

AKKA

PASSION FOR
TECHNOLOGIES



TRANSMISSION MECHATRONICS, FUNCTIONAL DEVELOPMENT & APPLICATION

WE ARE BRINGING THE TORQUE TO THE ROAD

AKKA engineers have long-standing experience in the field of series production of transmissions and series processes, and the tools necessary for these processes, which have in part been produced in-house. As a result, our experts help to realize your developmental tasks – including for electrified powertrains – quickly, efficiently, and to the highest standards of quality.

We give you the whole range of transmission development know-how, starting with mechatronics, going on to functional development (software level 1 and 2) and application, and ending with application testing in the vehicle and on the Road-to-Rig test bench.

YOUR SATISFACTION DRIVES US ON

Our engineers and experts support and advise you on all topics relating to powertrain design and development whether for sub-assembly sections or turnkey projects. We jointly realize solutions that are ready for series production together with you.

SERVICES TO YOUR ADVANTAGE

- Mechatronics
- Functional Development
- Calibration
- Application Testing

OUR ADDED VALUE

- Model-based functional development according to the latest standards
- Application testing on the road and on the Road-to-Rig test bench
- Concurrent engineering due to a network of expert teams working closely with one another
- Utilization of our own test benches and those run by co-operating facilities
- Utilization of proprietary measurement technology, methods, and tools
- Long-standing expertise in the field of series production

OUR CUSTOMERS

- Passenger vehicles
- Commercial vehicles



Automotive



Aerospace



Railway



Energy



Life Sciences



Telecoms



Space



Services and
Informations Systems



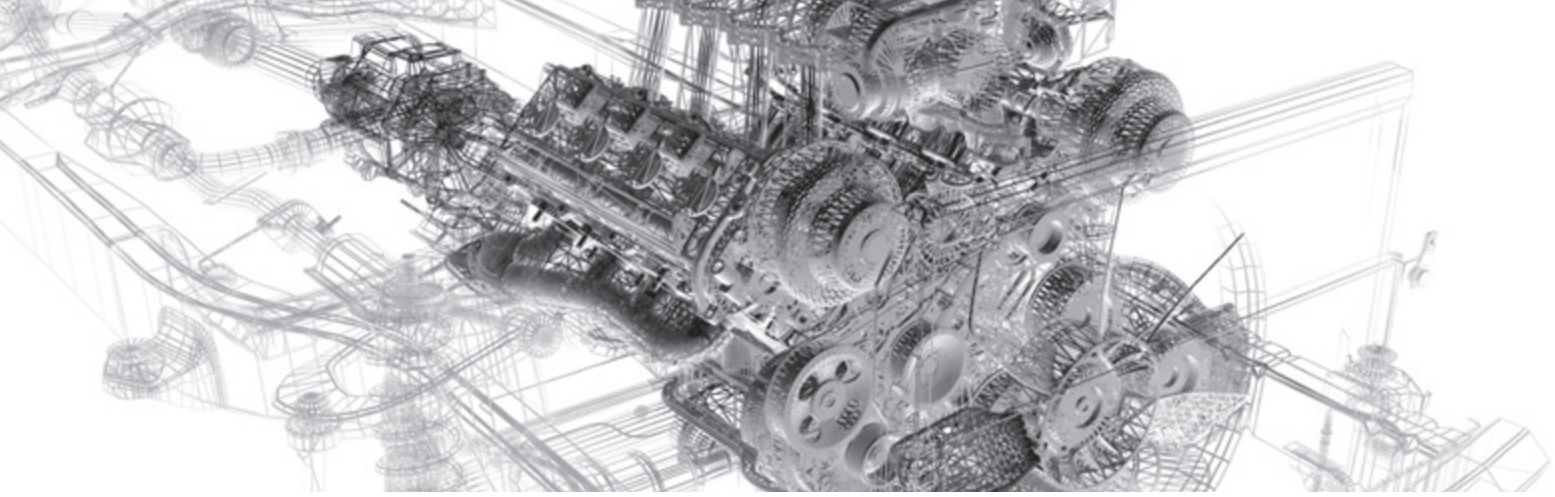
Defence



Oil and Gas



Consulting



OUR EXPERTISE

MECHATRONICS

- Design, development and testing of mechatronic components and assemblies
- Simulation of mechatronic systems of vehicle powertrains
- Carrying out component and assembly tests on our own test benches and in vehicles

FUNCTIONAL DEVELOPMENT

- System and requirements analysis
- Model-based functional development and simulation
- Implementation and validation corresponding to current standards using XiL, test bench and vehicle
- Supporting customer processes, methods, and development tools

APPLICATION / APPLICATION TESTING

- First application and variant application of AT/DCT/AMT and hybrid systems
- Compiling driveability requirements of the OEM/customer including the test scope definition
- Carrying out tests on the road, the proving grounds, and the Road-to-Rig (customer-focused operational profile, test cases, climatic and elements exposure)
- Tool based analysis, subjective appraisal of the gear shift quality
- Development and implementation of corrective measures
- Analysing and presentation of application results as required by the customer
- Carrying out worldwide tests
- Monitoring test vehicles and endurance vehicles with respect to friction, heat input, adaption behaviour, etc.
- Validation of application neutrality to hardware changes (clutch disk, spring, transmission oil)

