



Compact Wheel Loader **Electrified Driveline**



Complete Electrified System Solution for Wheel Loaders

Through this new, fully electrified driveline, Dana offers a complete solution for the off-highway segment that helps OEMs to enhance the sustainability of their applications while improving energy efficiency and performance. Leveraging our deep knowledge and experience in mechanical and electric components integrated with controls software, we are delivering a complete, innovative, and best-in-class drivetrain solution suitable for compact wheel loaders, electrified compact MEWPs, telehandlers, and site dumpers. The entire system has been developed to optimize vehicle productivity and reliability, enhance vehicle mobility through a compact package, reduce maintenance costs, and help safeguard the environment by reducing noise emissions. These features are especially important for machines working in city centres and at construction sites that require zero emissions and noise around the clock.



Spicer® Electronic Controls

- Enables communication between driveline components
- Support for OEM advances in digitalization and automation
- Reliable, efficient, and quick development of embedded controls

TM4 ElectroDynamics™ e-Pump Motor with AC-X1 Inverter

- Effective performance and operation with a compact design
- High motor efficiency and dynamic across full speed range
- Up to 50% higher power density
- Long-life power stage-patented direct bonded copper (DBC) MOSFET multi-layer power module technology



Spicer® 109 Rear Axle, Spicer Electrified™ eSG001 Transmission with SRI 200 e-Motor and AC-X1 Inverter

- Enhanced vehicle mobility
- Compact and light, ideal in space demanding applications
- Minimized power losses
- High motor efficiency and dynamic across full speed range



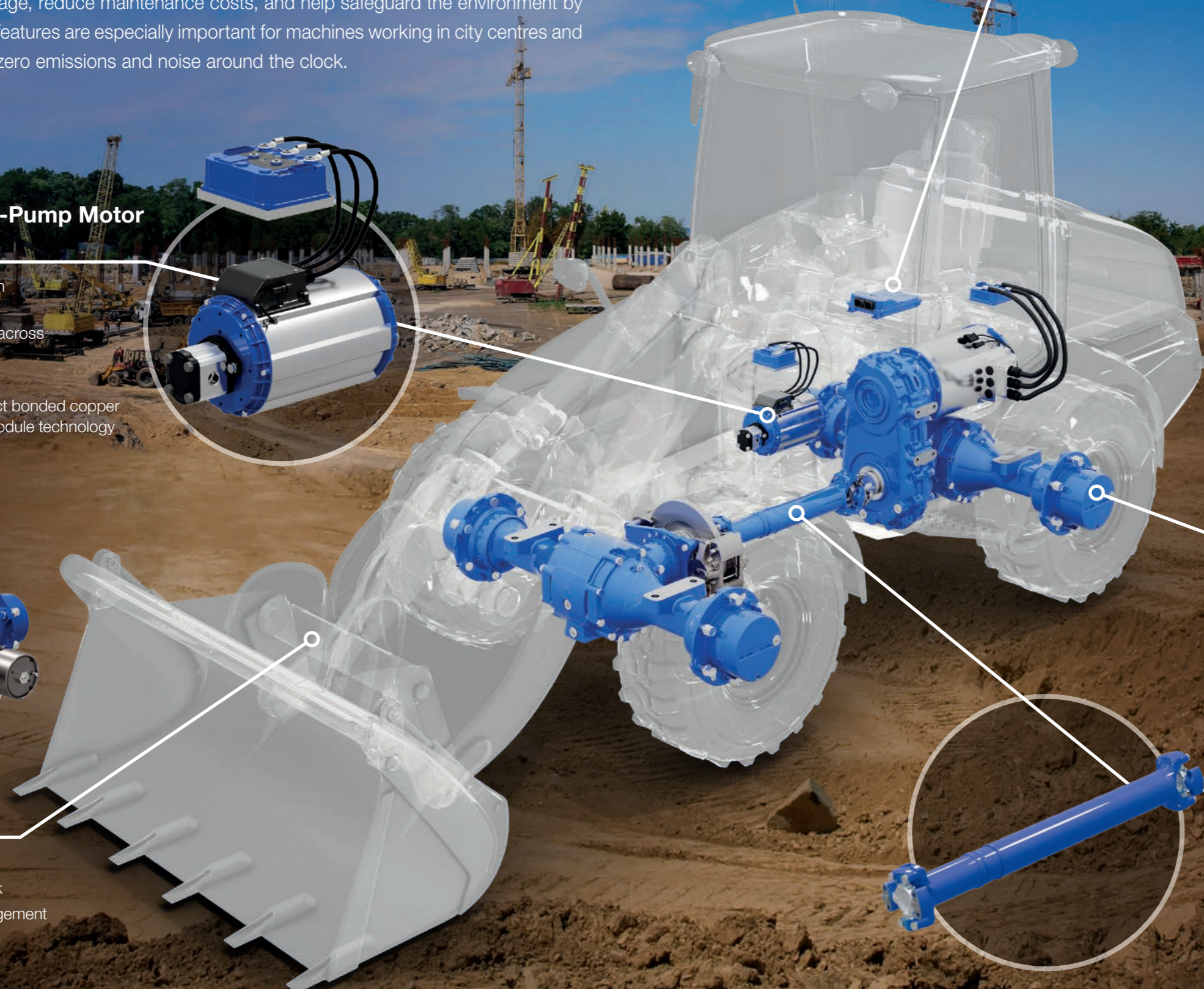
Spicer® 109 Front Axle

- Available with disc or drum brakes
- New patented 100% differential lock
- On-the-fly engagement and disengagement
- Reduced oil quantities in the axle
- Improved efficiency



Spicer® 10 Series Driveshaft

- Extended spline life
- Reduced thrust load under pressure
- Lower friction under load
- Superior needle bearing retention
- Easy-to-service universal joints
- Extended or permanent lubrication available on request



Market-Driven **Innovation**

Off-Highway Performance Expectations

Safety

Productivity

Maneuverability

Durability

Serviceability

Total Cost of Ownership

About Dana Incorporated

Dana is a leader in the design and manufacture of highly efficient propulsion and energy-management solutions for all mobility markets across the globe.

The company's conventional and clean-energy solutions support nearly every vehicle manufacturer with drive and motion systems, electrodynamic technologies, thermal, sealing, and digital solutions.

About Dana Off-Highway Drive and Motion Systems

Dana delivers fully optimized solutions to customers in the construction, agriculture, material handling, mining, forestry, and industrial markets.



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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.

