

CENTER OF EXPERTISE PROTOTYPE & TESTING WORKSHOP

OUR EXPERTISE

DEVELOPMENT WORKSHOP



Assembly and modification of test vehicles

Modification of engines, aggregates, components and parts

Body shell / car body design

Construction of special vehicles / show cars

Design and development of alternative power units

Preparation and post-processing of crash vehicles

Mobile measurement technology

Vehicle diagnostics and system application

PROTOTYPE FACTORY



Assembly of testable and drivable prototype vehicles, as well as pre-series and small series

Partial assembly of small modules to complete vehicles including chassis and powertrain

Design of body-in-white systems and manufacturing of individual parts up to the full body in white

Design and modification of prototypes

KEY FACTS

- Over 8000 m² production area
- Two assembly lines with nine stations each with filling station and end of line Q-Check
- Production up to 40 vehicles per week
- Certified and audited by ISO 9001:2015 and TISAX Assessment-Level 3(AL3)

OUR ADDED VALUE

- We provide the first phase of the testing & validation process
- Consistency of services covered by our prototype factory from development to the production phase
- We cover the entire physical phase in the development process



In close cooperation with the CoE Testing Operations, we validate modern mobility regarding components and systems as well as any kind of complete vehicle.

CENTER OF EXPERTISE PROTOTYPE & TESTING WORKSHOP

OUR PORTFOLIO

- Mobility Factory
- Manufacturing and vehicle construction
- Energy Analysis
- Processes & methods for energy storage
- Measurement technology

SELECTED LIGHTHOUSE PROJECTS

AKKA
PASSION FOR TECHNOLOGIES

MOBILITY FACTORY

ASSEMBLY FROM SINGLE PROTOTYPES TO SMALL SERIES

PROTOTYPE ASSEMBLY
Under conditions similar to series production, we assemble test-worthy and drivable prototype vehicles at all development levels. These prototypes are suitable for both full-series and the pre-production. With our expertise in prototype assembly we ensure your ramp up until SOP.

VEHICLE ASSEMBLY
We manufacture new and innovative mobility vehicles in small series with the involvement of customer-specific requirements such as the integration of autonomous driving functions in vehicles with alternative driving technologies. With our expertise we ensure your market launch in time.

FACTS AND FIGURES

- Over 8000 m² production area
- Two assembly lines with nine stations each with filling station and end of line Q-Check
- Separate pre-assembly working area and logistics area
- Five permanently installed car lifting platforms per line with WLAN screwdriving technology and one overhead crane
- Both lines are designed for four hour takt time
- There can be produced up to 40 vehicles per week
- Short changeover time for new products
- Process validation for development and production of small series and prototypes

OUR ADDED VALUE

PLANNING

- Production planning
- Logistics & transportation planning
- Resource scheduling
- Reduction of development costs
- Material & parts availability tracking

PRODUCTION

- Variable stations
- Takted flow production
- Flexible material supply
- Optimized personnel capacity

CONTROL

- Production control
- Reporting & controlling
- Project management
- Shop Floor Management

QUALITY

- Quality management
- Quality assurance
- Certified and qualified by ISO 9001:2015 and TISAX Assessment-Level 3(AL3)

Automotive | Aerospace | Rail | Energy | Life Sciences | Marine | Smart | Defense | Oil and Gas | Cloud/Big