

Magnetic trigger wheels for drivetrain

Trigger wheels supply a dynamic signal to sensors giving information on speed and angular position.

How it works

The magnetic poles provide a signal that is received by a sensor connected to a central control unit.

Available applications:

- Engine camshafts and crankshafts
- Transmission shafts
- Other rotating or reciprocating shaft applications

Designs available:

- Trigger wheels for axial and radial readings
- Sensor solutions with trigger wheels and optimized sensor
- Integrated into a sealing module, e.g. SKF ROTOSTAT

Features of the product:

- Superior pitch precision
- Excellent chemical resistance
- Excellent temperature resistance

Proven success record

Dedicated production facilities and long history of high volume magnetic trigger wheel manufacturing.

Benefits of the product:

- Magnetic signal allows reduction of size and cost of the sensor
- Simple installation because of:
 - easy integration into a sealing module
 - availability as a system complete with sensor
- Trigger wheel can be used as the running surface of the seal for a cassette system
- Weight reduction compared to traditional metallic trigger wheels
- Magnetization with different pole patterns at no additional cost
- High pitch precision for accurate sensing and optimum engine control
- Excellent chemical resistance and temperature range for long life



Through extensive experience, SKF can provide the most effective product with the following advantages:

- Complete technical service
- Developed to specific customer requirements
- Fully automated production line with 100% magnetization inspection
- Highly economic solution
- Unrivalled quality

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