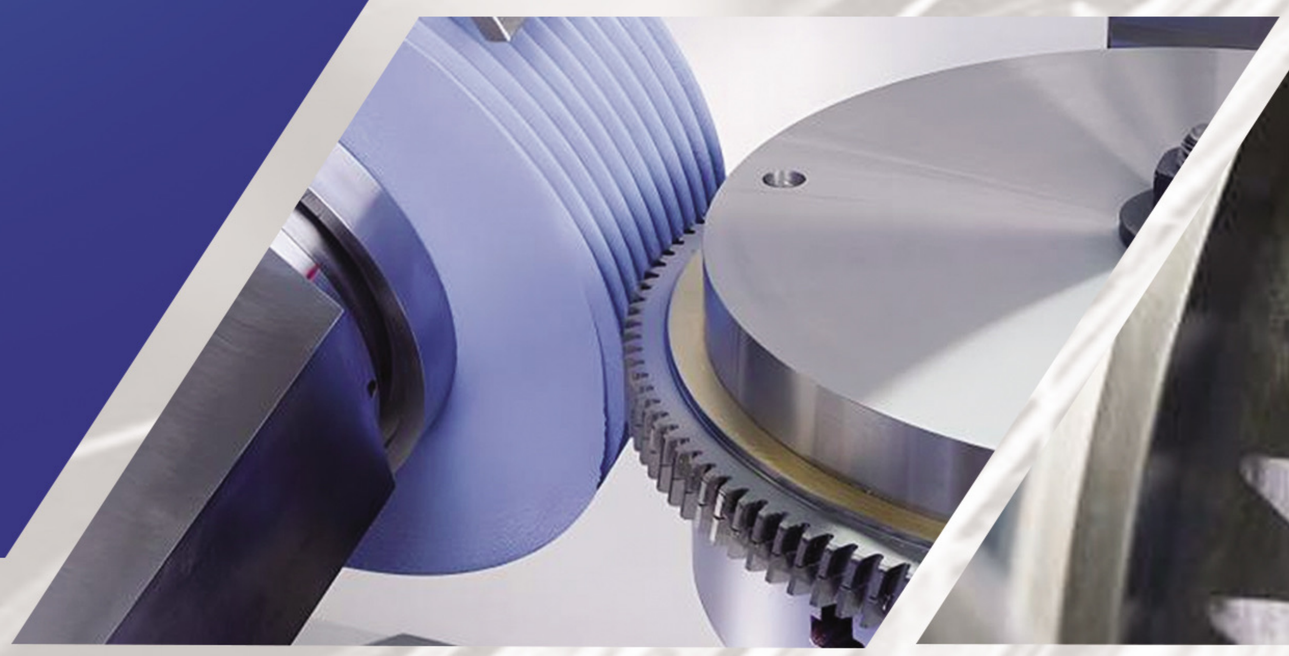
CHUANGLI | YGW

QUALITY INNOVATION FUTURE



YGW PRECISION GRINDING

SYSTEMATIC GRINDING SOLUTIONS

Professional Powerful Persevering Passionate

We are committed to becoming the world's leading provider of systematic grinding solutions

· Processional

Based on professional technology, carefully build each piece of grinding wheel to ensure excellent quality and superior performance

