The KMX3 is high-wear-resistance, high-tenacity, and high-cost-performance high- speed tool steel for cold plastic machining that features hardness as high as 64 HRC or more.

Features of KMX3

1.Superior cost-performance ●* Superior performance equivalent to the SKH51 offers high cost-performance.

2.Superior tenacity ●Greater tenacity than the SKH51 suppresses cracks and chipping, which are the causes of a shorter service life of tools.

3.Safe tool life ●Hardness as high as 64 HRC or more, and wear resistance equivalent to the SKH51 ensures wide applications to tools.

Applications

●Cold punching

●Trimming dies

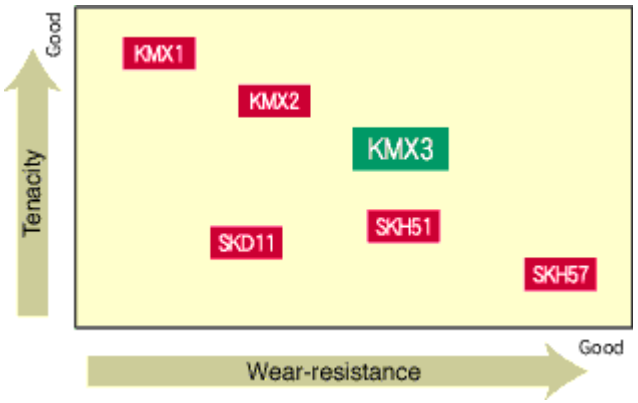
●Coining dies

●Thread-rolling dies

●Cold-forming rolls

●Slitter knives

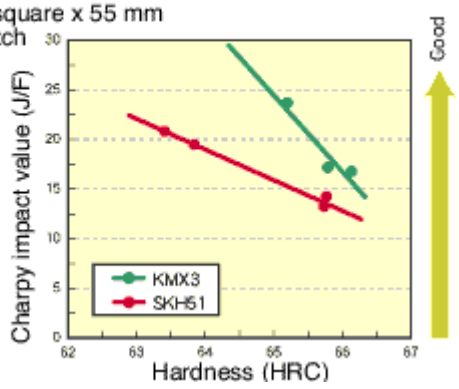
Position of KMX3



Tenacity

Higher tenacity than the SKH51 by approximately 20%, even in the hardest range, ensuring a very long life.

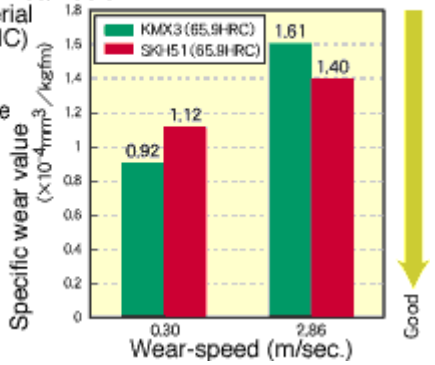
Test condition
●Test piece dimensions
10 mm square x 55 mm
10 R notch



Wear-resistance

Offers wear-resistance equivalent to the SKH51.

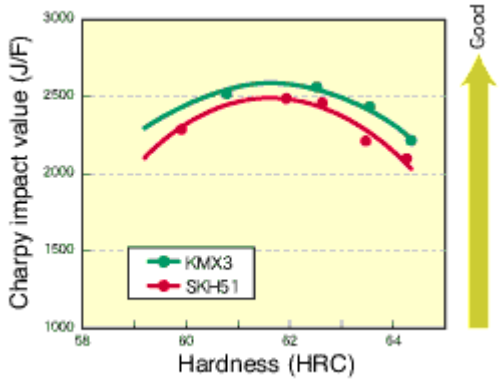
Test conditions
●Tester
Okoshi-type wear tester
●Mating material
SUJ2(45RHC)
●Load
6.3kgf
●Wear-distance
400m

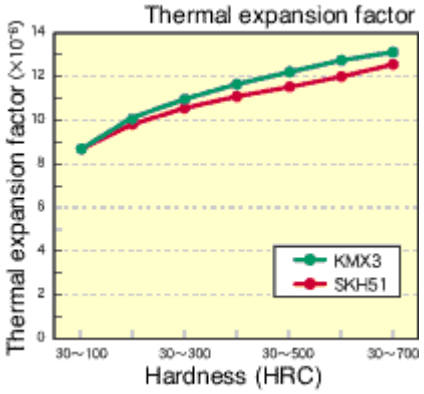


Tensile strength

Physical characteristics

Offers tensile strength superior to the SKH51.





Thermal processing characteristics

Recommended thermal processing conditions

Hardening	Annealing	Hardness
1000~1170℃ Oil cooling, compressed gas cooling	540~600℃ hot bath cooling Air cooling (performed twice)	62~65 (HCR)

Test conditions
- ●Test-piece dimensions
  10×20×10mm
- ●Hardening timel
  Oil cooling for 10 min.
- ●Annealing time
  Air cooling for 90 min.
  (performed twice)