



PRODUCT CATALOG

Elevate Your Living Space

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What

Ceramic(Vitrified) Bond Diamond Grinding Wheel

What is the difference of our
diamond grinding wheel
from others?

Why

Why Choosing Geruite?

What is your advantages?

How

Grinding Effect And Solutions For Different Hard Material

Tungsten, High speed steel
Ceramic & Cermet
PCD& PCBN

What is the Ceramic(Vitrified) and Cermet Bond Diamond Grinding Wheel?



Ceramic(Vitrified) Bond

Composed primarily of various ceramic materials, ceramic bonds offer high hardness and wear resistance. These wheels maintain their shape well under high temperatures and pressures, making them suitable for precision grinding and working with high-strength materials.

With a higher porosity, ceramic-bonded wheels are effective at chip removal and reducing wheel clogging, making them ideal for both dry and wet grinding. They are often used for processing hard, brittle materials like ceramics and glass.

Cermet Bond

Due to differences in machine tool attributes like precision, cutting force, torque, and speed, machines from lesser-known brands often experience higher load and faster wear with ceramic-bonded grinding wheels compared to top brands like Walter, ANCA, Saacke, Agathon, Rollomatic, and Makino. To address this, we developed a new cermet-bonded wheel with higher density, which delivers 3-4 times better performance than resin wheels in tungsten steel grinding. However, high load issues still occur on premium machines.

Thus, we often ask customers for the brand of their machine tools for testing. While it may be inconvenient at first, our shared goal is higher efficiency and longer tool life





Why Choose Us

As one of the top three suppliers in Henan Province, China, with comprehensive and clear grinding solutions for materials ranging from easily machinable tungsten steel to cermet and PCD, we have a strong technical foundation to offer customized solutions based on different machine tools. We segment machine tools and adjust the bond accordingly to ensure optimal grinding performance on each machine.

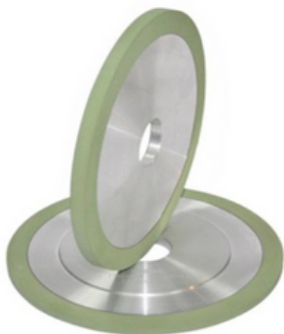
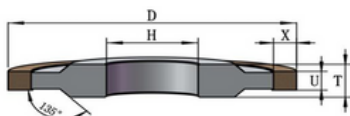
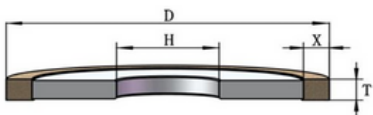
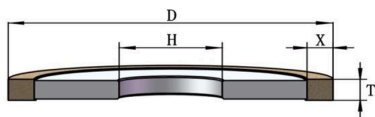
During the "Cermet Boom" in 2014, our ceramic-bonded grinding wheels were able to slot 45-500 pieces of 12Φ end mills with a 4mm cutting depth and a 40mm/min feed rate before needing to reshape the wheel. To this day, we have made further advancements in cermet grinding and offer mature grinding solutions for every tool manufacturer.

For PCD materials, beyond inserts, we have developed a solution for grinding 0.4mm diameter PCD drill bits without laser cutting. In comparison to resin and metal bonds, which cannot form a shape, and electroplated wheels that only achieve 1-2 microns per cut, we can achieve a full slot with a single pass of 22 microns and a complete groove profile. This has resulted in a fully developed grinding solution.

Additionally, we have a team of tool grinding experts with over 20 years of experience. We can provide direct guidance not only on grinding wheels but also on grinding techniques.

Therefore, Geruite is not only your supplier of high-quality, high-efficiency grinding wheels but also your most professional tool grinding advisor.

