

4.2013.1112 --- D:\Programmdaten\PC-DMIS\Ta

D:\Programmdaten\PC-DMIS\WS-Programme\Version 20

Demo-Ergebniskonverter

A

1

#### Dimension values

Characteristic	Value
Dimension ID	PROF1.M
Dimension type	PROFILE
Nominal	0
U. tolerance	0.2
L. tolerance	-0.2
Measured	0.01899
Deviation	0.01899
Out of Tol.	0
MMC/LMC/RFS	
Bonus tolerance	
Min	-0.01899
Max	-0.00095
Feature 1	SCN1
Feature 2	
Feature 3	
Datum 1	
Datum 2	
Datum 3	

Comment



# HEXAGON

## PC-DMIS Ergebniskonverter

Product Presentation

Status: February 14, 2022

# PC-DMIS Ergebniskonverter

The PC-DMIS result converter provides a flexible output interface for dimensions from the PC-DMIS measurement routine. The data can be output directly in a predefined Microsoft Excel spreadsheet or in ASCII files.

You are familiar with the situation where a wide variety of table or file formats are required with the measurement results?

The PC-DMIS result converter was developed for this purpose. Be amazed by the flexibility of the software.

The screenshot displays the PC-DMIS software interface on the left, showing a list of measurement results with columns for 'Lfd. Nr.', 'Symbol', 'ID', 'Element 1', 'Element 2', 'Element 3', 'Bezug 1', 'Bezug 2', 'Bezug 3', 'Einheit', 'Nennwert', 'obere Tol.', 'untere Tol.', 'Messwert 1', 'Messwert 2', 'Messwert 3', 'Messwert 4', 'Messwert 5', and 'Kommentar'. The right side shows a converted Excel spreadsheet with a header section containing 'Kennnummer, Lieferant: 0', 'Prüfberichts-Nr.: 0', and 'Version: 0'. Below this is a table for 'Ist-Werte Lieferant' with columns for 'Teil 1', 'Teil 2', 'Teil 3', 'Teil 4', 'Teil 5', and 'Bewertung'. The main data table in the spreadsheet mirrors the columns of the PC-DMIS software. At the bottom right, there is a section for 'Entscheidung Kunde' with checkboxes for 'Ist', 'Ist mit Auflage', and 'Abgelehnt Nachbearbeitung erforderlich', and fields for 'Name', 'Abteilung', 'Telefon/Fax', 'E-Mail', and 'Datum'.

# PC-DMIS Ergebniskonverter – Configuration of the Excel tables

Report configuration --- D:\Programmdaten\PC-DMIS\Tabellen\_ERKON\Beispiel\_Protokoll\_Spalten.cfg

**Description of the Excel table**

**Report format**

Dimensions in rows  
 Dimensions in columns

**Header data**

Header data setup

Tracefield	Row	Column
Date	VM	D
Time	VM	E
Inspector	VM	B
Part number	VM	C

VM: Use row or column from measured value

**System data**

Date in column: NotUsed  
 Time in column: NotUsed  
 Dim. counter in row: 6

**Measurement routine data**

Measured values in row: 21 to 45  
 Dimensions in columns: F-P  
 ID in row: 8  
 Nominal in row: 9  
 Upper tol. in row: 10  
 Lower tol. in row: 11  
 Deviation in row \*: NotUsed  
 Out of tol. in row \*: NotUsed  
 Symbol in row: 7  
 Comment in row: 19 Comment length: 10  
 Feature 1 - 3 in rows: 12 13 14  
 Datum 1 - 3 in rows: 15 16 17  
 Unit in row: 18

	in column	in row
Measurement routine name	F	2
Drawing no.	F	4
Revision	F	3
Current Page	NotUsed	NotUsed
Number of Pages	NotUsed	NotUsed

