



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



Dana's Spicer® Torque-Hub® and Brevini® technologies
for self-propelled sprayers.

Engineered to meet performances and efficiency
requirements of modern equipment

Full-System Solutions for Sprayers

Dana's portfolio of advanced technologies have been engineered to meet the needs of farmers. Our modern equipment supports higher crop yields and lower operating costs. Dana's full-system solutions for self-propelled sprayers include proven Spicer® Torque-Hub® wheel drives and Brevini® hydraulic and electronic components specifically designed to improve speed, maneuverability, efficiency, and safety.



Spicer® Torque-Hub® New C0 Series

Designed for sprayers capacities carrying from 2000 to 8000 liters
Patented service brake to meet on-road stopping requirements
Heavy duty main bearings and retention for high wheel offsets and side loads
High speed thermal stability for operating machines up to 60 km/h
Low maintenance requirements and easy to service



Brevini® Piston Pump and Gear Pumps HD1/OT300+OT200

Wide range of swashplate controls available
Two built-in pressure relief valves protect the system from pressure overloads
Swashplate design
Integrated electro proportional and on-off valves
Embedded additional bearings for external loads



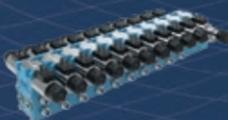
Brevini® Fan Drive Gear Motor

Cast iron body for improved efficiency especially at high oil temperature
High volumetric and mechanical efficiencies
Low noise level
Built-in proportional relief valve for fan speed control
Built-in anti cavitation valves



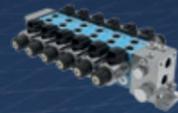
Brevini® HIC Series – Customized Hydraulic Integrated Circuit

Best In Class valve technology taken from Cartridge and Cetop valves range
Less leakage risk. No check valves need on the cylinders
Compact overall dimension
Easier Piping /Hosting



Brevini® Cetop valves

Fixed and variable displacement options
On/off or proportional directional flow
Bankable cetop valves for harsh environments



Brevini® Proportional Pressure Compensated Bankable Valve

LSA and LSB valves available
GAS and SAE ports available
Same interface of all Dana bankable valves range to mix slices with post-compensated or not compensated valves
Modular valves (check and pressure relief) available



