

CTB004 LAUNCH PACK

Internal use

July 2017

FOR INTERNAL USE ONLY

AGENDA SLIDE

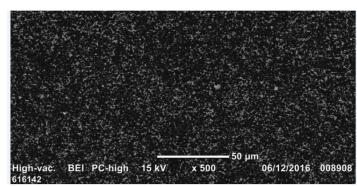
- 1. CTB004 OVERVIEW
- 2. TARGET APPLICATIONS
- 3. FORMAT & AVAILABILITY
 - 4. TECHNICAL RESULTS



CTB004 PRODUCT DETAILS

CTB004 OVERVIEW

- CTB is a 4 micron PCD with excellent abrasion resistance
- Fills a gap in our fine grain PCD Metal portfolio



Microstructure @ 500 x magnification

High Surface Finish CTB004 Positioning High Surface CTB004 CTB010 CTH025 CTX002 CTM302 Ultra-Fine Grain Coarse Grain

TARGET APPLICATIONS

Target Competitor 2,4 and 6 micron PCD grades

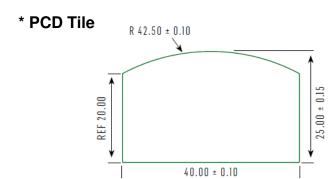
Industry	Application	
Consumer Electronics	Edge milling of aluminium case	
	CTB004 can provide longer tool-life vs CMX where abrasion is a factor	
	CMX850 best performing for surface finish and highly interrupted cut	
Auto/Aero	Target 'turning' applications where higher surface finish is required vs CTB010 for aluminium	
	CTB004 secondary option for Round Tool formats	

FORMAT & AVAILABILITY

PCD Metal					
Item No Item Description		PCD Layer	Overall Height (+/- 0.05mm)	PCD Layer Thickness (mm)	
184-200-0007-01	CTB R70.0-360-1603PL 004	0.3mm	1.6mm	0.20 to 0.45	Segments Available:
184-200-0004-01 CTB R70.0-360-1605PL 004		0.5mm	1.6mm	0.35 to 0.65	inc +/- 0.025mm
184-500-0018-01	CTB TL40.0-20.0-42.5-1605PL 004*	0.5mm	1.6mm (+0/-0.04mm)	0.40 to 0.60	

PCD Wood	
Not available as standard	

Material Availability		
Samples	Available for PCD Tile format	
Lead time	Contact Customer Service. During ramp up phase contact CSC or Account Manager	





TECHNICAL DETAILS

CTB004 TEST DETAILS

Work-piece = Metal matrix composite (40%vol SiC, 60%vol Al)

Continuous OD turning (abrasion test)

Cutting speed, Vc = 500m/min

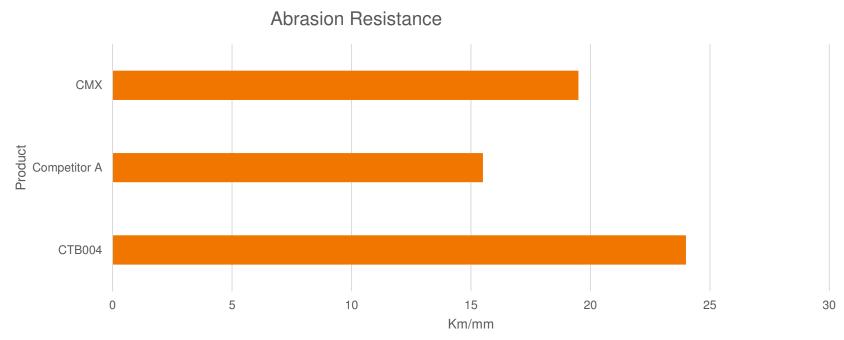
Feed rate, f = 0.1mm/rev

Depth of cut, ap = 0.25mm



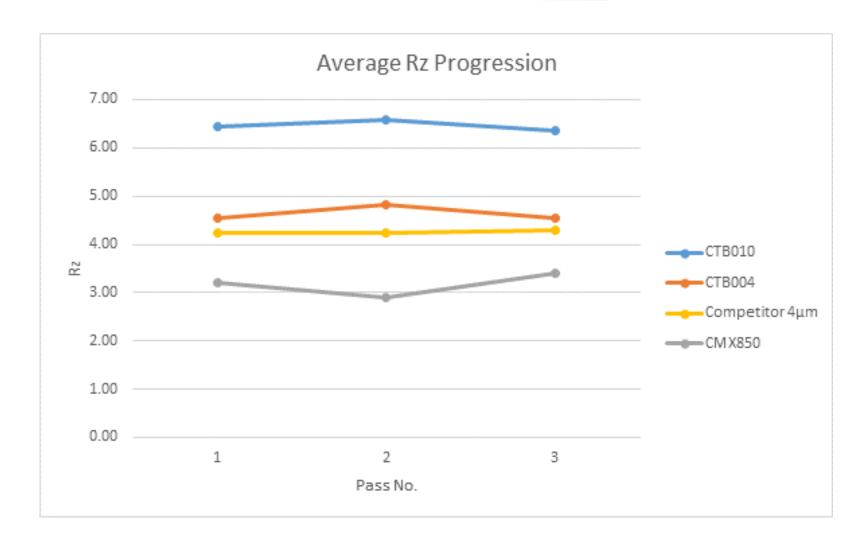
CTB004 – EXCELLENT ABRASION RESISTANCE VERSUS MAIN COMPETITOR

MMC TURNING TEST



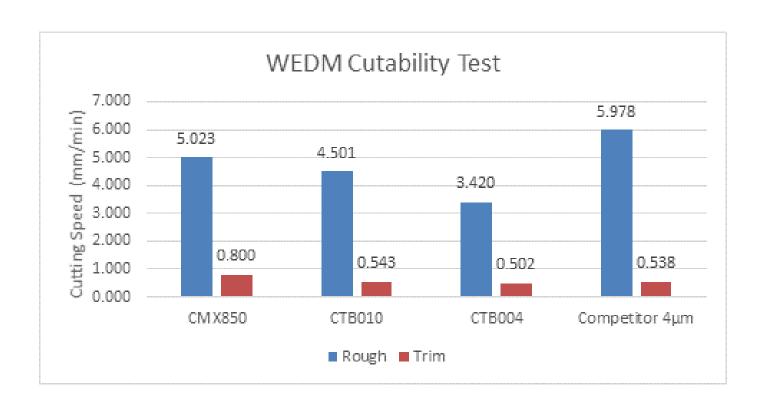
^{*}Abrasion resistance described as the inverse of wear rate, thus larger number shows greater abrasion resistance

SURFACE FINISH





WEDM CUTTING



Contact us

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This product has been manufactured under the controls established by a Bureau Veritas Certification approved management system.