

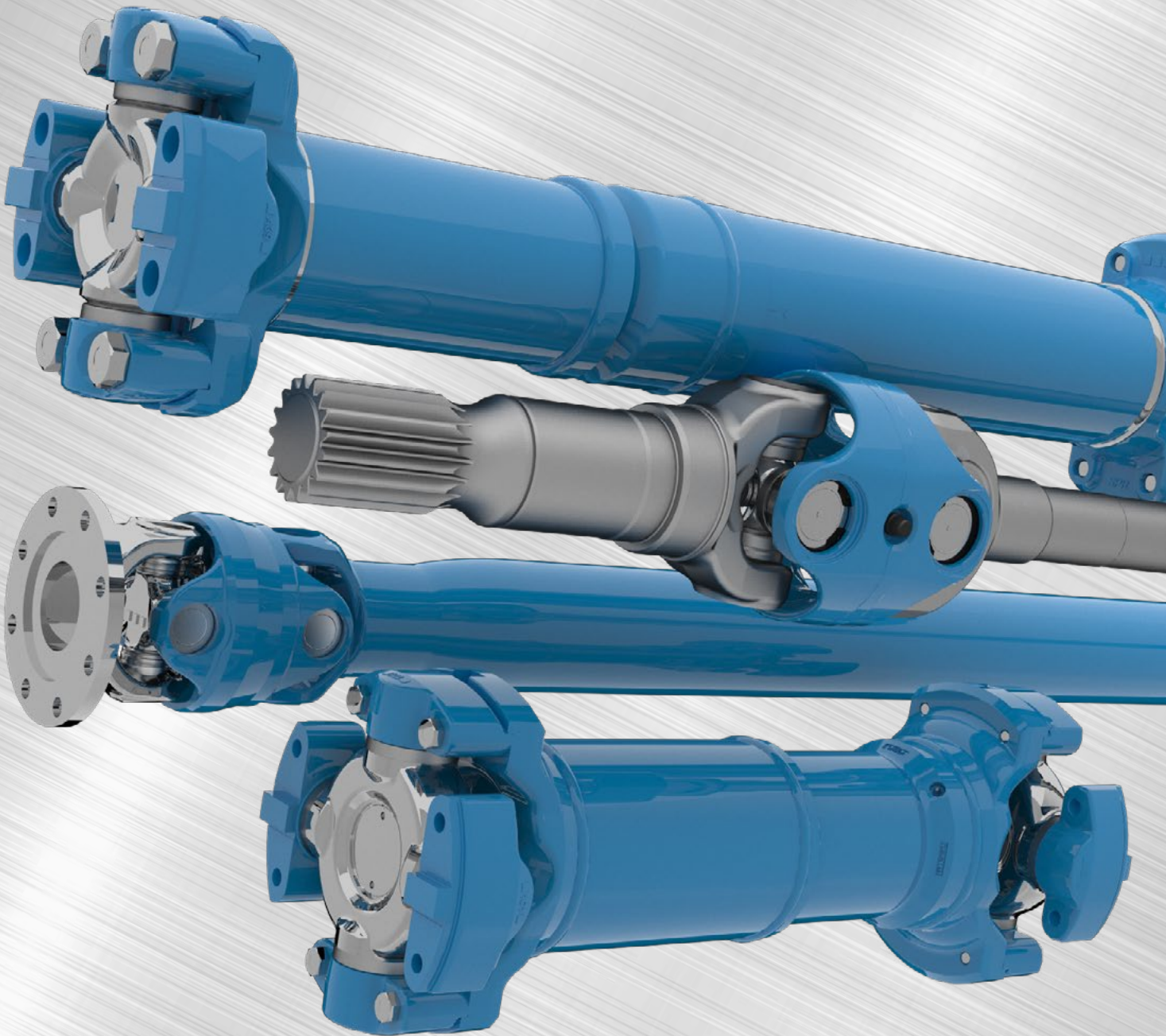


SPICER®

Drivetrain Systems

Spicer® Driveshafts

For Off-Highway Applications



Driveshafts

Spicer 10™ Series

Spicer 10™ Series driveshafts have been an industry standard for more than 50 years and are ideal for the rigorous demands of most mobile off-highway applications.

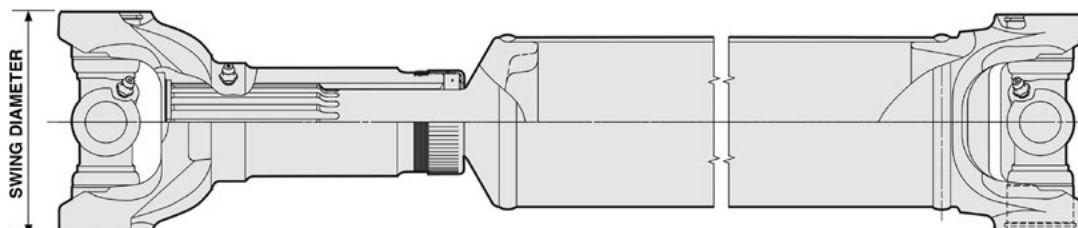
The Spicer 10 Series offers driveshafts with

torque capacities up to 15,700 Nm.

