

ersion 2.2018.0.3(x64)

ettings Info



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	To	Upper
	0.5	
	3	0
	6	0.1
	30	0.2
	120	0.3
	400	0.5
	1000	0.8
	2000	1.2
	4000	2



**HEXAGON**

## **PC-DMIS Tolerance Table**

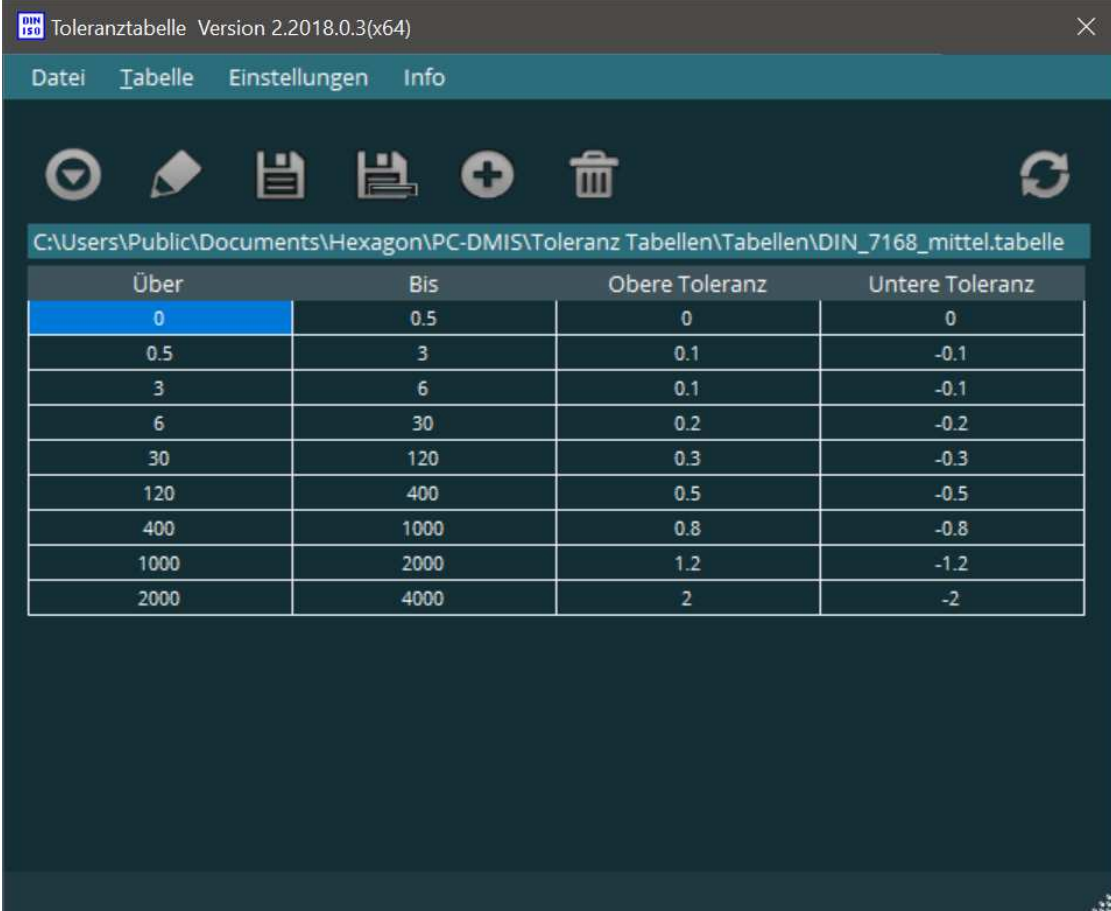
Product presentation

Status: Februar, 16<sup>th</sup> 2022

# PC-DMIS Tolerance Table

Are you familiar with the situation where the drawing or CAD model refers to a general tolerance for all non-toleranced dimensions?

The PC-DMIS tolerance table closes this gap in the measurement software. Be amazed by the flexibility of the software.

