

Guide Rollers: a selection of different materials to optimize performances.



| Materials | Features | Hardness (HRC) | Life time | Thermal shock resistance | Price | Roughing Mill | Intermediate Mill | Finishing Mill | High Speed Block | Slitting Rollers |
|-----------------|--|-------------------|-----------|-----------------------------|---------|------------------|---|-------------------|---------------------|---------------------|
| MHK-1H | Hot-working tool steel with chromium, molybdenum and vanadium. Excellent resistance to thermal shocks, excellent deep hardening properties, high degree of hot toughness, high impact strenght. | 54-56 | 1 | Best | Best | R | R | ST | - | ST |
| MHK-1 | Cold-working tool steel, with high cromium, molybdenum and vanadium content. Excellent wear resistance, good toughness and dimentional stability; good edge retaining. | 55-60 | 1.5-3 | Standard | Good | - | P | R | P | R |
| MHK-C | Cold-working tool steel, with high cromium content. High wear-resistance, good dimentional stability and hardening properties. Moderate toughness. | 60-62 | 1.5-2 | Standard | Best | - | Р | R | P | R |
| MHK-X | High-speed steel, centrifugally casted, with chromiun, vanadium, molybdenum, tungsten and titanium content. Excellent wear resistance, good toughness, good thermal shock resistance. | 54-61 | 2-4 | Good | Medium | - | P | R | P | R |
| Ferrodur | Titanium carbide on a metal-based matrix containing chromium and molybdenum. Very high hardness and wear resistance. Excellent dimentional stability. 20% ligther than steel rollers. Reduced re-grooving thickness. | 69-71 | 6-10 | Critical | Highest | - | - | Р | R | - |
| R: reccommended | | | | | | | ST: reccommended during plant startup P | | | |





