TRANSMISSION OIL PUMPS

SINGLE AND DUAL STAGE COMPACT HIGH EFFICIENCY PUMPS

MOTION AND MOBILITY
Since 1998, TRW Automotive has produced over 45 million fixed displacement external gear oil pumps for a wide range of steering and transmission applications.

ZF TRW’s fixed displacement pumps for transmission gearbox actuation and cooling have been enhanced to achieve maximum pump efficiency, leading to reduced CO2 emissions to meet the demand for Green solutions. At the same time, TRW’s outer gear pumps deliver superior startup performance even at -40°C, a significant advantage compared to other designs. NVH performance is world class given TRW’s years of experience with steering pumps. Contamination worries are minimized as TRW has the processes and capabilities to provide parts according to the strictest OEM cleanliness standards.

ZF TRW’s pump engineering team has broad product and program experience which mitigates launch risk and shortens the time to market.

Ostellato, Italy is ZF TRW’s core center of excellence for its pump technology and main manufacturing site. Co-location of engineering and operations in a single site ensures seamless transition from design to high volume production. Additional pump capacity is being localized in China to support the rapidly rising demand for ZF TRW pumps in Asia.

With multiple off the shelf standard pumps available, contact us and see how ZF TRW’s external gear pumps can help you meet your performance and CO2 goals.
FEATURES & CHARACTERISTICS

- Fixed displacement external gear pump
- Displacement of 0.25cc/rev up to 15cc/rev
- Pressure range: up to 130 bar
- Temperature range: -40°C up to 150°C
- Speed range: up to 6000 rpm
- Efficiency ranges:
  - Volumetric efficiency: up to 98%
  - Mechanical efficiency: up to 92%
  - Overall efficiency: up to 90%
- Single & dual stage pump configurations
- Can be powered via driveline input or an electric motor with option to make part of an integrated Motor Pump Unit (MPU)