



## Doppler Gear TechBit: NF E22-141

### French Cylindrical Involute Spline Standard

This standard covers straight, 20° pressure angle, stub tooth, involute splines used in all branches of mechanical engineering (automobile, aeronautical, railways, machine tools, engines and power units, etc.).

**NF E22-141 75 x 28 x 2.50 (FIT 1)**

SHAFT (EXTERNAL) or HOLE (INTERNAL)

**75 is the “Nominal Diameter”**

A basic principle of this standard is **Nominal External Diameters** of spline shafts are identical to the bore sizes for ball bearings.

**28 is the Number of Teeth in the spline**

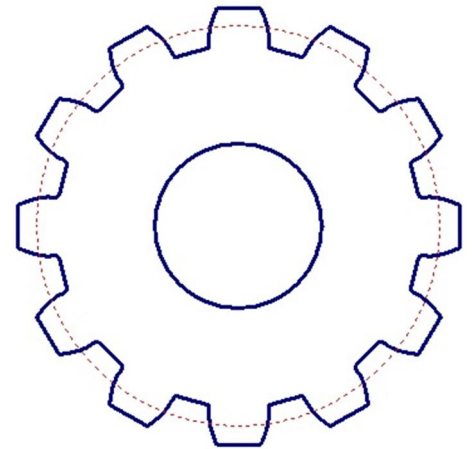
**2.50 is the Module of the spline (size of tooth)**

-Primary series modules (recommended) are formed by whole submultiples of 10 and include: **0.50 – 1.00 – 1.25 – 1.667 – 2.50 – 5.00 – 10.00**

**FIT 1 defines the type of fit**

The standard fits are as follows-

Fit class:	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
Tooth Flank Fit:	<b>Clearance</b>	<b>Sliding</b>	<b>Interference</b>	<b>Force</b>



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Involute splines in accordance with **ANSI B92.2M, DIN 5480, and ISO 4156** are **not interchangeable** with splines described by the **NF E22-141** series of standards.

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