Product List

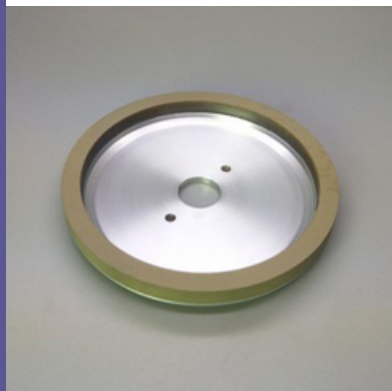
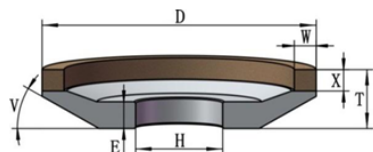


Type	D	T	H	X
1A1	50	5-20	10	6
1A1	60	5-10	10,16	6.5
1A1	75	3, 10	20, 31.75	5
1A1	100	10, 12, 15	20, 31.75	5
1A1	125	5, 6, 8, 10, 12	20, 31.75	10, 15
1A1	150/200/250	3, 6, 12	20, 32	6, 10

Grit: D10, D15, D20, D25, D30, D35, D40, D46, D54, D64, D76, D91.

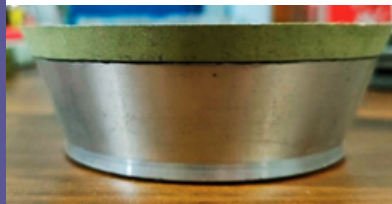
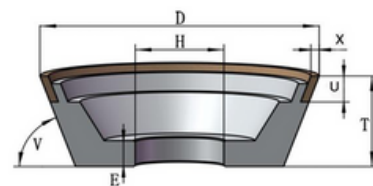
Size(D)*(T)*(H)*(X)	Concentration	Grit Size		
170*8*32*14	75%, 100%, 125%, 150%	MD20	MD40/60	MD80
170*10/12*32*14/15				
175*5*32*10				
175*5*32*15				
175*10*32*10				
175*10*32*15				
220*10*32*20				
As per your size				

Product List



Shape	D	T	H	W	X	V
12A2	150	20	24	5	5	26
	150	20	24	10	10	26
	120	25	24	10	10	26

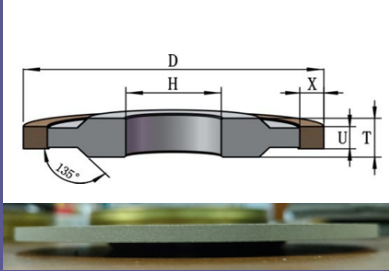
Grti: D252, D181, D151 , D64, D54, D46, D39 , D15/30 etc



Type	D	T	H	U	X
11V9	75	30	20,31.7 5	3,6	3
11V9	100	35	20,31.7 5	6,10	3
11V9	125	35	20,31.7 5	6,10	3
11V9	150	35,40	20,31.7 5	6,10	3

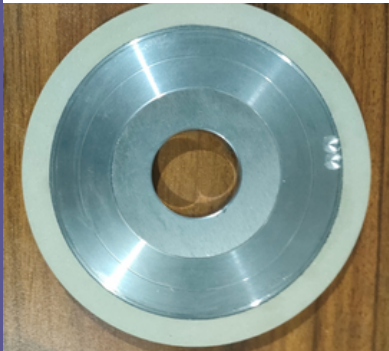
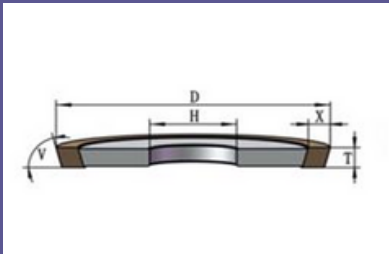
Grit: D10, D15, D20, D25, D30, D35, D40, D46, D54, D64, D76, D91.

Product List



Shape	D	T	H	U	X
14A1	75	6-15	20, 31.75	0.5-10	6
	100	6-15	20, 31.75	0.5-10	6
	125	6-15	20, 31.75	0.5-10	6
	150	6-15	20, 31.75	0.5-10	6, 10

Grit: D10, D20, Other size can be customized.

