

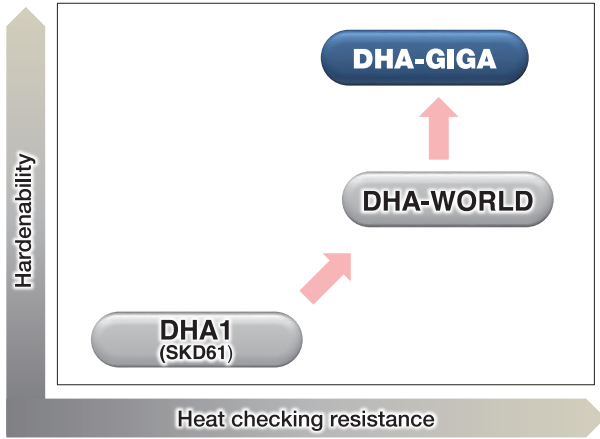
DHA-GIGA™

Extra-Large Die-Casting Die Steel

Features

- Die steel suitable for extra-large dies used in die-casting machines with clamping forces exceeding 6000 tons.
- High toughness is achieved by increasing hardenability, which helps suppress large cracks in the dies during casting.

Conceptual diagram of die-casting die steel

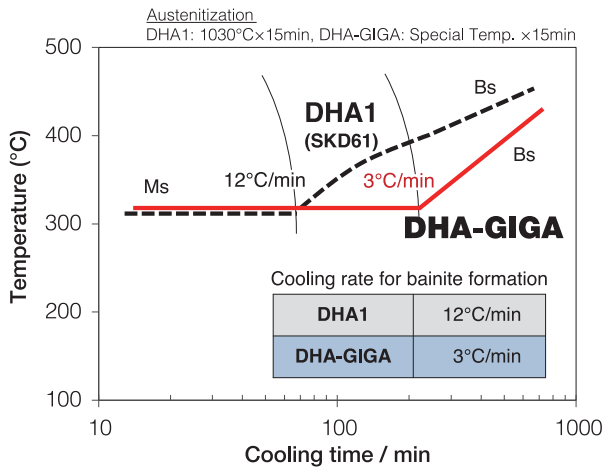


Comparison of application to extra-large die-casting dies

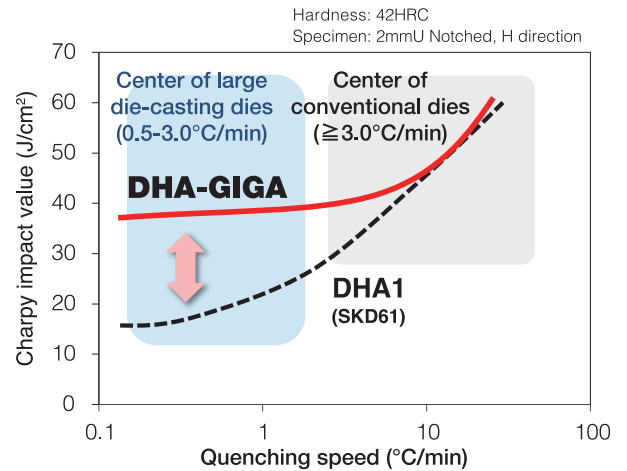
	Hardenability (Toughness)	Heat checking resistance	Comprehensive evaluation of extra-large die-casting dies
DHA-GIGA	◎	○	◎
DHA-WORLD	○	○+	○
DHA1 (SKD61)	△	△	△

(◎...Excellent ○...Good △...Fair)

CCT diagram

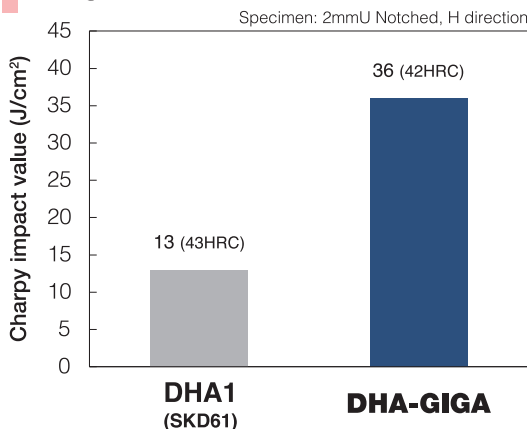


Cooling rate and Toughness

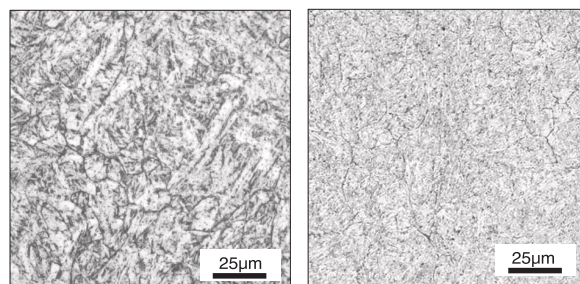


Large block heat treatment evaluation

Toughness



Microstructure



DHA1 (SKD61)

DHA-GIGA

Test conditions

DHA-GIGA...Size: 600×690×759mm (Approx. 2.5t) Heat treatment: Wuxi Summit Nikka Metal Products Co., Ltd.
SKD61 ...Heat treatment of test pieces with the same cooling rate as DHA-GIGA



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