

Telehandlers

Innovative Drivetrain Solutions

Complete Systems | Transmissions | Controls | Driveshafts | Axles



SPICER®
Off-Highway Systems



Construction



Agriculture



Mining



Forestry



Material Handling



Spicer® Drivetrain Systems for Telehandlers

With a comprehensive line of Spicer® brand products designed specifically for material-handling vehicles, Dana can provide you with the most innovative and flexible drivetrain solutions in the industry. Equipped with the power to handle any load, Dana systems for telehandlers boast a lift capacity of 4,000 to 50,000 lbs. (1.8 to 22.7 tonnes).

Spicer® Transmissions

Rely on Spicer transmissions for smooth shift characteristics, driver comfort, and enhanced vehicle performance. With integrated gear sets, Spicer transmissions offer a best-in-class compact solution to the telehandler market with a unique design that is available with modulation and inching features. Dana provides a transmission solution for every weight range variation to suit your need, whether it be conventional or VDT lateral offset. Our transmissions feature Powershift with both central and side mounting, Powershuttle, or Interchangeable Powershift/Powershuttle.

Spicer® Electronic Controls

Spicer electronic controls provide electronically controlled modulation and inching, and safety inhibit protection to engage, lift, and transport heavy loads. They have been developed to provide safe, finite control of the vehicle while your



APC300
Electronic Controller

operator is in the basket or on an aerial platform. This is accomplished through complete integration of the vehicle engine, brakes, transmission, and hydraulic controls.

Spicer® Axles

Spicer axles for telehandler vehicles deliver the high turning angle required for precise placement of the handler and deep planetary reduction ratios. The wet-disc braking system utilizes a fully enclosed design to eliminate contaminants such as water and dirt that are present at work sites. The wet brakes also help your equipment and operators work at peak efficiency for extended periods of time by reducing brake wear and noise.

Spicer® Smart Suite™

Dana's next-generation axles are designed to accommodate optional Spicer® Smart Suite™ technology, a platform of fully integrated, connected vehicle features. Operating data is collected from the drivetrain and converted into actions such as forecasting maintenance issues, and more precise maneuverability.

Spicer® Driveshafts

Spicer driveshafts offer design flexibility and the durability to work reliably on varied and uneven terrains in countless environments. More than a century of innovation is reflected in every Spicer driveshaft, ranging from 1,000 Nm models for mobile vehicles to 15,000,000 Nm models used in industrial applications. Dana continuously develops new designs, materials, and processes for Spicer driveshafts to provide more power, efficiency, and overall performance.

Lift Capacity	Spicer® Drivetrain System Solutions				
	Lbs (Tonnes)	Transmission		Axle	Driveshaft*
		Hydrodynamic	Hydrostatic		
4,000-5,000 (1.8-2.3)	—	603, 311	211	1410	
6,000-8,000 (2.7-3.6)	T12000, VDT12000	357, 367, 318	212	1480	
9,000-12,000 (4.0-5.4)	T12000, VDT12000	357, 367, 318	212HY	1480	
12,000-15,000 (5.4-6.8)	T13000	357, 367, 318	223	1550	
15,000-28,000 (6.8-12.7)	T20000	360, 319, 2+3	213	1550	
29,000 - 50,000 (13.2-22.7)	—	360, 319, 2+3	214	1550	

*Other driveshaft series and end-fitting designs available.

Intelligent Load Monitoring System Boosts Performance and Safety

Spicer® Smart Suite™ Intelligent Load Monitoring System (ILMS) is an advanced technology option for telehandlers that uses data from across the vehicle to prevent tip-over incidents, provide better estimates of static loads, and supply intelligent calibration management. ILMS collects data from the axle and other vehicle systems to provide robust, real-time operating metrics along with vehicle and load monitoring in dynamic conditions, such as cornering, lifting, and shuttling.



Spicer® 318 Hydrostatic Transmission

Combining high controllability with increased efficiency at high speeds, this continuously variable transmission offers full CVT functionality without torque interruption.




Spicer® Planetary Rigid Steering Axle

Offering multiple configurations, this steer axle family features a gear ratio and wet paper disc brake design that reduces heat generation and minimizes power loss.



Spicer® 10™ Series Driveshaft

Ideal for the rigorous demands of most mobile off-highway applications, this driveshaft features a torque capacity up to 5,500 Nm and a swing diameter of 134.9 mm.



We're where our customers are and where they're going.



Dana Global Replacement Parts and Service

Dana operates global service parts distribution centers and more than 60 authorized Spicer Service Centers for customers in more than 100 countries. This global presence ensures that you get local access to the parts and technical support you need. We also provide a single source for Long® thermal-management and Victor Reinz® sealing system replacement parts. Precision-engineered and rigorously tested, these genuine parts provide the reliable performance required to minimize downtime and costs.

Global Quality Standards

To consistently deliver world-class quality, Dana builds on our manufacturing excellence by employing global quality standards at every facility and technology center worldwide. Throughout all stages of product development, we integrate global resources and local expertise with rigorous process controls. This allows us to deliver identical products wherever our customers are located that meet and exceed standards set. Such a steadfast commitment to quality is one of the reasons why we are the supplier of choice for many world-leading off-highway OEMs.

Learn more about Dana's advanced drivetrain systems by visiting dana.com/offhighway.

About Dana Incorporated

Dana is a world leader in highly engineered solutions for improving the efficiency, performance, and sustainability of powered vehicles and machinery. Dana supports the passenger vehicle, commercial truck, off-highway, and industrial markets as well as industrial and stationary equipment applications. Founded in 1904, Dana employs thousands of people in 34 countries on six continents who are committed to delivering long-term value to customers.

About Dana Off-Highway Drive and Motion Systems

Dana delivers fully optimized drivetrain systems, power-transmission and fluid-power technologies, as well as individual product solutions to customers in construction, agriculture, industrial, material-handling, underground-mining, and forestry markets. Dana brings 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



SPICER®

Off-Highway Systems

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.