



specialized in production of high-end diamond and boron nitride wheel.

We have a customer service team of highly trained engineers to optimise grinding techniques. And we continues to strive towards excellence in providing the very best customer satisfaction through product innovation and improvements.

PROFESSIONAL GRINDING EXPERT

Tool and Cutter grinding wheels

CNC Insert grinding wheels

Polishing Slurry & grinding wheels (sapphire/ceramic/magnetic material)

Surface and OD grinding wheels



OUR SERVICES FOR THE BELOW MATERIALS PROCESSING AT A GLANCE

Tungsten steel eg. Tool 、Cutter、Saws

HSS / Stainless Steel eg. Tool . Cutter . Piston ring

Cermet eg. Tool and Cutter etc.

Optical Glass eg.Sapphire Precision Optics

Others eg. silicon wafer etc.





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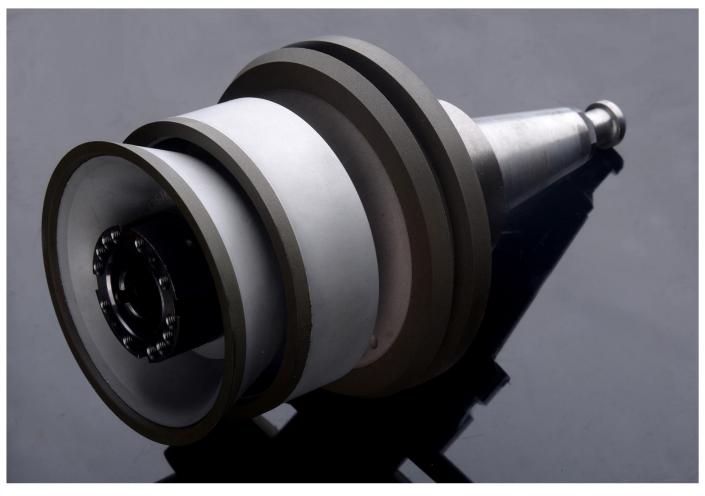


Application

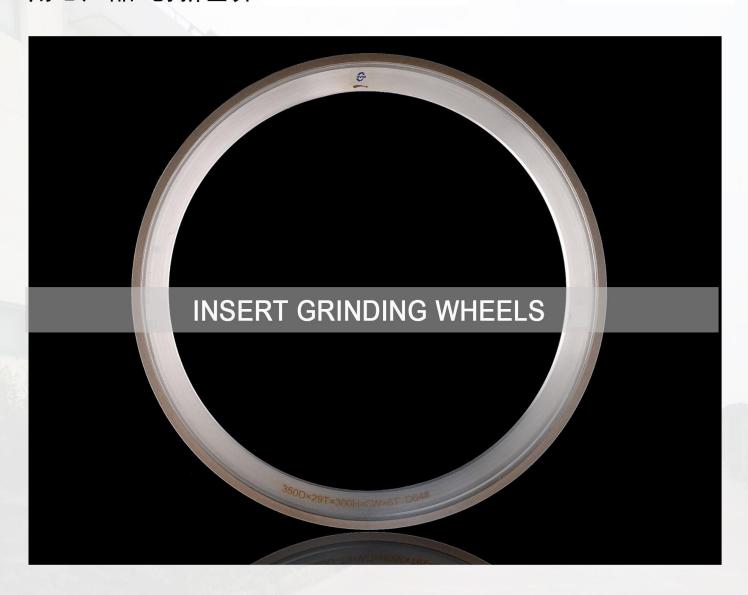
Grinding of TC and HSS cutting tools

HYW offers a leading solution for high-performance grinding of tungsten carbide and HSS cutting tools. The excellent cutting performance and the cost-efficient polishing optimises your grinding process.

Customer-specific wheel designs available on request.









Workpiece material:

Cemented carbide ,Cermet and Ceramic ,etc.

Features:

High precision & Efficient grinding Reduced chipping ,Excellent surface finish Excellent grinding ratio & Cost reduction Short cycle time / Long tool life

Grinders

Wendt, EWAG, Agathon, etc.



Surface / OD grinding Wheel

Centerless Grinding Wheels
Segment Deviation Grinding Wheels
Grinding Wheels for piston ring / Compressors
Indexable inserts Grinding Wheels



Cost reduction:

Excellent grinding ratio

Optimum edge retention:

The special combination of bond, diamond quality and grit size extends the dressing interval and guarantees consistently highy tool quality

Easy to profile:

Due to the new bond, the grinding wheel can be trued in the shortest possible time.

