CK BORING SYSTEM BBT : A80 HSK : C26 FACE MILL ARBOR TYPE H BBT : A119 BDV : B17 HSK : C29 TURNING ADAPTER HSK : E22 BIG CAPTO : E38 BORING BAR Details : F11

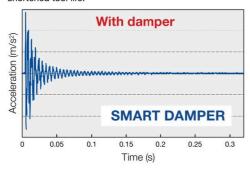
Built-In Damper **SMART DAMPER** PAT.

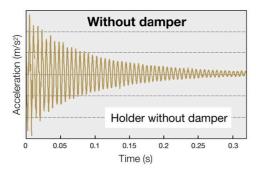




Comparison of oscillatory waveforms with and without dampers

The Smart Damper incorporates a damping mechanism and reduces chatter instantly. The Smart Damper solves various problems caused by chatter due to long projection, such as inadequate surface roughness, defective dimensions of machined workpiece and shortened tool life.





Chatter suppressing mechanism



An incorporated unique damper that functions as both a counter damper and friction damper.

Patent-pending counter weight maximizes effect of the friction damper. Chatter is absorbed effectively and higher machining accuracy is achieved.

Finish Boring of Ductile Cast Iron (FCD500)

	×	= Chatterir	ng 🔾 = G	ood © Excellent surface finish	
Boring holder	Cutting speed Vc (m/min) 25 50 100 150				
Holder without damper	0	×	100 ×	150	
Built-in Damper SMART DAMPER BBT50-CKB6DP-380	0	0	0		

Results: 6 times greater productivity.

Superior surface finish and better tool life due to increased cutting speed.

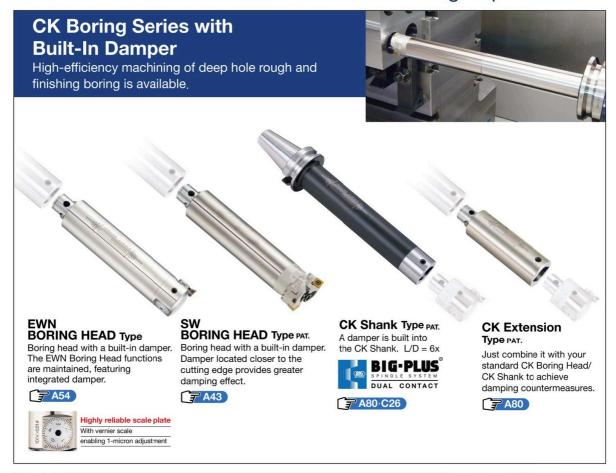
Cutting Conditions

Machine	Horizontal MC	BIG-PLUS BBT50			
Boring diameter	ø68mm				
Depth	408mm (L/D=6)	1			

Insert radius	R0.4
Feed	0.2mm/rev
Depth of cut	0.3mm/ø



Abundant series available for various machining requirements









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