OK  
 Cancel  
 Save  
 Load

\* Can be used only for reports which includes one part

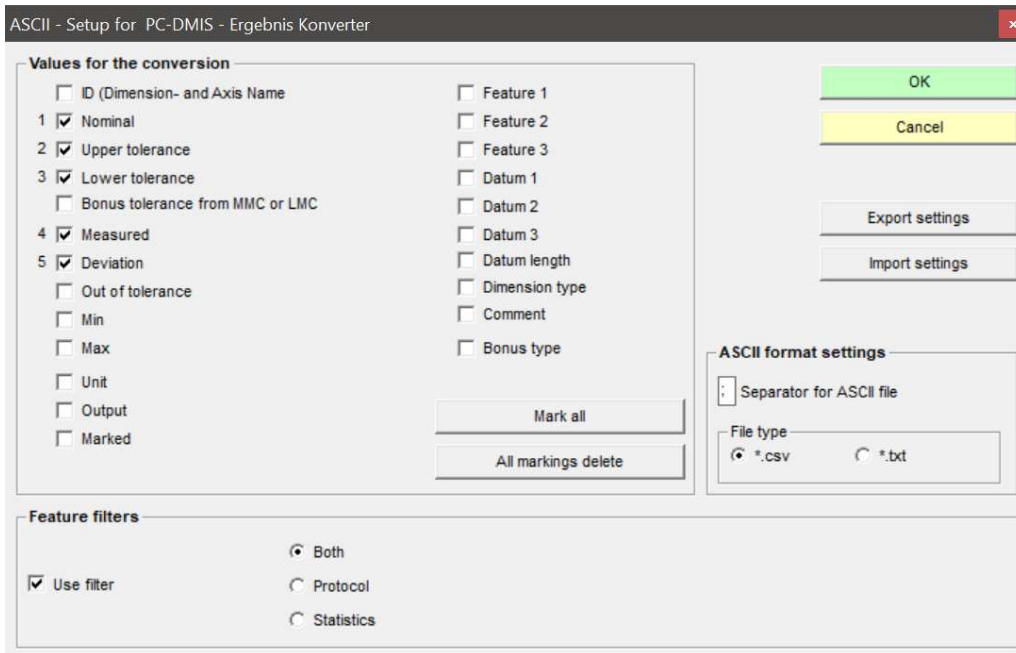
- The different table templates can be configured in the report configuration.
- Desired header data can also be defined here.
- An unlimited number of configurations can be created, saved and loaded and used at the desired time.

