CMM Quarterly

Calypso Excel Reporting

Calypso - Reporting Characteristic to an Excel Report

Mark Boucher Consulting

Calypso - Reporting Characteristic to an Excel Report

Click on the Resources Menu

Select Define Printout

Now click on the Default printout/ Warning Limit Tab

	Preassignment for New Features.
Compact Printout Custom Printout Default printout / Warning Limit	Save / Load Defaults
Default Printout	Space Point Mode
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Warning Limit ———————————————————————————————————	Results to File
	Name for output files
Characteristics: 100 %	Design custom printout
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Note: The warning limits can be changed in the respecti∨e measurement plan editors.	
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DMIS header	
Excel Report	

Select the file/ open folder in the Excel Report line.

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ds	Characteristic.xlt	2/20/2013 5:58 PM	Microsoft Excel 1
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Select the Characteristic.xlt

This is a canned worksheet that we will modify.

Now run your program. Be sure to click the Excel-printout box. When the program is finished the excel report will be opened and populated.

Use custom printout Compact printout

Result

RT Functions Stylus system

Measurement Plan Measurement Plan Information

Features representation...
 Features Settings Editor...

Characteristics Settings Editor... Compatibility Settings ... Measurement Plan Comment...

Display plots
 Print plots
 Print plots
 Excel-printout
 Send results to printer
 PDF
 PostScript
 Clear existing results

This is what the report will look like and this might meet your needs but below we will begin to edit the report to make it more user friendly.

File Home Insert Page Layou	t Formulas	Data	Review	View	Quick tips		
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1	Calypso	Measur	ing Resu	ılt			
		nent Plan			Order		
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Characteristic	Actual	Nominal	Upper To	Lower To	Deviation		
1.739 Line	-1.7742	-1.739	0.025	-0.025	-0.0352032		
4.527 Angle Pocket 1	-4.54435	-4.527	0.5	-0.5	-0.0173471		
6 16.104 Dim Pocket 1	16.11387	16.104	0.045	-0.045	0.0098727		
7 25.575 Dim Pocket 1_X	25.57439	25.575	0.1	-0.1	-0.0006062		
3 20.00 Dim Pocket 1	20.0042	20	0.2	-0.2	0.0041954		
1.14 Distance Pocket 1	1.141427	1.14	0.05	-0.05	0.0014273		
8.8 Width Pocket 1_Z 1.15 Dim Pocket 1 Top Z	8.791672	8.8 0.15	0.025	-0.025	-0.0083279 0.0000598		
2 .15 Dim Pocket 1 Bottom	0.15008	0.15	0.3	-0.1	-0.00402		
3 4.50 Dim Pocket 1 X	4.554895	4.5	0.1	-0.3	0.0548945		
1.4 Distance pocket 1	1.278764	1.4	0.5	-0.5	-0.1212358		
9.100 Dim Pocket 1	9.113948	9.1	0.3	-0.3	0.0139481		
18.7 Plane Pocket 1	18.69516	18.7	0.04	-0.04	-0.0048428		
3.7 Dim Pocket 1_Y	3.676312	3.7	0.045	-0.045	-0.0236882		
3 1.5 Dim Pocket 1_Y	1.486572	1.5	0.3	-0.3	-0.0134281		
18.7 Depth of Channel	18.69299	18.7	0.04	-0.04	-0.0070101		
11.927 Dim R5.4 Pocket 1_Z	11.93877	11.927	0.3	-0.3	0.0117675		
1 11.927 Dim R9.6 Pocket 1_Z	11.96378	11.927	0.3	-0.3	0.0367751		
2 49.566 Line 3 4.527 Angle Pocket 2	-49.5853 4.541577	-49.566 4.527	0.025	-0.025	-0.0192984 0.014577		
4.527 Angle Pocket 2 1 8.8 Width Pocket 2 Z	8.792119	4.527	0.25	-0.25	-0.0078813		
5 20.00 Dim Pocket 2	19.99319	20	0.025	-0.023	-0.0068098		
6 9.100 Dim Pocket 2	9.098008	9.1	0.2	-0.2	-0.0019916		
7 4.500 Dim Pocket 2	4.521764	4.5	0.3	-0.3	0.0217643		
25.5750 Dim Pocket 2	25.57832		0.025	-0.025	0.0033247		
18.7 Depth Pocket 2	18.69949	18.7	0.04	-0.04	-0.0005117		
3.7 Dim Pocket 2_Y	3.709406	3.7	0.045	-0.045	0.0094059		
1 1.5 Dim Pocket 2_Y	1.503753	1.5	0.3	-0.3	0.0037525		
2 .150 Dim Pocket 2 Top	0.147267	0.15	0.1	-0.1	-0.0027331		
3 .15 Dim Pocket 2 Bottom_Z	0.148974	0.15	0.3	-0.1	-0.0010258		
1 16.104 Dim Pocket 2	-16.0977	-16.104	0.045	-0.045	0.0062833		
5 1.140 Dim Pocket 2 5 1.4 Distance pocket 2	1.136217	1.14	0.05	-0.05	-0.0037833 -0.0781128		
7 11.927 Dim R5.4 Pocket 2 Z	11.91812	11.927	0.3	-0.3	-0.0088826		
3 11.927 Dim R9.6 Pocket 2 Z	11.99046			-0.3			

