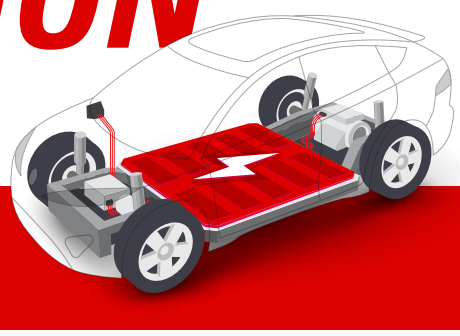
AUTOMOTIVE MEGATREND

ELECTRIFICATION

The Future of Mobility is Electric

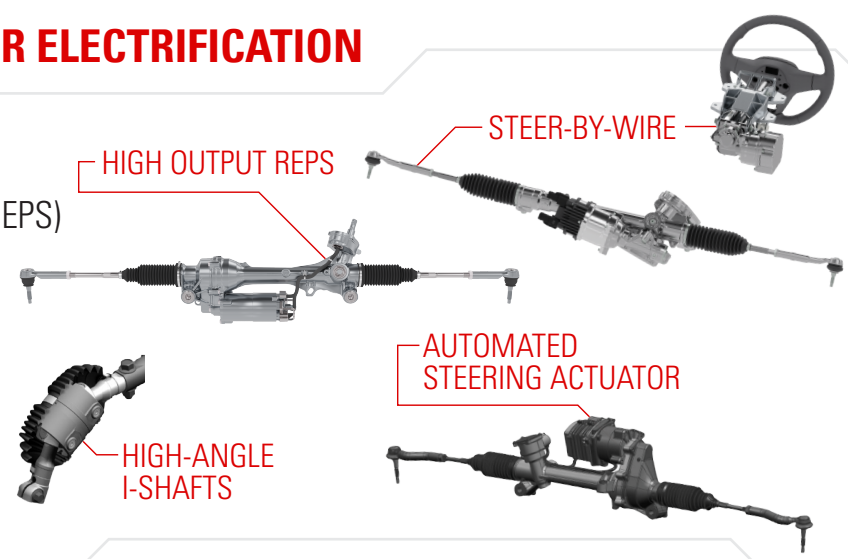


Nexteer technologies are solving unique challenges that come with various forms of electric vehicles.

NEXTEER TECHNOLOGIES FOR ELECTRIFICATION

STEERING

- Steer-by-Wire (SbW)
- Rack-Assist Electric Power Steering (EPS)
- Dual Pinion-Assist EPS
- Single Pinion-Assist EPS
- High Output EPS
- Automated Steering Actuator
- Fully Cylindrical Powerpacks
- High-Angle Intermediate Shafts



DRIVELINE

- Premium, Low Mass, Compact Halfshafts
- High Efficiency Joints
- Premium TriGlide Joints
- Double-Offset Joints

MOTION CONTROL SOLUTIONS FOR ELECTRIFICATION CHALLENGES

Heavier Steering Loads

EVs require heavier steering loads due to heavy batteries. Nexteer's under hood and High Output Rack-Assist and Pinion-Assist EPS systems, as well as SbW can enhance steering maneuverability for heavier EVs, while also enhancing safety and performance.

Packaging Challenges

EVs present packaging challenges due to large battery packs. Nexteer's advanced technologies like SbW, fully cylindrical power packs and high-angle intermediate shafts enable greater packaging flexibility.

NVH Requirements

EVs are extremely quiet and don't mask sounds like traditional, internal combusion engine (ICE) vehicles. We focus on premium acoustic and vibration performance in steering and driveline tailored to EV applications. Plus, many of our driveline products have the added bonus of extending battery life while also maximizing an EV's torque under extreme acceleration conditions.

Convergence of Electrification & Autonomy

Nexteer is exploring motion control solutions for autonomous people movers and last mile delivery vehicles with our Automated Steering Actuator, advanced software solutions and other motion control solutions in development.

Visit Nexteer.com/electrification for more details.

Electrification blog posts

nexteer AUTOMOTIVE

a leader in intuitive motion control