

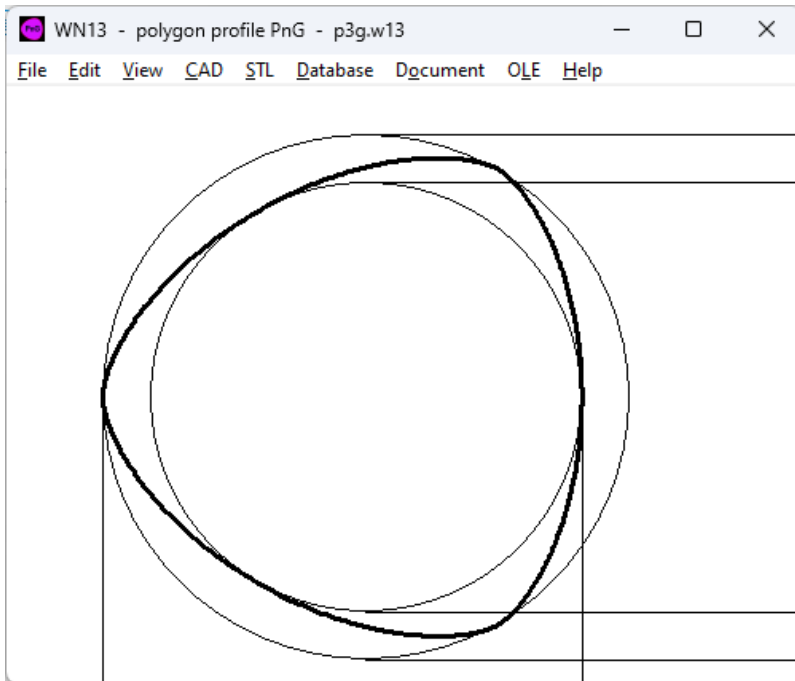
# WN13



## Software for Polygon Profiles PnG (incl. P3G)

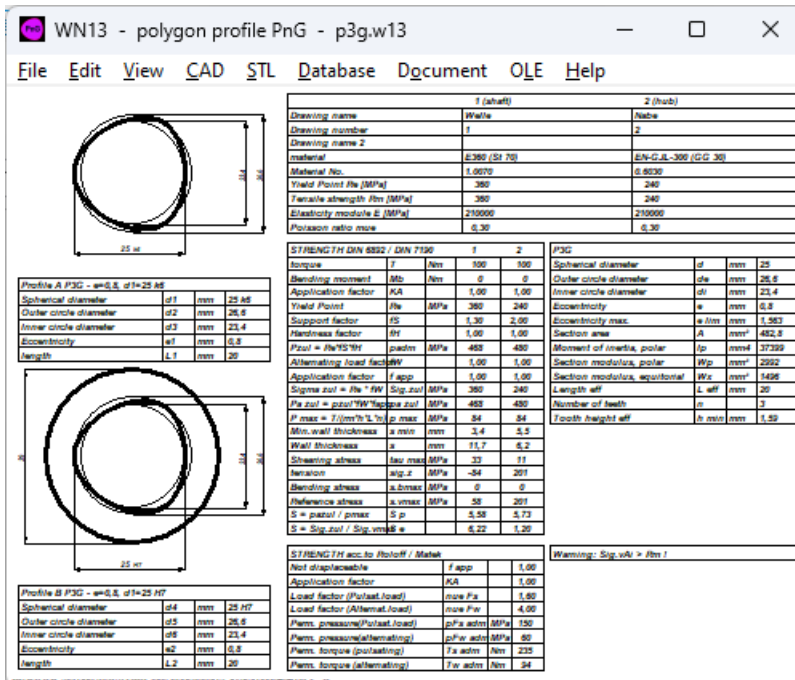
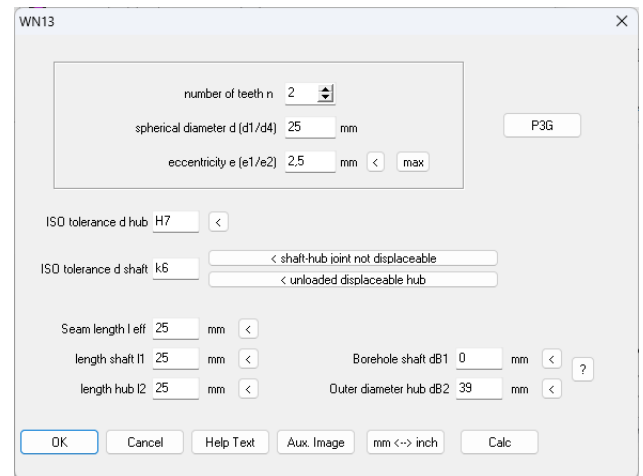
for Windows