· Powerful

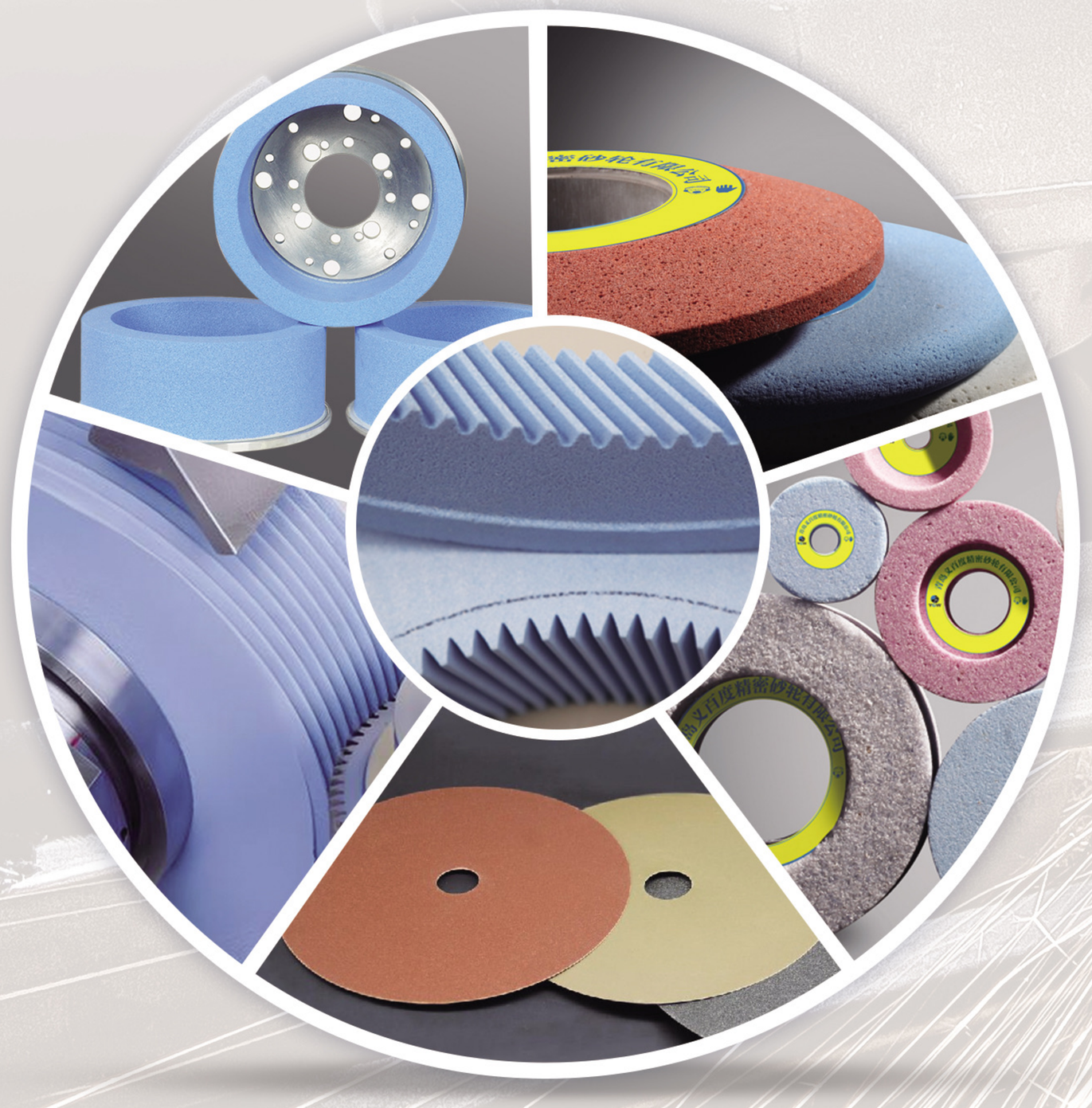
We keep working deeply in the field of precision grinding with the courage to explore and innovate, to provide the best quality grinding wheel products and solutions, so that customers can choose with confidence

· Persevering

We keep focus on every production link to ensure that every detail is up to the best level.

· Passionate

We constantly improve the level of service, to provide customers with personalized, professional solutions and services, to help customers succeed in their careers



COMPANY PROFILE

Company Profile

Qingdao Yibaidu Precision Grinding Wheel Co., LTD., is a subsidiary of Qingdao Chuangli Tool Group,which was founded in 2002. It is a production-oriented enterprise integrating import and export trade .The factory is located in Qingdao, half an hour's drive from Qingdao Port and Qingdao Jiaodong International Airport, and the transportation is very convenient.

The company has modern mixing, molding, hardening, processing lines and well-equipped R & D center, passed the ISO9001 quality management system certification in 2009, is a national high-tech, specialized special new enterprise.

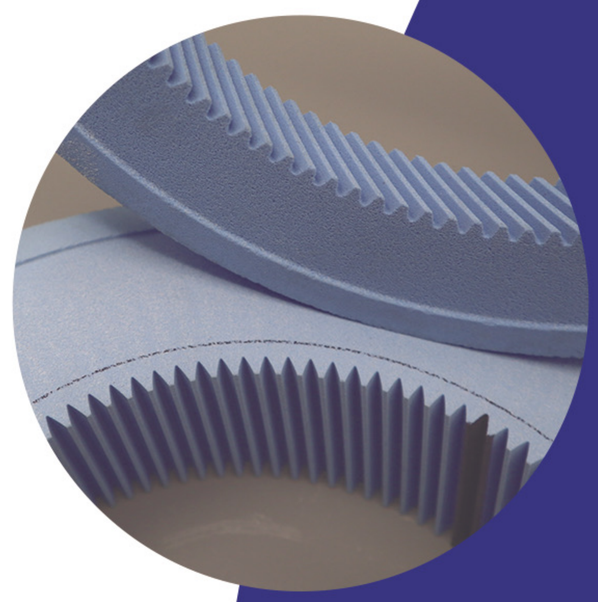
The precision grinding wheel products produced by the company cover more than 300 types,which are widely used in medical equipment, stone, steel, bearing, hardware and automobile manufacturing industries, and are exported to the Americas, Europe, the Middle East, Southeast Asia and other regions, is recognized as a high-quality product supplier in the industry.

