

The user manual of CSV change to XML

Step 1:Please arrange a standard format of CSV which is required as shown below:

															J		_
Designat	Footprint	tMid	X	Mid	1 Y	Ref	X	Ref	Y Y	Pac	1 X	Pad	I Y	Layer	Rotation	Comment	
		0195					20020		37600	023/2/18	30423	000000			3340		
U4	S08	86.3			16mm								065mm		270		
U3	S08	76.2			16mm				16mm				065mm		270		
U2	S08										76mm	19.	685mm	T	270		
U1	S08	76.2									6mm		685mm		270		
Q2	SOT23A	77.0	307mm	34.	8882mm	76.	6949mm	35.	2241mm	76.	854mm	33.	7215тл	Т	45	9018	
Q1	SOT23A	74.8	35mm	30.	734mm	74.	835mm	30.	734mm	76.	01mm	29.	784mm	Т	90	9018	
28	SOT23A	77.0	307mm	26.	5797mm	76.	6949mm	26.	2439mm	78.	1975тл	26.	403mm	Т	135	9018	
Q7	SOT23A	81.1	85mm	24.	384mm	81.	185mm	24.	384mm	82.	135mm	25.	559mm	Т	180	9018	
Q6	SOT23A	85.3	393mm	26.	5797mm	85.	6751mπ	26.	2439mm	85.	516mm	27.	7465тл	Т	225	9018	
Q5	SOT23A	87.5	35mm	30.	734mm	87.	535mm	30.	734mm	86.	36mm	31.	684mm	Т	270	9018	
Q4	SOT23A	85.3	393mm	34.	8882mm	85.	6751mπ	35.	2241mm	84.	1725тл	35.	065mm	Т	315	9018	
Q3	SOT23A	81.1	85mm	37.	084mm	81.	185mm	37.	084mm	80.	235mm	35.	909mm	Т	0	9018	
E2	TQFP48	53.3	4mm	14.	732mm	53.	34mm	14.	732mm	49.	265mm	17.	482mm	Т	0	IC	
E3	TQFP100	53.3	4mm	14.	732mm	53.	34mm	14.	732mm	45.	79mm	20.	732mm	Т	0	IC	
A1	201	20.3	2mm	18.	631mm	20.	32mm	18.	631mm	20.	32mm	18.	9104тл	Т	270	R	
B1	402	20.3	2mm	15.	583mm	20.	32mm	15.	583mm	20.	32mm	16.	091mm	Т	270	R	
C1					281mm										270	R	
D1	805	20.3	2mm	8. 4	171mm	20.	32mm	8.4	.71mm	20.	32mm	9.3	6mm	Т	270	R	
A2					7608mm							19.	0307тл	Т	285		
B2					8167mm										285	2.322	
C2					6272mm										285		
D2					947mm										285		
A3					1414mm										300	1782	
B3					5018mm										300	0.00	
C3		25.4			6422mm						0444mm				300		
D3					3426mm										300		
A4					7469mm										315	1783	
B4					5917mm										315		
C4					2568mm										315		
04 D4					5627mm										315		
A5					536mm										330		
85					012mm										330		
C5					361mm										330		
D5					456mm										330		
A6					4549mm										345	1722	
но Вб					4049mm 666mm										345		
БӨ Сб																	
56 D6					8114mm										345		
					8253mm										345	1722	
A7					441mm										- I - X	R	
B7					441mm											R	
C7	603	30.4	SWW	22.	441mm	30.	48mm 29mm	22.	441mm	29.	7688mm	22.	441mm	1	0	R	



Step 2:Open the offline programming software and select the CSV option. As shown below:

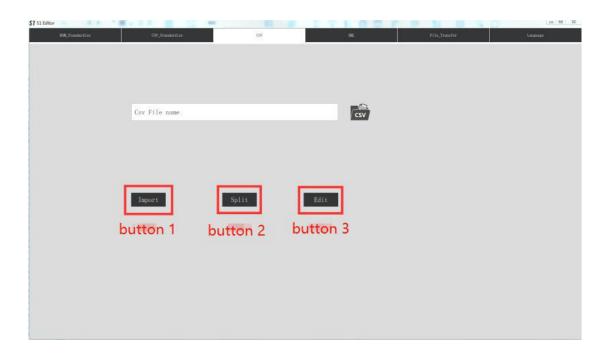
51 51 Editor 1990 Standardize (37 Standardize	C37		Filedmeter	Language
			Contraction of the	
Csv File name		CSV		
Import	Split	Edit		
ampore	Spire	LUIL		

