



"Front" Axle Shaft Ordering Defined

1250 E. Piper Ct. Meridian, Idaho 83642

Phone: 503.257.6604 Fax 503.253.6564

Front End Type

For inner shafts, this is simply the make and model of the front end you are working on. Examples of this are Dana 44, Dana 60, or hybrid Ford 9" 31 spline, D50 30 spline [which is very weak], etc...

For outer shafts this is simply the make of the spindle -- if known. Examples of this are Ford, GM, Jeep, or Dodge/Chrysler.

Hybrid custom front end

This section is only filled out if you are building a custom front end using the center from one housing and the spindles/knuckles from another.

An examples of this is: A Ford 9" or 14 bolt center & Dana 60 spindles/knuckles, or an aftermarket housing center and spindle/knuckle combo kit, etc...

S: (Spline count)

This is the number of splines the axle has. Either count them or measure the diameter of the splines with a dial caliper or micrometer. Use the reference chart of some common spline and seal combinations to identify your spline count.

Also list in the notes the type of differential or spool you will be using, either factory or aftermarket. If using an aftermarket carrier or full spool, list the manufacturer (as some use different pressure angles for their splines as well as slightly different end of spline dimensions).

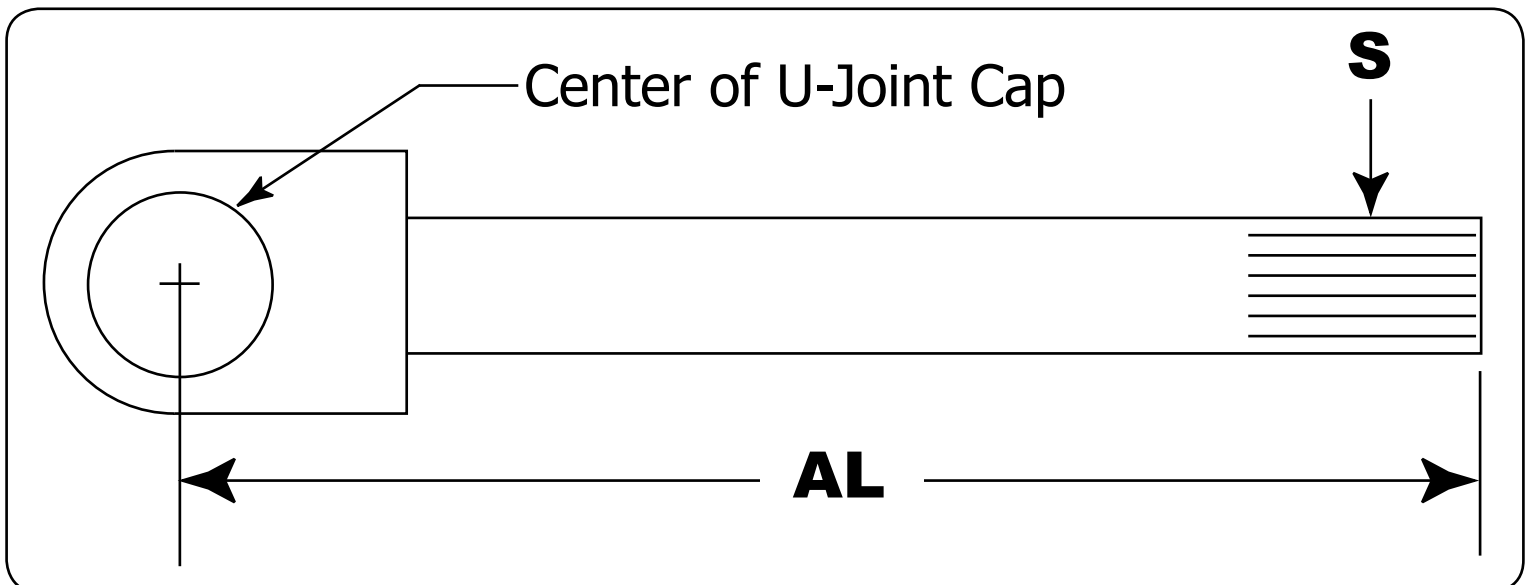
Make/Model	Splines	Spline Dia.	Seal Diameter
Dana 30	27	1.167	1.185
Dana 35	27	1.167	1.315
GM Corporate	28	1.205	1.315
Dana 44 / GM Corp	30	1.290	1.315
GM 14 bolt [Hybrid]	30	1.530	1.562
Dana 50 [Not good]	30	1.290	1.562
Ford 9" [Hybrid]	31	1.325	1.325
Dana 60	35	1.500	1.562

AL: (Center of the U-Joint cap to the End of the Splines)

Front axles should be measured with a tape measure from the U-Joint center to the end of the splines. Dana 44 U-Joint caps measure 1 3/16" diameter & Dana 60 measure 1 3/8". The center point of the cap/bore is half of the diameter.

Half of 1 3/16" = .593 or a little less than 5/8"

Half of 1 3/8" = .687 or 11/16"





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Alternate Measuring:

IF you don't know your front axle lengths, another way is to simply tape measure from the end of the spider gear in the differential out to the end of the face of the knuckle or C.