# PC-DMIS Ergebniskonverter – Example of an Excel spreadsheet

PC-DMIS™ - Messprotokoll																																																																																																																																																																																		
Demo-Ergebniskonverter																																																																																																																																																																																		
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In template pre-defined calculations																																																																																																																																																																																		
<table border="1"> <tr> <th>Lfd. Nr.</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> </tr> <tr> <td>Symbol</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ID</td> <td>LOC1.Z</td> <td>LOC2.Y</td> <td>LOC3.X</td> <td>LOC4.X</td> <td>LOC4.Y</td> <td>LOC4.D</td> <td>LOC5.X</td> <td>LOC5.Y</td> <td>LOC5.D</td> <td>LOC6.X</td> <td>LOC6.Y</td> </tr> <tr> <td>Nennwert</td> <td>0.000</td> <td>-30.000</td> <td>-40.000</td> <td>0.000</td> <td>0.000</td> <td>30.000</td> <td>20.500</td> <td>0.000</td> <td>8.200</td> <td>14.496</td> <td>14.496</td> </tr> <tr> <td>obere Tol.</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> <td>0.050</td> </tr> <tr> <td>untere Tol.</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> <td>-0.050</td> </tr> <tr> <td>Element 1</td> <td>PLN1_DCC</td> <td>LIN1_DCC</td> <td>PNT1_DCC</td> <td>CIR1</td> <td>CIR1</td> <td>CIR1</td> <td>CIR2</td> <td>CIR2</td> <td>CIR2</td> <td>CIR3</td> <td>CIR3</td> </tr> <tr> <td>Element 2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Element 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bezug 1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bezug 2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Bezug 3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Einheit</td> <td>MM</td> <td>MM</td> <td>MM</td> <td>MM</td> <td>MM</td> <td>MM</td> <td>MM</td> <td>MM</td> <td>MM</td> <td>MM</td> <td>MM</td> </tr> <tr> <td>Kommentar</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>											Lfd. Nr.	1	2	3	4	5	6	7	8	9	10	11	Symbol												ID	LOC1.Z	LOC2.Y	LOC3.X	LOC4.X	LOC4.Y	LOC4.D	LOC5.X	LOC5.Y	LOC5.D	LOC6.X	LOC6.Y	Nennwert	0.000	-30.000	-40.000	0.000	0.000	30.000	20.500	0.000	8.200	14.496	14.496	obere Tol.	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	untere Tol.	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	-0.050	Element 1	PLN1_DCC	LIN1_DCC	PNT1_DCC	CIR1	CIR1	CIR1	CIR2	CIR2	CIR2	CIR3	CIR3	Element 2												Element 3												Bezug 1												Bezug 2												Bezug 3												Einheit	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	MM	Kommentar											
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Messung1	Prüfer	Teilentr.	Datum	Uhrzeit	0.000	-30.000	-40.014	0.007	-0.016	30.003	20.515	-0.017	8.187	14.481	14.516																																																																																																																																																																			
Messung2	F	1	09.02.22	9:29:54	0.000	-30.000	-40.020	0.018	-0.005	29.985	20.493	-0.014	8.203	14.472	14.470																																																																																																																																																																			
Messung3	F	2	09.02.22	9:31:21	0.000	-30.000	-40.020	0.018	-0.005	29.985	20.493	-0.014	8.203	14.472	14.470																																																																																																																																																																			
Messung4	F	3	09.02.22	9:32:30	0.000	-30.000	-40.006	-0.024	-0.002	30.000	20.500	-0.006	8.198	14.475	14.510																																																																																																																																																																			
Messung4	F	4	09.02.22	9:33:37	0.000	-30.000	-39.981	-0.012	0.008	30.002	20.510	-0.027	8.209	14.512	14.501																																																																																																																																																																			
Messung5	F	5	09.02.22	9:36:48	0.000	-30.000	-40.031	0.018	0.027	29.996	20.471	-0.012	8.192	14.480	14.508																																																																																																																																																																			
Messung6	F	6	09.02.22	9:39:47	0.000	-30.000	-40.019	0.018	-0.020	29.998	20.474	-0.008	8.182	14.503	14.506																																																																																																																																																																			
Messung7	F	7	09.02.22	9:41:22	0.000	-30.000	-40.006	-0.007	-0.028	30.001	20.521	0.006	8.208	14.510	14.505																																																																																																																																																																			
Messung8	F	8	09.02.22	9:42:36	0.000	-30.000	-39.986	0.012	0.019	30.016	20.510	-0.025	8.203	14.515	14.484																																																																																																																																																																			
Messung9	F	9	09.02.22	9:43:44	0.000	-30.000	-39.996	0.015	0.011	30.013	20.514	-0.016	8.201	14.505	14.500																																																																																																																																																																			
Messung10	F	10	09.02.22	9:44:52	0.000	-30.000	-39.991	-0.014	0.020	29.999	20.491	-0.030	8.206	14.486	14.505																																																																																																																																																																			
Messung11	F	11	09.02.22	9:46:01	0.000	-30.000	-39.979	0.011	-0.020	30.011	20.515	0.012	8.187	14.484	14.483																																																																																																																																																																			
Messung12	F	12	09.02.22	9:51:50	0.000	-30.000	-39.988	0.018	-0.019	30.011	20.507	0.018	8.216	14.509	14.506																																																																																																																																																																			
Messung13	F	13	09.02.22	9:53:00	0.000	-30.000	-39.998	-0.020	0.017	30.006	20.489	-0.012	8.192	14.478	14.470																																																																																																																																																																			
Messung14	F	14	09.02.22	9:54:46	0.000	-30.000	-40.027	0.015	0.044	29.997	20.538	0.029	8.158	14.475	14.495																																																																																																																																																																			
Messung15	F	15	09.02.22	9:57:02	0.000	-30.000	-40.000	0.000	0.043	29.981	20.507	-0.007	8.170	14.460	14.423																																																																																																																																																																			
Messung16	F	16	09.02.22	9:58:11	0.000	-30.000	-39.926	0.044	0.013	29.949	20.460	0.010	8.208	14.459	14.422																																																																																																																																																																			
Messung17	F	17	09.02.22	9:59:22	0.000	-30.000	-40.024	0.021	0.032	29.984	20.473	-0.030	8.180	14.483	14.518																																																																																																																																																																			
Messung18	F	18	09.02.22	10:02:01	0.000	-30.000	-39.955	0.041	-0.018	30.047	20.468	0.052	8.240	14.455	14.469																																																																																																																																																																			
Messung19	F	19	09.02.22	10:04:03	0.000	-30.000	-39.942	0.022	-0.071	30.034	20.499	0.042	8.230	14.451	14.500																																																																																																																																																																			
Messung20	F	20	09.02.22	10:05:15	0.000	-30.000	-40.014	0.051	-0.046	29.967	20.466	-0.032	8.189	14.546	14.501																																																																																																																																																																			
Messung21	F	21	09.02.22	10:06:38	0.000	-30.000	-39.949	0.029	-0.065	29.970	20.510	0.035	8.163	14.442	14.499																																																																																																																																																																			
Messung22	F	22	09.02.22	10:07:53	0.000	-30.000	-39.986	-0.049	-0.008	30.017	20.496	0.039	8.239	14.465	14.479																																																																																																																																																																			
Messung23	F	23	09.02.22	10:11:42	0.000	-30.000	-40.034	-0.038	-0.076	30.004	20.537	0.028	8.161	14.457	14.505																																																																																																																																																																			
Messung24	F	24	09.02.22	10:13:25	0.000	-30.000	-39.984	-0.011	0.008	30.001	20.499	0.005	8.202	14.501	14.499																																																																																																																																																																			
Messung25	F	25	09.02.22	10:14:45	0.000	-30.000	-40.015	0.012	-0.015	30.000	20.505	-0.018	8.208	14.507	14.499																																																																																																																																																																			
Mittelwert					0.0000	-30.0000	-39.9980	0.0070	-0.0040	30.0000	20.5000	-0.0080	8.1970	14.4810	14.4910																																																																																																																																																																			
Min					0.0000	-30.0000	-40.0340	-0.0380	-0.0760	30.0040	20.5370	0.0280	8.1610	14.4570	14.4990																																																																																																																																																																			
Max					0.0000	-30.0000	-39.9420	0.0510	-0.0460	29.9670	20.4660	-0.0320	8.1890	14.5460	14.5010																																																																																																																																																																			
Range					0.0000	0.1080	0.0997	0.1201	0.0981	0.0780	0.0833	0.0820	0.1039	0.0963	0.0063																																																																																																																																																																			

