

BOHLER
grade
K 300
K 305
K 306
K 310*)
K 405*)
K 450*)
K 455
K 460
K 465*)
K 505*)
K 510

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	Dimensional stability during heat treatment	Machinability	Toughness	Wear resistance
K 300	Highly stressed machine knives for the cellulose, paper and fiberboard industries, flat-blade and circular shears for plate of up to 15 mm thickness.	Twist drills and taps, ejectors, punches, reamers, countersinks, engraving tools, metal cutting saws.	Shank tools for pneumatic equipment, deburring tools, cutting tools for heavy plate, cold shear blades, woodturning tools, shank tools for cutting tools (dies and punches) for heavy plate.	Cutting tools (dies and punches), blanking and punching tools, thread cutting tools, woodturning tools, machine knives for the wood, paper and metal working industries, measuring tools, plastic moulds.
K 305	Cutting tools (dies and punches), blanking and punching tools, thread rolling dies, shear blades.	Cold rolls, back-up rolls, straightening rolls, shape roll collars.	Cold punches, cold shear blades, woodturning tools, shank tools for pneumatic equipment, coining tools, hot work tools for low thermal stresses.	Cutting tools (dies and punches), blanking and punching tools, thread cutting tools, woodturning tools, machine knives for the wood, paper and metal working industries, measuring tools, plastic moulds.
K 306	Blanking and punching tools, cold pilger rolling tools, shear blades, machine knives for the cellulose, paper and fiberboard industries, cutting dies, hot work tools.			
K 310				
K 405				
K 450				
K 455				
K 460				
K 465				
K 505				
K 510				

Applications

BOHLER grade	Applications
K 300	Highly stressed machine knives for the cellulose, paper and fiberboard industries, flat-blade and circular shears for plate of up to 15 mm thickness.
K 305	Cutting tools (dies and punches), blanking and punching tools, thread rolling dies, shear blades.
K 306	Blanking and punching tools, cold pilger rolling tools, shear blades, machine knives for the cellulose, paper and fiberboard industries, cutting dies, hot work tools.
K 310	Cold rolls, back-up rolls, straightening rolls, shape roll collars.
K 405	Twist drills and taps, ejectors, punches, reamers, countersinks, engraving tools, metal cutting saws.
K 450	Shank tools for pneumatic equipment, deburring tools, cutting tools for heavy plate, cold shear blades, woodturning tools, shank tools for cutting tools (dies and punches) for heavy plate.
K 455	Cutting tools (dies and punches) for heavy plate.
K 460	Cutting tools (dies and punches), blanking and punching tools, thread cutting tools, woodturning tools, machine knives for the wood, paper and metal working industries, measuring tools, plastic moulds.
K 465	Cutting tools (dies and punches), blanking and punching tools, thread cutting tools, woodturning tools, machine knives for the wood, paper and metal working industries, measuring tools, plastic moulds.
K 505	Cutting tools (dies and punches), blanking and punching tools, thread cutting tools, woodturning tools, machine knives for the wood, paper and metal working industries, measuring tools, plastic moulds.
K 510	Twist drills and taps, ejectors, punches, reamers, countersinks, engraving tools, metal cutting saws.

Also available in stub steel finish.