Step 3:Click on the CSV file to select the target file

	CST_Streaderd(as	CSV					
	Csv File name				CSV		
S1 17#						X	
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○○ ▲ · #第41	<ul> <li>文価(E) ・ SMT資試 ・ PCB限文件 ・</li> </ul>			+ + ₂ 3	EN PCB/KX14	ρ	
加尔 • 新建文件夹					l≣ • [	1 0	
1 200 P	88	律政日期	(#id)	大小			
下的	b History	2020-06-29 14:01	文体中				
5 AP	(ii) BZ-S1(1-29)	2019-11-06 17:43		17 × B			
1 新日本同的位置	(i) BZ-S1(0201-0402)	2019-11-06 17:40	XL5 工作表	27 KB			
2345Download	(i) Pick Place for 3HTREME-	2020-07-02 15:11	XLS 工作機	13 ×8			
a saturation and	() Nick Place for 4代表试单版	2019-11-09 14:02	XLS 工作物	11 KB			
(A) WPS用盘	④ Pick Place for CCD主控短V0.0.2	2020-07-22 13:52	X0.5 工作表	5 K.B			
CO WYSAUE	Pick Place for china	2020-03-19 16:38	XLS 工作表	20 KB			
	Pick Place for S1demo	2020-03-03 15:13	KLS I'ER	69 KH			
(3) 年	Pick Place for S1demo.005	2019-11-23 9:34	XLS I THE	69 KB			
₩ 税款	<ul> <li>Pick Place for 暗机返动能度</li> </ul>	2020-06-29 13:55	XLS 工作表	2 48			
■ ■井	Pick Place for 贴镜头上电路板	2020-06-29 13:52	KLS IPER	3 KB			
2 文冊	Pick Place for 同心矫正	2020-06-24 14:06		14 KH			
2 篇乐	Pick Place for THENDER	2020-08-05 16:11	XLS 工作表	2 KB			
	Pick Place for 运动模块控制卡	2020-06-29 13:58	XLS 工作機	9 KB			
· 月期日 ·							
11111111				- cs	/ files ("Losv "LCSV)	-	
文件	E (INI) (						
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Step 4:Click button 1 to import. Button 2 is used to divide the file into multiple parts when there are more than 58 types of components, and button 3 is used in the case of secondary editing of CSV files.



Step 5:After clicking Import CSV file, the following dialog box pops up.Enter the size of the splicing board in Figure 1(If it is a single-board PCB, enter the size of the single board).Enter the fiducial point coordinates of the PCB in Figure 2. Click the button in Figure 3 to enter the next step.

KK Stanbert	ete <u>GR standertete</u> rel size: <b>figuré 1</b> 10	EX	riduciai 1: 0 / 0 figure 2	File_Smufor-	Language
	Designator	Footprint/Comment	fiducial 3: 0 / 0	Rotation	
	U4	S08/183	86.36/10.16	-90.00	
	U3	S08/183	76. 20/10. 16	-90.00	
	U2	S08/183	86. 36/17. 78	-90, 00	
	U1	S08/183	76, 20/17, 78	-90.00	
	Q2	S0T23A/9018	77. 03/34, 89	45.00	figure 1
	Q1	S0T23A/9018	74, 83/30, 73	90.00	figu
	Q8	S0T23A/9018	77.03/26.58	135.00	
	Q7	S0T23A/9018	81, 18/24, 38	180.00	
	Q6	S0T23A/9018	85. 34/26. 58	-135.00	
	Q5	S0T23A/9018	87.54/30.73	-90, 00	
	Q4	S0T23A/9018	85. 34/34. 89	-45.00	
	Q3	S0T23A/9018	81, 18/37, 08	0.00	
	E2	TQFP48/IC	53. 34/14. 73	0.00	
	E3	TQFP100/IC	53, 34/14, 73	0.00	
	A1	0201/R	20, 32/18, 63	-90.00	
	R1	0402 /R	20 32/15 58	-90.00	



