACH SELECTED COLUMN
& ALL OF ITS VALUES
ARE DISPLAYED IN THE
TEXT WIDGET!

THIS ALLOWS US TO VIEW IF THE VALUES WERE CORRECTLY
EXTRACTED OR NOT!

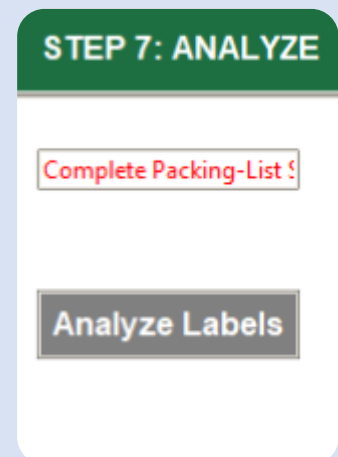


STEP 7:

THE ENTRY FIELD, WITH THE RED TEXT
IS TO GUIDE YOU ON WHAT TO DO NEXT

THIS BUTTON ANALYZE LABELS WILL
REMAIN DISABLED UNTIL
ALL STEPS / PROCEDURES
ARE FULLY COMPLETED.

SO YOU CAN IGNORE THIS STEP FOR NOW.
AS SOON AS YOU ARE DONE WITH STEP 6
THIS WILL CHANGE AND PROMPT YOU TO
FINISH THE LABELS SECTION, WHICH I WILL
COVER OVER THE NEXT FEW PAGES.





LABELS

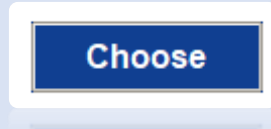
**NEXT IS
LABELS**

PRE-REQUISITE:

- AS OF 1.0, CHOOSE LABELS
(SUPPORTS ONLY DOCX FORMAT)**
- LIKE REQUESTED EARLIER, PLEASE MAKE SURE YOUR LABELS
ARE IN THE SAME ORDER AS YOUR PACKING LIST.**
- INCASE YOUR LABELS ARE IN EXCEL FORMAT, YOU CAN COPY
/ PASTE THE LABELS FROM THE EXCEL FILE INTO A WORD FILE
AND START USING THE SOFTWARE.**
- MAKE SURE LABEL FILE ONLY CONTAINS LABELS FROM
START TO FINISH**

STEP 1:
AS INFORMED EARLIER,
ONLY **DOCX** FORMAT IS SUPPORTED!

ONCE **STEP 6 IS COMPLETE**,
THE **BUTTON WILL BE ACTIVE**:



YOU CAN CHOOSE THE FILE BY **CLICKING ON CHOOSE!**

STEP 2:
ONCE **STEP 1** IS COMPLETED,
THIS **TEXT-WIDGET** WILL SHOW:

- **LABEL EXTRACTED.**
- **START / ENDS WORDS**
(DETERMINED BY COMPUTER)
- **SAMPLE OF THE FIRST LABEL**
(USING THE START / END WORDS)



STEP 3:
ONCE **STEP 1** IS COMPLETED,
THE DETERMINED WORDS
ARE INSERTED IN EACH FIELD
ACCORDINGLY.

YOU **MAY CHANGE** IF THE
DETERMINATION WASN'T
CORRECT, MOST OF THE TIME
IT IS 😊



STEP 4:

ONCE STEPS 1-3 ARE COMPLETED!

