



# Self-Propelled Sprayer **Drive and Motion Solutions**

Wheel Drive, Hydraulic and Electronic Systems





# Supplying a Sprayer's **Complete System**

Each day, off-highway equipment buyers are searching for technologies that can reduce overall vehicle operating expenses. They'll find this and more with proven Spicer® wheel drives and Brevini® hydraulic and electronic technologies.

Self-propelled sprayers that apply herbicides, pesticides, and fertilizers are a staple of modern agricultural applications. Dana alone is able to supply the complete system for these vehicles, including mobility and power conveyance functions for the sprayer.



## Traveling functions (wheel drive)

Suitable for severe operating conditions thanks to dedicated double bearings to support extreme radial and axial loads

Complete protection against mud, water, and dust, with separate oil chambers for the motor and gearbox

Manual disengagement provides a quick, easy solution for emergency towing

Road use approval

High traveling speed to reduce transfer time and increase productivity

Low cost of ownership

Compact design reduces weight compared to competing solutions

## Working functions and hydraulic power management

Fixed or variable displacement piston pumps with onboard electronics for flow sharing

Hydraulic fluid flow management with gear pumps and flow dividers, directional and flow control valves, open and closed center valves, cartridge valves, and hydraulic integrated circuit (HIC)

Axial piston motors

Load cells and control sensors

Integrated safety controls

Automatic leveling and anti-tilting system

Human machine interface (HMI)

Our proven technology enables the following sprayer functions:

Hydraulic boom  
movements  
(left and right)

Hydraulic  
boom lifting

Hydraulic boom  
angle-setting

Proportional  
control for fan  
spraying



**BREVINI®**  
HYDRAULIC  
INTEGRATED  
CIRCUIT



**SPICER®**  
WHEEL DRIVE  
WITH INTEGRATED  
AXIAL PISTON MOTOR



**BREVINI®**  
HYDROSTATIC  
PISTON PUMPS  
AND GEAR PUMPS



**BREVINI®**  
SENSORS  
AND ELECTRONIC  
CONTROLS





# Technologies Customized to **Every Part of the Globe**

With a global presence in 33 countries, Dana Incorporated boasts more than 100 engineering, manufacturing, and distribution facilities. With a worldwide network of service centers and subsidiaries, each customer is assured of the local proximity and responsiveness they need.

## About Dana Incorporated

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 Drive and Motion Technologies

Dana delivers fully optimized Spicer® drivetrain systems and individual product solutions to customers in construction, agriculture, material-handling, underground-mining, and forestry markets, plus Brevini® motion systems for machine working functions. 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.

Learn more about Dana's drivetrain and motion systems for sprayers at [dana.com/offhighway](https://dana.com/offhighway).

[dana.com/oh/contact](https://dana.com/oh/contact)



**SPICER®** **BREVINI®**

### 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.