Learn more about Dana’s axles and wheel drives for surface and underground mining applications at [dana.com/offhighway](https://dana.com/offhighway).

**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.

Unmatched serviceability while mounted on the vehicle.

Learn more about Dana’s axles and wheel drives for surface and underground mining applications at [dana.com/offhighway](https://dana.com/offhighway).
A Full Offering of Drive and Motion Systems for Surface and Underground Mining Vehicles

The expanded Dana family of products now includes solutions for both underground and surface mobile applications, as well as industrial surface mining.

- Vertical Drilling Machines
- Blast Hole Drills
- Self-Propelled Crushers
- Mining Shovels
- Stack Reclaimers
- Conveyors and Apron Feeders

- Drill Rigs
- Road Headers
- Wet Sprayers
- Mining Trucks
- Load Haul Dumpers
Surface Mining Mobile Applications

Drivetrain Systems

Spicer® Torque-Hub® Track Drives
Wide range of ratios in combination with Dana Brevini® hydraulic motor and motion control valves.
- Compact design solution.
- Manual disengagement device for towing.
- Hub and spindle made of high-strength material.
- Dedicated sealing system designed for severe environmental conditions.
- Electric motor version available.

Spicer® Planetary Gearboxes
Improved thermal capacity.
- Robust design.
- Reliable operation, engineered for harsh conditions.
- Spherical graphite cast iron housing for low temperature applications.
- Custom-made output support and pinion.

Spicer® Transmissions
Full powershift options with or without lockup.
- Advanced electronic controls.
- Highly efficient aluminum-cast converter.

Spicer® Heavy Axles
Handles added input torque and heavy loads.
- Designed for longer life, minimal maintenance, and lower operating cost.

Spicer® Driveshafts
Handles added input torque and heavy loads.
- Designed for longer life, minimal maintenance, and lower operating cost.

Spicer® Axles
State-of-the-art design tools, rigorous program management, and comprehensive testing ensure efficient, reliable field performance.

Spicer® Electronic Controls and Sensors
Best-in-class controls optimize productivity, maximize life, and reduce maintenance.
- Support for OEM movement in digitalization and automation.
- Capability to combine drive and motion on one platform.

Brevini® Proportional Directional Valves
- Available in gerotor and geroller set versions.
- Three timing system options: spool type, disc type, and disc type with separate driving link.

Brevini® Piston Motors and Pump Systems
- Displacement up to 226 cc in medium- and high-pressure options.
- Fixed and variable displacement available.
- Open or closed loop circuits.

Brevini® Orbitals Motors
- Available in gerotor and geroller set versions.
- Line pull up to 30 tons.
- Wide range of safety controls.
- Equipped with Brevini® high-speed axial piston motor.

Brevini® Winches
Winches for auxiliary hoist system.

Brevini® Planetary Gearboxes
Improved thermal capacity.
- Robust design.
- Reliable operation, engineered for harsh conditions.
- Spherical graphite cast iron housing for low temperature applications.
- Custom-made output support and pinion.

Brevini® Piston Motors and Pump Systems
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Brevini® Orbitals Motors
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Brevini® Electronic Controls and Sensors
- Best-in-class controls optimize productivity, maximize life, and reduce maintenance.
- Support for OEM movement in digitalization and automation.
- Capability to combine drive and motion on one platform.

Brevini® Proportional Directional Valves
- Oil flow up to 1000 l/min.
- High modularity and ATEX certification.
- Remotely controlled electronic operation.
- Smooth controls to improve operation functionality and accuracy.

Brevini® Orbitals Motors
- Available in gerotor and geroller set versions.
- Three timing system options: spool type, disc type, and disc type with separate driving link.

Brevini® Piston Motors and Pump Systems
- Displacement up to 226 cc in medium- and high-pressure options.
- Fixed and variable displacement available.
- Open or closed loop circuits.

Underground Mining Mobile Applications

Motion Systems

Brevini® Orbitals Motors
- Available in gerotor and geroller set versions.
- Three timing system options: spool type, disc type, and disc type with separate driving link.

Brevini® Piston Motors and Pump Systems
- Displacement up to 226 cc in medium- and high-pressure options.
- Fixed and variable displacement available.
- Open or closed loop circuits.

Brevini® Planetary Gearboxes
Improved thermal capacity.
- Robust design.
- Reliable operation, engineered for harsh conditions.
- Spherical graphite cast iron housing for low temperature applications.
- Custom-made output support and pinion.

Brevini® Piston Motors and Pump Systems
- Displacement up to 226 cc in medium- and high-pressure options.
- Fixed and variable displacement available.
- Open or closed loop circuits.

Brevini® Orbitals Motors
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Brevini® Piston Motors and Pump Systems
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- Fixed and variable displacement available.
- Open or closed loop circuits.
Surface Mining Industrial Applications

Dana offers a wide range of Brevini® products for industrial applications and self-propelled machines – from planetary gearboxes to helical and bevel helical gearboxes to winches. Whether you require standard products or individual solutions engineered specifically for their needs – Dana can deliver a customized drive and motion system solution.

The Only Supplier Delivering Complete Fully Integrated e-Drive Systems

Today, Dana offers a full product portfolio for electrification needs. Through our market-proven brands, we can provide solutions for low- and high-voltage applications ranging from 24 to 800 V. Our product offering includes solutions for both drive and motion systems.

Dana offers a wide range of Brevini® products for industrial applications and self-propelled machines – from planetary gearboxes to helical and bevel helical gearboxes to winches. Whether you require standard products or individual solutions engineered specifically for their needs – Dana can deliver a customized drive and motion system solution.

Brevini® Industrial Planetary Gearboxes – S Series
- Modular concept
- Extensive ratio range
- Increased thermal capacity due to shared oil chamber
- Spheroidal graphite cast iron housing

Brevini® Helical Gearboxes – Compact Drives
- Light, compact solution
- Spheroidal graphite cast iron housing
- Easy to assemble/dismantle

Brevini® Winches and Winch Drives
- Configurations capable of lifting up to 35 tons
- Suitable for hydraulic or electric motors
- Integrated hydraulic motor for compact solution
- Certified for marine applications

GWB® Cardan Shafts
- Complete product range featuring flange/pinion diameters from 120 to 1300 mm
- Designed for ease of maintenance with service-free option
- Engineered to withstand harsh conditions

Spicer® Electrified e-Hub Drive and e-Axle
- Two high-efficiency driveline options: e-Hub drive is available in wet- and dry-disc brake options, while the e-Axle minimizes impact on vehicle frame

Spicer® Electrified e-Powershift Transmission
- Compatible with IC-engine vehicle architecture with minimal impact on vehicle frame

Spicer® Electrified e-Gearbox
- Based on a concept for a new propulsion system for drills, this e-gearbox joins drilling and driving operations with the same main electric motor