THE FOLLOWING WILL APPEAR:

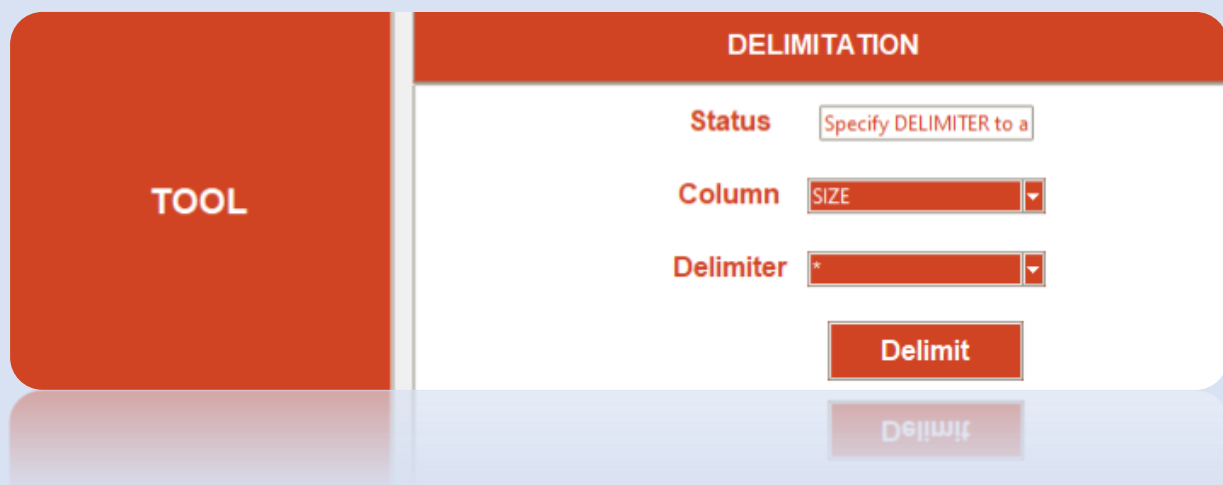
- **FORMATTING MATCHES.**
- OR
- **FORMATTING DOESN'T MATCH.**
- OR
- **THICKNESS WIDTH SIZE WERE CHOSEN!**



EXPLANATION:

- **FORMATTING MATCHES,**
IN-CASE THICKNESS | WIDTH | SIZE WERE NOT CHOSEN!
OR IF EITHER SIZE OR THICKNESS & WIDTH WERE CHOSEN AND
THE FORMATTING MATCHES WITH THE LABEL, YOU SHOULD
SEE THIS APPEAR AND **EXTRACT LABEL BUTTON** WILL BE
ENABLED. (LIKE: SIZE IN PL | SIZE IN LB)

- **FORMATTING DOESN'T MATCH,**
IN-CASE THICKNESS & WIDTH OR SIZE WERE CHOSEN BUT THE
FORMATTING IN LABELS DIFFERED FROM THE PACKING LIST,
THIS WILL APPEAR.
IN-ORDER TO FIX THIS YOU CAN USE **DELIMITATION TOOL.**



THE DELIMITATION TOOL:

THIS TOOL ALLOWS TO CHANGE VALUES:

- **SIZE** TO **THICKNESS & WIDTH**.

OR

- **THICKNESS & WIDTH** TO **SIZE**.

STATUS: WILL GUIDE YOU ON WHAT TO DO.

COLUMN: **THIS WILL AUTOMATICALLY BE SELECTED!**

DELIMITER: YOU CAN SPECIFY A SYMBOL TO DELIMIT,
YOU CAN EITHER CHOOSE FROM A DROP-DOW MENU OF PRE-
DEFINED OPTIONS OR SPECIFY YOUR OWN.

- WHEN CONVERTING FROM **SIZE TO THICKNESS & WIDTH**:

SIZE: 0.11*1200

WILL GET CONVERTED TO

THICKNESS: 0.11 | WIDTH: 1200

DELIMITER IN THE ABOVE CASE WAS: *

- WHEN CONVERTING FROM **THICKNESS & WIDTH TO SIZE**:

THICKNESS: 0.11 | WIDTH: 1200

WILL GET CONVERTED TO

SIZE: 0.11X1200

DELIMITER IN THE ABOVE CASE WAS: X

ONCE DONE,

YOU CAN PRESS DELIMIT AND YOU WILL SEE COLUMNS,
THICKNESS | WIDTH | SIZE RESET TO N/A

AND EITHER SIZE OR THICKNESS & WIDTH BEING ADDED INTO
THE DROP-DOWN LISTS ACCORDINGLY.