Step 6:Edit and confirm the feeder size, feed rate, component size(Length,Width,Thickness) and nozzle range

Footprint	Feeder Size	and the second se	Length	Width	Thickness	Nozzle Range
0201	8 0	104 L	0.6	0.3	0.23	
0402 0603	8 0		1.0	0.5	0.3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
0805	8 0		2.0	1. 25	0. 4	
BGA90	0 0		0	0	0	
\$08	12 0		5	4	2	
SOT23A	8 0		1.3	2.9	1	J 1 J 2 J 3 J 4
TQFP100	0 0	0 🗘	0	0	0	V 1 V 2 V 2 V 4
TQFP48	0 0	0 0	0	0	0	

Stack_Id	Footprint/Comment	Nozzle_Range
eeder Stack	Only Tood	
✓ F-18	S08/183	V Neale 1 V Smale 2 V Saxtle 3 V Smale 4
✓ F-19	1	🗸 Sontle 1. 🗸 Nontle 2. 🗸 Nontle 3. 🗸 Nontle 4.
✓ F-20	S0T23A/9018	🖌 Neelle i 🖌 Neelle 2 🖌 Tonale 3 🖌 Neeale 4
✓ F-21	0201/R	🗸 Nomie i 🗸 Nomie 2 🗸 Nomie 3 🗸 Somile 4
✓ F-22	0402/R	🗸 Nomie 1 🖌 Nomie 2 🗸 Nomie 3 🗸 Nomie 4
✓ F-23	0603/R	🗸 Sarrie 1 🖌 Sarrie 2 🖌 Sarrie 3 🖌 Sarrie 4
✓ F-24	0805/R	🗸 Novale 1 🗸 Novale 2 🗸 Novale 3 🗸 Novale 4
ray Stack	Only Lord	
✓ T-159	TQFP48/IC	V Norrie 2 V Norrie 3 V Norrie 4
✓ T-160	TQFP100/IC	✓ Northe 1 ✓ Northe 2 ✓ Northe 3 ✓ Northe 4
✓ T-161	BGA90/U	✓ Sonnle 1 ✓ Nonnle 2 ✓ Nonnle 3 ✓ Sonnle 4

Step 7:Edit and confirm the order of the stack and the range of the nozzle



Step 8:Click"Next" to save as an XML file

		Exchange	0	Teerings		
Feeder St	Stack_Id ack	Footprint/Comment	0	Nozzle	Range	
	✓ F-18 ✓ S1 янэ	\$08/183		Some 1 Some 2	Sarie I	
	✓ ○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○	fi、・文明 (E) > SMT開設 > PCH開文市 ・ E この行 History	中の日期 単直 2006-06-29 14:01 文外来	• • • • · · · · · · · · · · · · · · · ·	ger p Im • 0 South 4 South 4 South 4 South 4	
Tray Star		2	And the Angel		Smale 4	
	✓ (△) WPS院会 ✓ (協定 ✓ (協定				South 4 South 4 South 4	
	■ 西片 ③ 文档 <b>〕</b> 育乐	•				
		ik Bloce for Statement (1) AL files (*.sent *.XML)				

Step 9:Click button 1, then click button 2 to select the target file.

RM Standardian	CO7_StandardLae	button 1	File,Stass	for Language
	file:///E:/SMT测试/P	CB原文件/Pick Place for Sidemo单板.xml	button 2	
	S1 1	71		<u> </u>
	$\odot$	问 📕 • 計算机 • 文档(E) • SMTREL • PCD图文件 •	• 49	限度 PCE限定件 👂
	- (8	6 * 新建文件共		j≣ • ⊡ 0
		☆屋央 ち存 ∲☆日期	他型 大小	
	Edit		1401 (249) 1110 WW. 24 201 KB	
		文件名(N): Pick Place for \$1demo筆版	•	Kmi files (*ami *XML) + 打开(0) 取論



Step 10:Click the "edit" button

<b>57</b> .51 Ed	AN ADDRESS OF TAXABLE AND ADDRESS OF TAXABLE ADDRES					
	DOM_Standardine	CSI_Standardian	C.V	34.	fila_Insafar	Largangen
		file;///E:/SMT测试/PCB原文	件/Pick Place for Sldemo单板.xz			
		Edit				

Step 11:Enter the total length and width of the splicing PCB in Figure 1, and the length and width of the single board PCB in Figure 2. If it is a single board PCB, please enter the same length and width as the splicing board PCB. Figure 3 selects the fiducial option"local".

