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Spline Standards and Spline Calculator

Software for the design of splines

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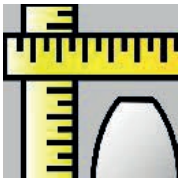
General Information

Spline Standards

Standard-compliant design
of spline profiles

Spline Calculator



To calculate the spline data and inspection dimensions of spline profiles with involute flanks and serration flanks

The right software makes work easier. FRENCO offers two software packages, which assist in handling and designing of splines:

Spline Standards and **Spline Calculator**

Both programs are briefly introduced here. For further information please contact one of our representatives or Frenco directly:

FRENCO GmbH
Jakob-Baier-Strasse 3
D-90518 Altdorf

Tel.: +49 (0) 9187/9522-0
Fax.: +49 (0) 9187/9522-40
Email: frenco@frenco.de

Please visit our homepage

www.frenco.de

where you will find additional information and demo versions on our software packages.

Try the demo version!

Download unter:
https://www.frenco.de/frenco-software/

The number of teeth z in the demo version can only be prime numbers (3, 7, 11 etc).

Software Spline Standards

Design of spline profiles

Data from the following spline standards

DIN 5480 (Germany)

ANSI B92.1 (USA)

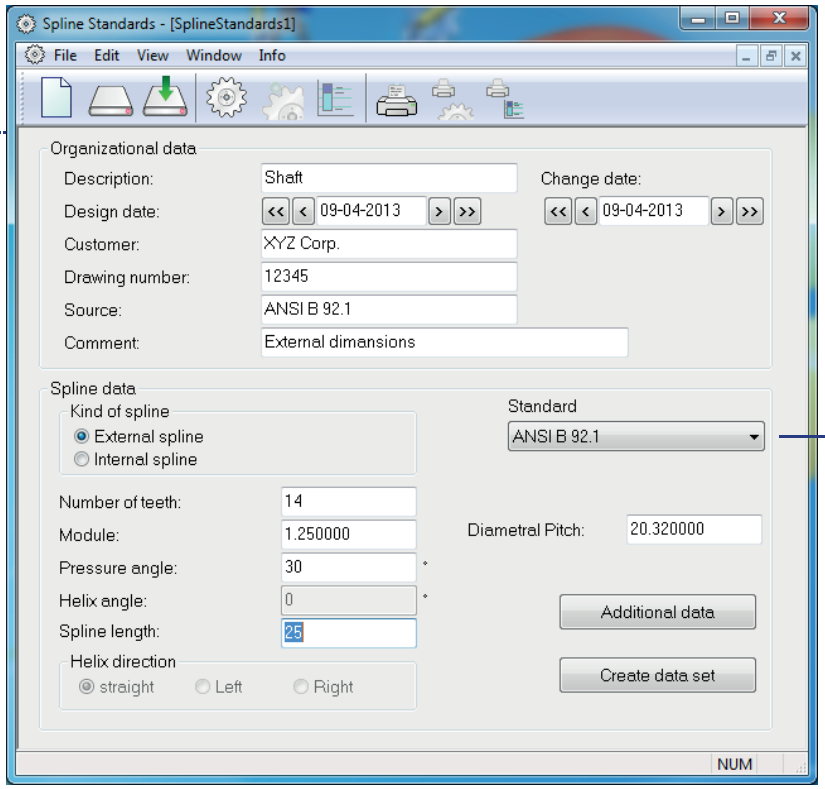
ISO 4156 (International)

is included in the Software Spline Standards.
Spline profiles can be designed similar to the standard or manually as required.

