

AKKA

PASSION FOR
TECHNOLOGIES



POWERTRAIN SOLUTIONS

INNOVATIVE DEVELOPMENT FOR YOUR ENTIRE POWERTRAIN

Full of power: The Powertrain division offers you innovative developments for your entire powertrain. The heart of the automobile sets our emotions free, and we are enthusiastic powertrain developers for passenger vehicles, commercial vehicles, and non-road uses. AKKA is one of the leading powertrain developers worldwide.

We develop the powertrain from concept to series production and closely accompany our customers in supervising the series production of the vehicle. While doing so, we use the latest developmental methods. We develop customer-specific solutions with full dedication. This is done efficiently and with full faithfulness to deadlines. We integrate our knowledge right from the first stages of planning and designing the production plants and processes. We provide you products that are ready for series production.

PORTFOLIO

- Powertrain design and validation
- Transmission development and powertrain integration
- Hybrid and e-drive systems
- Calibration and application gasoline, diesel, gas for engines
- Exhaust gas after-treatment
- Operation of test facilities and engineering departments
- Workshop operation
- Program management

OUR VALUES

- Implementing innovative solutions from proprietary research projects
- Turnkey variant application over all sub-assembly sections including exhaust gas after-treatment
- Synergies from programs from variant calibration projects
- Vehicle development projects with collaboration across different AKKA divisions (E/E, entire vehicle, industrialization)
- Integrated project planning from AKKA product development process and customer milestones
- Support in project specification to reduce product costs
- Experience in start of series production and series management

OUR CUSTOMERS

- Automotive
- Aerospace
- Railway



Automotive



Aerospace



Railway



Energy



Life Sciences



Telecoms



Space



Services and Informations Systems



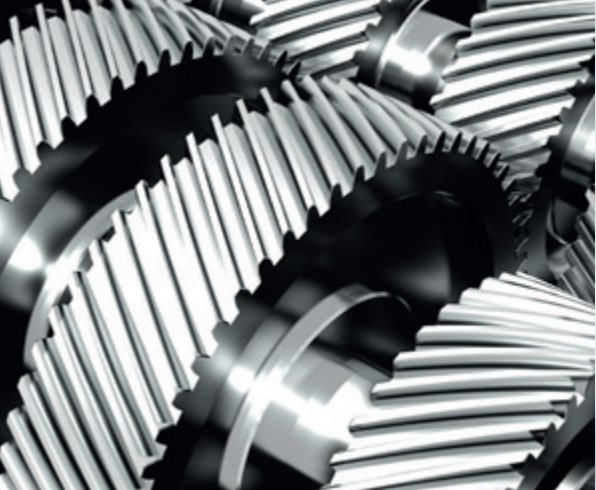
Defence



Oil and Gas



Consulting



OUR EXPERTISE IN POWERTRAIN DEVELOPMENT

POWERTRAIN DESIGN & VALIDATION

- Design base engine and transmission
- Design powertrain integration
- Simulation and computation
- Mechanical testing
- Noise Vibration Harshness

APPLICATION GASOLINE, DIESEL, CNG

- Combustion development and calibration
- Waste gas system application and calibration
- Control units and driveability, comfort calibration
- OBD calibration and homologation
- Test drives, validation testing, endurance testing



TRANSMISSION DEVELOPMENT AND POWERTRAIN INTEGRATION

- DCT application and calibration
- AT and hybrid transmission calibration
- Transmission mechatronics and testing
- ECU/TCU integration
- ECU systems

HYBRID AND E-DRIVE

- Concepts and controls
- Development of components and systems
- Integration and validation
- Road-to-Rig test bench

FURTHER TOPICS

COMMERCIAL VEHICLE ENGINE DEVELOPMENT

EXHAUST GAS AFTER-TREATMENT

OPERATION OF TEST FACILITIES AND ENGINEERING DEPARTMENTS

WORKSHOP OPERATION

PROGRAM MANAGEMENT