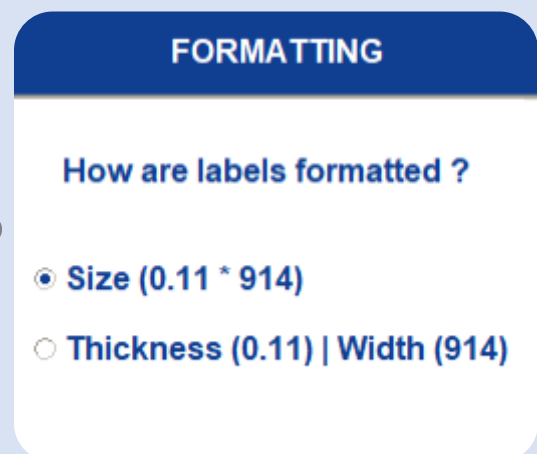
CHOOSE AND PRESS EXTRACT LABELS (STEP 4 TO PROCEED)

CONTINUING WITH THE LAST OPTION THAT YOU MIGHT SEE:
- **THICKNESS WIDTH SIZE WERE CHOSEN**,
INCASE THIS APPEARS THEN IT MUST MEAN THAT YOU
SELECTED, **THICKNESS | WIDTH | SIZE WERE CHOSEN**.

SELECT EITHER,
THICKNESS & WIDTH OR SIZE

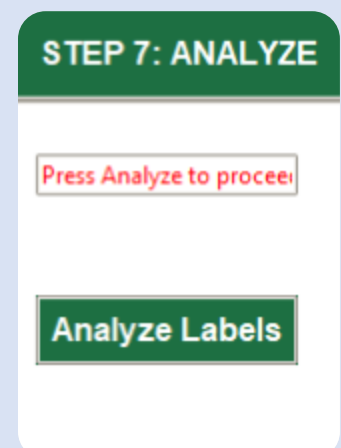
**! YOU CAN SIMPLY RESELECT, PRESS EXTRACT COLUMNS AND
RE-OPEN THE LABEL FILE TO FIX THIS ISSUE !**

FORMATTING,
THIS IS AUTOMATIC FIELD, WHICH
GETS SET ONCE A LABEL IF OPENED
SO YOU CAN IGNORE THIS :)



The screenshot shows a mobile app interface with a dark blue header labeled "FORMATTING". Below the header, the text "How are labels formatted ?" is displayed. There are two radio button options: "Size (0.11 * 914)" which is selected, and "Thickness (0.11) | Width (914)".

PROCEEDING TO ANALYZE:
ONCE ALL STEPS ARE SUCESSFULLY DONE,
PRESS ANALYZE LABELS TO DO SOME **MAGIC**.