Below are suggested edits.

EDIT THE REPORT

First highlight Row 14 down through the reminder of the cells and change the cell format from General to Number and change the decimal places.

Characteristic	Actual	Nominal	Upper To	Lower	To Devia	ntion		
1.739 Line	-1.7742	-1.73	9 0.025	-0.0)25 -0.	0352032		
4.527 Angle Pocket 1	-4.54435	-4.52	7 0.5	-	0.5 -0.	0173471		
16.104 Dim Pocket 1	16.11387	16.104	4 0.045	-0.0	45 0.	0098727		
25.575 Dim Pocket 1_X	25.574	ormat Cell			er - e	summer.		8
20.00 Dim Pocket 1	20.00	ormat Cell	•		12 1	and the second		
1.14 Distance Pocket 1	1.1414:	Number	41	Fret	Border	Fill	Protection	
8.8 Width Pocket 1_Z	8.7916	Number	Alignment	Font	Border	FIII	Protection	
.15 Dim Pocket 1 Top_Z	0.150	Category:						
.15 Dim Pocket 1 Bottom	0.145	General		Sampl	e			
4.50 Dim Pocket 1 X	4.5548	Number		1.739	Line			
1.4 Distance pocket 1	1.2787	Currency Accountin			. г			
9.100 Dim Pocket 1	9.1139	Date	'y	Decima	places:	4 🚔		
18.7 Plane Pocket 1	18.695	Time		Use	1000 Sepa	rator (,)		
3.7 Dim Pocket 1_Y	3.6763	Percenta Fraction	ge	Negativ	/e numbers			
1.5 Dim Pocket 1_Y	1.4865	Scientific		-1234		·		
18.7 Depth of Channel	18.692	Text		1234.				
11.927 Dim R5.4 Pocket 1 Z	11.938	Special Custom		(1234				
11.927 Dim R9.6 Pocket 1 Z	11.963	Custom		(1234	.3210)			
49.566 Line	-49.58							
4.527 Angle Pocket 2	4.5415							
8.8 Width Pocket 2 Z	8.7921							
20.00 Dim Pocket 2	19.993							
1400 D' D I 10	0.0000		-					

Click on Cell B2 and delete "Calypso Measuring Results"

Insert a picture i.e. Calypso Logo

Ca	lvi	05	
	ment Plan		Order
BALLNUT		13-Mar-17	order
Drawing	No.	Time	Part No.
		12:16:44	457
Operator		СММ	
Master			

Maybe you would like a picture of the part as shown. Just insert a picture, resize it and drag to where you would like it.