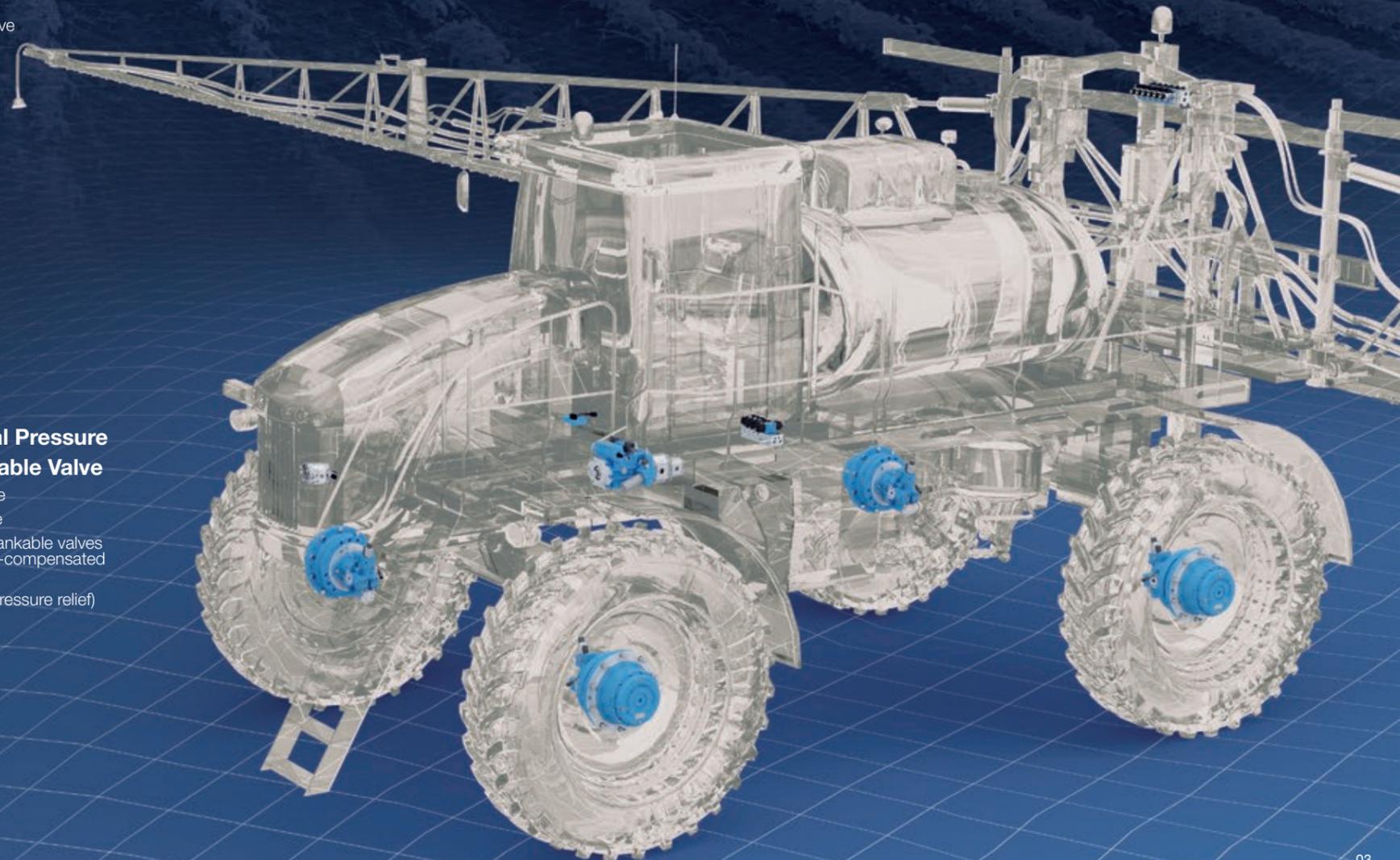
Brevini® Programmable Control Unit

Dual / redundant microprocessor
Optimized for off-highway equipment performance and safety enhancement
Waterproof, aluminum compact body
PWM outputs with closed loop current control



Brevini® Tilt sensor SP Series

Constantly measures vehicle tilt



Spicer® Torque-Hub® C0 Series A New Standard in Sprayer Drives

With 50 years' experience with spray tractor applications, Dana took a fresh approach incorporating the best design features into the new C0 family of Spicer® Torque-Hub® wheel drives. These features provide machine designers with the greatest flexibility to accommodate the current market demands for a range of machines, satisfying requirements for machine weight, speed, tire offsets, braking performance and durability.



