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ARELLANO FOLEY

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GEAR Co

Check out our Technical Gear Info page for data on diametrical pitch, involute splines, DIN 5480, DIN 5481, DIN 5482, DIN 5462, DIN 5463, and ANSI B92.1. 90 Bissel Street Joliet, IL 60432

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ANSI B92.1970 - Flat Root Major Diameter Fit; Fillet Root Side Fit & Flat Root Side Fit; ANSI B92.1-1970 Formulas for the Basic Dimensions 30°, 37.5°, & 45°PA; ANSI B92.1-1970 Maximum Tolerance for Space Width & Tooth Thickness of Tolerance Class 5 Splines; Ansi B92.1-1970 Interchangeability; Internal Major Diameters 8/16DP & 10/20DP, 30°PA

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Diameters 8/16DP & 10/20DP, 30°PA

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Fig. 5: Sevolute Equation for Shaft - Courtesy ANSI B92.1 Standard. Equation for Sevolute. Sevolute is used in determining the generated full fillet at the root of the gear. A full tip radius also helps in reducing the stress concentration at the corner of the internal gears. $Sevolute(\epsilon) = \sec(\epsilon) - \text{inv}(\epsilon) = [1/\cos(\epsilon)] - \tan(\epsilon) + (\epsilon)$

[Calculating Inverse of Involute Angle in Microsoft Excel ...](#)

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In American National Standard ANSI B92.1-1970 (R 19 93), many features of the 1960 standard are retained; plus the addition of three tolerance classes, for a total of four. The term "involute serration," formerly applied to involute splines with 45-degree pressure

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ANSI B92.1-1970 (R1982), Involute Splines, American National Standards Institute. ANSI B92.2-1980, Metric Module Involute Splines, American National Standards Institute. SAE Straight

Tooth Splines. Straight-Tooth Spline Geometry SAE straight-tooth splines usually contain 4,6,10, or 16 splines.

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Once these variations are determined, they can be compared

back to the allowances given in a standard such as the ANSI

B92.1. These variations, if large, can prevent the successful

assembly of components. If any one of these identified elemental

allowances is exceeded, then the manufacturing engineer can

begin to focus on determining the cause ...

Technical Gear Info | Omni Gear & Machine Corp.

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

Diameter Side Fit".

INVOLUTE SPLINE ANSI B92.1 EQUATIONS AND DESIGN

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Involute Spline and Serration Design Calculator for the following

engineering standards: ANSI B92.1-1970, ANSI B92.1-1996, ASA

B5.15-1960, SAE STANDARD - 1950, SAE J500, NAS 541/2, 580/1,

DS360/361

Omni Gear & Machine Corp.

The primary purpose of this model is to provide data from ANSI

Standard B92.1-1970 for Involute Splines and Inspection. This is

the standard for inch-series splines based on a stub diametral

pitch design. It is possible to use the model to convert the

dimensions to metric, but the basic calculations are always based

on diametral pitch

PROGRAM 60-710—INVOLUTE SPLINES AND INSPECTION INTRODUCTION

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