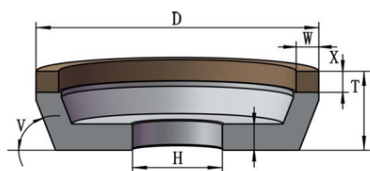


Type	D	T	H	X
1V1	75	10	20	5
1V1	100	10, 15	20, 31.75	5
1V1	125	6, 10, 15	20, 31.75	5, 10
1V1	150	12	20, 32	6, 10

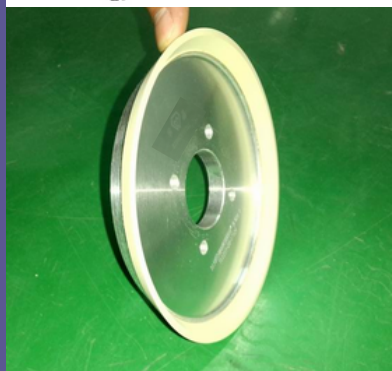
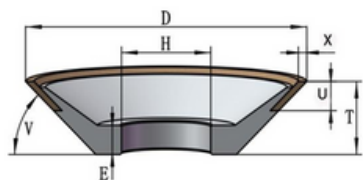
Grit: D10, D15, D20, D25, D30, D35, D40, D46, D54, D64, D76, D91.

Other size can be customized.

Product List

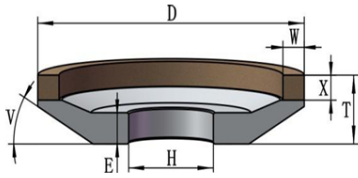


Type	D(mm)	T(mm)	H(mm)	W(mm)	X(mm)
11A2	50	10-15	14/15/16	6	6
	60	10-15	16/17	6	6
	125	10-15	31.75	6/10	6
	150	10-15	31.75	6/10	6
	200	10-20	31.75	6/10	6
Grit: 80 mesh to 300mesh					
Other size can be customized					



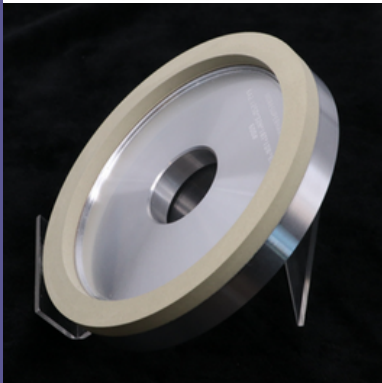
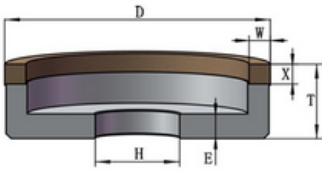
Type	D	T	H	U	X	V
12V9	75	25	20,31.7 5	3,6,10	6,10	45 degree
12V9	100	20, 25	20,31.7 5	3,6,10	6,10 10	45 degree
12V9	125	25,40	20,31.7 5	3,6,10	6,10	45 degree
12V9	150	13,25, 30	31.75	3,6,10	6,10	20/45 degree
Grit: D10, D15, D20, D25, D30, D35, D40, D46, D54, D64, D76, D91						

Product List



Type	D	T	H	W	X
12A2	75	20-25	20,31.75	3/6/10	5-10
12A2	100	15-35	20,31.75	3/6/10	5-10
12A2	125	20-35	20,31.75	3/6/10	10

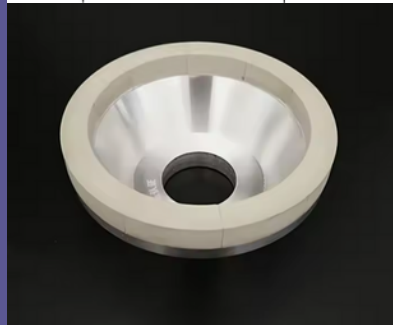
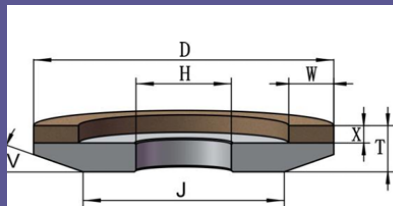
Grit: D10, D15, D20, D25, D30, D35, D40, D46, D54, D64, D76, D91



Type	D	T	H	W	X
6A2	60	20	20	6.5	6/10
	75	25	20	3//5/6/10	3/5/10
	80	25	20,31.75	6/10	3/5/10
	100	30	20,31.75	6/10	5/10
	125	32	20,31.75	3/6/10	5/10
	150	35	20,31.75	3/6/10	5/10

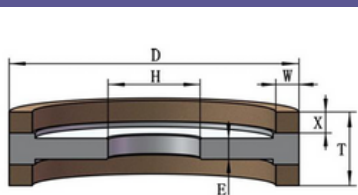
Grit: D10, D15, D20, D25, D30, D35, D40, D46, D54, D64, D76, D91
Other size can be customized.