INTERNAL SERVICE BRAKE
ELIMINATES
CHEMICAL
CORROSION

EXCEPTIONAL
THERMAL
PERFORMANCE
FOR HIGHER
SPEEDS

HEAVY DUTY
DESIGN

PROVEN
DURABILITY

DESIGNED FOR
IMPROVED
SERVICEABILITY

Spicer® Torque-Hub® New C0 Series

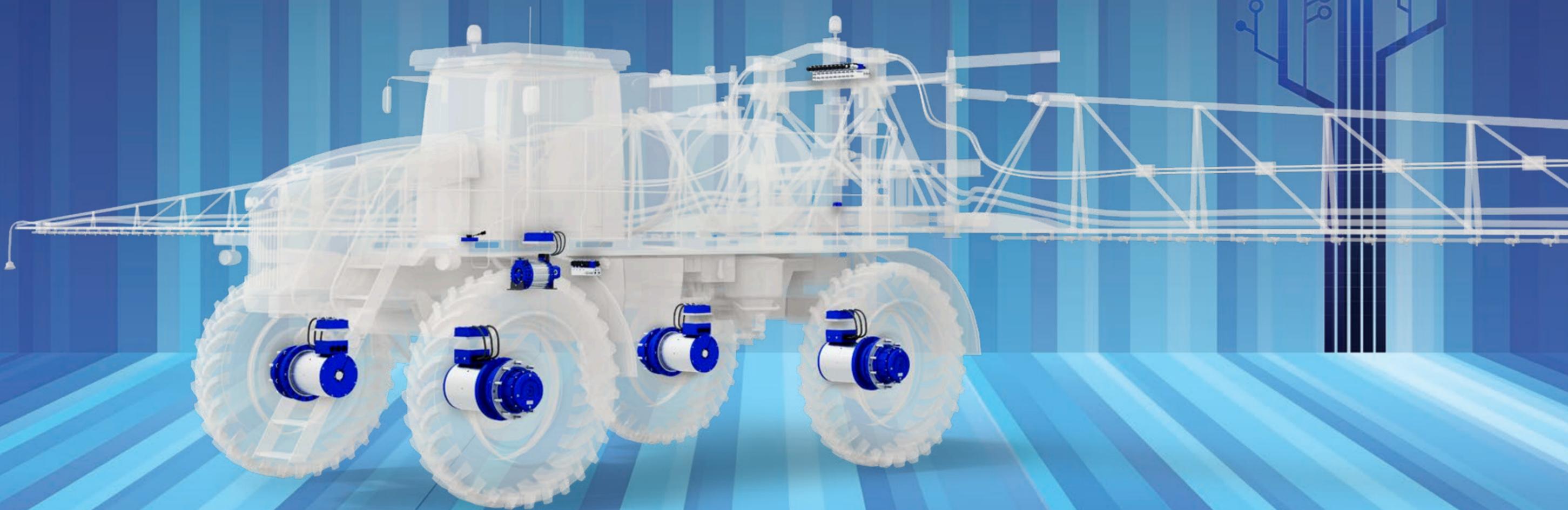
- 1-Product range specifically designed for modern high-performance sprayers
- 4-Products for machine capacities carrying from 2000 to 8000 liters
- Torque ratings from 16.000 Nm to 36.000 Nm
- Patented service brake to meet on-road stopping requirements
- Heavy duty main bearings and retention for high wheel offsets and side loads
- High speed thermal stability for operating machines up to 60 km/h
- Low maintenance requirements and easy to service
- Suitable for hydraulic and electric driven vehicles, with Dana's hydraulic and electric motors
- Easily integrated with central tire inflation system (CTIS)

INNOVATION

Pioneering electrification, protecting the environment

A new era of mobility is upon us. Emissions regulations and government policies are manifesting at an ever-increasing pace, and visions of vehicles that reduce operating costs while enhancing productivity and safety are accelerating the need for alternative propulsion solutions. For over 20 years, our group of highly focused engineers has been dedicated to research and development of new technology solutions aimed at electrification. We have built a broad portfolio of award-winning, patented technologies, making us a leader in electrification.

Today we can proudly say that we are the ONLY supplier with the capability to help manufacturers bring electric-driven vehicles to market through our collaborative, systems-oriented approach; decades of expertise; and broad selection of proven drive and motion capabilities for electrified vehicles. Dana offers a full product portfolio and multiple technologies for electrification needs. Through our market-proven brands, we can provide motors, inverters and controllers for low- and high-voltage applications ranging from 24 to 800 V.





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

With a presence in 33 countries, Dana Incorporated boasts more than 145 engineering, manufacturing, and distribution facilities. Our worldwide network of local service centers provides assurance that each customer will benefit from our proximity and responsiveness.

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 and Brevini® motion systems to customers in 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.

Learn more about Dana's drivetrain and motion systems at dana.com/offhighway.



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.