For more than 22 years the company has been producing vitrified and resinoid bonded abrasive tools it independently develops a full range of consolidated abrasive products applied to grinding processing technology. The company takes experience from a large number of different challenges that it master together with their customers.

Why YGW

• Technology

We have advanced technology, leading and participating in the preparation of China‘s national standards including honing wheels. Mean while, YGW has a leading technology research and development team and advanced production equipment, independently developed of V seriesand R series bond, suitable for different grinding scenarios, to ensure product quality and performance.



• Service

We are always customer-oriented, providing personalized solutions and professional after-sales service. Whatever the customer needs, we respond quickly and ensure customer satisfaction with an efficient workflow.

• Planning and Scheduling

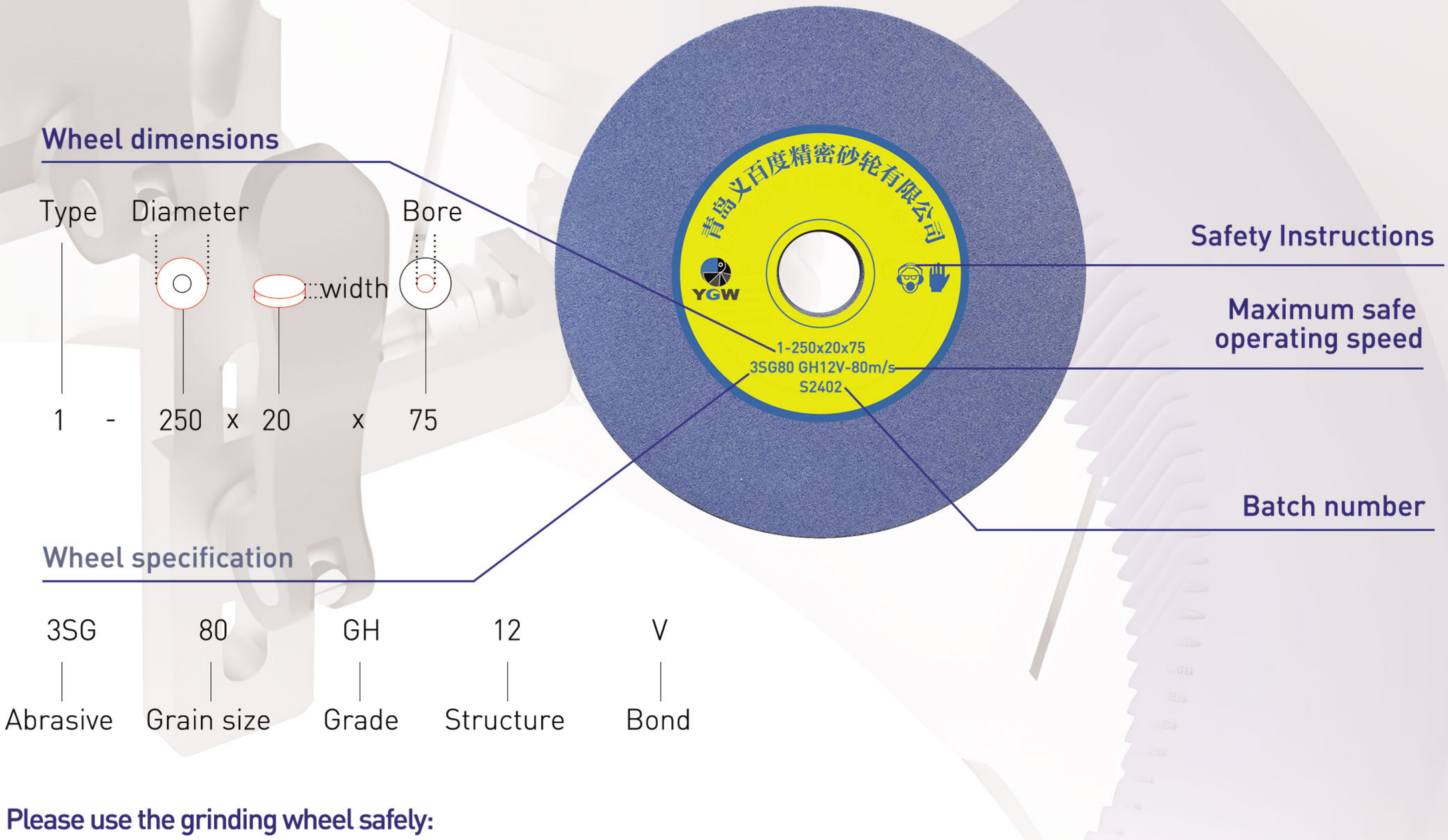
Our delivery time is usually between 10 and 30 days. We have optimized our supply chain management and production processes to ensure that products are delivered on time to meet our customers' urgent needs.

