

# TOL2

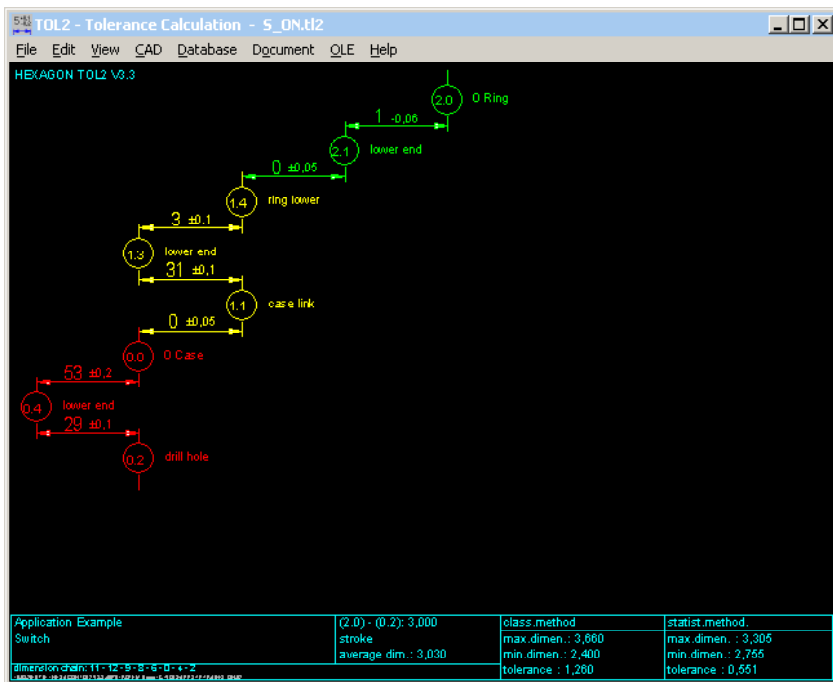


www.hexagon.de

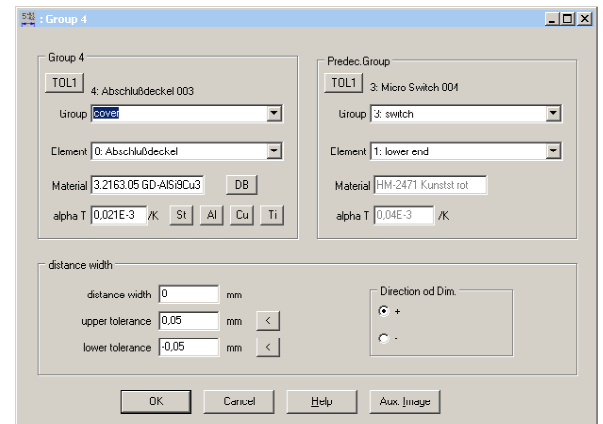
## Tolerance Analysis Software

for Windows

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TOL2 is used in combination with our TOL1 software. First use TOL1 to define parts and components. In the next step, use TOL2 to assemble the TOL1 components by clicking TOL1 files and defining connection elements and connection tolerances.



You can define several assembly conditions or switch positions and analyse the requested min/ max values of the closing dimensions.

TOL2 C:\DOKUME~1\fritz\LOKALE~1\Temp\outwin.txt

```

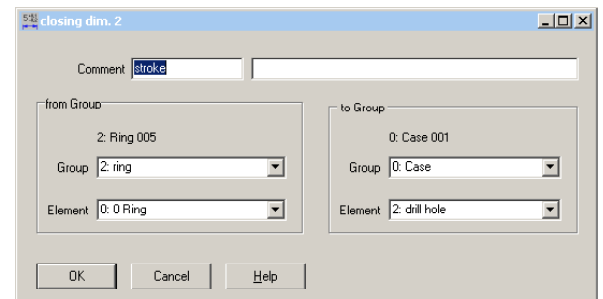
Group 0: Case 001 (Case)
Material: GD-MgAl9 alphaT: 0,026E-3
-----
El. Pred. + Nom.dim Up.Dev. Low.Dev. ISO Text
-----
0.0 0.0 + 0,000 0,000 0,000 ..... 0 Case
0.1 0.0 - 15,000 0,100 -0,100 ..... upper end
0.2 0.4 + 29,000 0,100 -0,100 ..... drill hole
0.3 0.4 + 21,000 0,100 -0,100 ..... switch mount
0.4 0.0 - 53,000 0,200 -0,200 ..... lower end
-----

Group 1: tappet 002 (tappet)
Material: 1.0037 S235JR (St 37-2) alphaT: 0,0115E-3
Link: Element 1 with Element 0 in Group 0 (Case)
dimension: + 0 ± 0,05
-----
El. Pred. ± Nom.dim. Up.Dev. Low.Dev. ISO Text
-----
1.0 1.3 + 39,000 0,200 -0,200 ..... 0 tappet
1.1 0.0 + 0,000 0,050 -0,050 ..... case link
1.2 1.3 + 23,000 0,200 -0,200 ..... other
1.3 1.1 - 31,000 0,100 -0,100 ..... lower end
1.4 1.3 + 3,000 0,100 -0,100 ..... ring lower
1.5 1.4 + 1,100 0,100 0,000 ..... ring upper
-----

Group 2: Ring 005 (ring)
Material: 1.0050 E295 (St 50-2) alphaT: 0,0115E-3
Link: Element 1 with Element 4 in Group 1 (tappet)
dimension: + 0 ± 0,05
-----
El. Pred. ± Nom.dim. Up.Dev. Low.Dev. ISO Text
-----
2.0 2.1 + 1,000 0,000 -0,060 h11 0 Ring
2.1 1.4 + 0,000 0,050 -0,050 ..... lower end
    
```

### Program Structure

Components from TOL1 are defined by file name and connection element, predecessor part and element, connection dimension and tolerance, in a table. In another table, you define the required closing dimensions.



### Calculation

TOL2 calculates the maximum and minimum closing dimensions between any desired distance within the dimension chain.