Product List



Type	D	T	H	W	X
4A2	50	11	16	6	2/3/4/5/6
	100	10	20,31.75	6/10	2/3/4/5/6
	125	10	20,31.75	3/6/10	2/3/4/5/6
	150	10	20,31.75	3/6/10	2/3/4/5/6

Grit: D10, D15, D20, D25, D30, D35, D40, D46, D54, D64, D76, D91
Other size can be customized.

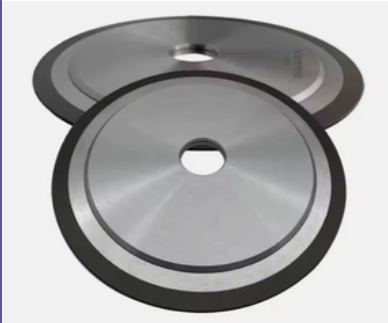
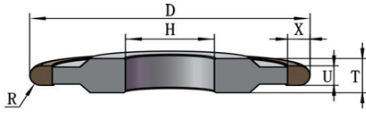


Type	D(mm)	T(mm)	H(mm)	W(mm)	X(mm)
9A3	50	10-15	14/15/16	6	2-4
	60	10-15	16/17	6	2-4
	125	10-15	31.75	6,10	2-4
	150	10-15	31.75	6,10	2-4

Grit: 80 mesh to 300mesh

Other size can be customized

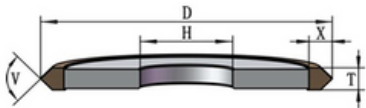
Product List



Type	D(mm)	T(mm)	H(mm)	U(mm)	X(mm)
14F1	50	8-15	14/15/16	4	6
	60	10-15	16/17	4	6
	100	10-15	20	4	6,10
	125	10-15	31.75	6/10	6,10
	150	10-15	31.75	6/10	6,10