• Cost-effectiveness

We integrate China's high-quality supply chain resources to effectively control costs and improve production efficiency. This allows us to offer competitive prices while ensuring that product quality and service levels are not affected, providing customers with cost-effective products and solutions.

Contents

Wheel Specifications



Please use the grinding wheel safely:

Every piece of YGW's grinding wheels is tested at high speeds in a rotary machine. Please use the grinding wheel safely and do not exceed the maximum speed indicated on the wheel. Please refer to the safety instructions for proper installation and use of the grinding wheels, and wear protective equipment if necessary.

Grain Size

Coarse	24,30,36
Medium	46,54,60
Fine	80,100,120,150
Very Fine	180,220,240

Bond

V	Vitrified
B	Resinoid

Grade

Soft	B,C,D,E,F,G,H
Medium	I,J,K,L
Hard	M,N,O,P,Q

Wheel Dimensions

External Diameter	Up to 660mm
Width	Up to 200mm
Internal Diameter(bore)	Up to 406mm

Structure

Medium/Standard	Open / Porous
5 6 7 8 9	10 1112 13 14 15 16

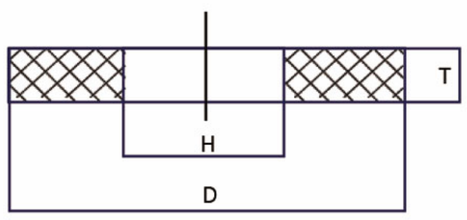
Standard Types and Shapes of Abrasive Wheels

Types and profiles of YGW abrasives are marked in accordance with international standards

D →	Outside diameter of products	**O** →	Depth of relief on other side
E →	Thickness around bore	**P** →	Diameter of recess
F →	Depth of first recess	**R** →	Radius
G →	Depth of second recess	**T** →	Overall thickness
H →	Bore diameter	**U** →	Thickness of edge
J →	Diameter of flat outer surface	**V** →	Angle of profiles
K →	Diameter of flat inner surface	**W** →	Width of rim
N →	Depth of the relief on one side		

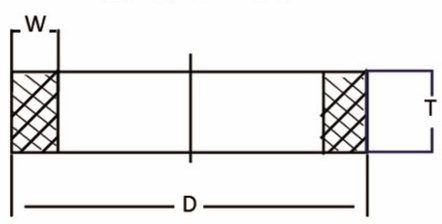
1 Straight grinding wheel

D × T × H



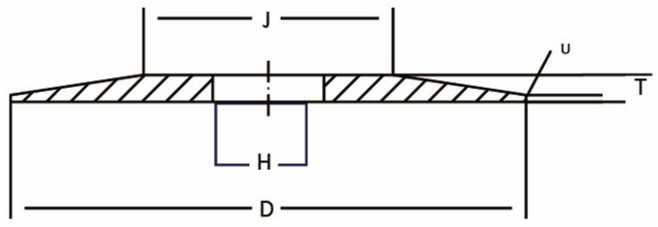
2 Cylinder grinding wheel clamped to a back-plate

