



# Helical Gears

Helical Gear Sets run on non-intersecting parallel shafts, with teeth spiraling around the gear's shaft axes. This spiral design increases the amount of tooth surface in contact during operation and allows for the transmission of higher loads than those of similarly sized Spur Gears. The helix angle creates end-thrust forces that attempt, axially, to push gears away from each other.

GKN Sinter Metals is an industry leader in the manufacture of P/M Helical Gears. Typical product and technical support features include:

- ◆ Helix angles of 30°+
- ◆ Ferrous, Stainless Steel, and High-Alloy materials
- ◆ Standard Sintering, Sinter Furnace Hardening (SFH), Heat Treat, and Induction Heating processes
- ◆ Full design, application and consultative support in the areas of noise reduction, durability, material & process selection
- ◆ In-house gear performance testing
- ◆ State-of-the-art analytical gear measurement capabilities
- ◆ Net-shape face features incorporated into part design and production at little or no cost
- ◆ Full range of secondary operations available, if necessary



P/M helical gear with as-formed face features.

For further information on using P/M Technologies for your gear applications, call 1-248-371-0800; e-mail: [info@gknsintermetals.com](mailto:info@gknsintermetals.com)