Grit: 80 mesh to 300mesh

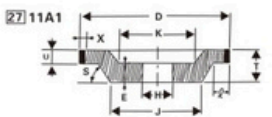
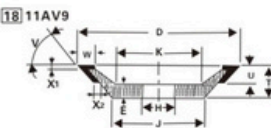
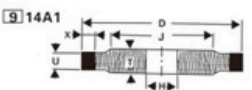
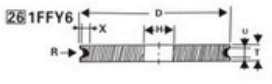
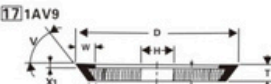
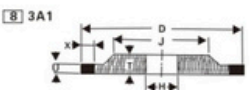
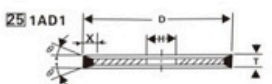
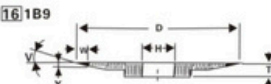
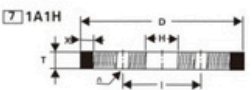
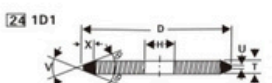
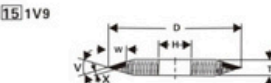
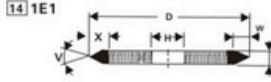
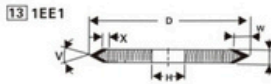
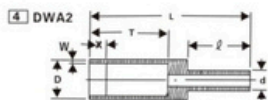
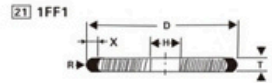
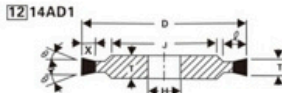
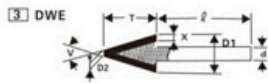
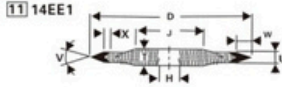
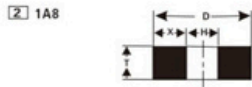
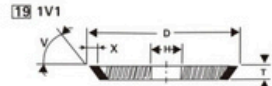
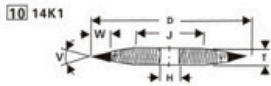
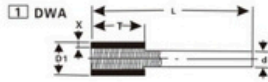
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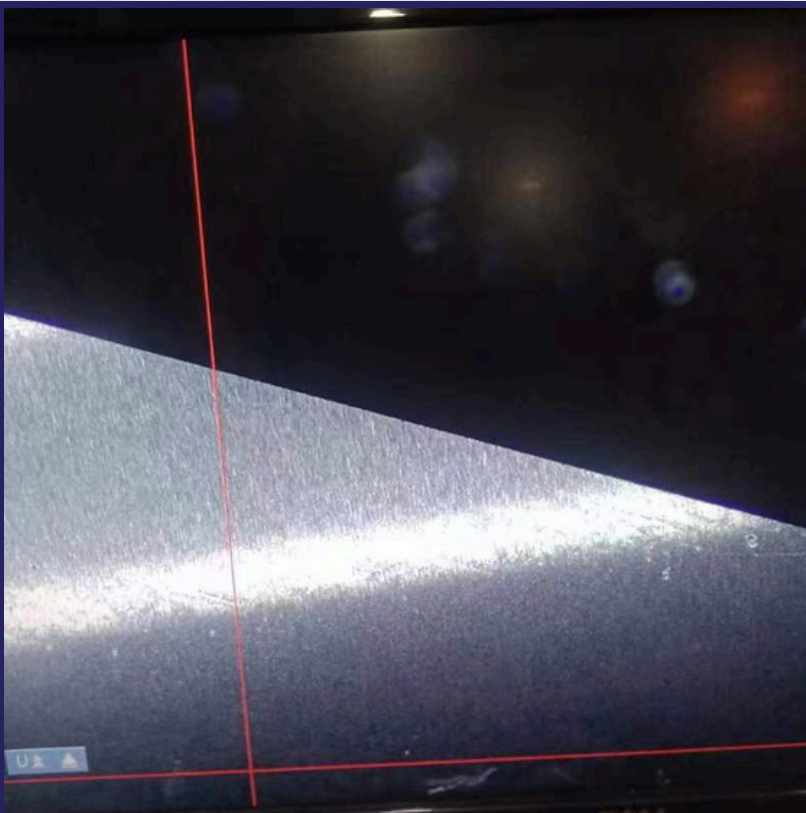


Shape	D	T	H	X	V
1E1	120	10	60	10	110

Grti: D15, D39 etc

List of Others (Customized)





Tungsten Material

Grinding Wheel Bond:

Grit:

Linear Speed:

Feed Speed:

Cutting Depth:

Magnificent:

Ceramic(Vitrified) Bond (200%)

