

BEARING STEELS

This category includes the typical Cr steels (also known as “free hardening”) with an average C content of 1% which, after hardening in oil, are characterised by minimum distortion and high level hardness, wear and compression strength. These last two properties are upgraded by the high level micro-purity obtained with particular processes. Due to these properties, they are used universally to fabricate the balls, rollers and rings of rolling bearings. The 100Cr6 type is characterized by a good hardenability up to diameters of 30mm for the rollers and thicknesses of 25mm for the ring. It is also used in the construction of pumping units for diesel engines, shafts for electrical motors, parts for scales, spindles and stripping plates for textile machine, packing ring, etc.

As regards the casehardening steels that are used in this specific sector, these are processed on request with particular procedures and subject to severe tests according to requirements of use.