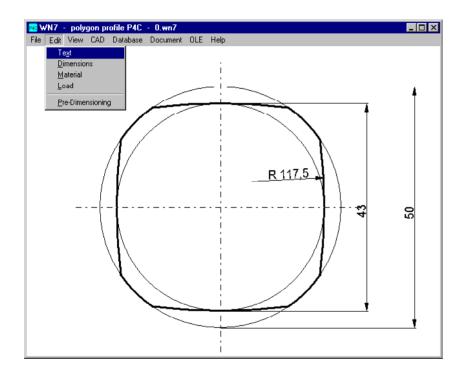
WN7



Software for Polygon Profiles P4C according to DIN 32712

for Windows

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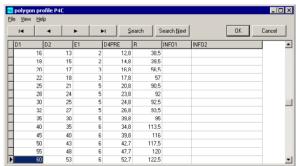


P4C Calculation

WN7 calculates dimensions, tolerances, stress and safety factors for P4C polygon profiles according to DIN 32712.

P4C Database

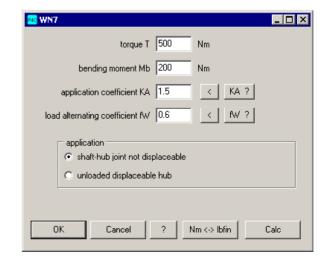
P4C sizes according to DIN 32712 (size 14 mm to 100 mm) can be selected from database. The database may be extended by the user.

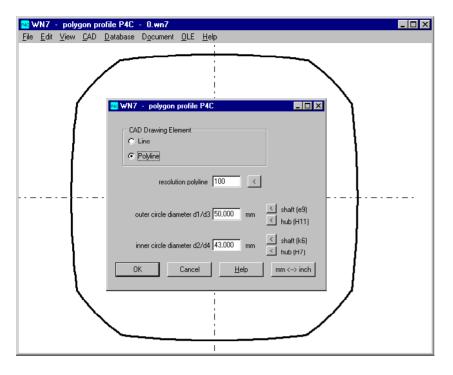


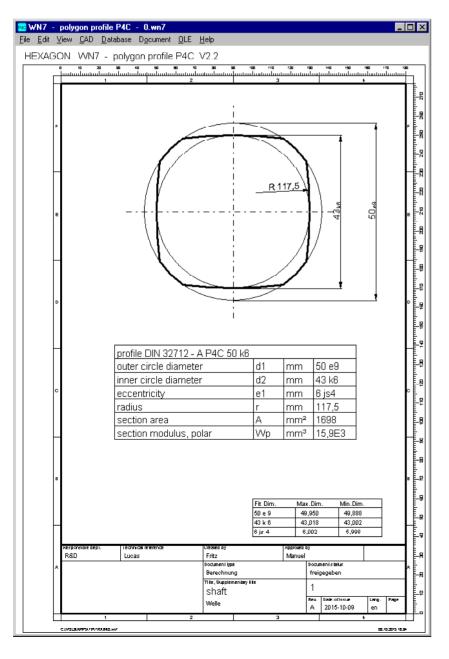
🚾 WN7 - polygon profile P4C - 0.wn7 _ 🗆 × <u>File Edit View CAD Database Document OLE Help</u> STRENGTH 42CrMo4 material MPa 400 yield strength 555 555 torque bending moment application coefficient KΑ 1,00 1,00 552 1350 pressure pmax MPa 24 24 safety 22,56 55,17 safety 6,62 profile DIN 32712 - A P4C 50 k6 profile DIN 32712 - B P4C 50 H7 50 H11 outer circle diameter mm 50 e9 outer circle diameter mm 43 k6 inner circle diameter d2 mm inner circle diameter d4 mm 43 H7 42,7 H8 eccentricity e1 mm 6 js4 drill diameter d4pre mm radius 117,5 mm eccentricity e2 mm 6 JS5 117,5 1698 section area adius section modulus, polar Wb 15,9E3 mm² 1698 section area section modulus, polar mm3 15,9E3 Wp

Pre-Dimensioning

Enter torque, select material and application: WN7 calculates minimum size required for a P4C shaft-hub joint.





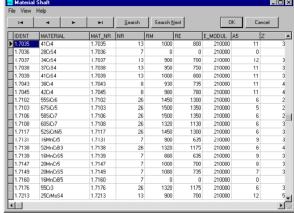


Strength Calculation

WN7 calculates compressive stress, torsional stress, bending stress, and equivalent stress according to DIN 32712 and DIN 6892. Material, application factors and life expectation coefficients are considered by WN7.

Material Database

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



Production Drawing

P4C dimension table together with P4C 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 WN7.

CAD Interface

W7 generates a true scale P4C 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 WN7 allow even the less experienced PC user to find his way around the program quickly. WN7 provides users with a help text wherever they are in the program. When the demo mode is selected, WN7 runs through a demo program in which an example calculation is performed. WN7 contains auxiliary pictures with geometrical signs and formulas used by the program.

System Requirements

WN7 is available as 32-bit app or as 64-bit app for Windows 7, 8, Windows 10.

Scope of Delivery

WN7 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.