## ADICO PCD

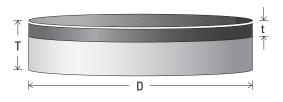


ADICO offers three industrial standard grade (fine, medium, coarse) PCDs for machining both non-ferrous and non-metallic materials. For optimum performance, ADICO engineers have developed two new innovative PCD properties in addition to standard-type ("S"-type) in each PCD grade as shown below. These two properties are tougher-type PCD ("X"-type) for higher chip resistance and ultrahard-type PCD ("U"-type) for higher wear resistance. The portfolio also includes the upgraded (improved abrasion resistance) submicron grade "UFSII".

PCD Grades Types	<b>FINE</b> [2-4 μm]	<b>MEDIUM</b> [8-12 μm]	<b>COARSE</b> [25-35 μm]	Properties
Tougher ("X") type	FX	MX	СХ	Higher chip resistance / interrupted cutting
Standard ( <b>"S"</b> ) type	FS	MS	CS	Balanced grade
Ultrahard ("U") type	FU	MU	CU	Higher wear resistance / abrasive material
Submicron grade	UFSII (<1 μm)			Highest chip resistance / best workpiece surface



## Blanks



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

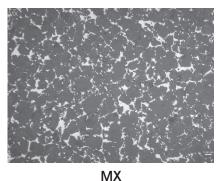
62 mm

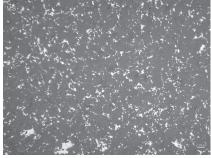
1.60 mm, 2,00 mm, 3.20 mm, 4.80 mm

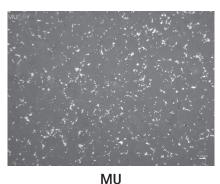
 $0.50 \pm 0.10 \text{ mm}$ 

0.35 + 0.10 / -0.15 mm

 $1.00 \pm 0.15 \text{ mm}$ 







MS

## **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		
UFSII ———————————————————————————————————	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)		