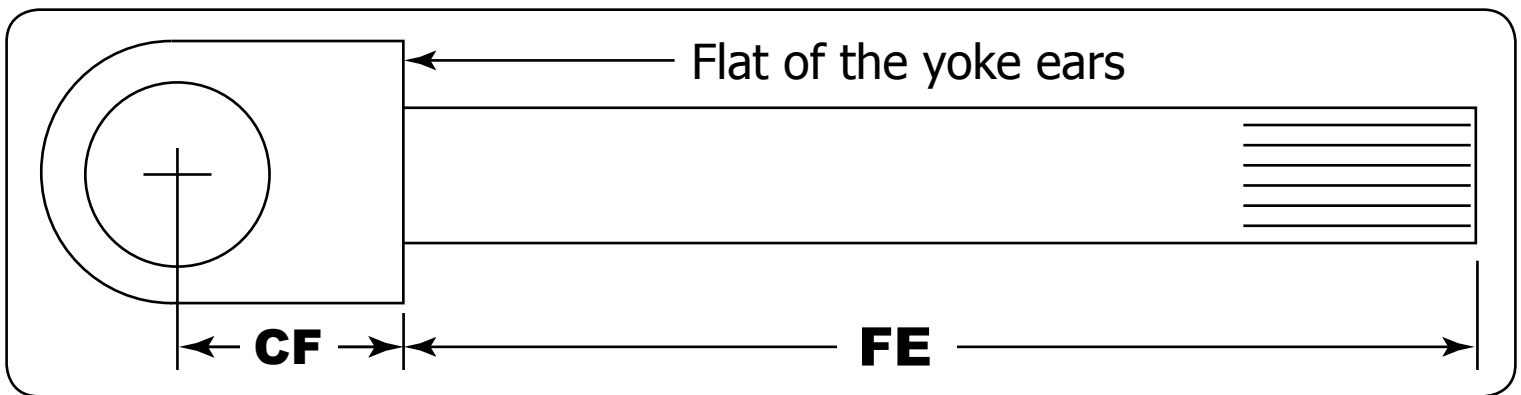
This measurement is known as the "FE or Flat to End" which can be converted to the "AL - U-Joint center to end of splines" dimension by adding one of the following "CF or Center of the U-Joint to the Flat" measurements.

Dana 44 axles = 2", Warn Dana 44 axles = 1 7/8", Dana 60 axles = 2 1/2"

Example:

You're ordering Dana 60 inner shafts and your tube end to end of spline is 25 1/4"

$25 \frac{1}{4} + 2 \frac{1}{2} = 27 \frac{3}{4}$ [FE + CF = AL]



U-Joint Tech

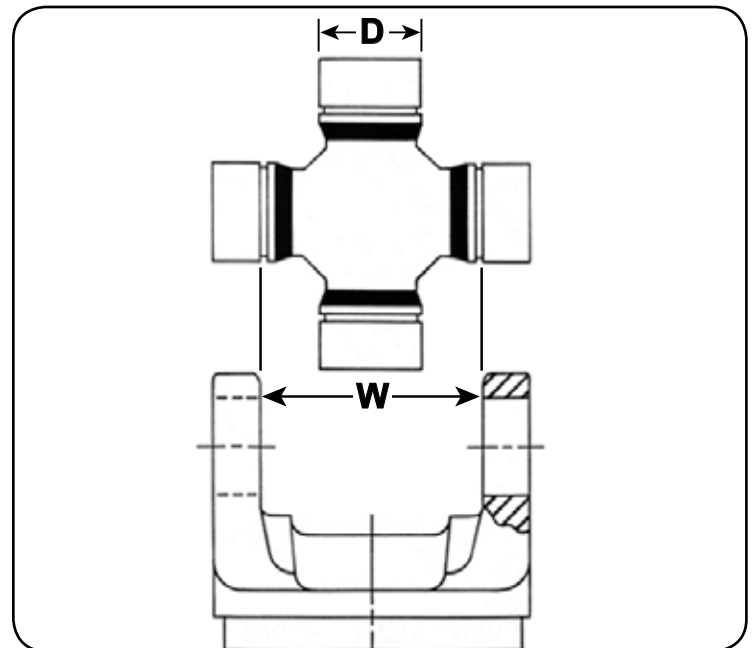
We make replacement and custom front shafts that utilize industry standard size U-Joints for most open knuckle style front ends. Our shafts will NOT work with closed knuckle front ends.

The following charts list the common dimensions as well as associated part numbers of the two axle yoke sizes we manufacture.

"W" = The inside width between the yoke ears

"D" = The U-Joint cap diameter

Make/Model	Series	"W"	"D"
Dana 30, 35, 44	1310	2 3/16"	1 3/16" [1.187]
GM Corporate	1310	2 3/16"	1 3/16" [1.187]
Dana 50 & 60	1480	3"	1 3/8" [1.375]



Birfield Tech [The alternative to U-Joints]

Birfield type front shafts have been designed as direct replacements for the u-joints in your solid front axle and have been tested to be twice as strong as OEM. They are just as strong at low angles as they are at high angles – when u-joints are weakest; The design eliminates u-joint binding to allow smooth power transfer and eradicate steering wheel shimmy. If you're running big tires with big power and having trouble keeping joints from popping in on you...this is the answer you've been looking for in your Dana 30, 44, 60 GM and AAM applications.