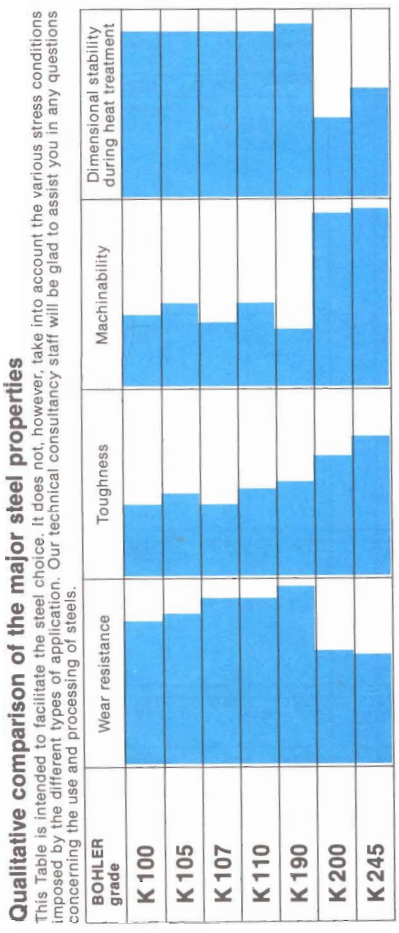
Qualitative comparison of the major steel properties

This Table is intended to facilitate the steel choice. It does not, however, take into account the various stress conditions imposed by the different types of application. Our technical consultancy staff will be glad to assist you in any questions concerning the use and processing of steels.



BOHLER grade	Applications
K 100	Standard grade of high carbon, high chromium steels. High-performance cutting tools (dies and punches), blanking and punching tools, woodworking tools, shear blades for cutting light-gauge material, thread rolling dies; drawing, deep drawing and extrusion tools; pressing tools for the ceramics and pharmaceutical industries; cold rolls for multiple-roll stands, measuring tools, plastic moulds.
K 105	Grade featuring excellent toughness and suitable for bath nitriding. High-performance cutting tools (dies and punches), blanking and punching tools, woodworking tools, shear blades for cutting light-gauge material, thread rolling dies; drawing, deep drawing and extrusion tools; pressing tools for the ceramics and pharmaceutical industries; cold rolls for multiple-roll stands, measuring tools, plastic moulds.
K 107	Superior wear resistance and better hardenability than X 210 Cr 12 steel. High-performance cutting tools (dies and punches), blanking and punching tools, woodworking tools, shear blades for cutting light-gauge material, thread rolling dies; drawing, deep drawing and extrusion tools; pressing tools for the ceramics and pharmaceutical industries; cold rolls for multiple-roll stands, measuring tools, plastic moulds.
K 110	Grade featuring excellent toughness and suitable for bath nitriding. High-performance cutting tools (dies and punches), blanking and punching tools, woodworking tools, shear blades for cutting light-gauge material, thread rolling dies; drawing, deep drawing and extrusion tools; pressing tools for the ceramics and pharmaceutical industries; cold rolls for multiple-roll stands, measuring tools, plastic moulds.
K 190 ISOMATRIX PM	Cold work tool steel produced by the powder metallurgy method. Extraordinarily high wear resistance, excellent toughness. High-performance cutting tools (dies and punches), blanking and punching tools, woodworking tools; drawing, deep drawing, cold and semicold extrusion tools; embossing tools, thread rolling dies, shear blades for cutting light-gauge material, pressing tools for the ceramics and pharmaceutical industries; cold rolls for multiple-roll stands, plastic extruder cylinders, screw conveyors, metal working tools, plastic mould inserts.
K 200	Drills, thread cutting tools, cold rolls, blanking and punching tools, measuring tools.
K 245	Clamping tools, shear blades, punches.