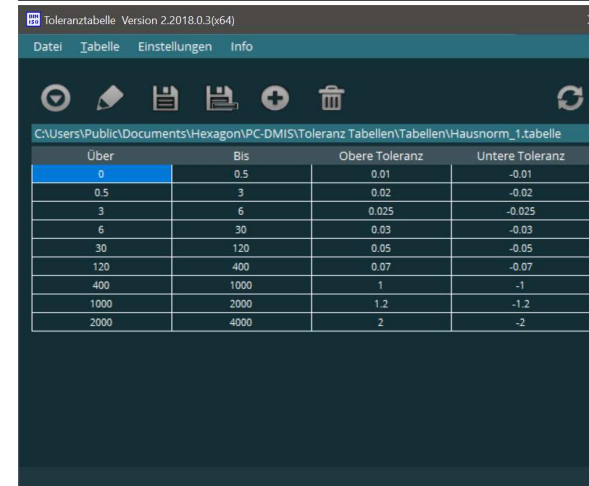
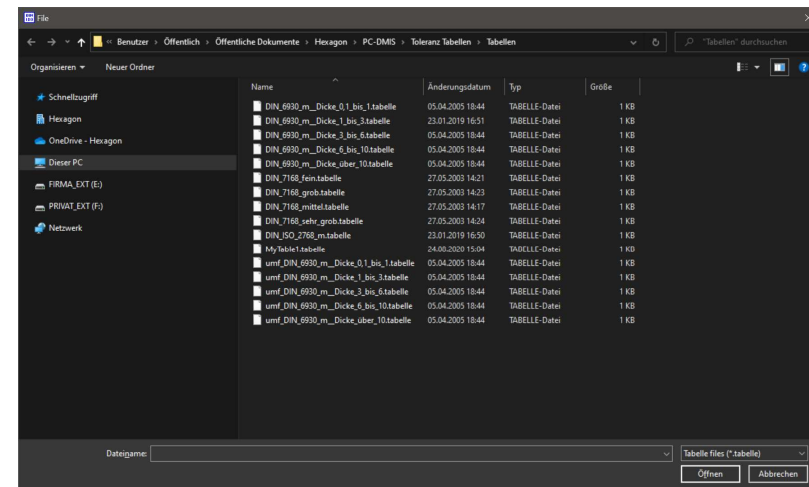


Über	Bis	Obere Toleranz	Untere Toleranz
0	0.5	0	0
0.5	3	0.1	-0.1
3	6	0.1	-0.1
6	30	0.2	-0.2
30	120	0.3	-0.3
120	400	0.5	-0.5
400	1000	0.8	-0.8
1000	2000	1.2	-1.2
2000	4000	2	-2

# PC-DMIS Tolerance Table – Templates and user defined tables

You can choose between sample tables provided with the software or create your own tables and save them for reuse.

This tool is available to you as a PC-DMIS user free of charge.



# PC-DMIS Tolerance Table – How to use

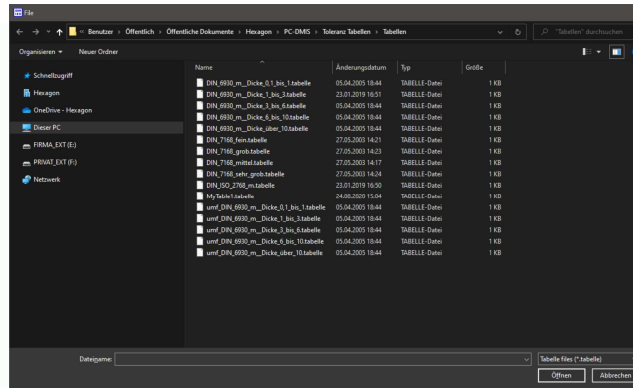
1. When creating the measurement routine for features with general tolerance, use 0 for the upper and lower tolerance.

