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 local service centers, 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.