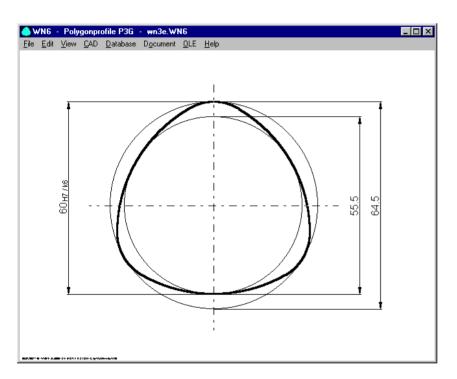
WN6



Software for Polygon Profiles P3G according to DIN 32711

for Windows

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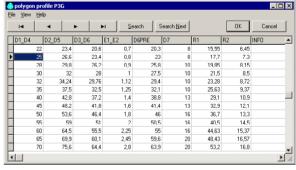


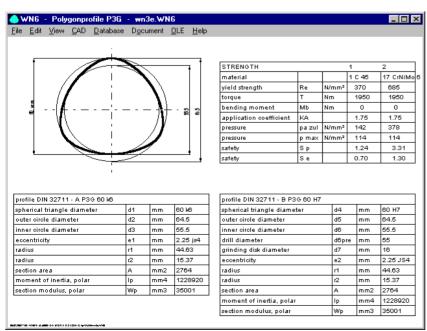
P3G Calculation

WN6 calculates dimensions, tolerances, stress and safety factors for P3G polygon profiles according to DIN 32711. You can also define special sizes by input of nominal diameter and eccentricity.

Database

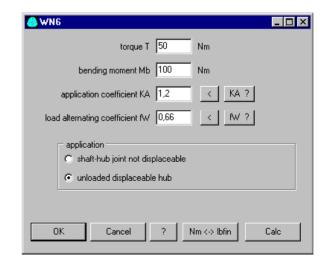
P3G sizes according to DIN 32711 (size 14 mm to 100 mm) can be selected from database. The database may be extended by the user.

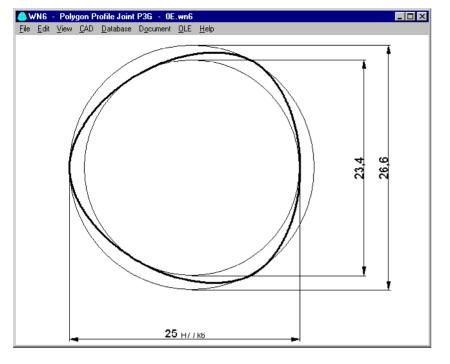




Pre-Dimensioning

Enter torque, select material and application: WN6 calculates minimum size required for a P3G shaft-hub joint.





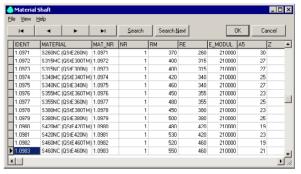
🥚 WN6 - Polygon Profile Joint P3G - 0E.wn6 <u>File Edit View CAD Database Document OLE Help</u> HEXAGON WN6 - Polygon Profile Joint P3C V2.9 2 -R -2 ---17 -문 26,6 23,4 -Ē -9 _**B** _2 profile DIN 32711 - B P3G 25 H7 Ē 25 H7 spherical triangle diameter d5 26,6 outer circle diameter mm Ē inner circle diameter d6 mm 23,4 _₌= 23 H8 d6pre drill diameter mm ₽ grinding disk diameter d7 mm 8 max eccentricity le2 mm 0.8 JS4 _8 17,7 radius r1 mm į. r2 7,3 radius mm Α mm² 482,8 section area -2 moment of inertia, polar mm4 37399 mm³ | 2610 section modulus, polar Wp Fit Dim Max.Dim Min.Dim 25 H 7 25,000 25,021 23 H 8 23.033 23.00 002 Hub

Strength Calculation

WN6 calculates compressive stress, torsional stress, bending stress, and equivalent stress according to DIN 32711 and DIN 6892. Material, application factors and life expectation coefficients are considered in the calculation.

Material Database

Materials for shaft and hub can be selected from the integrated material database with 900 steel and non-iron materials.



Production Drawing

P3G dimension table together with P3G 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 WN6.

CAD Interface

WN6 generates a true scale P3G profile as DXF or IGES file to be used in CAD or CNC system. Resolution and tolerances can be configured.

User Interface

The dialogue windows of WN6 allow even the less experienced PC user to find his way around the program quickly. WN6 provides users with a help text wherever they are in the program. When the demo mode is selected, WN6 runs through a demo program in which an example calculation is performed. WN6 contains auxiliary pictures with geometrical signs and formulas used by the program.

System Requirements

WN6 is available as 32-bit app or as 64-bit app for Windows 7, 8, Windows 10.

Scope of Delivery

WN6 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.