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## **Flat Root Side Fit Involute**

The internal spline is held to basic dimensions and the external spline is varied to control the fit. Involute splines have maximum strength at the base, ...  
Flat Root Major Dia Fit. Fillet Root Side Fit. Fillet Root Side Fit. Fillet Root Side Fit. 2.5/ 5 - 32/ 64 Pitch.

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## **Involute Spline ANSI B92.1 Equations and Design ...**

Fillet-root, side-fit: This type of splined shaft promotes a full radius in the trochoid area between the teeth on both the male and female members. This full radius is tangent to the involute sides of adjacent teeth, providing maximum

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strength and durability.

## **Splined Shafts and Bushings - Flat-root, Side-fit - Fillet ...**

Flat root involute splines; Design Considerations for Involute Splines. ... Splines can be constructed in either side-fit or major diameter couplings. Major diameter couplings have a more precise

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fit requirement than side-fit splines and are less capable of self-alignment.

## **Involute Splines - Types, Design Considerations, Materials ...**

Flat Root Side Fit, Involute Spline Stem design and stroke length vary, please confirm tool specifications with your salesmen. 16/32 16 4-1/2 .0708



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K5L30-16-16LL .073 K7L30-16-16LL  
16/32 18 3 .0708 K5L30-16-18 .073  
K7L30-16-18 16/32 20 2-3/4 .0708  
K5L30-16-20 .073 K7L30-16-20 16/32 20  
5 .0708 K5L30-16-20L .073  
K7L30-16-20L

**Flat Root Side Fit, Involute Spline  
DP, 30° PA (continued)**

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Involute splines come in several varieties: Flat root side fit, fillet root side fit, and major diameter fit. The flat root side fit has a slightly larger minor diameter (male) and smaller major diameter (female) than the fillet root spline. The transition area between the side of the tooth (male) or space (female), and the corresponding minor

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diameter (male) or major diameter (female) exhibits a smaller radius than in the fillet root spline.

## **Inside Splines | Gear Solutions Magazine Your Resource to ...**

WN5 calculates dimensions, tolerances, dimension over pins, stress and life expectation for Involute Splines

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according to ISO 4156 and ANSI B92.2M. Basically, WN5 uses metric units. Imperial units inch, psi, lb-in, can be configured as well. WN5 calculates the fit types "Flat Root Side Fit" and "Fillet Root Side Fit".

### **WN5 - Involute Splines**

Side-fit involute splines may have a flat-

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root or fillet-root form. A flat-root ramp on the hob tooth profile will generate a chamfer on the tooth to provide clearance at the major diameter between the external and internal mating teeth. A fillet-root spline hob has a smooth radius so as not to generate a hard chamfer on the spline teeth tips.

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## **Spline Cutting - Helios Gear Products**

WN4 calculates dimensions, tolerances, dimension over pins, stress and life expectation for Involute Splines according to ANSI B92.1 and ANSI B92.1b. Basically, WN4 uses imperial units inch, psi, lb-in. Metric units can be configured as well. WN4 calculates the

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fit types "Flat Root Side Fit", "Fillet Root Side Fit" and "Major Diameter Side Fit".

## **WN4 - Involute Splines**

Flat root side fit Below talks about Class 2 Fit. (from the Machinery's Handbook 27) American National Standard Involute Splines\*.—These splines or multiple keys are similar in form to internal and

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external involute gears. The general practice is to form the external splines either by hobbing, rolling, or on a gear shaper, and internal splines either

## **Involute Spline tolerance and Classes - Gear & Pulley ...**

a) The external major diameter, unless chamfered or reduced, may interfere



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with the internal form diameter on flat root side fit splines. Internal splines made to the 1957 and 1960 standards had the same dimensions as shown for the major diameter fit splines in this standard.

**Involute Spline Engineering Drawing  
Data | Engineers Edge ...**

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Flat Root Side Fit internal involute spline  
number of teeth - 87 module - 2.5400  
Pressure angle - 30 deg base diameter -  
191.3743 pitch diameter - 220.980  
circular pith - 7.98069 major diameter -  
225.9 minor diameter - 218.8

**Drawing an involute spline - Gear &  
Pulley engineering ...**

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BS ISO 4156:2005\_3: Straight cylindrical involute splines. Metric module, side fit. Inspection. Designation of involute splines. An example set of designations for a mating spline pair with 32 teeth, 2,5 module, with a 30 pressure angle, a fillet root and a class 5 fit is... Mating: INT/EXT 32z 2,5m 30R 5H/5f ISO 4156

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## **ISO Involute Spline - Roy Mech**

Involute splines. The calculation is designed to create a detail drawing of involute spline. ... (30°, flat root, side fit) for imperial units and ISO 4156 (30° flat root, side fit) for metric units. 1.2 Basic profile angle. Select the basic profile angle from the list (or enter your value). 1.3, 1.4 Module / Diametral Pitch.

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## **Involute splines - MITCalc**

The first example is a 26 tooth, 10/20 diametral pitch, side fit, fillet root spline. A Class 5 tolerance is desired on both the internal and external splines. (Different tolerance classes can be used on each spline if desired.) The spline length is 1.5 inches, which we enter in

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order to obtain analytical checking data for the tooth alignment.

## **Program 60-710—Involute Splines and Inspection Introduction**

Flat Root Side Fit Involute Fillet-root, side-fit: This type of splined shaft promotes a full radius in the trochoid area between the teeth on both the

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male and female members. This full radius is tangent to the involute sides of adjacent teeth, providing maximum strength and durability. Technical Gear Info | Omni Gear & Machine Corp.

## **Flat Root Side Fit Involute Spline Dp 30 Pa Continued**

The spline hub in question is to the

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American Standard B5.15-1950. It is a flat root side fit internal spline. The minimum effective space width is 0.19635". The max actual space width is 0.19916". These dimensions are from the standard. I do not have the equipment to measure it directly off of the part. It may be possible with measuring pins.



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## **Internal Involute Splines... - Practical Machinist**

Major diameter fit vs. side fit splines  
Major diameter fit spline is suitable for applications where axes alignment between two parts (internal and external spline) is a critical design parameter. There are certain manufacturing

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challenges when dealing with major dia. fit splined couplings, mainly, the restrictions associated with the precision grinding of the internal spline's major diameter.

## **Major diameter fit vs. side fit splines - Involute**

Involute splines are available in several

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different pressure angles: 30 degrees, 37.5 degrees, and 45 degrees. The 30-degree splines are by far the most common, so that is what will be considered here. Splines are made with either a fillet root or a flat root at the interface of the tooth flank and the root diameter.

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## **A Brief Overview Of Splines | Gear Solutions Magazine Your ...**

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