D × T - W



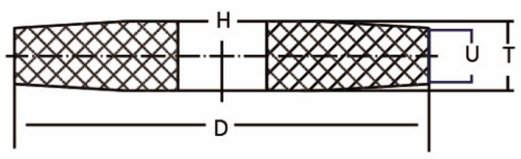
3 Taped on oneside

D / J × T × H



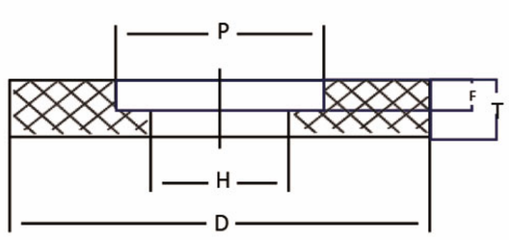
4 Tapered on both sides

D × T / U × H



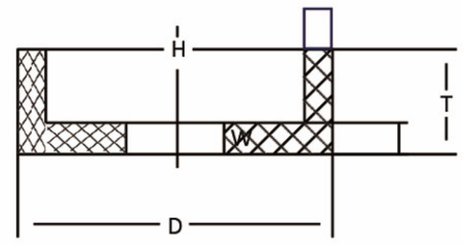
5 Recessed on one side

D × T × H - P × F



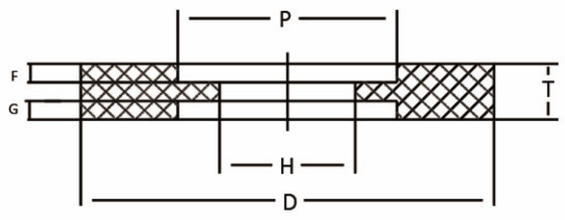
6 Straight cup grinding wheel

D × T × H – W,E



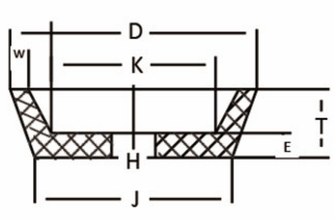
7 Recessed on both sides

D × T × H – P,F,G



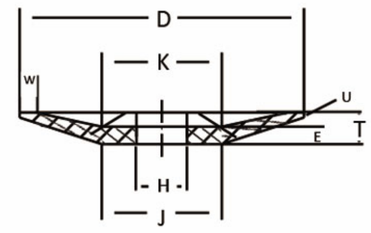
11 Taper cup grinding wheel

D/J × T × H-W,E,K



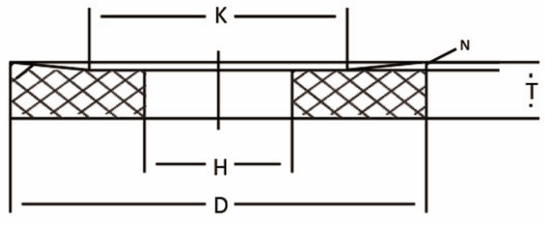
12a Dish grinding wheel

D/J × T/U × H-W,E,K



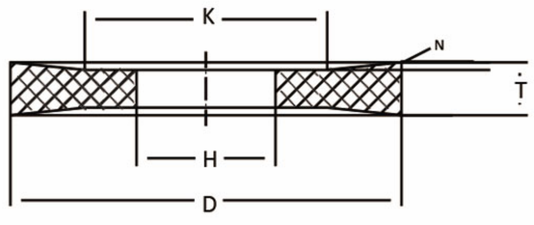
20 Relieved on one side

D/K × T/N × H



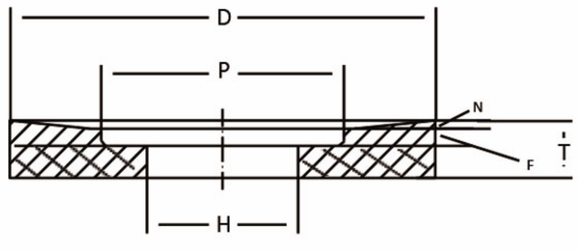
21 Relieved on both sides

D/K × T/N × H



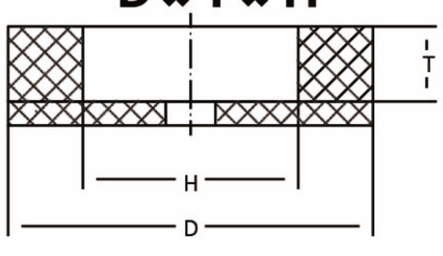
23 Relieved and recessed on one side

D × T/N × H-P,F



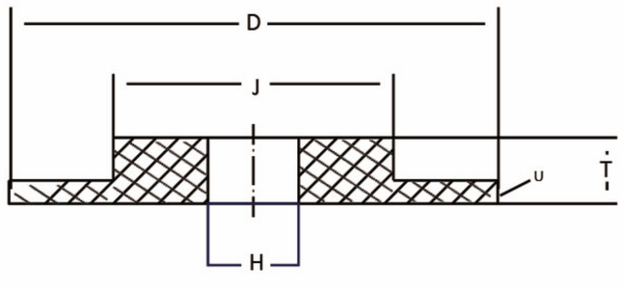
35 Cemented or clamped to a back-plate

D × T × H



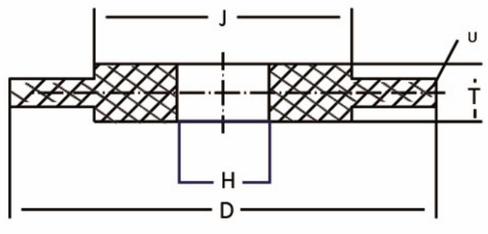
38 Single hubbed grinding wheel

D/J × T/U × H



39 Double hubbed grinding wheel

D/J × T/U × H



YGW Grain Types

A - Brown Aluminium Oxide -

The most common of all grains, for heavy-duty generalpurpose work.

WA - White Aluminium Oxide -

White Aluminium Oxide, the high friability of this grain enables fast and cool cutting. Suitable for light grinding of steels of all kinds, particularly tool steel.

SG-Sol-Gel Aluminium Oxide-

A sintered abrasive made by a sol-gel process with a special alumina as the main material and mixed with various modified components.

PG- Flake Ceramic Grain-

It is precision formed flakes ceramic grains, similar to triangle grain.

TG-Strip-Shaped Ceramic Grain-

It is made by sol-gel precious forming process, with a high temperature resistance of 1300 degree.

CG-Cumulated corundum-

CG abrasive, due to its stacking effect, will continue to produce a sharp cutting edge during the grinding process, so it has a long life and a uniform cutting rate of the material, and can get a better surface finish of the workpiece.