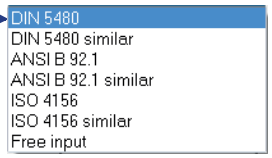
Main menu

Toolbar for a quick access to all functions

Clearly arranged input mask



Selection via drop down menu



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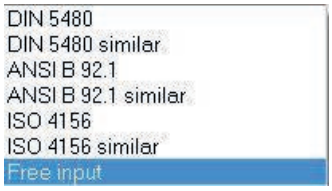
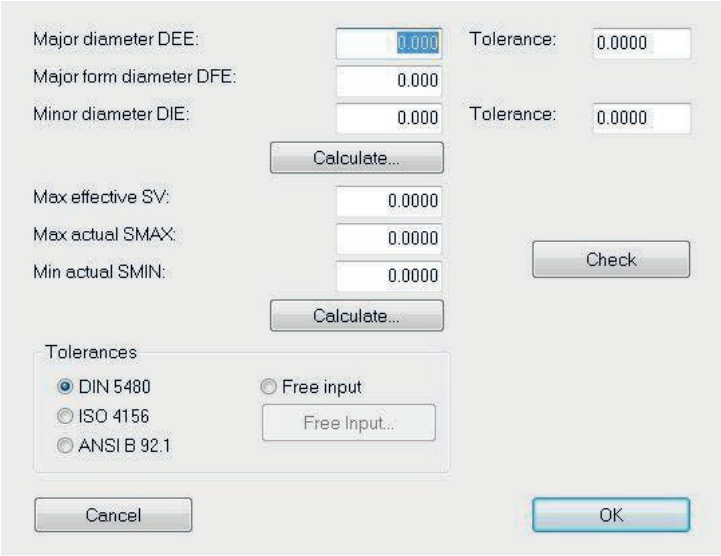
Manual entry

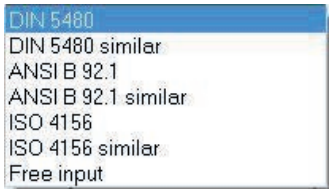
The manual entry allows for the required spline data to be entered independent of any standard. The tolerances can be in accordance with the standard, as and when required.

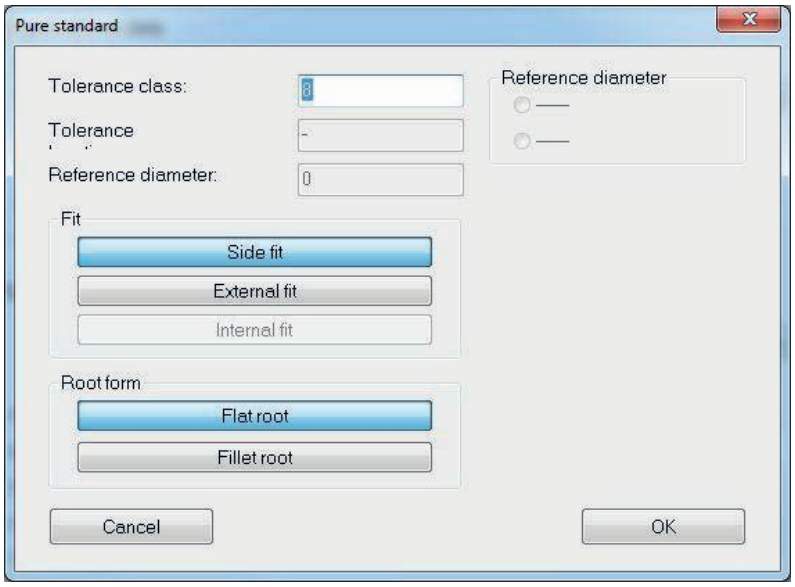




Design in accordance with the relevant standard

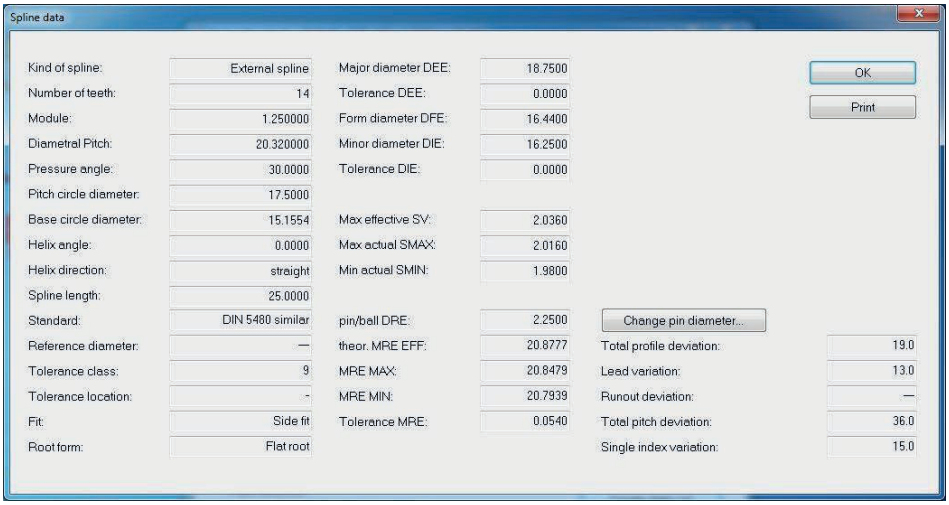
If a spline is designed in accordance with, e.g. DIN 5480, a simplified dialog box opens.