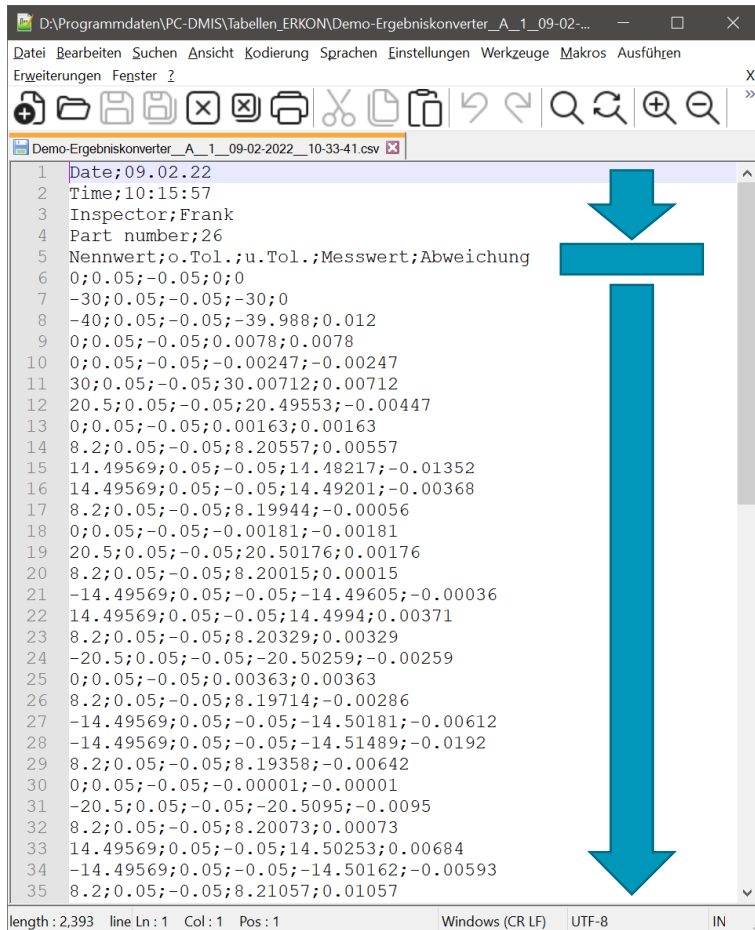
- A sample report in Microsoft Excel is shown in the image on the left. This report is limited to a size that can still be printed on an A4 format.
- If this area is not sufficient to display all characteristics, several tabs are automatically created on this page.
- Both the page and the report are incremented. Thus, the report can be considered unlimited.
- Each page is based on the template provided by the customer ("Master" tab).
- The "UniqueIDs" tab is created automatically and is used to identify changes in the measurement routine.

