

# Wheel Loaders

## Innovative Drivetrain Solutions

Complete Systems | Transmissions | Controls | Driveshafts | Axles



**SPICER**<sup>®</sup>  
*Off-Highway Systems*



Construction



Agriculture



Mining



Forestry



Material Handling

# Advanced Spicer® Drivetrain Systems for Wheel Loaders

Our comprehensive line of Spicer® brand products is designed to cover the complete range of wheel loaders. As some of the industry's most innovative, flexible drivetrain solutions, you can rely on our systems to work continuously in challenging environments where vehicle performance, efficiency, and reliability are key considerations.

## Complete system solutions

A full Dana drivetrain system optimizes performance, reduces product complexity, and helps achieve efficiency and cost goals.

Curb Weight Tonnes (Tons)	Drivetrain System Solutions				
	Transmission	Transmission			Axle
Hydrostatic	Hydromechanical Variable (HVT)	Hydrodynamic			
3-4 (3-4)	315	—	—	111	1410
4-6 (4-7)	315, 357	—	—	111	5C, 1410-1480
6-9 (7-10)	357, 318	—	—	112	5C-6C, 1410-1480
10-13 (11-14)	319	—	T20000	123	6C, 1410-1480
13-15 (14-17)	319	—	T20000	113	6C
15-18 (17-20)	HSE2+3	HVTR2	TE16, TZL16	125*	6C-7C
18-24 (20-26)	HSE2+3	HVTR2/R3	TE18, TZL18	125*, 127*	7C
24-32 (26-35)	—	HVTR3	TE32, 36000	127*	8.5C-9C
32-40 (35-44)	—	—	TE32, T40000	53R	9C
>40 (44)	—	—	8000	58R	10C-14C

\*125 formerly known as 37R/39R and 127 formerly known as 44R.

### Transmissions

Hydrostatic, Hydrodynamic, Hydromechanical Variable (HVT).

### Spicer® Axles

Lightweight, yet durable with modular features offering superior design flexibility and 25% weight reduction.

### Spicer® Driveshafts

Heavy-duty designs to handle more torque in a smaller package.

### Spicer® PowerBoost® System

Advanced hydraulic-hybrid system provides the ultimate in vehicle energy efficiency and reduced operating cost.

## Transmission Options

Dana offers a full suite of solutions to meet regional needs, market preference, and end-users' operational profile.



4 speed/  
Standard  
Torque  
Converter



4 speed/  
One-Way  
Clutch +  
Lock-up Torque  
Converter



5 speed/  
Lock-up  
Torque  
Converter



Dana Rexroth  
Transmission Systems  
Hydrostatic  
Powersplit HVT



Multiple motor,  
one gear ratio



One motor,  
multiple  
gear ratio  
Shift-on-Fly



One motor,  
one gear ratio

Hydrodynamic

Hydromechanical Variable

Hydrostatic



### Featured Wheel Loader System

This solution includes:

- 1** Spicer® 123 front and rear axles
- 3** Spicer® hydrostatic transmission
- 2** Spicer® Wing® Series driveshaft
- 4** Spicer 10™ Series driveshaft

## Transmission Packages

By delivering predictive analysis on individual driver inputs, overall vehicle operation is optimized. Available in Base or Pro packages on Spicer® transmissions.

### Productivity Package

*Automatically adjusts vehicle operation to maximize efficiency and productivity during work cycles.*