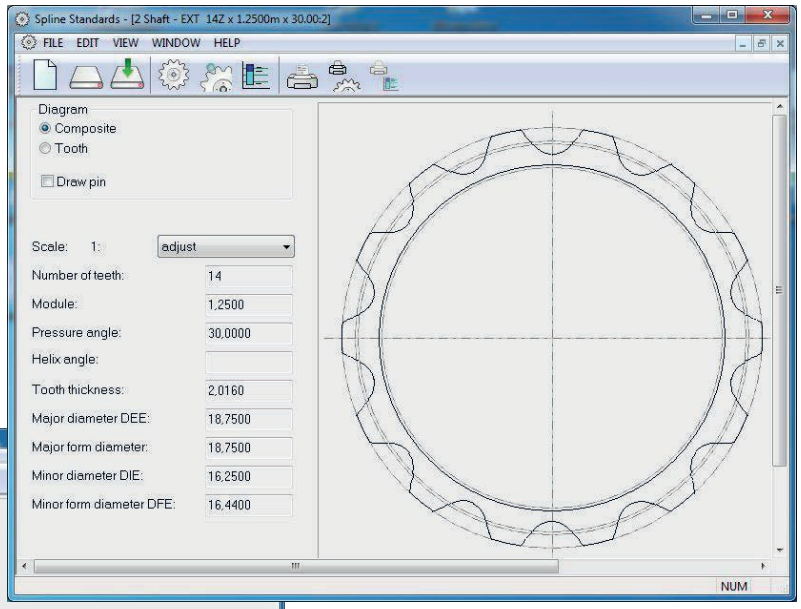


Generation of data set

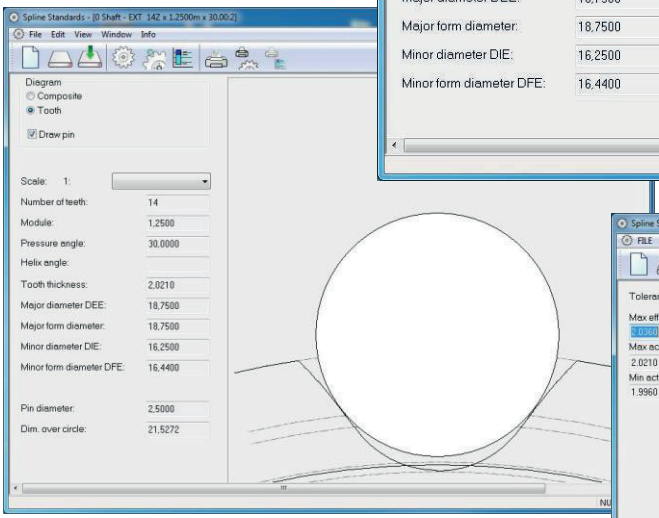
Once the spline data has been entered, a dataset will be created which includes all entered and calculated data.

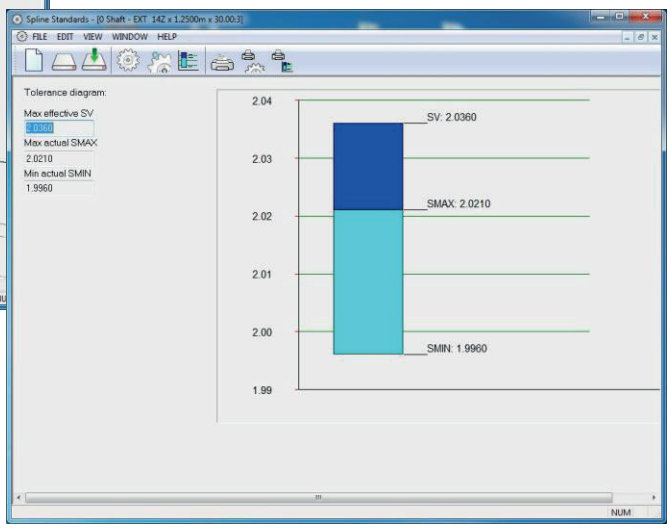


It is also possible to graphically display the entire spline profile...



... the spline shape (with or without measuring circle) ...





... and the tolerance zone.