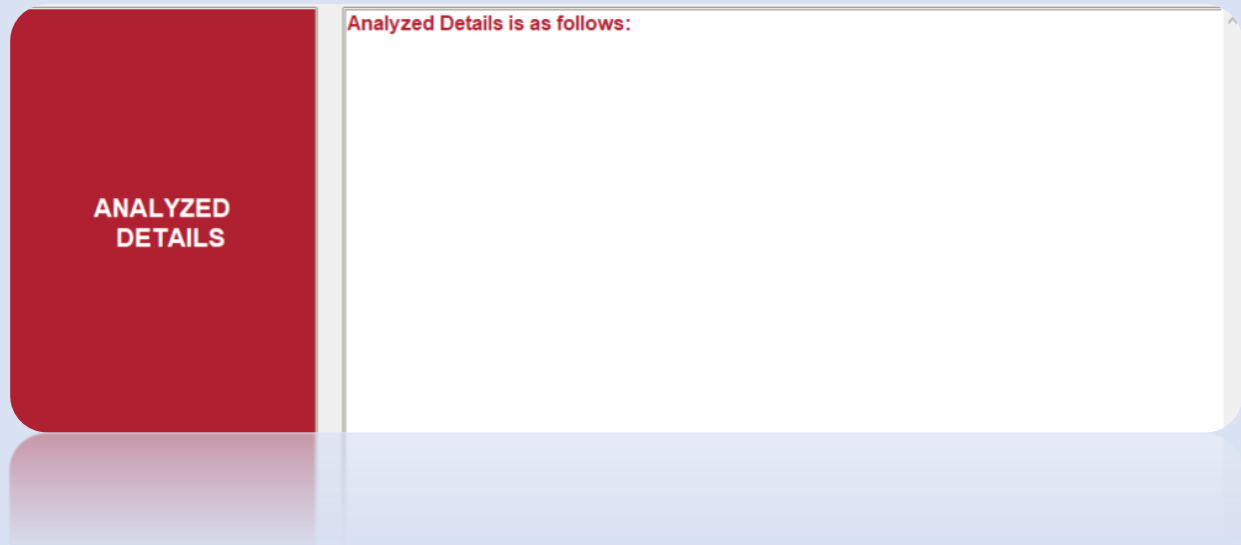
The screenshot shows a mobile app interface with a dark green header labeled "STEP 7: ANALYZE". Below the header, there is a red text prompt "Press Analyze to proceed" inside a white box. At the bottom, there is a dark green button labeled "Analyze Labels".

ANALYZED SUMMARY	<p>Analyzed Summary is as follows:</p> <p>Overview of Extracted Values: COIL NUMBER: ['E41201', 'E41202', 'E41206', 'E41204', 'E41205', 'E41207', 'E41203'] in Packing-List. COIL NUMBER: ['E41201', 'E41202', 'E41206', 'E41204', 'E41205', 'E41207', 'E41203'] in Labels.</p> <p>Total Errors: 0</p> <p>Errors in Coil Number:</p> <p>No Error in Coil Number: COIL NO (1) COIL NO (2) COIL NO (3) COIL NO (4) COIL NO (5) COIL NO (6) COIL NO (7)</p>

ANALYZED SUMMARY:

THIS SHOWS A SUMMARIZED OVERVIEW OF THE ANALYZED RESULTS.

- STARTING WITH ALL THE **UNIQUE VALUES EXTRACTED** FROM, PACKING LIST & LABELS.
ALSO SHOWS SUM OF NET WEIGHT & GROSS WEIGHT OF PACKING LIST & LABELS.
(ONLY SHOWN FOR SELECTED VALUES)
- TOTAL **NUMBER OF ERRORS**.
- NUMBER OF **ERRORS** (IF ANY) **IN** COIL.
- COILS **WITHOUT** ANY **ERRORS**.



ANALYZED DETAILS:

THIS WILL SHOW **DETAILS FOR COILS WITH ERRORS.**

THIS WILL PROMPT THE USER TO WRITE THE **FOLLOWING**
INSTEAD OF EXISTING.

FOR EXAMPLE:

NET WEIGHT: SHOULD BE . **MT** INSTEAD OF EXISTING.

THIS BASICALLY TELLS THAT THE **PACKING LIST** SAYS THAT
THE **NET WEIGHT** SHOULD BE . **MT** INSTEAD OF WHAT IS
CURRENTLY WRITTEN INSIDE OF THE **LABELS**, FOR THE COIL
NUMBER ON TOP.

=====

THIS WAS MY **2ND AUTOMATION PROJECT**, A LITTLE MORE
DEMANDING THEN THE PREVIOUS AUTOMATION PROJECT,
I TRIED MY BEST TO COVER ALL ISSUES I COULD BEFORE
RELEASING THE FIRST VERSION.

I WOULD BE GLAD IF YOU CAN USE THIS SOFTWARE
& LET ME KNOW YOUR FEEDBACK!

THANKS AGAIN, MUAHMMAD HAMZA SAEED
PEACE OUT!