# PC-DMIS Ergebniskonverter – Configuration of the ASCII output



- In the ASCII setup it is determined which characteristic data is output per characteristic, in which order and with which separator.
- The feature filter can be used to specify which output option of the feature should be considered in the PC-DMIS measurement routine.
- The ASCII file can be output in .csv or .txt format.

# PC-DMIS Ergebniskonverter – Example of an ASCII file



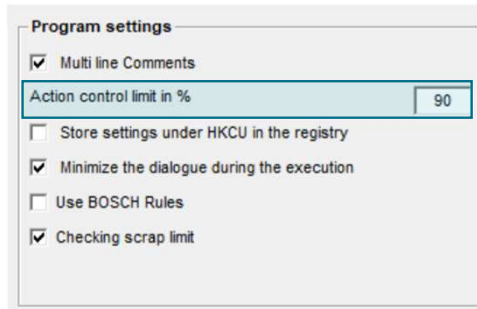
The screenshot shows a text editor window titled "Demo-Ergebniskonverter\_A\_1\_09-02-2022\_10-33-41.csv". The file content is as follows:

```
1 Date;09.02.22
2 Time;10:15:57
3 Inspector;Frank
4 Part number;26
5 Nennwert;o.Tol.;u.Tol.;Messwert;Abweichung
6 0;0.05;-0.05;0;0
7 -30;0.05;-0.05;-30;0
8 -40;0.05;-0.05;-39.988;0.012
9 0;0.05;-0.05;0.0078;0.0078
10 0;0.05;-0.05;-0.00247;-0.00247
11 30;0.05;-0.05;30.00712;0.00712
12 20.5;0.05;-0.05;20.49553;-0.00447
13 0;0.05;-0.05;0.00163;0.00163
14 8.2;0.05;-0.05;8.20557;0.00557
15 14.49569;0.05;-0.05;14.48217;-0.01352
16 14.49569;0.05;-0.05;14.49201;-0.00368
17 8.2;0.05;-0.05;8.19944;-0.00056
18 0;0.05;-0.05;-0.00181;-0.00181
19 20.5;0.05;-0.05;20.50176;0.00176
20 8.2;0.05;-0.05;8.20015;0.00015
21 -14.49569;0.05;-0.05;-14.49605;-0.00036
22 14.49569;0.05;-0.05;14.4994;0.00371
23 8.2;0.05;-0.05;8.20329;0.00329
24 -20.5;0.05;-0.05;-20.50259;-0.00259
25 0;0.05;-0.05;0.00363;0.00363
26 8.2;0.05;-0.05;8.19714;-0.00286
27 -14.49569;0.05;-0.05;-14.50181;-0.00612
28 -14.49569;0.05;-0.05;-14.51489;-0.0192
29 8.2;0.05;-0.05;8.19358;-0.00642
30 0;0.05;-0.05;-0.00001;-0.00001
31 -20.5;0.05;-0.05;-20.5095;-0.0095
32 8.2;0.05;-0.05;8.20073;0.00073
33 14.49569;0.05;-0.05;14.50253;0.00684
34 -14.49569;0.05;-0.05;-14.50162;-0.00593
35 8.2;0.05;-0.05;8.21057;0.01057
```

A blue arrow points to the header section (lines 1-5) of the file.

- The output file is divided into 3 areas:
  - Header data (fully configurable)
  - Heading of the measured values (results from the configuration)
  - Characteristic data (one line per characteristic)

# PC-DMIS Ergebniskonverter – Control limits



- A control limit can be defined in % of the tolerance.
- The features are differentiated by color (within tolerance, within tolerance but violation of the action limit, outside of tolerance).
- A traffic light warns the operator if intervention or tolerance limits have been violated.