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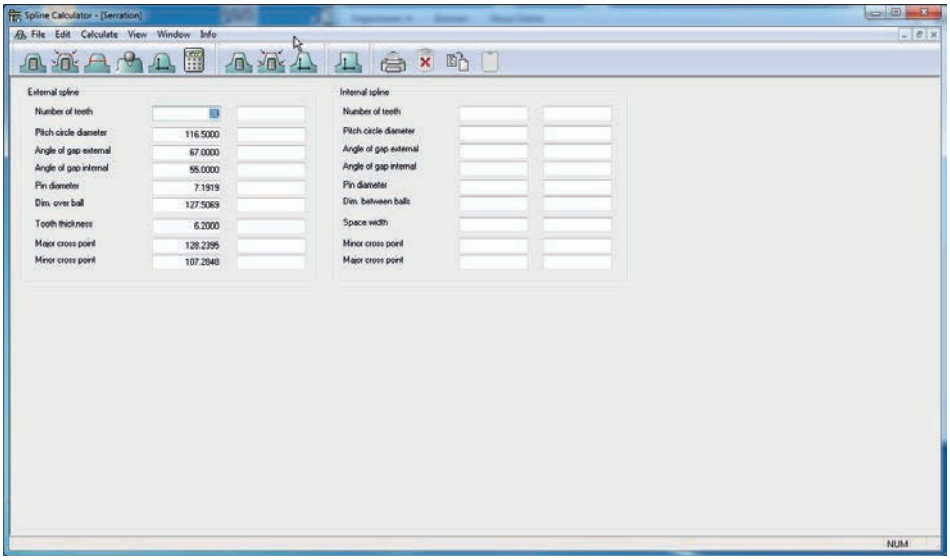
Software Spline Calculator

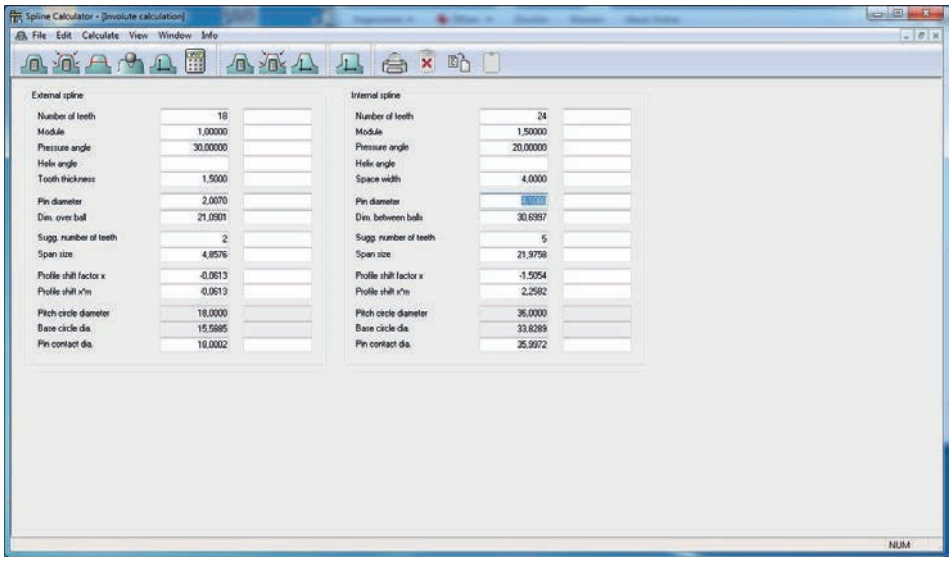
Calculating the spline data and inspection dimensions

The Spline Calculator software allows for a quick and uncomplicated calculation of the spline data and inspection dimensions of **internal and external...**