PA - Pink Aluminium Oxide -

It is precision formed flakes ceramic grains, similar to triangle grain

SA - Semi-friable Aluminium Oxide -

its principal use is in cylindrical and centerless grinding wheels. It can be used to grind both soft and hard steels.

C - Black Silicon Carbide -

sharper than aluminium oxide and therefore more effective in grinding low-tensile materials and non- ferrous metals.

GC - Green Silcon Carbide-

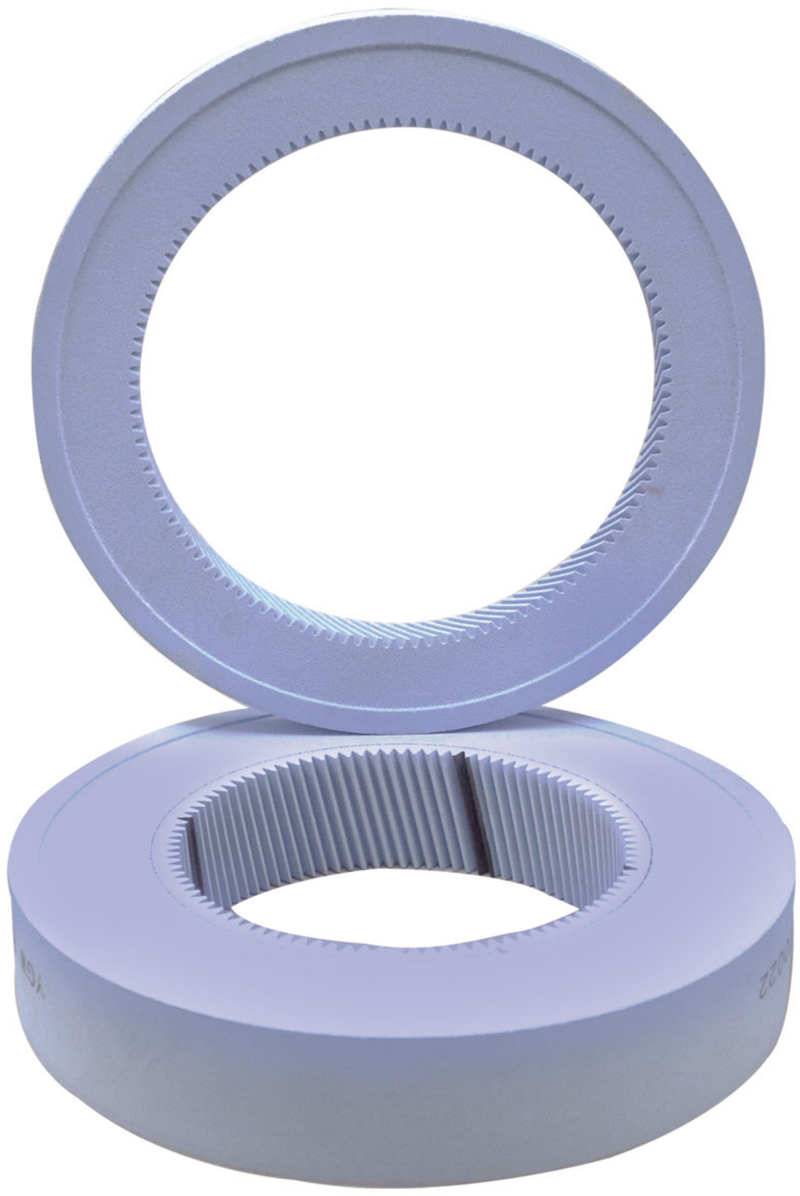
more friable than C, recommended for grinding cemented carbide cutting tools.

Wheels for Gear Industry

Honing

YGW has rich experience in the field of gear honing, participated in and led the preparation of the honing wheel national standard of China, and is the market and technology leader in this field.

With the continuous iteration of new technologies and the introduction of new product lines, YGW now have more than 200 wheel models for power honing, applied for PRAWEMA, FASSLE, GLEASON-HURTH, KANZAKI and other equipment.



Advantage

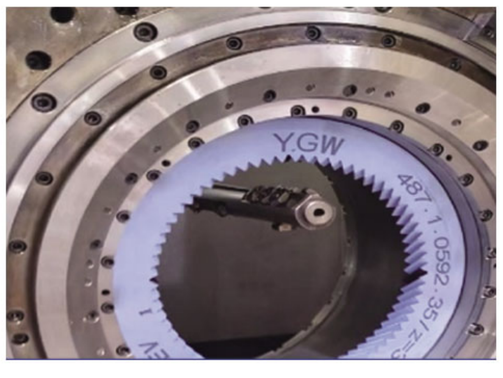
- YGW honing wheel has extremely high grinding precision, low dressing frequency and long service life through the improvement of manufacturing process.
- YGW improves grinding efficiency by reducing the weight of the honing wheel, thereby reducing the load on the machine components.
- Continuous and stable supply ability through inventory management.
- Faster delivery time, within 1 week from production to delivery (excluding international shipping time).

