



Application Turbo Compressor

1. Turbo Compressors (small to medium)

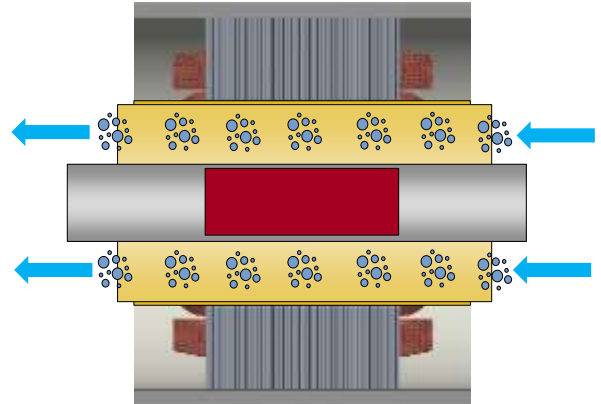
- **Purpose:** Oil-free compressed air for ventilation systems (wastewater treatment plants, food industry, cleanrooms)
- **Application:** Ideal as a standalone unit or as a module in large-scale systems

2. Auxiliary and Process Blowers

- **Purpose:** Localized high-pressure air supply
- **Application:** Diaphragm cleaning, local industrial process air, and gas-tight processes

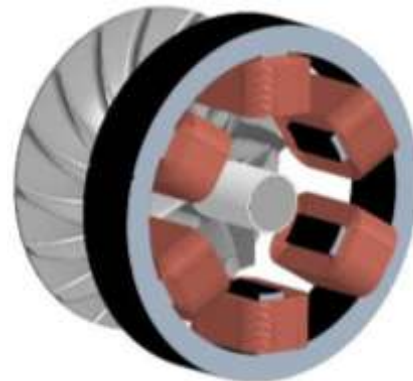
3. Hermetic Applications (ATEX)

- **Purpose:** Leak-free transport of corrosive or flammable gases
- **Application:** Industrial waste gas streams without dynamic seals



Cross-section Media Gap Motor (MGM):

If necessary, the media to be transported can be directed through the exceptionally large gap between the rotor and stator – through the motor.



Design principle: The rotor armature with a solid 2-pole magnet can be positioned behind or in front of the impeller, depending on requirements, bearing constraints, and design limitations.

Your Advantages

- Low rotor weight: Minimal inertia for rapid acceleration
- Minimal magnetic losses: high continuous power / high MGM efficiency
- Ideal for oil-free, aerodynamic bearings
- Low torque ripple & unbalanced magnetic pull (UMP)
 - Optimized rotor dynamics
 - Longer service life and minimal bearing losses
- Efficient overall system



Technology – Brief Profile

Media Gap Motor (MGM) - Technology

- Ideal for high-speed turbo compressors with aerodynamic (oil-free) bearings
- Reduced 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, if useful, integration of the Media Gap Motor technology for your specific / existing application
- General optimization or adaptation of existing systems
- Development of entirely new applications (including support through to series production)

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