Shorter grinding times:

The optimum combination of the double grit to the new product line delivers higher stock removal rates and shorter grinding cycles.

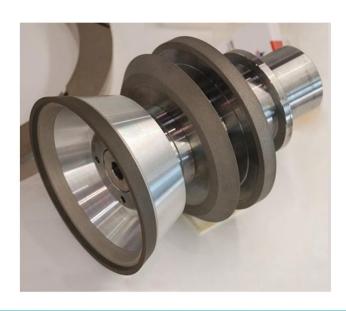


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Grit Size

For optimum stock removal capability it is generally of advantage to use the largest grit size allowing surface quality requirements.

- If the infeed speed is fast, the depth of cut should be shallow
- If the infeed speed is small, the depth of cut should be deep.



CHINA&USA Standard	FEPA Standard		
70/80	D181		
80/100	D151		
120/140	D126		
140/170	D107		
170/200	D91		
200/230	D76		
230/270	D64		
270/325	D54		
325/400	D46		
400/500	D40		
500	D35		
600	D30		
800	D25		
1000	D15C		
1200	D15B		
1500	D15A		
2000	D10		
3000	D7		
5000	D5		
8000	D3		

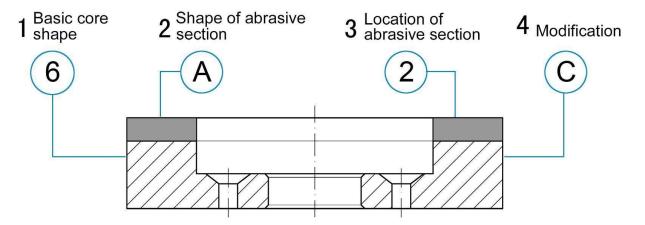
How to order Wheels

Please inform us of the following information when you place an order

- 1/ Shape and Size of the wheel
- 2/ Details of the wheel (Abrasive type / Grit size / Concentration / Bond)
- 3/ Quantity and Delivery date
- 4/ Wheels can be customized if additional information is provided
 - a、Workpiece Material / Machining allowance / Surface roughness / Dimensional accuracy
- b. Machining Method
 Cylindrical grinding / Surface grinding / Form grinding, etc.
- c. Machining Conditions
 Machine used Manufacturer / Model /Horsepower / wheel peripheral speed / Work speed / Depth of cut
 / Cycle time / Cutting fluid



Example: 6A2C



1 Basic core shapes

Symbol Shape 1 1 2 1 3 1 4 1 9 1 11 <90°</td> >45° 1 12 <45°</td> 14 1 15 1

2 Shapes of abrasive cross section

Symbol	Shape	Symbol	Shape	Symbol	Shape
A		EE	$\langle \langle \rangle$	LL	
АН		ET		M	
В		F		P	
ВТ		FF		Q	
C		G		QQ	
СН		GN		R	
D		Н	1	S	
DD		J		U	
Е		K		V	
ER		L		Y	



3 Locations of abrasive section

Symbol	Location	Shape	Symbol	Location	Shape
1	Periphery		5	Outside bevel or Arc	
			6	Part of pheriphery	
2 Side	Side		7	Part of Side	
	Side		8	Throughout	
3	Sides	77777	9	Corner	
4	Inside bevel or Arc		10	Annular	

4 Modifications

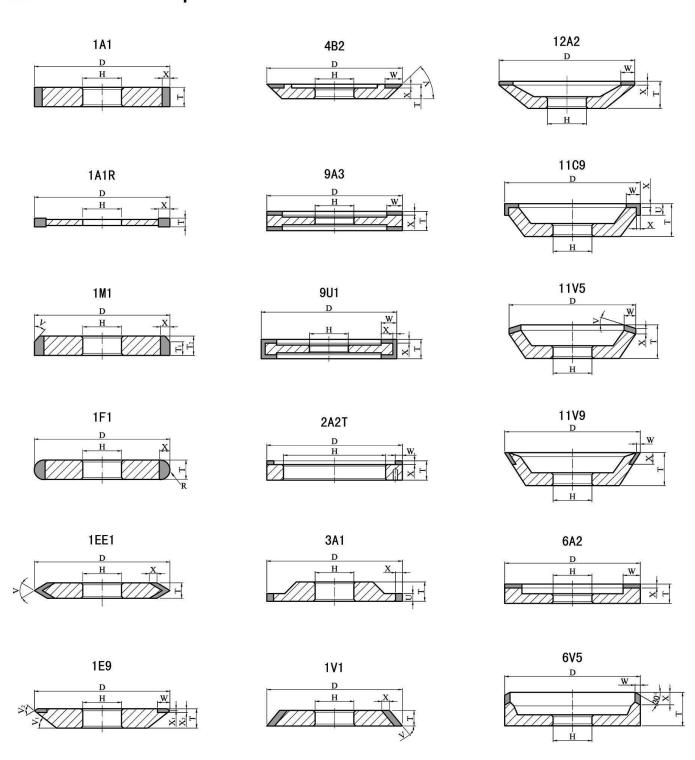
Remark: If not applicable,omit the alphabetic code for modification.