© Copyright 2020-2024 by HEXAGON Software, Kirchheim, Berlin, Neidlingen



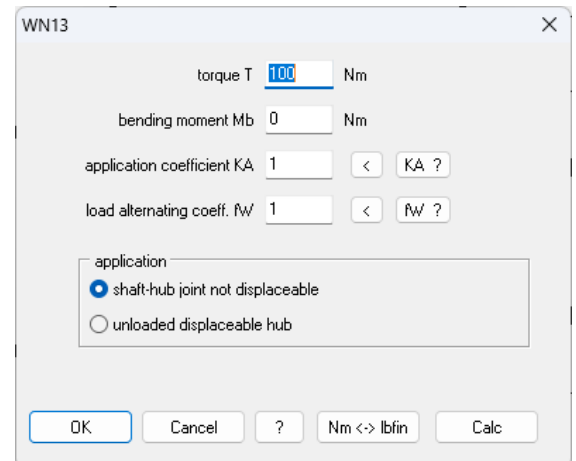
### PnG Calculation

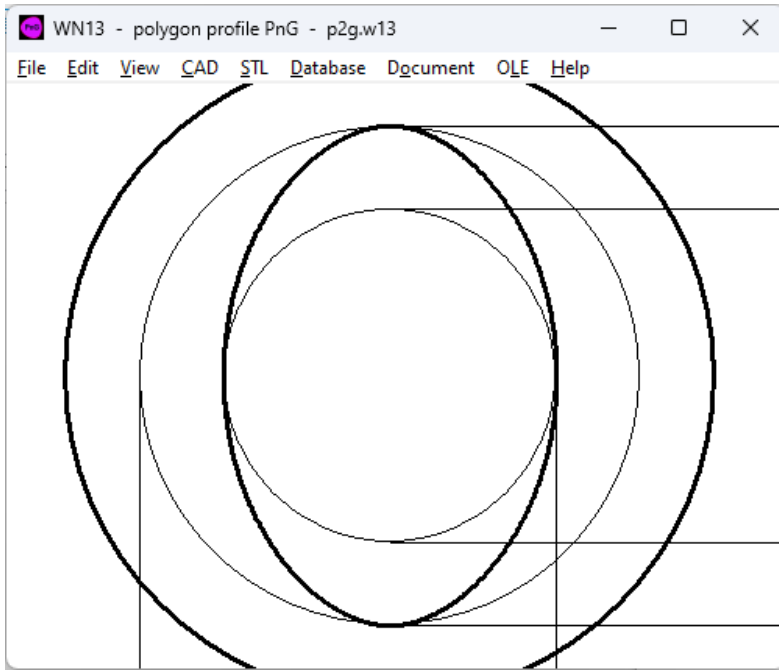
WN13 calculates dimensions and tolerances for PnG polygon trochoid profiles according to DIN 32711. additionally, you can define each size by input of nominal diameter, eccentricity and number of teeth (P2G, P3G, P4G, P5G, P6G). P3G sizes according to DIN 32711 (size 14 mm to 180 mm) can be selected from database. The database may be extended by the user.



### Pre-Dimensioning

Enter torque, select material and application: WN13 calculates minimum size required for a PnG shaft-hub joint.



