ADICO PCD

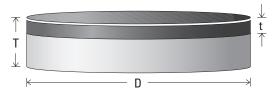


ADICO offers three(3) industrial standard grade (fine, medium, coarse) PCDs for machining both non-ferrous and non-metallic materials. For optimum performance, ADICO engineers have developed two(2) new innovative PCD properties in addition to standard-type ("S"-type) in each grade PCD as shown below. Two(2) new properties are tougher-type PCD ("X"-type) for higher chip resistance and ultrahard-type PCD ("U"-type) for higher wear resistance. In addition ADICO offers new grade for submicron PCD as "UFS".

PCD Grades Types	FINE [2-4 μm]	MEDIUM [8-10 μm]	COARSE [25-35 μm]	Properties
Tougher ("X") type	FX	MX	СХ	Higher chip resistance / interrupted cutting
Standard ("S") type	FS	MS	CS	Balanced grade
Ultrahard ("U") type	FU	MU	CU	Higher war resistance / abrasive material
Submicron grade	UFS (0.5-0.9 μm)			Highest chip resistance / best workpiece surface



Blanks



- D (Blank Diameter):
- (Blank Thickness):
- (Diamond Thickness):

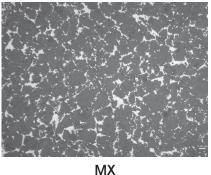
62 mm

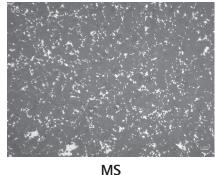
1.60 mm, 2,00 mm, 3.20 mm, 4.80 mm

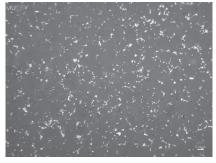
 $0.50 \pm 0.10 \text{ mm}$

 $0.35 \pm 0.10 / -0.15 \text{ mm}$

 $1.00 \pm 0.15 \, \text{mm}$







MU

ADICO PCD



ADICO PCD Cutting Tool Blank Application Areas

ADICO PCD	Application Industries (Automotive, Hydraulic, Aircraft, Aerospace, Construction)		
Workpiece Materials	Non-ferrous alloys, Plastics, Woods, MMC, Composites		
Fine grain PCD ("F-grade")	Aluminium alloys & Copper alloys		
FX	Si-Al alloys Plastics, Fiberglass		
FS ————	Si-Al alloys (for higher Si-content) Plastics, Fiberglass		
FU	More wear-resistant material		
UFS————————————————————————————————————	High impact resistance, Mirror finishing Al alloys, composite material, Titanium, etc		
Medium grain PCD ("M-grade")	Woodworking & Metalworking		
MX	Woodworking Particle board, MDF, Cement board		
MS ————	Metal working (reaming, milling, machining) (automotive parts) Standard woodworking material (abrasive plastics, abrasive wood-based boards)		
MU	Difficult-to-machine material (carbon-fibre composite, ceramic parts, plastic lens, ${\rm Al_2O_3}$ -coated laminated floor)		
Coarse grain PCD ("C-grade")	Abrasive materials		
CX ———	High Si-Al alloys (20% Si) Metal matrix composites (MMC) Plastic composites (glassfiber) Soft gray cast iron (crank-shaft bore machine)		
cs ———	For special purpose with higher diamond content (MMC-milling, ceramics, WC-machining)		
CU ————	For difficult-to-machine material (carbon-fibre composite body, PCB, SiC reinforced Al-alloys, Kevlar)		