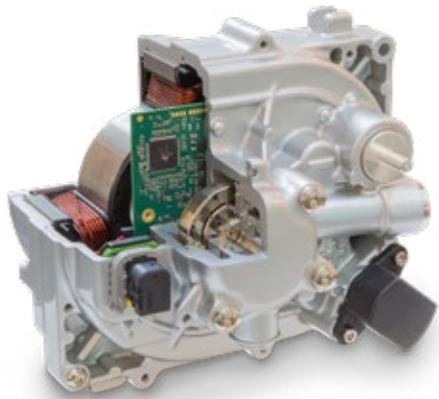




Contact

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Tailored Smart Production

Competence

- Assembly and EoL process based on detailed specification
- Supplier quality assurance and development
- High methodical competence and high qualified manpower
- Highly efficient, sophisticated & cost-effective assembly

Product Portfolio

- Traditional powertrain systems (transfer cases, axles, etc.)
- Alternative propulsion systems (eDrive products)
- Auxiliaries (electrohydraulic power steering pump, ePTO)



Testing Services

Testing & Verifications

- eDrive testing
- Environmental testing
- Engine test benches
- High altitude & climate testing
- Fatigue testing / material lab
- 4WD chassis dynamometer
- On-site proving ground
- Battery cell testing
- Driveline testing
- Thermal test bench



Engineering Services



Engineering Services
from One Source by
Magna Powertrain
Engineering Center Steyr

St. Valentin City Zone
Network of paths: 500m
50kph and 30kph cross
Foot- and bicycle paths
ADAS testing

St. Valentin Proving Ground
Off road: up to 7.2km
Straight length: 850m
On road: 2.2km
Width: 8m - 20m



engineering.mpt.magna.com

Engineering Center Steyr

Our Services

Magna is an internationally recognized engineering partner for passenger car, commercial and special vehicles, agricultural and transport applications, as well as for new mobility entrants.



- Vehicle Engineering
- Propulsion Engineering
- Software and Simulation
- Testing Services
- Tailored Smart Production

Our focus is on lightweight design, modularity and green transportation, while considering complete vehicle targets.



Vehicle Engineering

Styling

- Concept development
- Surface & visualization
- Serial design development
- Hardware modelling

Chassis

- Frame design
- Axle / suspension system
- Steering system
- Powertrain integration



System Engineering

- System architecture
- System requirements engineering
- Vehicle simulation
- Energy management

Cabin / Body

- Cabin concept & design
- Body in white development (BIW)
- Exterior and interior development

Vehicle Prototyping & Testing

- Prototype build-up
- HIL test benches
- Vehicle testing
- Measurement services

Propulsion Engineering

Propulsion System Integration

- Requirement engineering
- Functional safety
- Function & software development
- System application & validation



Thermal & Energy Management

- Simulation & system development



Engine & Fuel Cell Systems

- Calibration and validation
- System integration
- Cooling system development
- Prototyping & testing

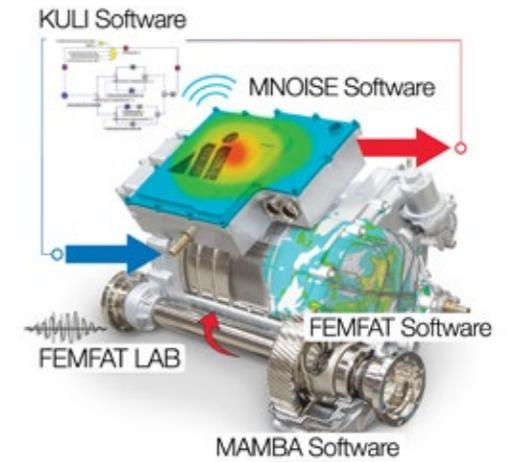


Advanced Mobility Functions

- Virtual software development
- Sensor & function definition
- Benchmarking

Software & Boardnet Development

- Concept to serial application
- Bus layout & control unit architecture
- Function & gateway development



Software & Simulation

Software Solutions & Products

- FEMFAT Fatigue analysis
- FEMFAT LAB Analysis of measurement and load data
- FEMFAT MELCOM Mechanical reliability analysis of electronics
- KULI Energy management
- MAMBA Dynamic simulation of jointed structures
- MNOISE Acoustic evaluation of components based on finite element (FE) simulations

Simulation Services

- Strength & durability
- NVH & vibration fatigue
- Vehicle dynamics
- CFD simulation for product development and full vehicle design improvement
- Full vehicle system simulation