Larger capacities previously available in this series are now offered by Spicer Life Series® driveshafts. This ensures Dana has the right driveshaft to fit all your off-highway needs.

Design Features

- Extended Spline Life
- Reduced Thrust Load under Pressure
- Lower Friction under Load
- Superior Needle Bearing Retention
- Easy to Service Universal Joints



Driveshaft Series	Torsional Rating			
	Functional Torque Limit		Swing Diameter	
	Ft.-Lb.	Nm	Inches	mm
1310	1,719	2,330	4.000	101.6
1330	1,991	2,700	4.560	115.8
1350	2,876	3,900	4.560	115.8
1410	3,467	4,700	4.940	125.5
1480	Use Spicer Life Series (SPL55)			
1550	5,100	7,000	6.000	152.4
1610	Use Spicer Life Series (SPL 100)			
1710	11,358	15,400	7.880	200.2
1760	Use Spicer Life Series (SPL 170)			
1810	Use Spicer Life Series (SPL 170HD)			
1810HD	Use Spicer Life Series (SPL 250)			
1880	Use Spicer Wing Bearing (9C and above)			
	Use Spicer Life Series (SPL250HD, SPL350, SPL350HD)			

For additional configurations, contact Dana for specific application information.

Available on Request:

- Paint
- Special Types
- DIN Flanges
- SAE Flanges
- Cross Serrated Flanges
- Extended Lubrication
- Permanent Lubrication

Definition of Functional Torque Limit: The torque to which the driveshaft can be loaded without yielding or creating plastic deformation of any of the parts that adversely affect the driveshaft kinematics of durability.

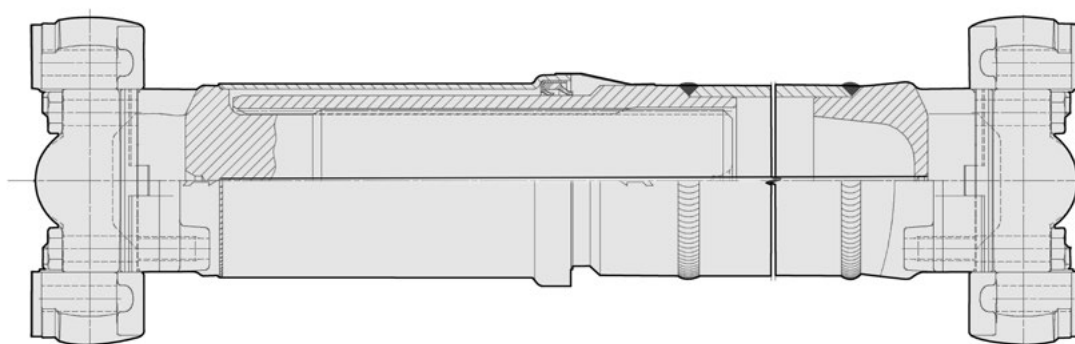
Spicer Wing™ Series

Spicer wing-bearing style driveshafts are designed for longer life, minimal maintenance, and lower operating cost. Dana is capable of offering the most comprehensive range of wing-style

driveshafts today. With torque capacities ranging from 1,500 to more than 120,000 Nm and lubrication packages from extended to permanently lubricated, Dana has the right driveshaft to fit all your off-highway needs.

Design Features

- Sealed Slip Spline System
- Triple-Lip Seal, Thrust Washer, and Seal Guard Package
- Reduced Maintenance
- Increased Torque Capacity



Driveshaft Series	Torsional Rating	
	Functional Torque Limit	Swing Diameter
	Nm	mm
5C	5,600	123.0
6C	7,200	150.0
7C	10,700	158.0
8C	15,500	216.0
8.5C	20,300	175.0
9C	27,400	223.0
10C	39,700	225.0
11C	41,600	235.0
12C	62,200	301.0
12.5C	63,000	295.0
14.5C	108,000	326.0
15C	75,400	273.0
14C	120,600	360.0

For additional configurations, contact Dana for specific application information.

Available on Request

- Paint
- Special Types
- Permanent Lubrication for High and Low Temperatures

Definition of Functional Torque Limit: The torque to which the driveshaft can be loaded without yielding or creating plastic deformation of any of the parts that adversely affect the driveshaft kinematics of durability.

