

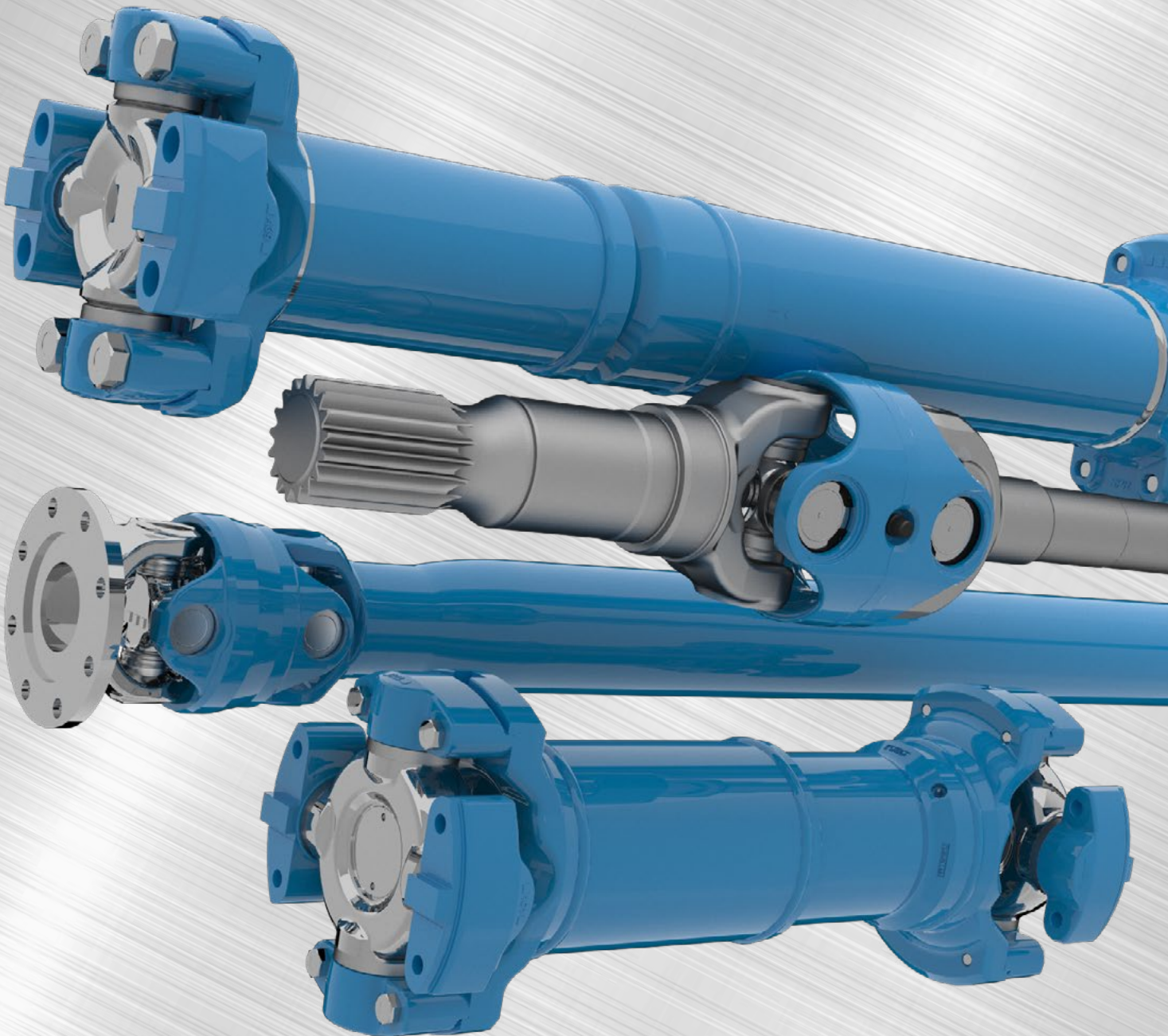


SPICER®

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.

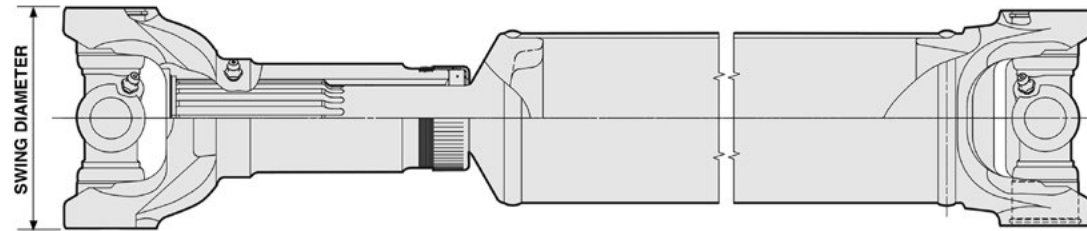
The Spicer 10 Series offers driveshafts with