**Features and benefits:**  
*Provides shift management, pattern recognition, and operator instruction.*

### Protection and Diagnostics Package

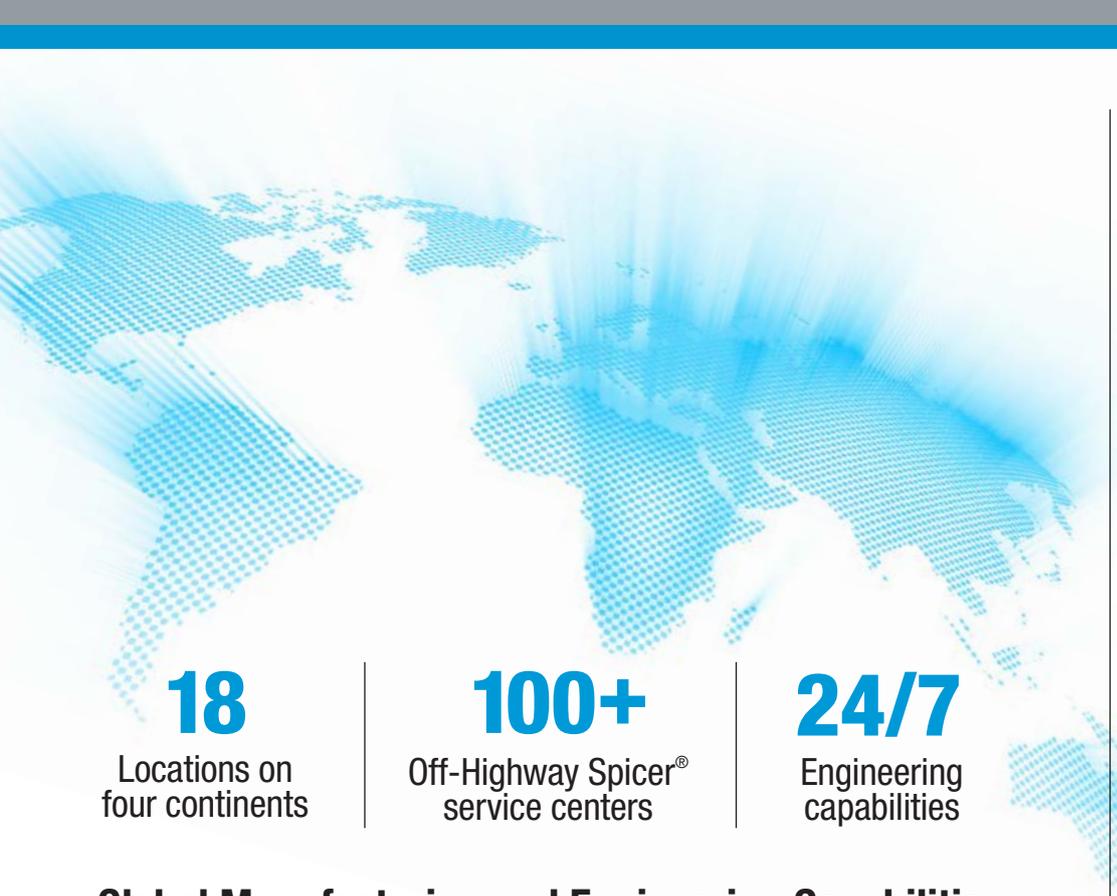
*Notifies driver of overall vehicle health and assists with safer operation based on response to prevailing working conditions.*

**Features and benefits:**  
*Reduces maintenance costs and protects the drivetrain.*

### Power-Management Package

*Identifies power requirements based on work task to deploy the optimum balance of productivity versus operating cost.*

**Features and benefits:**  
*Improves fuel management, productivity, and shifting.*



**18**

Locations on  
four continents

**100+**

Off-Highway Spicer®  
service centers

**24/7**

Engineering  
capabilities

## Global Manufacturing and Engineering Capabilities

Dana is well positioned to be your global partner with a vast network of engineering, manufacturing, service, and support locations. Such an optimized footprint allows us to meet the diverse needs of OEMs and their customers all over the world.

We are committed to delivering outstanding value for our customers by understanding their needs, as we expand market opportunities with new technologies. This vision drives us to create the latest solutions for wheel loaders that improve what OEMs and vehicle operators care about most – productivity, comfort, safety, and emissions reduction.

Learn more about Dana's advanced drivetrain systems  
by visiting [dana.com/offhighway](http://dana.com/offhighway).

### About Dana Holding Corporation

Dana is an integral partner for virtually every major vehicle and engine manufacturer worldwide. We are a leading supplier of drivetrain, sealing, and thermal technologies to the global automotive, commercial-vehicle, and off-highway markets. Founded in 1904, we employ thousands of people across six continents.

### About Dana Off-Highway Driveline Technologies

Dana delivers fully optimized Spicer® drivetrain systems and individual product solutions to customers in construction, agriculture, material-handling, underground-mining, and forestry markets, bringing 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](http://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.