<b>5)</b> 53 Editor 1936 Standardire		CST_Steedard144		car.		a a	Pile_Transfer		Lengange
Pick Place for Side	mo単板, xml	PCB	peerl	Testprint	risch	special star	k.	fiducial	emponet
<u>.</u>		Leng	th		Width		Color		
	PCB	100			100. 0		绿	$\wedge$	
	length:10	butto	<b>1 1</b> width: <u>100</u>	<u>.0</u>	color:		0		
	feeding p	position:	100 / 10						
	panel si	ze: 100 / butt	on 2		fiducial option:	local butto	on 3		
<b>«</b>									



Step 12:If it is a single board PCB, please ignore this step. If it is a splicing PCB, please click the figure 1 option, then click the plus button in figure 2 and enter the number of rows and columns of the splicing PCB, and finally click OK.



## Step 13:Click to confirm the footprint information

e for	SIdemo单板. xml	10	button 1	stack	special stack fidactal	componen
<u>iju</u>	•	Name	Length	Width	Thickness	Θ
	1	null	0.0	0.0	0.00	V
	2	0201	0.6	0.3	0. 23	$\vee$
	3	0402	1.0	0.5	0.3	$\vee$
	4	0603	1.6	0.8	0.4	V
	5	0805	2.0	1.25	0.5	V
	6	BGA90	0	0	0	$\vee$
	7	S08	5	4	2	$\vee$
	8	SOT23A	1.3	2.9	1	$\vee$
	9	TQFP100	0	0	0	V
	10	TQFP48	0	0	0	V

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Step 14:Click Stack, in Figure 1, enter the picking height -14 and the place height -14.5.Select "alignment:3D-sensor" as the calibration method, and select "option:accuracy" mode as the strategy.

ROM_STAN		Standardine	ax		336.	File_Transfer		Languago
Place fo	r Sldeno単板, xml	a	panel footgrint		stock	special steck	fiducial	conponent
		Comment		Footpri	nt	Skip		
	default			null		否	Λ.	. teo
	comment:			fo	otprint: mill	0		
	match rate: <u>75</u>			pi	tch: 4	٥		
	pick offset: 0	/0		pi	ck height: <u>-14</u>	button	1	
	pick delay: <u>10</u>			pla	ace height: <u>-14.</u>	5		
	place delay: 1	0		sa	fe height: <u>-5,0</u>			
	alignment: 3D_	sensor	<ul> <li>button</li> </ul>	2 pi	ck retry: <u>3</u>			
	(2) 3D sensor: qu	adrature_45	0 0	top_0.1		٥		
	option: accurat	y.	button 3	sk	ip:	0		
		0						
	merge stack:							

Step 15:Click to exit and save

S7 51 81 816	×		MELL-	~			1 B 6/1		and the second second	- 0 <b>- 2</b>	
	204157876		039年間(2		ca.		338.	2069		语言	
Pick Pla	ice for Slde	mo単板, xnl	201	9HK		892	NB	#\$NB 2	in à	元件	
Ĩ	50	利載規格			_	-	封装	跳过	_		
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×	1	规格:					封装:11	0			
		匹配率: 73	i				进给量: 4	\$			
		取料偏量:	0/0				取料高度: -13	. 0			
		取料延时:	10				贴料高度: <u>-13</u>	. 5			
		贴料延时:	10				安全高度: <u>-5.</u>	0			
		校准方式:	3D传感器		\$		取料重试: 3				
		⑦ 3D传感器:	正交_45			0	頭部_0.1	0			
	1	策略: 精度		0			跳过: 音	0			
								0			
		合并料栈:		0							

Step 16:Copy the file to the Tronstol A1 machine. The first step is to enter the file list and select Stack to adjust the "pick height", and the second step is to enter the Fiducial screenshot datum point.