Driveshafts

Spicer Life Series®

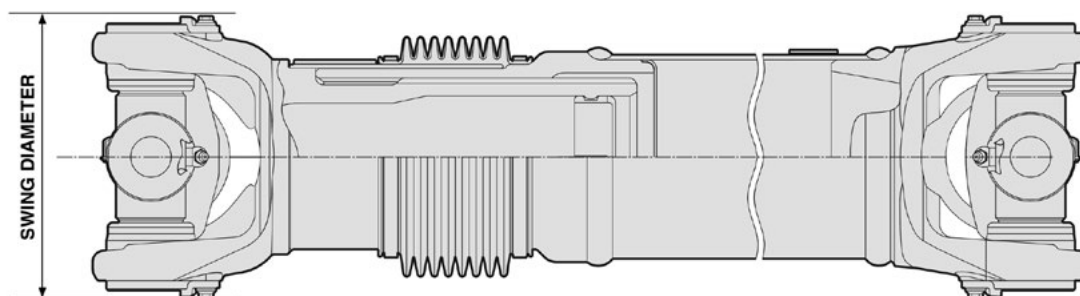
As with the Spicer 10™ Series, Spicer Life Series® driveshafts offer features such as longer life, reduced maintenance, and Quick Disconnect™ end yokes that can provide operating benefits to our customers.

With torque capacities ranging from 5,500 to more than 25,000 Nm, Dana has the right driveshaft to fit all your on- and off-highway needs.

Design Features

- Larger Diameter Slip Member with Longer Splines
- Two Boot Options: Thermoplastic Hytrel® or Seal Can Style
- Smaller Swing Diameter
- Centrally Located Grease Fitting
- Permanently Lubricated Slip Spline
- Increased Torque Capacity

Hytrel is a registered trademark of DuPont.



Driveshaft Series	Torsional Rating	
	Functional Torque Limit	Swing Diameter
	Nm	mm
SPL55	5,500	134.9
SPL70	7,000	152.4
SPL100	10,000	154.0
SPL140	14,000	160.0
SPL140 HD	15,000	160.0
SPL170	17,000	193.0
SPL170HD	20,000	193.0
SPL250	22,500	193.0
SPL250 HD	25,000	193.0
SPL350	30,000	206.0
SPL350 HD	35,000	206.0

For additional configurations, contact Dana for specific application information.

Available on Request

- Paint
- Special Types
- DIN Flanges
- SAE Flanges
- XS Flanges
- Extended Lubrication
- Permanent Lubrication

Definition of Functional Torque Limit: The torque to which the driveshaft can be loaded without yielding or creating plastic deformation of any of the parts that adversely affect the driveshaft kinematics of durability.

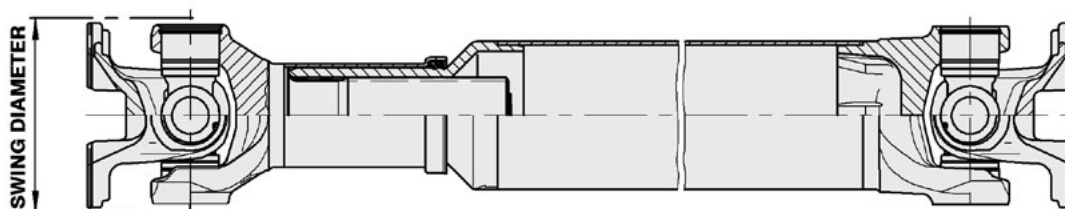
Spicer Compact™ Plus

From the industry standard in Europe to the commercial vehicle market, the Spicer Compact™ Series offers a wide variety of end-fittings, from SAE to DIN and cross-serrated, allowing Spicer driveshafts

to attach to nearly any axle or transmission. With torque capacities ranging from 2,400 to 35,000 Nm, Dana has the right driveshaft to fit all your on- or off-highway needs.

Design Features

- Smaller Swing Diameters
- Bearing Package with Reduced Maintenance or Maintenance-Free Options
- Increased Torque Capacity



Driveshaft Series	Torsional Rating	
	Functional Torque Limit	Swing Diameter
	Nm	mm
2015	2,400	90.0
2020	3,500	98.0
2025	5,000	113.0
2030	6,500	127.0
2035	10,000	144.0
2040	14,000	160.0
2045	17,000	174.0
2047	19,000	174.0
2055	25,000	178.0
2060	30,000	196.0
2065	35,000	206.0

For additional configurations, contact Dana for specific application information.

Available on Request

- Paint
- Special Types
- DIN Flanges
- SAE Flanges
- XS Flanges
- Permanent Lubrication for High and Low Temperatures

Definition of Functional Torque Limit: The torque to which the driveshaft can be loaded without yielding or creating plastic deformation of any of the parts that adversely affect the driveshaft kinematics of durability.