Application

Machine	Specification(mm)		
	D	T	H
PRAWEMA syndrofine 205 HS	270	20-80	130-260
FASSLE HMS-400	400	20-80	130-390
GLEASON-HURTH 150SPH	300	20-50	130-290
KANZAKI FB300	400	20-80	130-390

Typical Test Result

Grinder	PRAWEMA
Wheel Specification	270x41x175.6 SG150/3 P 5 V
Gear Specification	M=2.9 α=17.5 β=25 z=18 b=33.8
Dressing Frequency	every 100



Wheels for Gear Industry

Worm Grinding

YGW offers a wide range of worm grinding wheels, continuously optimizing the process through innovation to improve product quality, ensuring that each wheel follows the most stringent quality control procedures, to achieve a more perfect shape, better balance stability and safer high-speed grinding capabilities, to meet the new challenges and new needs brought about by the growing development of the gear industry

Advantage

- Every solution for every application.
- Excellent shape retention.
- Reduce gear burn risk and reduce costs for customers through innovative formulation design and bond development.
- Operation speed up to 80/s.

Application(available in profiled and not profiled)

Machine	Specification(mm)			Operating Speed
	D	T	H	
Reishauer	275-400	62-160	160	80m/s
Kapp	250-350	80-160	100/115	80m/s
Liebherr	195-320	80-230	90/110/120	80m/s
Samputensili	100-250	62-182	76.2/50.8	80m/s

Typical Test Result

3SG80-J V80 compared with PA80-J VX	
Grinder	Kapp KX 300P Coolant Type：oil
Wheel Specification	320x125x115 63m/s angle Alfa 20°
Gear Specification	Dp=97x66， Z=21 ;DIN 6;Ra:0.8um;0.15mm/flank
Test result	G-ratio:Increase 40% ; Grinding Period:reduce 10%

Wheels for Gear Industry

Profile Grinding

YGW offers a wide range of modifiable ceramic bond profile grinding wheels for precision grinding of gears in various fields.

Advantage

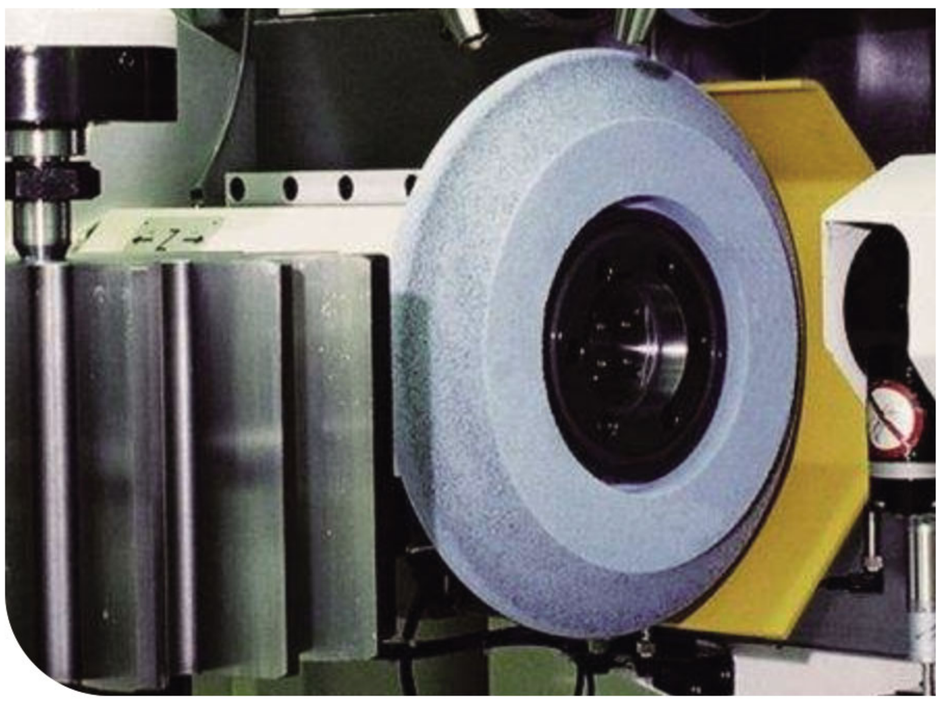
- A wide range of products can be customized according to customer needs.
- Excellent shape retention.
- The size and number of pores can be adjusted in the formulation design to reduce the risk of gear burns.
- The use of low-temperature bond technology with a speed of 35m/s greatly reduces the risk of gear burns and makes the entire production process safer.

