

Engineering Services for Next Generation Commercial Vehicles



Commercial Vehicles and Heavy Equipment manufacturers need to consider new business models, with the focus shifting away from core equipment towards platform services and value services enabled by Digital Transformation of engineering and manufacturing.

The Commercial Vehicles sector when compared with rest of the automotive industry has a highly cyclical business. OEMs are well aware that they are extremely vulnerable to the peaks and troughs in demand. With the advent of new technologies OEMs that manufacture commercial vehicles are gearing to scale new heights. Studies indicate that need for productivity, energy efficiency, safety, reliability and reduced carbon footprints, provide bases for overwhelming opportunities for the Commercial Vehicles market.

As a global leader in Engineering Services, Capgemini serves the entire commercial vehicles value chain from OEMs to Tier-1 suppliers to technology providers. Incorporating the technology shift and open innovation partnerships we build engineering solutions for successful products and services in the increasingly connected world. Our agile way of working and a presence in all major engineering hubs across the globe helps us to develop organizational and technological structures to drive efficient and value adding delivery of solutions.



Capgemini's approach for the Commercial Vehicles sector helps industry leaders create an advantage through intelligent combination of vehicle, customer and environment data for product engineering. We deliver cutting edge solutions through global delivery capabilities and automotive-specific service offerings across the value chain.

Autonomous Vehicles

- Automated operation of implements
- Weather condition based planning
- Machine Vision
- ADAS, Safety Systems Body Electronics
- Obstacle detection (IR, LIDAR, RADAR)
- Smart interfaces to implements

Digital Technical Content Management

- Technical Publications Management
- Digital Solutions (3D, AR, VR)
- Digitization and Migration
- Consulting and Benchmarking
- Tools and Platform Management

Digital Manufacturing

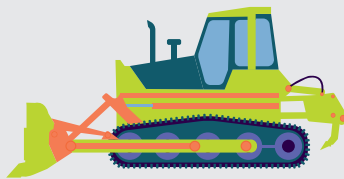
- Enterprise-wide manufacturing digital transformation
- Product and asset management
- Manufacturing Execution Systems
- Industry 4.0 Solutions

Product Lifecycle Management

- Consulting for PLM Strategy and Transformation
- Application Implementation
- Enterprise Integration
- PLM on Cloud
- PLM Process Solutions
- Application Management Services

Mechanical Engineering

- Product Design Support
- Value Engineering
- Reverse Engineering
- Legacy Data Migration
- Engineering Application Development & Maintenance



Engineering Analytics

- Product Design Analytics
- Factory Analytics
- Asset Performance & Control
- Predictive Maintenance
- Advanced Planning & Scheduling
- Warranty Analytics
- Service Optimization

Success Stories

Localization and Value Engineering of a 100T mining truck, for a major truck and off-highway equipment manufacturer from Europe resulting in a 21% cost reduction

Autonomous guidance system for agriculture equipment enabled a Dutch agriculture equipment manufacturing company to get a patent assigned

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Productivity improvement through KBE and CAD automation for a Leading Off-highway vehicle manufacturer added 10 FTE equivalent annual bandwidth for complex assemblies

Electronics product development program enabled our agriculture equipment client to be a machine integrator and control grape harvesters built by a different company.

About Capgemini

A global leader in consulting, technology services and digital transformation, Capgemini is at the forefront of innovation to address the entire breadth of clients' opportunities in the evolving world of cloud, digital and platforms. Building on its strong 50-year heritage and deep industry-specific expertise, Capgemini enables organizations to realize their business ambitions through an array of services from strategy to operations. Capgemini is driven by the conviction that the business value of technology comes from and through people. It is a multicultural company of 200,000 team members in over 40 countries. The Group reported 2017 global revenues of EUR 12.8 billion.

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Capgemini's Engineering Services

brings together deep domain expertise to lead the convergence of Physical and Digital worlds through technology, engineering and manufacturing expertise to boost our clients' competitiveness. A recognized leader with over 10,000 engineers across the globe, Capgemini's comprehensive portfolio of end-to-end engineering solutions enables global companies to unlock the true potential of their product portfolios and manufacturing efficiencies.

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People matter, results count.