...cylindrical splines with serrated flanks



...cylindrical splines with involute flanks

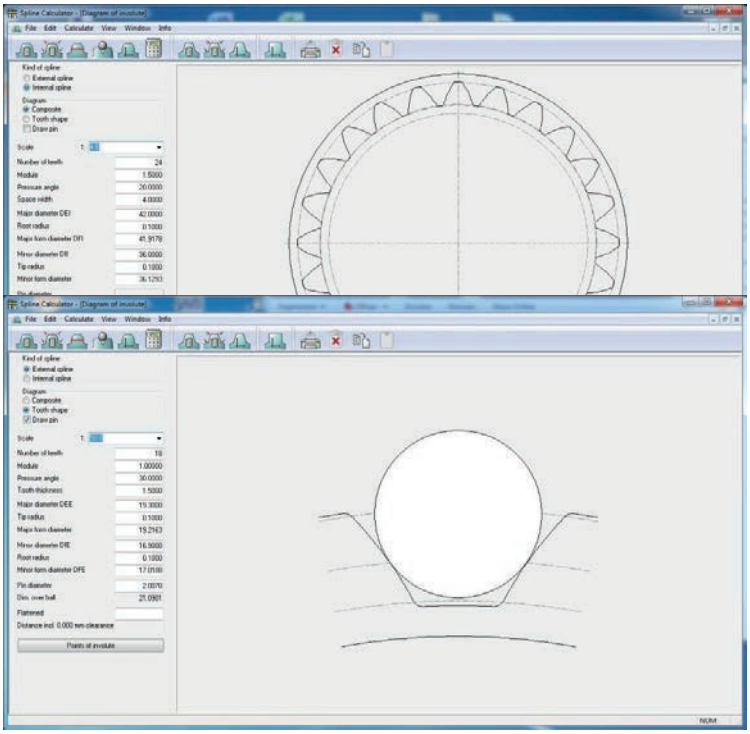


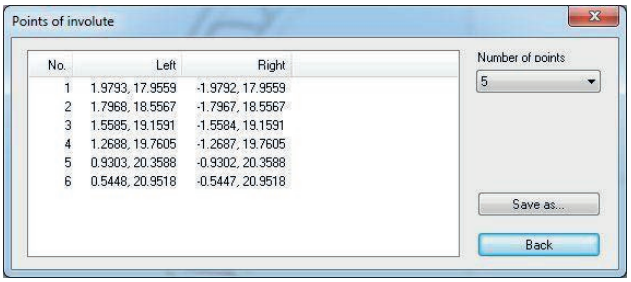
The software can be used to convert inspection dimensions, which may be given in various shapes and forms, into other parameters.

The number of teeth, module, helix and pressure angle parameters are used to automatically calculate all other parameters, which can be subsequently modified, such as dimension over measuring circle, tooth thickness etc.

The gear profile can be displayed, as is the case with the Spline Standards Software, with or without measuring circle. Any required measuring circle flats are calculated automatically.

The Spline Calculator is a hands-on tool to slowly approach the required tooth shape and the most suitable measuring circle. Any modifications are immediately displayed in the diagram.

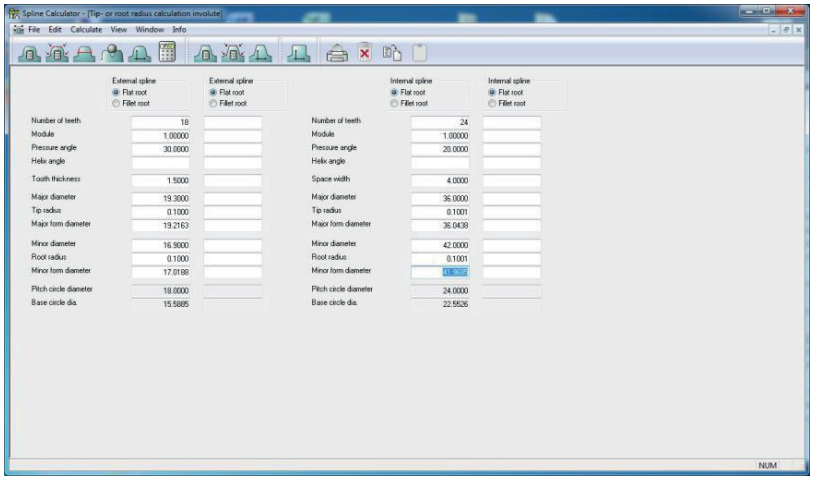




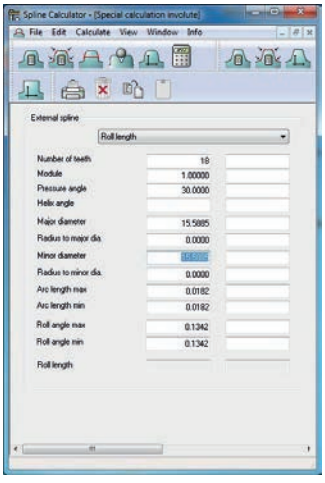
For CAD systems, up to 100 involute points can be calculated for a flank and saved as a text file. This makes it easier to draw up gearing profiles in CAD.

The Spline Calculator also includes calculation bases ...

... for fillet radii and full fillets



... and special calculations such as rolling lengths and rolling angle.



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Spline Gauges | Toothed Artefacts and Masters | Master Gears | Tools and Clamping Systems| Size Inspection Instruments | Double Flank Gear Inspection | Gear Flank Analyser | Universal Measuring Machines | Rack Inspection Machines | Software

Our Services:

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Phone: +49 (0) 9187 95 22 0

FRENCO GmbH
Gear + Spline Technology
Jakob-Baier-Str. 3 • D - 90518 Altdorf
www.frenco.com

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