Driveshafts

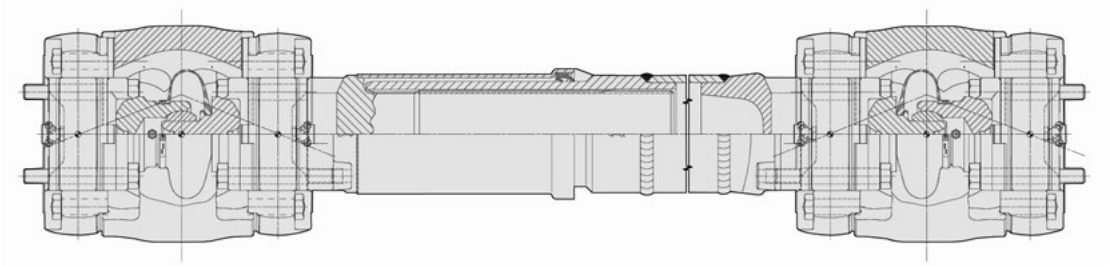
Spicer® Centered Double Joints

Spicer® Centered Double Joints are suitable for many applications, including main or wheel drive applications.

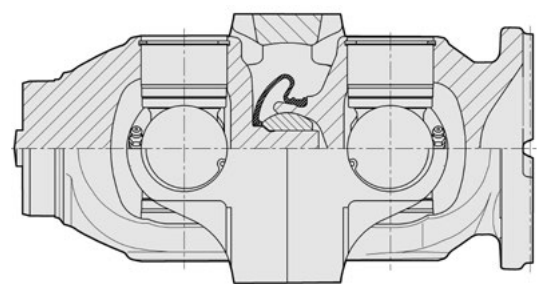
Available either as a single double joint or double/double jointed shafts, ranging from 2,000 to 17,000 Nm, Dana has the right driveshaft to fit your needs.

Design Features

- Permanently Lubricated
- Equalized Angles for Constant Velocity
- Fully Centered
- Round and Wing-Bearing Styles Available



Torsional Rating		
Driveshaft Series	Functional Torque Limit	Swing Diameter
	Nm	mm
5C	5,500	140.0
6C	7,200	155.0
7C	10,700	163.0
8.5C	20,300	190.0



Torsional Rating		
Driveshaft Series	Functional Torque Limit	Swing Diameter
	Nm	mm
2015	2,400	104.0
2020	3,500	109.0
2030	6,500	140.0
587.20	8,300	150.0
587.35	17,000	180.0

Available on Request

- Paint
- Permanent Lubrication for High and Low Temperatures
- Special Types

Definition of Functional Torque Limit: The torque to which the driveshaft can be loaded without yielding or creating plastic deformation of any of the parts that adversely affect the driveshaft kinematics of durability.

Spicer Double Universal Joints (DUJ)

Spicer DUJ products are designed for improved sealing performance, longer life, and low maintenance. Torque capacity ranges from 1,550 to 5,000 Nm and products are available in

extended or permanently lubricated version. Shaft ends can be customized upon customer request.

Design Features

- Advanced U-Joint sealing system
- Reduced maintenance
- Increased torque capacity



DUJ Series	Torsional Rating	
	Functional Torque Limit	Swing Diameter
	Nm	mm
63B24	1550	85
71B27	2550	97
82B30	3530	109
93B35	4700	124
97B35	5000	124

For additional configurations, contact Dana for specific application information.

Available on Request

- Paint
- Customized spline/gear shaft ends
- Re-Lube or Service-Free U-Joints
- Heavy-Duty versions (HD) available upon request

Definition of Functional Torque Limit: The torque to which the driveshaft can be loaded without yielding or creating plastic deformation of any of the parts that adversely affect the driveshaft kinematics of durability.

Market-Driven **Innovation**

Off-Highway Performance Expectations

Safety

Productivity

Maneuverability

Durability

Serviceability

Total Cost of Ownership

About Dana Incorporated

Dana is a leader in the design and manufacture of highly efficient propulsion and energy-management solutions for all mobility markets across the globe.

The company's conventional and clean-energy solutions support nearly every vehicle manufacturer with drive and motion systems, electrodynamic technologies, thermal, sealing, and digital solutions.

About Dana Off-Highway Drive and Motion Systems

Dana delivers fully optimized solutions to customers in the construction, agriculture, material handling, mining, and industrial markets.

We bring our global expertise to the local level with technologies customized to individual requirements through a network of strategically located technology centers, manufacturing locations, and distribution facilities.



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Application Policy
Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from Dana; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.

