



VACUUM PUMPS

Prod. Group No. 4220



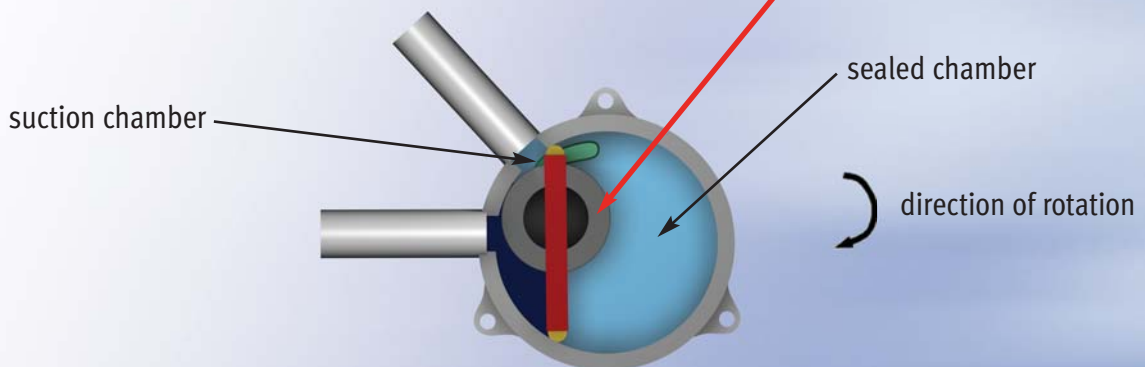
Vacuum Pumps

- used for break assistance
and other automotive application



Advantages:

- Net shape process
 - avoid machining operation
- Optimized P/M processing
 - substitution of machining operation
- Eliminate deburring operation
- Customer tailored design
 - according customer drawing
- Good surface quality



VACUUM PUMPS

Typical Automotive Applications Include:

- Vacuum pumps for brake assistance
- Automotive industry
- and more...

GKN Engineering Support:

- From technical questionnaire to design proposal:
 - FEA design optimization
 - Sample/prototype manufacturing
 - In-house machining operations

Material Developments:

- Material development and lab testing (static, dynamic, fatigue, wear)