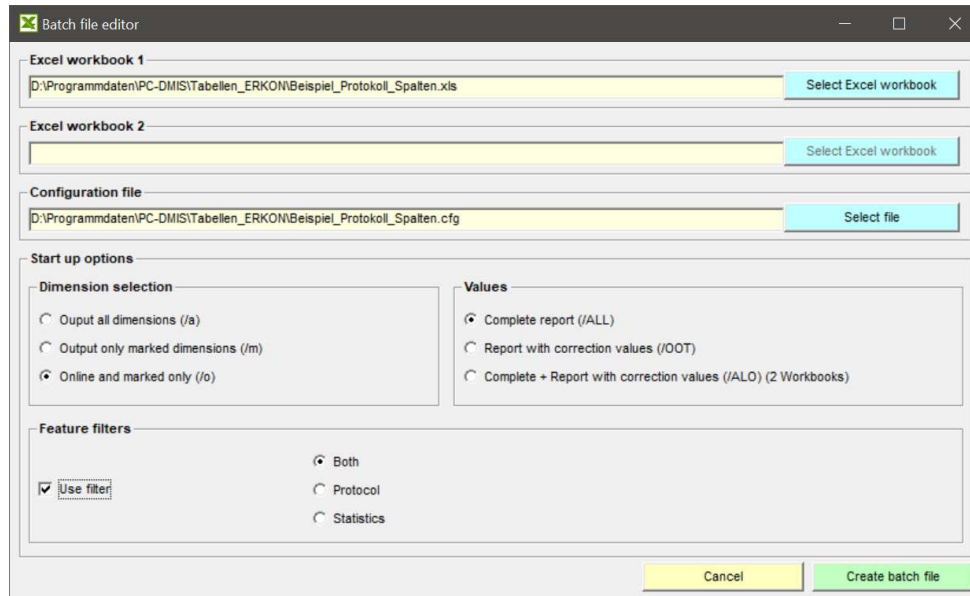
# PC-DMIS Ergebniskonverter – Scrap limits

Dimension	Axis	Nominal	Upper tolerance	Lower tolerance	Upper limit	Lower limit
LOC1	Z	0	0.05	-0.05	0.05	-0.05
LOC2	Y	-30	0.05	-0.05	-29.95	-30.05
LOC3	X	-40	0.05	-0.05	-39.95	-40.05
LOC4	X	0	0.05	-0.05	0.05	-0.05
LOC4	Y	0	0.05	-0.05	0.05	-0.05
LOC4	D	30	0.05	-0.05	30.05	29.95
LOC5	X	20.5	0.05	-0.05	20.55	20.45
LOC5	Y	0	0.05	-0.05	0.05	-0.05
LOC5	D	8.2	0.05	-0.05	8.25	8.15
LOC6	X	14.49569	0.05	-0.05	14.54569	14.44569
LOC6	Y	14.49569	0.05	-0.05	14.54569	14.44569
LOC6	D	8.2	0.05	-0.05	8.25	8.15
LOC7	X	0	0.05	-0.05	0.05	-0.05
LOC7	Y	20.5	0.05	-0.05	20.55	20.45
LOC7	D	8.2	0.05	-0.05	8.25	8.15
LOC8	X	-14.49569	0.05	-0.05	-14.44569	-14.54569
LOC8	Y	14.49569	0.05	-0.05	14.54569	14.44569
LOC8	D	8.2	0.05	-0.05	8.25	8.15
LOC9	X	-20.5	0.05	-0.05	-20.45	-20.55
LOC9	Y	0	0.05	-0.05	0.05	-0.05
LOC9	D	8.2	0.05	-0.05	8.25	8.15
LOC10	X	-14.49569	0.05	-0.05	-14.44569	-14.54569
LOC10	Y	-14.49569	0.05	-0.05	-14.44569	-14.54569
LOC10	D	8.2	0.05	-0.05	8.25	8.15
LOC11	X	0	0.05	-0.05	0.05	-0.05
LOC11	Y	-20.5	0.05	-0.05	-20.45	-20.55
LOC11	D	8.2	0.05	-0.05	8.25	8.15

- In addition to the tolerance, scrap limits can also be intelligently added to the characteristics and monitored in the PC-DMIS result converter.
- This is a function that is in demand, especially in the prototype phase.



# PC-DMIS Ergebniskonverter – Integration into the measurement routine



- The PC-DMIS results converter can be started directly from a measurement routine.
- For this purpose, a batch file can be generated via a dialog, which is then integrated into the measurement routine using an external command.
- The Excel file, the associated configuration and the characteristic filter are selected via the content of the batch file.
- This means that no operator intervention is required when using the measurement routine and nothing stands in the way of using the PC-DMIS result converter in an automated process.

# Have we piqued your interest?

Simply download the software from our server and apply for a non-binding demo license.

[https://ftp.hexmet.de/PC-DMIS/PC-DMIS\\_Ergebnis\\_Konverter](https://ftp.hexmet.de/PC-DMIS/PC-DMIS_Ergebnis_Konverter)