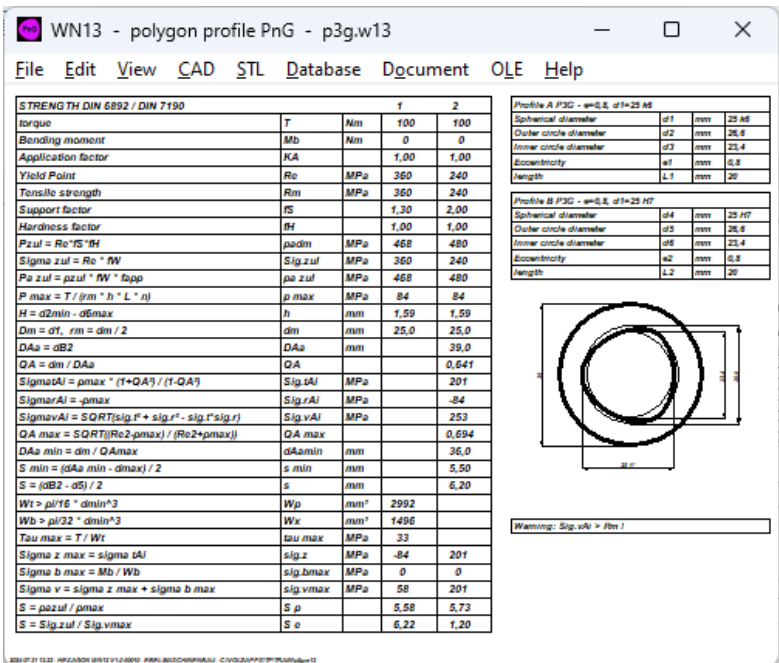
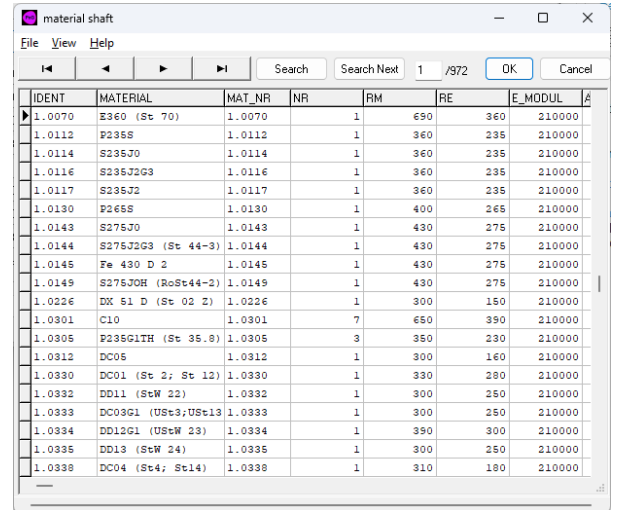


### Strength Calculation

WN13 calculates compressive stress, torsional stress, bending stress, and equivalent stress according to DIN 6892 (pressure) and DIN 7190 (stress spectrum). WN13 considers material, application factors and life expectation coefficients.

### Material Database

Materials for shaft and hub can be selected from the integrated material database.



### Production Drawing

PnG dimension table together with PnG profile in an ISO 7200 drawing header may be printed directly, or exported to CAD via DXF-IGES interface. Drawing name, date, users and modifications are described in WN13. CAD Interface WN13 generates a true scale PnG profile as DXF or IGES file to be used in CAD or CNC system. Resolution and tolerances can be configured.

### STL Interface

WN13 generates a true scale 3D model of shaft and hub to be produced on any 3D printer.

### User Interface

The dialogue windows of WN13 allow even the less experienced PC user to find his way around the program quickly. WN13 provides users with help text and auxiliary images. When the demo mode is selected, WN13 runs through a demo program in which an example calculation is performed.

### System Requirements

WN13 is available as 32-bit app or as 64-bit app for Windows 11, Windows 10, Windows 7.

### Scope of Delivery

WN13 Software with user manual (pdf), example applications and help images, non-expiring license for unlimited time use with update rights.

### Software Maintenance

HEXAGON Software is continuously improved and updated. Registered users are regularly kept informed of updates and new editions.

### Guarantee

HEXAGON gives a 24 month guarantee on full functionality of the software.