2. Open the required table in the user interface of the tolerance table software.

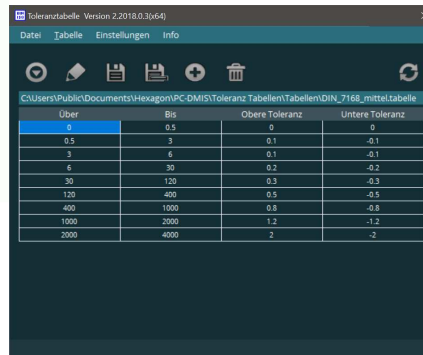
4. The tolerances with the value +/- 0 are replaced in the measuring routine with the length-dependent values from the table.

```

DIM LOC1= LOCATION OF PLANE PLN1_DCC UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
Z 0.0000 0.0000 0.0000 0.0000 0.0000
END OF DIMENSION LOC1
DIM LOC2= LOCATION OF LINE LIN1_DCC UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
Y 0.0000 0.0000 0.0000 0.0000 0.0000
END OF DIMENSION LOC2
DIM LOC3= LOCATION OF POINT PNT1_DCC UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 0.0000 0.0000 0.0000 0.0000 0.0000
END OF DIMENSION LOC3
DIM LOC4= LOCATION OF CIRCLE CIR1 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 40.0000 0.0000 0.0000 40.0000 0.0000
Y 30.0000 0.0000 0.0000 30.0000 0.0000
D 30.0000 0.0000 0.0000 30.0000 0.0000
END OF DIMENSION LOC4
DIM LOC5= LOCATION OF CIRCLE CIR2 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 40.0000 0.0000 0.0000 40.0000 0.0000
Y 30.0000 0.0000 0.0000 30.0000 0.0000
D 20.0000 0.0000 0.0000 20.0000 0.0000
END OF DIMENSION LOC5
DIM LOC6= LOCATION OF CIRCLE CIR3 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 40.0000 0.0000 0.0000 40.0000 0.0000
Y 30.0000 0.0000 0.0000 30.0000 0.0000
D 10.0000 0.0000 0.0000 10.0000 0.0000
END OF DIMENSION LOC6
DIM LOC7= LOCATION OF CIRCLE CIR4 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 19.5000 0.0000 0.0000 19.5000 0.0000
Y 30.0000 0.0000 0.0000 30.0000 0.0000
D 8.2000 0.0000 0.0000 8.2000 0.0000
END OF DIMENSION LOC7
DIM LOC8= LOCATION OF CIRCLE CIR5 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 25.5043 0.0000 0.0000 25.5043 0.0000
Y 15.5043 0.0000 0.0000 15.5043 0.0000
D 8.2000 0.0000 0.0000 8.2000 0.0000
END OF DIMENSION LOC8
    
```



3. Start setting the tolerances



```

DIM LOC1= LOCATION OF PLANE PLN1_DCC UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
Z 0.0000 0.0000 0.0000 0.0000 0.0000
END OF DIMENSION LOC1
DIM LOC2= LOCATION OF LINE LIN1_DCC UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
Y 0.0000 0.0000 0.0000 0.0000 0.0000
END OF DIMENSION LOC2
DIM LOC3= LOCATION OF POINT PNT1_DCC UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 0.0000 0.0000 0.0000 0.0000 0.0000
END OF DIMENSION LOC3
DIM LOC4= LOCATION OF CIRCLE CIR1 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 40.0000 0.3000 -0.3000 40.0000 0.0000
Y 30.0000 0.2000 -0.2000 30.0000 0.0000
D 30.0000 0.2000 -0.2000 30.0000 0.0000
END OF DIMENSION LOC4
DIM LOC5= LOCATION OF CIRCLE CIR2 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 40.0000 0.3000 -0.3000 40.0000 0.0000
Y 30.0000 0.2000 -0.2000 30.0000 0.0000
D 20.0000 0.2000 -0.2000 20.0000 0.0000
END OF DIMENSION LOC5
DIM LOC6= LOCATION OF CIRCLE CIR3 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 40.0000 0.3000 -0.3000 40.0000 0.0000
Y 30.0000 0.2000 -0.2000 30.0000 0.0000
D 10.0000 0.2000 -0.2000 10.0000 0.0000
END OF DIMENSION LOC6
DIM LOC7= LOCATION OF CIRCLE CIR4 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 19.5000 0.2000 -0.2000 19.5000 0.0000
Y 30.0000 0.2000 -0.2000 30.0000 0.0000
D 8.2000 0.2000 -0.2000 8.2000 0.0000
END OF DIMENSION LOC7
DIM LOC8= LOCATION OF CIRCLE CIR5 UNITS=MM , $
GRAPH=OFF TEXT=OFF MULT=10.00 OUTPUT=BOTH HALF ANGLE=NO
AX NOMINAL +TOL -TOL MEAS DEV
X 25.5043 0.2000 -0.2000 25.5043 0.0000
Y 15.5043 0.2000 -0.2000 15.5043 0.0000
D 8.2000 0.2000 -0.2000 8.2000 0.0000
END OF DIMENSION LOC8
    
```



# Have we piqued your interest?

Just download the software from our server.

[https://ftp.hexmet.de/PC-DMIS/PC-DMIS\\_Utilities/x64/PC-DMIS%20Toleranz%20Tabelle](https://ftp.hexmet.de/PC-DMIS/PC-DMIS_Utilities/x64/PC-DMIS%20Toleranz%20Tabelle)