If more than two modifications are made ,combine the applicable codes

Symbol	Location	Shape	Symbol	Location	Shape
В	Segment gap hole	The state of the s	M	Holes plain and threaded	
С	Conical countersunk hole		Т	Threaded holes	
Н	Through hole		Р	Relieved one side	
Q	Diamond Inserted	€ ///\\	R	Relieved two sides	
V	Diamond Inverted	> //\\	Y	Diamond inserted and inverted	> ///



Basic Shapes of Diamond/CBN Wheels

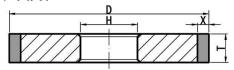




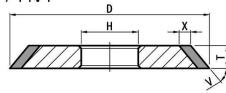
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CNC - Flute / Polishing

1A1 / 14A1



1V1 / 14V1

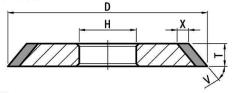


(According to your requirement)

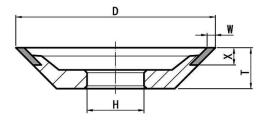
- Diamond or CBN in Periphery
- Available in 75,100,125 Diamond Concentration
- Surface / OD grinding else.

CNC - Gash / Flute edging

1V1 / 14V1



12V9

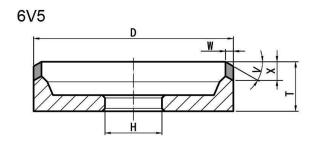


(According to your requirement)

- Diamond or CBN in Pheriphery
- For resharpening the flute and the clearance angel
- Applies to deep grinding of tipped saws else.

CNC - Relife / Edge clearance

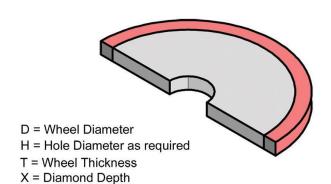
11V9



(According to your requirement)

- Flaring Bowl-Diamond or CBN in Pheriphery
- Wheels Used for forming single-lip cutters
- For resharpening the front-milling and the clearance angle else.

1A1 shown in 3D

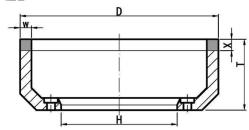




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Peripheral - Insert Grinding

11A2B

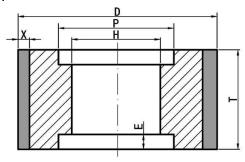


2A2T

- (According to your requirement)
 For Carbide blades and other indexable inserts .
- Available for Wendt, Agathon and the others
- Special Bolt Circle Hole size

OD- Centerless Grinding

9A1

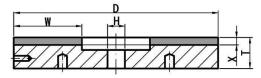


- Grinding Wheel for Wet or Dry Applications
- Special Arbor Hole size upon request

Mounting and balancing service is also available

Surface Grinding

6A2M

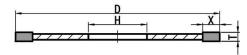


(According to your requirement)

- Available for DAISHO, Peter Wolters etc.
- Applicable to Inserts Plane knives and Piston ring
- with planetary kinematics

Cutting-Off

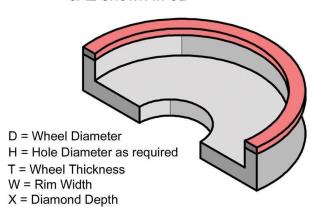
1A1R



(According to your requirement)

- Straight-Diamond or CBN in Periphery
- Available in 75,100,125 Diamond Concentration
- Special Arbor Hole size upon request

6A2 shown in 3D











We're aware there are several options for superabrasive grinding solutions, When maximum performance has been realized, our service has to be the best. We realize our sole reason of existence is our customer. Our commitment is to treat everyone that trusts in HYW products with respect, honesty, integrity, and fairness, without discrimination.