Cal	pso	
Measurement Plan		Order
BALLNUT	13-Mar-17	
Drawing No.	Time	Part No.
	12:16:44	457
Operator	СММ	
Master		

One edit that will make the report standout is creating conditional formatting for each cell. We will change the color of the cell to reflect if the value is in tolerance or not.

Paste v V Format Painter B I U v	· <u>}</u> · <u>A</u> · ≡		📑 Wrap Text 🔤 Merge & Center 🔻	Number ▼ \$ ▼ % , 500 500	Conditional Formatting v as Table v	
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12					Mew Rule	A Date Occurring
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14 1.739 Line	-1.7742 -1.7390		-0.0352			
15 4.527 Angle Pocket 1	-4.5443 -4.5270		-0.0173		Manage <u>R</u> ules	Duplicate Values
16 16.104 Dim Pocket 1	16.1139 16.1040		0.0099			
17 25.575 Dim Pocket 1_X	25.5744 25.5750		-0.0006			More Rules
18 20.00 Dim Pocket 1	20.0042 20.0000	0.2000 -0.2	0.0042			

Highlight the F14 and click on Conditional Formatting/ Highlight Cells Rules. Now select Greater Than...

Greater Than	8 ×	This box will appear.
Format cells that are GREATER THAN:		
-0.0352 with	Light Red Fill with Dark Red Text 💌	
	OK Cancel	

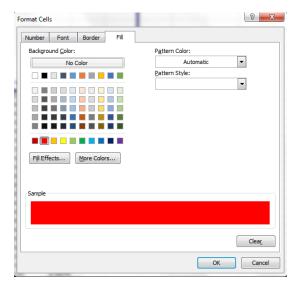
We now need to select the icon and click on the cell to compare the F14 cell to.

Select D14 cell then select the icon again.

al U	pper Tol L	ower To	Deviation		
90	0.0250	-0.0250	-0.0352		
70	0.5000	-0.5000	-0.0173		
40	0.0450	-0.0450	0 0000		0 8
50	0.1000	-0.1000	Greater Than		? ×
00	0.2000	-0.2000			
00	0.0500	-0.0500	=\$D\$14		
00	0.0250	-0.0250		 	
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Greater Than		<u>१</u> ×
Format cells that are GR	EATER THAN:	
=\$D\$14	💽 with	Custom Format
0.0139 -0.0048		Red Text Red Border Custom Format

Choose Custom Format...



Go to the Fill tab and select RED. Click OK to completely exit out of this command

So we are entering a command if F14 (-0.035) value is Greater Than \dots the D14 (0.0250) value then fill this cell with RED.

Now repeat by selecting Conditional Formatting/ Highlight Cells Rules. Now select Greater Than... This time, with F14 selected, click on the icon and select E14.

Toll	Lower To	Deviation				
250	-0.0250	-0.0352				
000	-0.5000	-0.0173				
450	-0.0450	0.0000				
000	-0.1000	Greater Than				? X
000	-0.2000					
500	-0.0500	=\$E\$14	 			
250	-0.0250		 	_	_	
000	0 4000	0.0004				

Select the icon again and repeat as above to select the RED fill if this value is greater than.