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

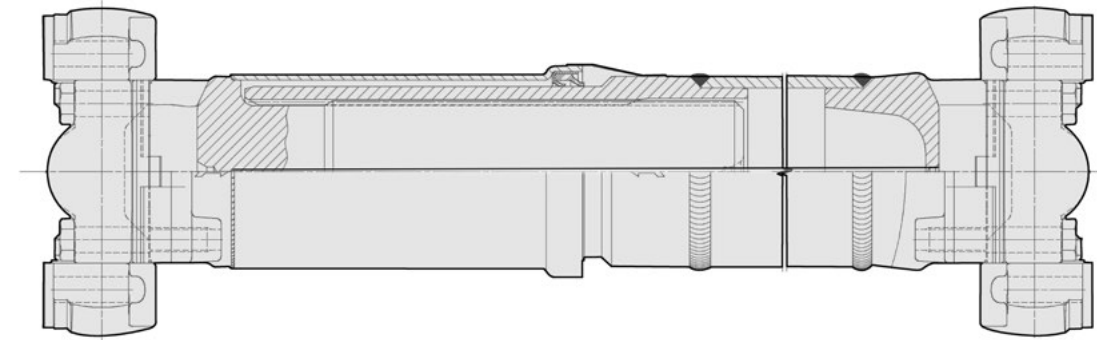
Spicer wing-bearing style driveshafts are designed for longer life, minimal maintenance, and lower operating cost.

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®

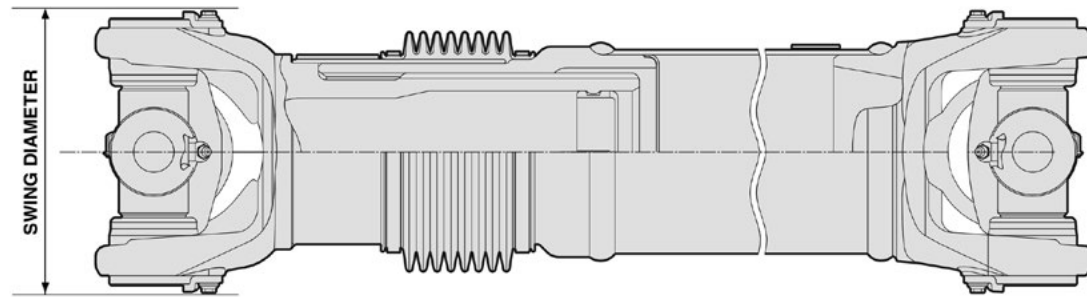
As with the Spicer 10™ Series, Spicer Life Series® driveshafts offer features such as longer life, reduced maintenance, and Quick Disconnect™ end yokes that can provide operating benefits to our customers.

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.

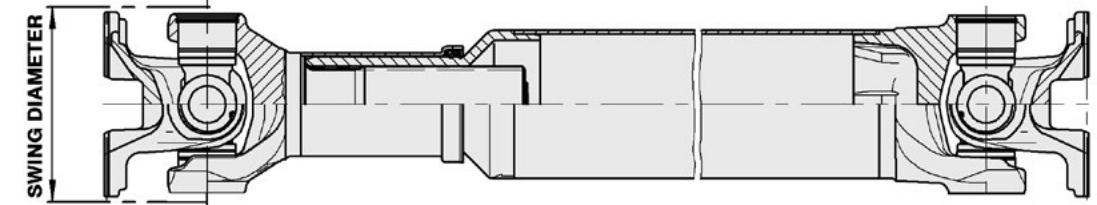
Spicer Compact™ Plus

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

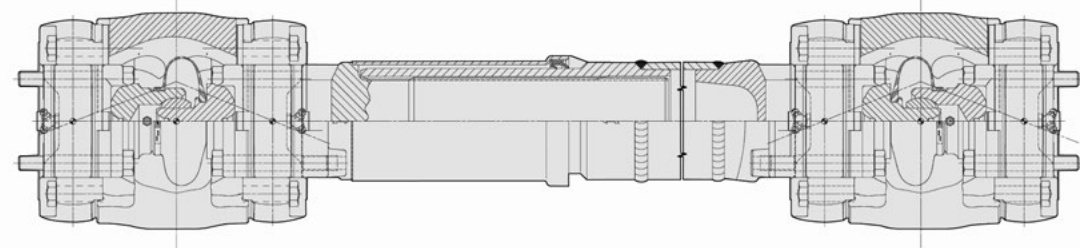
Spicer® Centered Double Joints

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

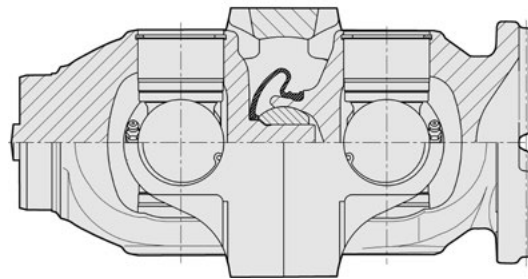
Available either as a single double joint or double/double jointed shafts, ranging from 2,000 to 17,000 Nm, Dana has the right driveshaft to fit your needs.

Design Features

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



| Driveshaft Series | Torsional Rating | |
|-------------------|-------------------------|----------------|
| | 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 |



| Driveshaft Series | Torsional Rating | |
|-------------------|-------------------------|----------------|
| | 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
- 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.

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.



Dana.com/oh/contact

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.

