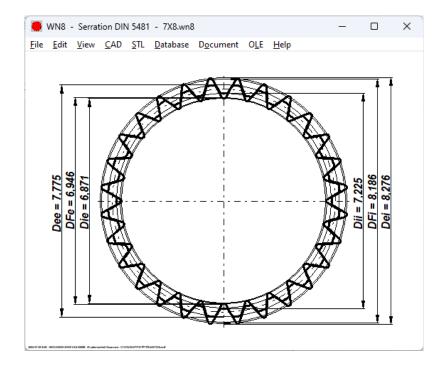
WN8

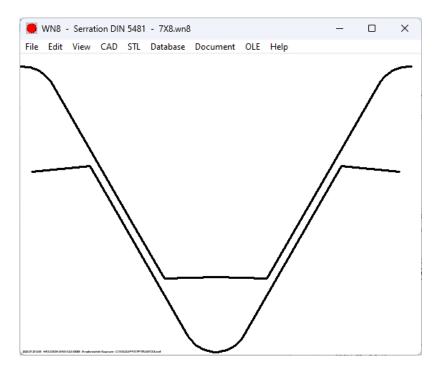


Software for Serrations according to DIN 5481

for Windows

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Calculation of Serration Splines to DIN 5481

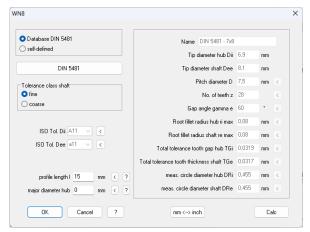
WN8 calculates dimensions, tolerances and load bearing capacity of serrations with straight flanks according to DIN 5481. A true-scale drawing of the spline is generated by WN8 and may be exported as CAD file. Dimensions and material data are loaded from the integrated material database.

Pre-Dimension

In Pre-Dimension, WN8 calculates a suitable spline size for the required transferable torque.

Dimensions

Standard sizes to DIN 5481 may be selected from integrated database. Or you can enter the dimensions for self-defined serration splines.



Tolerances

WN8 calculates tolerances for tolerance class fine or coarse according to DIN 5481.

Quick View

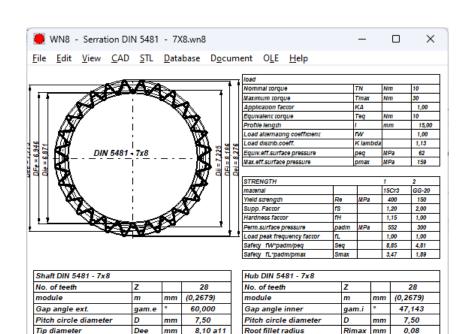
Quick View shows profile drawing and tables with dimensions and results together on one screen.

Profile Database

Profile database includes all sizes of DIN 5481. Database may be extended by the user.

Units

WN8 may be switched between metric units (mm, N, MPa) and imperial units (in, lbf, psi).



Root fillet radius

Root diameter

Pitch

Remax mm

Die

P

0,08

6,87

0,84

Tip diameter

Pitch

Root diameter

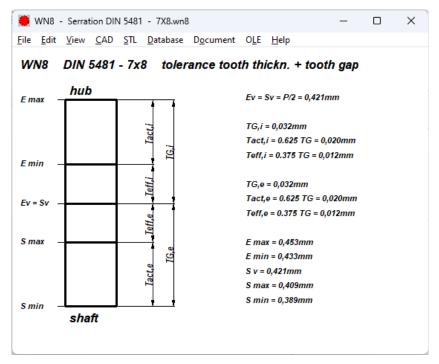
mm

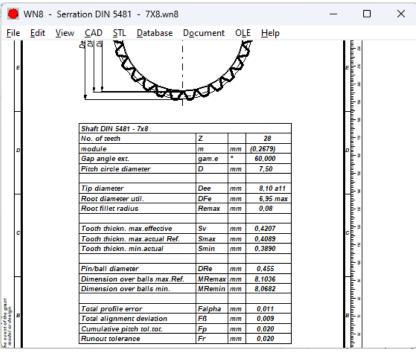
mm

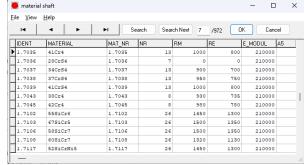
6,90 A11

8,28

0,84







Material Database

Integrated material database includes material properties for the most common steeel materials, and may be modified and extended by the user.

Load Bearing Capacity

Safety against bearable flank pressure is calculated according to Niemann/Winter/Höhn and DIN 6882 from torque, material data, application and load type. Application factors and load coefficients can be determined from WN8 auxiliary images.

Text Printout

Calculation results may be printed, saved as TXT or HTML file, or exported to MS-Excel.

Tables and Drawings

WN8 generates true-scale drawings of shaft and hub profile which may be exported to CAD via DXF or IGES file. Tables with dimensions and tolerances are also generated by WN8.

Production Drawing

WN8 generates a production drawing with tooth profile and dimensions for external spline (shaft) and internal spline (hub). Drawing information and modification index is entered in WN8.

User Interface

The dialogue windows of WN8 allow even the less experienced PC user to find his way around the program quickly. WN8 provides users with a help text wherever they are in the program. When the demo mode is selected, WN8 runs through a demo in which an example calculation is performed. WN8 contains auxiliary pictures with geometrical signs and formulas used by the program.

System Requirements

WN8 is available as 32-bit app or as 64-bit app for Windows 11, Windows 10, Windows 7.

Scope of Delivery

WN8 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.