per I ol I 0.0250	-0.0250	viation -0.0352			
0.5000	-0.5000	-0.0173			Format Cells
0.0 0.1	s Than				Number Font Border Fill
0.01	ormat cells tha	t are LESS THAN:			Background <u>C</u> olor: P <u>a</u> ttern Color:
	\$E\$14			with Custom Fo	No Color Automatic
0.3	4-4-1				Pattern Style:
0.1					
0.3					
0.5000	-0.5000	-0.1212	_		
0.3000	-0.3000	0.0139			
0.0400	-0.0400	-0.0048			
0.0450	-0.0450	-0.0237			
0.3000	-0.3000	-0.0134			
0.0400	-0.0400	-0.0070			
0.3000	-0.3000	0.0118			Fill Effects More Colors
0.3000	-0.3000	0.0368			
0.0250	-0.0250	-0.0193			
0.2500	-0.2500	0.0146			
0.0250	-0.0250	-0.0079			Sample
0.2000	-0.2000	-0.0068			
0.3000	-0.3000	-0.0020			
0.3000	-0.3000	0.0218			
0.0250	-0.0250	0.0033			
0.0400	-0.0400	-0.0005			
0.0450	-0.0450	0.0094			Clear
0.3000	-0.3000	0.0038			

So we are entering a command if F14 (-0.035) value is Greater Than \dots the E14 (-0.0250) value then fill this cell with RED.

Now what if the number is LESS Than... or between the plus and minus tolerances? Let's create that rule. We create this rule by selecting Conditional Formatting/ Highlight Cells Rules. Now select Less Than... This time, with F14 selected, click on the icon and select D14. Select Custom Format. And make this rule green

			Format Cells	
Jpper Tol Lowe	er To Deviation			
0.0250 -0.	.0250 -0.0352		Number Font Border Fill	
	.5000 -0.0173		Background Color:	Pattern Color:
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	t cells that are LESS THAN	4:		· · · · · · · · · · · · · · · · · · ·
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0.01 =\$D\$14 0.3	4	with Custom Format		
0.1		[]		
0.3		OK		
	.5000 -0.1212			
	.3000 0.0139			
0.0400 -0.	.0400 -0.0048			
0.0450 -0.	.0450 -0.0237		Fill Effects More Colors	
0.3000 -0.	.3000 -0.0134			
0.0400 -0.	.0400 -0.0070			
	.3000 0.0118			
	.3000 0.0368		Sample	
	.0250 -0.0193			
	.2500 0.0146			
	.0250 -0.0079			
	.2000 -0.0068			
	.3000 -0.0020			Clear
	.3000 0.0218			
	.0250 0.0033			OK Cancel
	.0400 -0.0005			Cancer
0.0450 -0.	.0450 0.0094			

If value F14 (-0.035) is between D14 and E14 (+/-0.025) then the cell will be green. If F`4 is greater than either D14 or E14 the cell will be red.

If at any time you need to correct one of the rules highlight the cell that need editing and select Conditional Formatting and select Manage Rules.

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.0250		250 -0.0352							
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Keep repeating the process until all the cells are complete. Remember if it is greater than the tolerance either in the positive or negative then the cell needs to be red. If it is less than the positive or negative tolerance then the cell needs to be green.

The next step is IMPORTANT. Highlight all the cells starting at A14 across to F14 and down the entire worksheet. Once this is done right click and select Clear Contents.

