HEAT TREATMENT

OPTIONS FOR BEARINGS



Heated in a Furnace with a Methanol/Propane Atmosphere



Soft Interior, Hard Exterior



Can Take Shock Loads







Carbon Diffuses into Steel Creating a High Carbon Layer



Creates Compressive Stress on the Surface



Used in When Long Life is Expected



Induction Heated & Quenched



Results are Similar to Case Hardening, but Localized



Selective Hardening

INDUCTION HARDENING





Uses Electromagnetic Induction to Heat Steel



Part Maintains Toughness



Used on Bearing Raceways



Heated, Quenched & Tempered



Uniform Hardness



Economical

THROUGH HARDENING





Carbide is Uniform
Throughout the Steel



Tempered to Increase Ductility



Appropriate for a Range of Applications

