



GKN EXTERNAL PUMP GEARS FOR OIL PUMPS

Prod. Group No. 4120



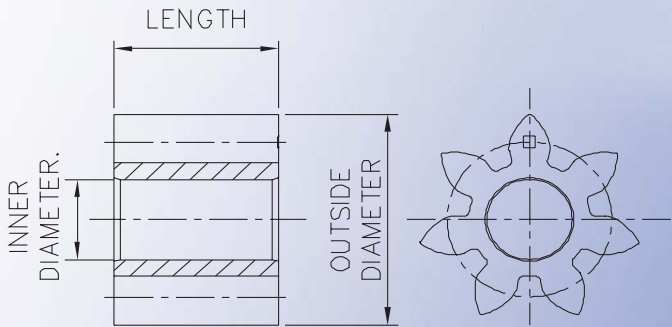
External Gear Pump



Advantages

- Net shape process
- Cost effective
- Lower noise
- Highly efficient
- Helical gears
 - Even lower noise
 - Higher load

- More than 100 different types of gear pumps available
(view catalog at: www.gknsintermetals.com)



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Standard Geometrical Shapes Include:

- Involute & cycloidal tooth profile
- Also customer tailored special profiles

Typical Automotive Applications Include:

- Passenger car engine lubrication pump
- Truck engine/transmission pump

GKN Engineering Support:

From technical questionnaire to design proposal:

- Gear calculations
- FEA design optimization
- Efficiency calculations
- Design proposal
- Sample/prototype manufacturing
- Prototyping of pump assembly for test purposes
- In-house machining operations
- Pump test rig

Material Developments:

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

