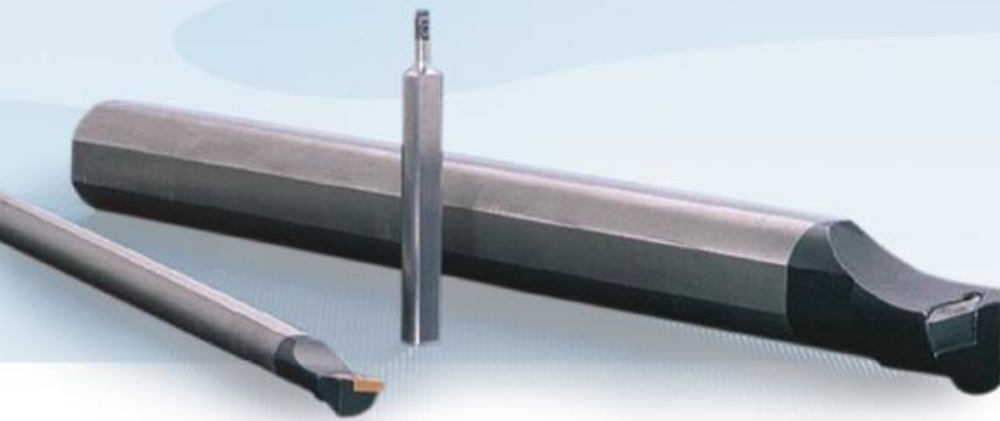


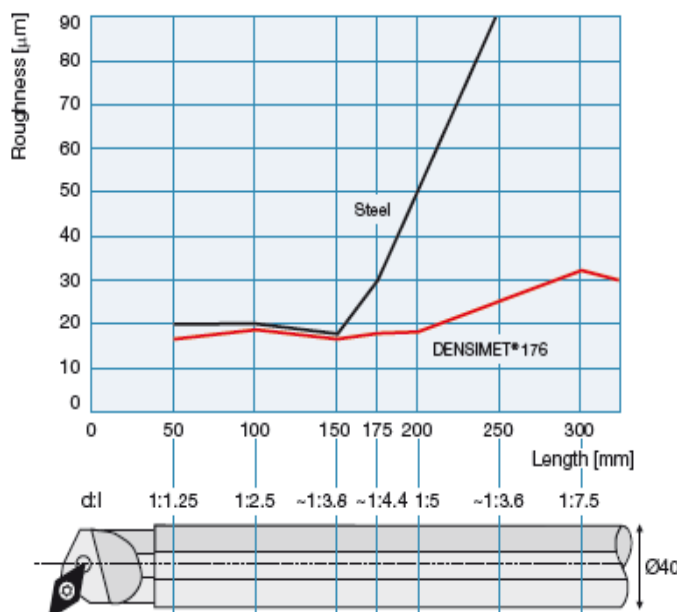
High Performance Material for
Anti-Vibration Boring Bars

DENSIMET® 176



DENSIMET® materials are heavy metals with a high tungsten content (93%) and a NiFe or a NiCu binder phase. They are distinguished by their particularly high density, high mechanical resistance and excellent strength and ductility.

Thanks to the combination of a high density and a high young's modulus, DENSIMET® 176 is the perfect resolution for the absorption of vibrations on overhangs up to 15 times the shaft diameter.



Surface finish comparison of fine-turned test bars

Material properties

Properties	Unit	DENSIMET® 176
% Tungsten ± 0.5	%	93 %
Binder	-	Ni + Fe
Density ± 0.2	-	17.6
Hardness	HV 30	305
UTS (1)	MPa	900
Yield Strength (1)	MPa	700
Elongation (1)	%	> 10
Modulus of elasticity	10 ³ MPa	350