

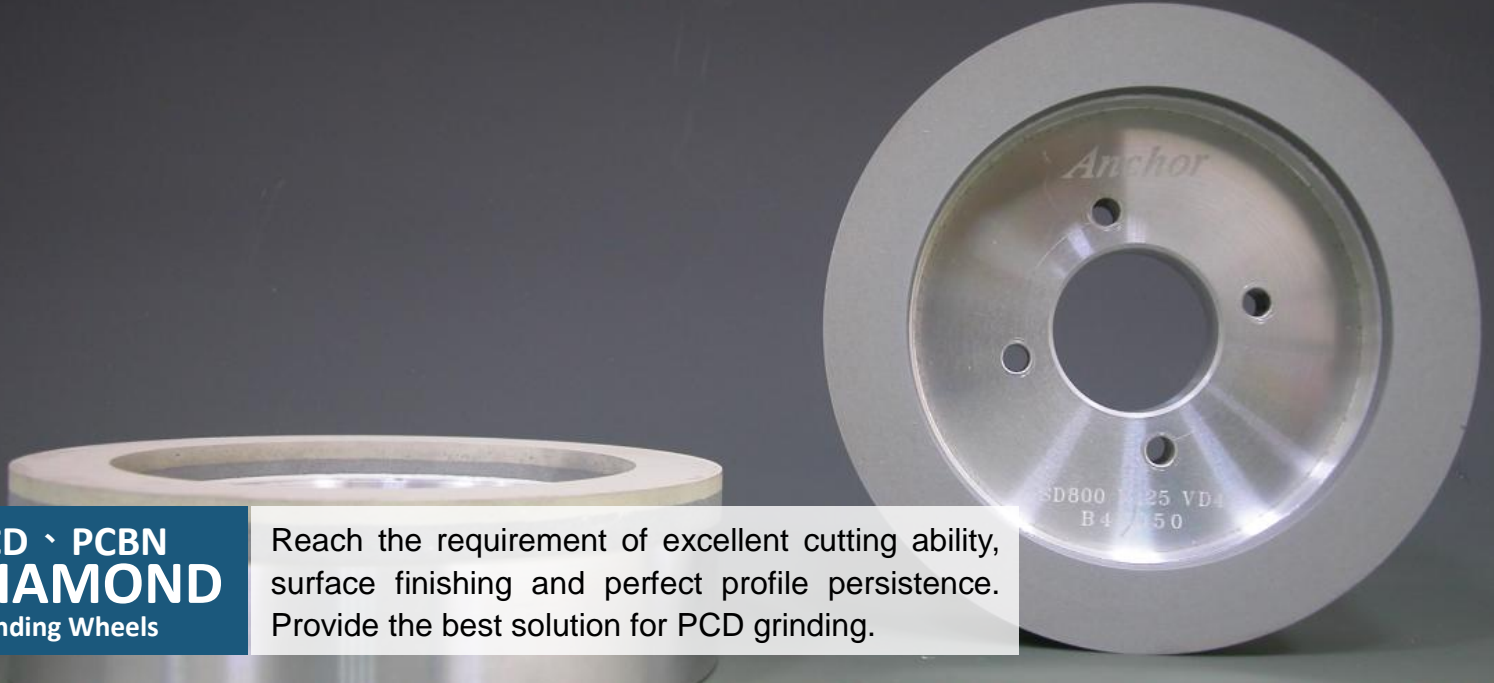
# Anchor<sup>®</sup>

Since 1946

Partner for ultimate success

# PCD 、 PCBN DIAMOND

VITRIFIED GRINDING WHEELS



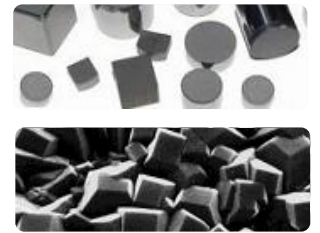
PCD 、 PCBN  
DIAMOND  
Grinding Wheels

Reach the requirement of excellent cutting ability, surface finishing and perfect profile persistence. Provide the best solution for PCD grinding.

## ■ TYPES OF MATERIAL

### ■ PCD (Polycrystalline diamond) and CVDD (Chemical Vapor Deposition Diamond)

Polycrystalline Diamonds can be classified into two types, PCD and CVDD. PCD is produced by sintering together selected diamond particles at high pressure and temperature and able to be formed in various shape and size. CVDD has better thermal conductivity and chemical stability, and provides better surface finish than PCD.



### ■ PCBN (Polycrystalline Cubic Boron Nitride)

The hardness of CBN is only second to diamond, CBN has excellent chemical stability even in high temperature (over 1000°C) and can be formed in various profile and size.



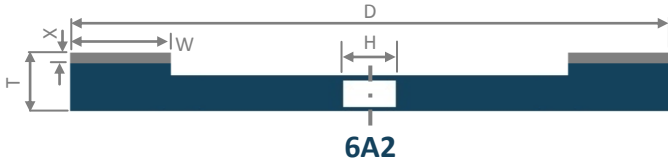
### ■ Single Crystal Diamond

Single Crystal Diamonds are generally classified into two types, Natural Diamond and Synthetic Diamond. Natural Diamonds looks colorless and transparent, have better abrasion resistance and is the hardest materials for cutting tools. Synthetic Diamond is formed in high pressure and looks translucent yellow. Its' hardness is a bit lower than Natural Diamond. In general, Natural diamond has better toughness and provides better surface roughness.



## SPECIFICATION

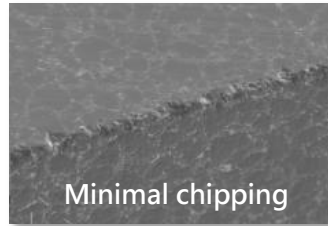
### STANDARD SHAPE and SIZE (unit: mm)



D	T	H	E	W	X
125	40	40	15	5	5
150				10	6
				15	10
				20	

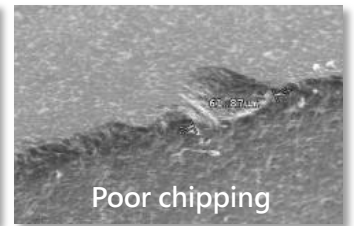
### EXPERIMENTAL DATA

Anchor's grinding wheel for PCD and PCBN has better life time ( **1.5** times better than competitor ). And the figures below show that Anchor wheel offers minimal chipping and better quality than competitor's which results in very poor chipping on the work piece.



Minimal chipping

Anchor



Poor chipping

Competitor

### STANDARD SPECIFICATION

Abrasive	Grit Size	Hardness	Concentration	Bonded	Shape	Diamond Thickness
SD	Rough Grinding 500 600 800	N	150	VPCD	6A2	5 6 10 (unit : mm)
	Finish Grinding 1000 1200 1500					
	Super Finishing 2000 2500 3000 3000 up					

- For any further inquiry, please contact us via the company information below.

## COMPANY INFORMATION

## CARBO TZUJAN INDUSTRIAL CO., LTD.

- For details, please contact the following agency.

**Anchor**<sup>®</sup>

### INFORMATION:

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### CONTACT US:

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- E-mail : [webmaster@carbo.com.tw](mailto:webmaster@carbo.com.tw)

- While using grinding wheels, it is essential that you observe correct procedures and work safely to protect yourself.