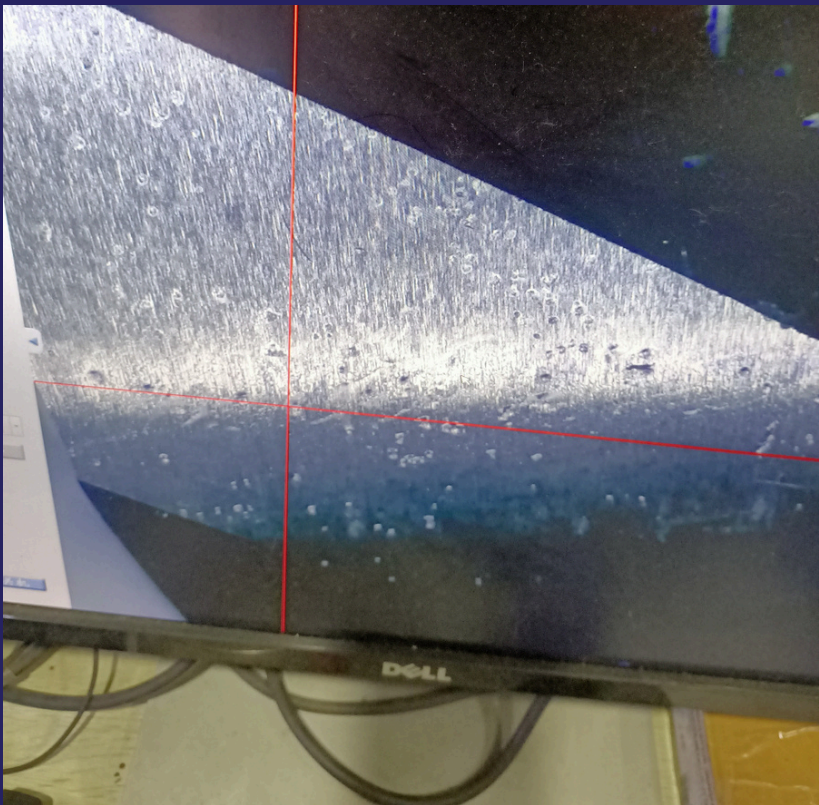
D76

25M/S

50mm/min

4mm, 1 time cutting

75 Times



Cermet/Ceramic Material

Grinding Wheel Bond:

Grit:

Linear Speed:

Feed Speed:

Cutting Depth:

Magnificent:

Ceramic(Vitrified) Bond (200%)

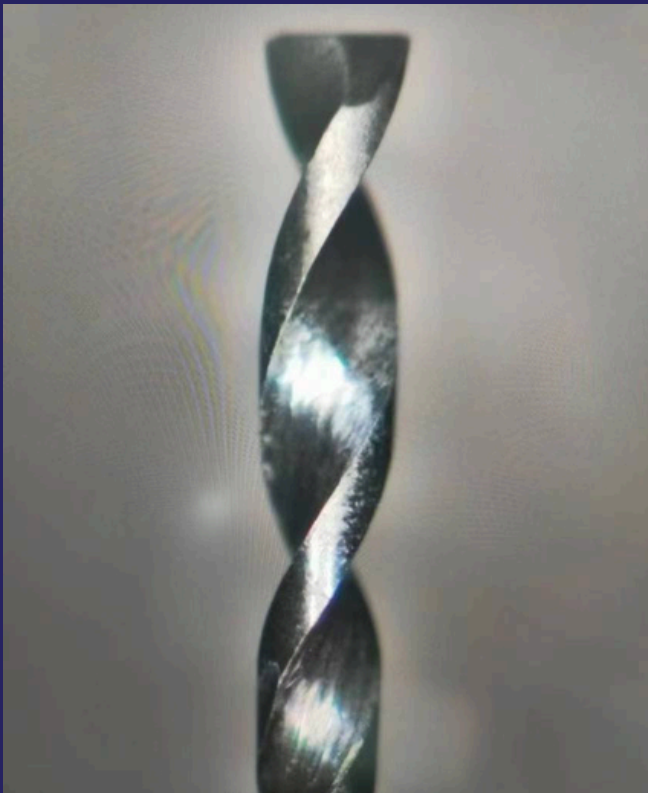
D40

25M/S+18M/S

10mm/min

1.8mm+0.2mm, 2 times cutting

75 Times



PCD/PCBN Material

Cutting Tool Name	D0.4mm PCD Needle
Grinding Wheel Bond:	Ceramic(Vitrified) Bond (225%)
Grit:	D76
Linear Speed:	25M/S+18M/S
Feed Speed:	3mm/min+2mm/min(polish)
Cutting Depth:	1.8mm+0.2mm, 2 times cutting
Magnificent:	50 Times

Our Services

1. When you receive the grinding wheel, we will include a manual that provides detailed grinding parameters for your specific machine. Please refer to it and adjust according to your own situation.
2. If you find the grinding wheel unsatisfactory, please provide immediate feedback to our sales representative. They will collaborate with our technical team to communicate with you and test whether the issue is related to the grinding process. If you use WeChat, we will request to create a group and arrange a video call to observe your grinding process and assess whether it is a grinding-related issue. Then we will help you find the suitable grinding method.
3. If you encounter a particularly challenging issue, you can send us the tool blanks, and our expert team will help you find the optimal grinding solution and adjust the wheel formula accordingly.
4. If the problem is the product itself, we will confirm the problem with technichan, and then we will repair the products and improve the formula and provide replacement



Your Grinding Prefessor Here

Thank you for exploring our hard work. Each piece is crafted with passion and precision.

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