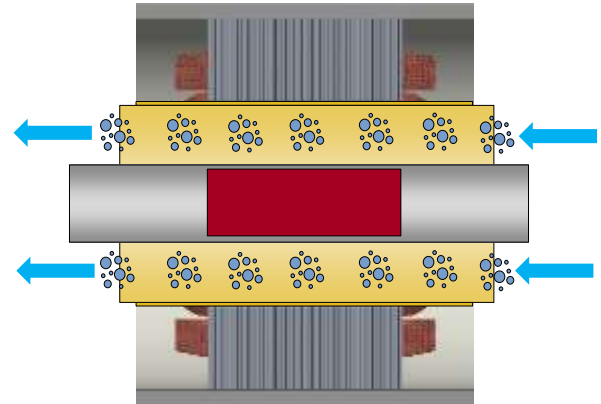
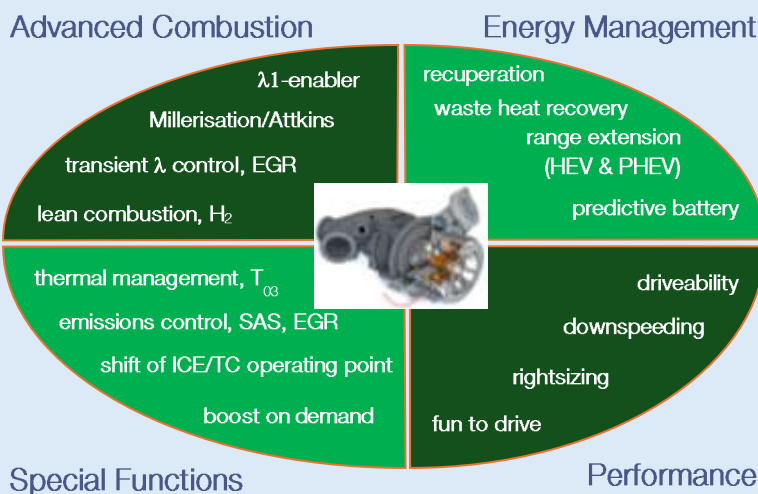




Application E-Turbo

The Cross-Charger is an actuator that electrifies any standard aftermarket exhaust gas turbocharger and upgrades it to an electrically assisted turbocharger (euATL).

Based on the Media Gap Motor (MGM) technology, high continuous power output as well as the full range of capabilities and functions of an electric turbocharger are enabled:



Cross-section of the MGM: If necessary, the media to be transported can be directed through the exceptionally large gap between the rotor and stator – through the motor.



Cross-Charger: By positioning the e-drive (MGM) in front of the compressor, high rotational speeds and continuous power output can be achieved without having to modify the core of the turbocharger – bearing system and the flow path.

Your Advantages

- Compact design, easily scalable to different power classes
 - Cost-effective electrification (>90% carry-over parts & one-size-fits-all)
 - Low eddy current losses / high efficiency of the electric drive (MGM)
 - System voltage: >12V as a booster / >48V additional energy recovery
 - Maximum continuous power achievable
- (Cost-)Efficient overall system



Media Gap Motor Technology

Technology – Brief Profile

Media Gap Motor (MGM) - Technology

- Ideal for high-speed turbo compressors
- Reduces thermal load on the drive / no rotor cooling required
- Simple design
- Easily scalable and integrable
- High overall efficiency

Our Offer For You

- Joint project for the design, evaluation, and development of an actuator (Cross-Charger) for your specific turbocharger(s).
- Prototype construction and testing.
- Support through to series production, if required.

G+L innotec GmbH

Engineering- & Industrialization
Service Provider / Think Tank

- Founded in 2009
- Spin-off from an automotive supplier
- Highly experienced with series production
- Patent holder for the Media Gap Motor Technology
- Technology supplier for applications in the automotive, off-highway, aerospace, and stationary sectors

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Globally Patented Technology

