Paving the way for a cleaner, more energy-efficient world.
Wherever the journey – we deliver the propulsion solutions of tomorrow.

Whether in a highly efficient combustion engine, an intelligent hybrid system or the very latest electric drive, BorgWarner is driving mobility for today and tomorrow. Our vision is a clean, energy-efficient world. That’s why we develop mobility system solutions that reduce energy consumption and emissions, while at the same time improving performance. As the product leader with more than 130 years of experience in the field of powertrain systems, we are supporting the automotive industry in realizing clean propulsion and efficient technology solutions for light-, medium- and heavy-duty vehicles as well as off-highway applications.
leads – we deliver the propulsion solutions of tomorrow.
There is no more important challenge for the automotive industry today than the commitment to build vehicles that support a cleaner, more energy-efficient world. At BorgWarner, we made that commitment decades ago and have since been creating technologies to improve efficiency, emissions and performance in all types of vehicles.

Our proven track record has made us an industry leader in forward-looking propulsion solutions for combustion, hybrid and electric vehicles. We uncover strong trends and use smart science and technology to address a future based on varying regulations, consumer demands and automaker requirements.

We’re providing what’s needed today, pursuing what’s next and making good even better.
Today we are a global company positioned close to our customers throughout the world. With passion and creativity, our employees have developed true partnerships with customers and suppliers to gain a deeper understanding of their challenges and find the right solutions. Our strong operations and commercialization expertise result in high volume availability of competitive, efficient technologies that truly drive change.
We’re moving millions – cleaner and more efficiently.

Improving fuel economy and reducing emissions are the key focuses of our technologies for combustion engines. Whether new combustion processes, automatic stop/start systems or increasingly strict emissions requirements – we have innovative solutions ready for any technological challenge or type of vehicle. From efficient gasoline and clean diesel to stop/start technologies, we deliver fast-to-market solutions to increase efficiency and performance.
AWD + CROSS AXLE SYSTEMS
- Transfer Cases and Axle Disconnects
- AWD Couplings
- eLSD and Torque Vectoring

BOOSTING TECHNOLOGIES
- Wastegate Turbochargers
- VTG Turbochargers
- R2S Turbocharging Systems

ENGINE TIMING SYSTEMS
- Silent Chains
- Roller / Bushing Chains
- Tensioners
- Arms and Guides
- Sprockets

EXHAUST GAS MANAGEMENT
- EGR Valves
- EGR Coolers
- EGR Modules

IGNITION TECHNOLOGIES
- High Energy Ignition Coils
- Metal / Ceramic Glow Plugs
- Metal / Ceramic Pressure Sensor Glow Plug
- Glow Plug Control Unit

STARTERS & ALTERNATORS
- Conventional and Long Life Starters
- Conventional and High Efficiency Alternators

THERMAL MANAGEMENT
- Cabin Heaters
- Fans
- Fan Drives

TRANSMISSION TECHNOLOGIES
- Friction Plate & Clutch Assemblies
- Dual-Clutch Modules
- One-Way Clutches
- Electro-Hydraulic Solenoid Valves & Modules
- Stop-Start Accumulators

VARIABLE VALVETRAIN SYSTEMS
- Cam Torque Actuated (CTA) Phasers
- Torsional Assist (TA) Phasers
- Oil Pump Actuated (OPA) Phasers
- Intelligent Cam Torque Actuated Phasers
- Variable Force Solenoids and Oil Control Valves
We make vehicles generate energy – simply by driving.

Mild, full or plug-in hybrid technology is on the rise globally - opening up a vast array of potential drive architectures. For light vehicles as well as commercial vehicles, our creative solutions allow automakers flexibility in committing to propulsion technologies. With an equally comprehensive product portfolio, we offer vehicle manufacturers across the globe advanced solutions for all concepts.
ELECTRIC BOOSTING TECHNOLOGIES
- eBooster® Electrically Driven Compressor
- eTurbos
- eTurbocompounds
- Organic Rankine Cycle Turbines/Pump-Expanders

EXHAUST GAS MANAGEMENT
- EGR Modules
- Exhaust Heat Recovery Systems
- Organic Rankine Cycle Boilers

P0 HYBRID TECHNOLOGY
- High Voltage Belt Integrated Starter Generator (BISG)
- Tensioner
- FEAD Belt Tensioner

P1 HYBRID TECHNOLOGY
- High Voltage Integrated Starter Generators (HV ISG)

P2 HYBRID MODULES
- On- and Off-Axis Traction Modules with Optionally Integrated Power Electronics
- Disconnect Clutch, Launch Clutch and Damper
- Power Transmission Chain for Off-Axis Modules
- Hydraulic Control Modules

P3 HYBRID MODULES
- 48 V Motor Generator Unit with integrated electronics (MGI)
- 48 V Electric Rear Drive Modules with Torque Vectoring
- Power Transmission Chain Module

P4 HYBRID MODULES
- 48 V eAWD
- High Voltage eAWD

POWER-SPLIT HYBRID TECHNOLOGY
- High Voltage Permanent Magnet Motor
- Friction Plates
- Solenoids
- Multi-Mode Clutches
- Final Drive Chains

THERMAL MANAGEMENT
- Cabin Heaters
- Battery Heaters
We enable the switch – to highly efficient electric drives.

Electric vehicles can potentially make the vision of a future with emission-free mobility a reality. With our comprehensive product portfolio, we have the expertise to optimize the efficiency of the entire energy flow in an electric vehicle through battery modules and battery chargers, electric motors, power transmission, power electronics, and thermal management.
EV TRANSMISSION
- Transverse Drives
- Longitudinal Drives

ELECTRIC DRIVE MOTORS
- High Voltage Drive Motors

ELECTRIC DRIVE MODULES
- eDM (Integrated Motor & Gearbox)
- iDM (Integrated Motor, Gearbox & Power Electronics)

THERMAL MANAGEMENT
- Cabin Heaters
- Battery Heaters

BATTERY MODULES AND PACKS
- Battery Modules
- Battery Packs

POWER ELECTRONICS
- 48 V Motor Controllers
- High Voltage Motor Controllers
- High Voltage DCDC Convertors

ELECTRIC BOOSTING TECHNOLOGIES
- Fuel Cell Boosting
Paving the way for a cleaner, more energy-efficient world.

BorgWarner Inc.
3850 Hamlin Rd
Auburn Hills, MI 48326
USA

borgwarner.com