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	Drawing I	No.	Time		Part No.
	Statting		12:16:44		457
	Operator		СММ		
	Master				
Characteristic	Actual	Nominal	Upper To	Lower To	Deviation
1.739 Line	-1.7742				
4.527 Angle Pocket 1	-4.5443	-4.5270			
16.104 Dim Pocket 1	16.1139				
25.575 Dim Pocket 1 X	25.5744	25.5750	0.1000	-0.1000	-0.0006
20.00 Dim Pocket 1	20.0042	20.0000	0.2000	-0.2000	0.0042
1.14 Distance Pocket 1	1.1414	1.1400	0.0500	-0.0500	0.0014
8.8 Width Pocket 1 Z	8.7917	8.8000	0.0250	-0.0250	-0.0083
.15 Dim Pocket 1 Top_Z	0.1501	0.1500	0.3000	-0.1000	0.0001
.15 Dim Pocket 1 Bottom	0.1460	0.1500	0.1000	-0.1000	-0.0040
4.50 Dim Pocket 1 X	4.5549	4.5000	0.3000	-0.3000	0.0549
1.4 Distance pocket 1	1.2788	1.4000	0.5000	-0.5000	-0.1212
9.100 Dim Pocket 1	9.1139	9.1000	0.3000	-0.3000	0.0139
18.7 Plane Pocket 1	18.6952	18.7000	0.0400	-0.0400	-0.0048
3.7 Dim Pocket 1 Y	3.6763	3.7000	0.0450	-0.0450	-0.0237
1.5 Dim Pocket 1 Y	1.4866	1.5000	0.3000	-0.3000	-0.0134
18.7 Depth of Channel	18.6930	18.7000	0.0400	-0.0400	-0.0070
11.927 Dim R5.4 Pocket 1 Z	11.9388	11.9270	0.3000	-0.3000	0.0118
11.927 Dim R9.6 Pocket 1 Z	11.9638	11.9270	0.3000	-0.3000	0.0368
49.566 Line	-49.5853	-49.5660	0.0250	-0.0250	-0.0193
4.527 Angle Pocket 2	4.5416	4.5270	0.2500	-0.2500	0.0146
8.8 Width Pocket 2_Z	8.7921	8.8000	0.0250	-0.0250	-0.0079
20.00 Dim Pocket 2	19.9932	20.0000	0.2000	-0.2000	-0.0068
9.100 Dim Pocket 2	9.0980	9.1000	0.3000	-0.3000	-0.0020
4.500 Dim Pocket 2	4.5218	4.5000	0.3000	-0.3000	0.0218
25.5750 Dim Pocket 2	25.5783	25.5750	0.0250	-0.0250	0.0033
18.7 Depth Pocket 2	18.6995	18.7000	0.0400	-0.0400	-0.0005
3.7 Dim Pocket 2_Y	3.7094	3.7000	0.0450	-0.0450	0.0094
1.5 Dim Pocket 2 Y	1.5038	1.5000	0.3000	-0.3000	0.0038
.150 Dim Pocket 2 Top	0.1473	0.1500	0.1000	-0.1000	-0.0027
.15 Dim Pocket 2 Bottom_Z	0.1490	0.1500	0.3000		
16.104 Dim Pocket 2	-16.0977	-16.1040	0.0450	-0.0450	0.0063
1.140 Dim Pocket 2	1.1362			-0.0500	-0.0038
1.4 Distance pocket 2	1.3219	1.4000	0.3000	-0.3000	-0.0781
11.927 Dim R5.4 Pocket 2 Z	11.9181	11.9270	0.3000	-0.3000	-0.0089

	Meas	urement Plan Date	Order				
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ket 2	File name:	Ballnut.xls				•	
ket 2	Save as type:	Excel 97-2003 Workbook (*.xls)				•	
ket 2							

Save the Excel Report as a .xls under the DATA directory of your Calypso install.

Possible Error depending on the Excel version you have.

Micro	The following features in this workbook are not supported versions of Excel. These features may be lost or degrad this workbook in the currently selected file format. Click the workbook anyway. To keep all of your features, click save the file in one of the new file formats.	led when y Continue t	ou save
Sum	mary	Occi	urrences
Sig	nificant loss of functionality		8
fi v	rst three conditions will be displayed in earlier	Find <u>Help</u> (cel 97-200	
	Check compatibility when saving this workbook.	Ca	ncel

Just click OK

Now we need to associate this excel report with the measurement plan.

Go to Resources/ Define Printout/ Default Report and click on the folder in the Excel Report line and navigate to your saved excel report.

Edit View Resources Fea						
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This is how the report will look.

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	Operator		СММ			
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Characteristic	Actual	Nominal	Upper To	Lower To	Deviation	
1.739 Line	-1.7742	-1.7390	0.0250	-0.0250	-0.0352	
4.527 Angle Pocket 1	-4.5443	-4.5270	0.5000	-0.5000	-0.0173	
16.104 Dim Pocket 1	16.1139	16.1040	0.0450	-0.0450	0.0099	