Application(available in profiled and not profiled)

Machine	Specification(mm)			Operating Speed	Comments
	D	T	H		
Hofler、Kapp Niles、Gleason、QCMT&T	100	10-40	12-32	35m/s	Customization Available
	120	20-80	20-65		
	180-200	20-50	32-75		
	250	20-80	32-75		
	300-500	20-130	80-203		

Typical Test Result

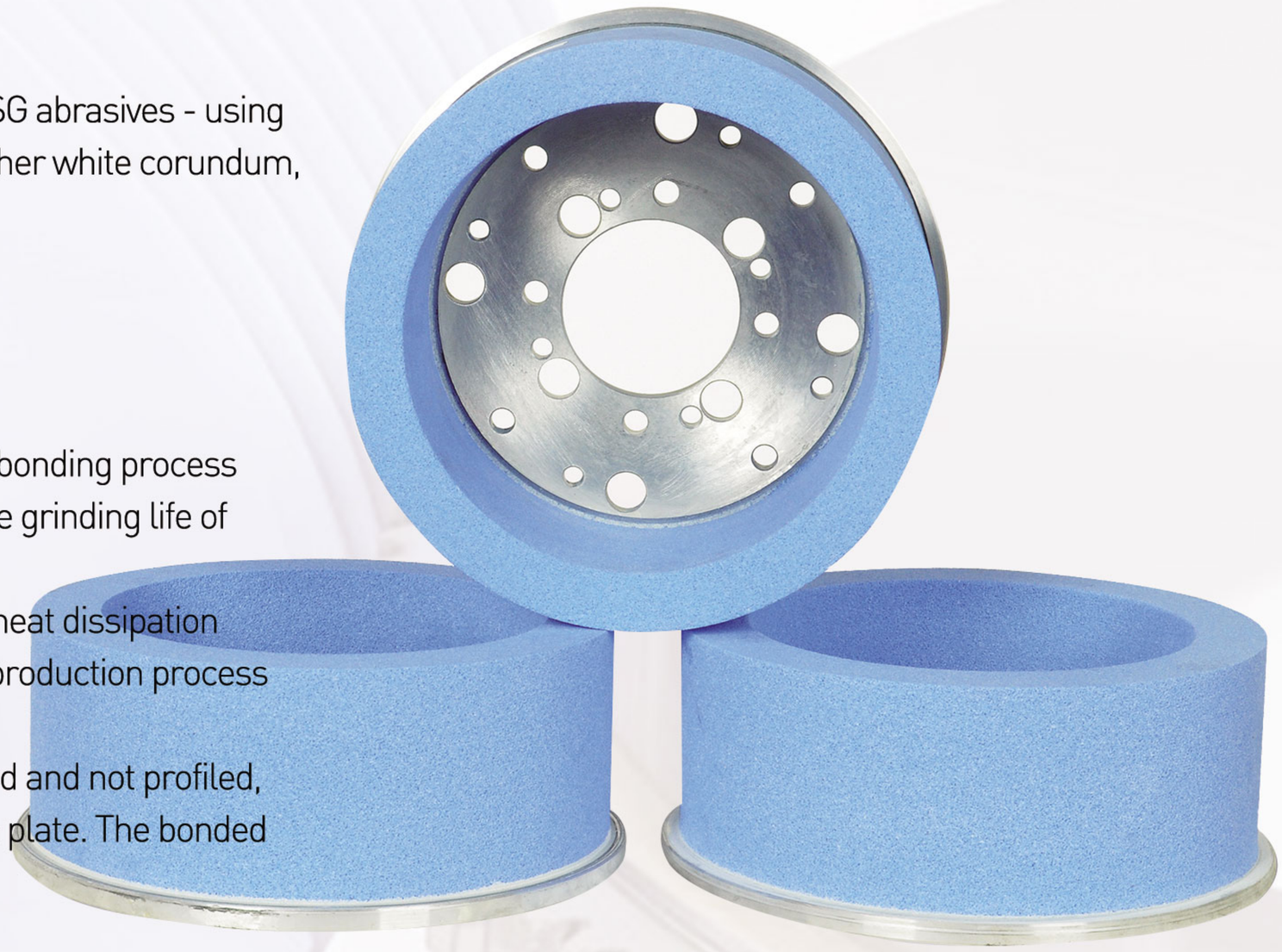
Grinder	Hofler Rapid 1800
Wheel Specification	PSX500x63x160-3SG70GH12V P-45m/s
Gear Specification	Module:10；Numbers of teeth:62； Hardness:170mm；angle Alfa:20°
Grinding Information	Wheel's rpm:35m/s；Feeding:0.092mm
Material Removal	16mm³/(mm*s)



Wheels for Gear Industry

Bevel Gear

YGW's bevel gear grinding wheel is made of 5SG abrasives - using high-end SG abrasives combined with Treibacher white corundum, combined with YGW's own ceramic bond V80.

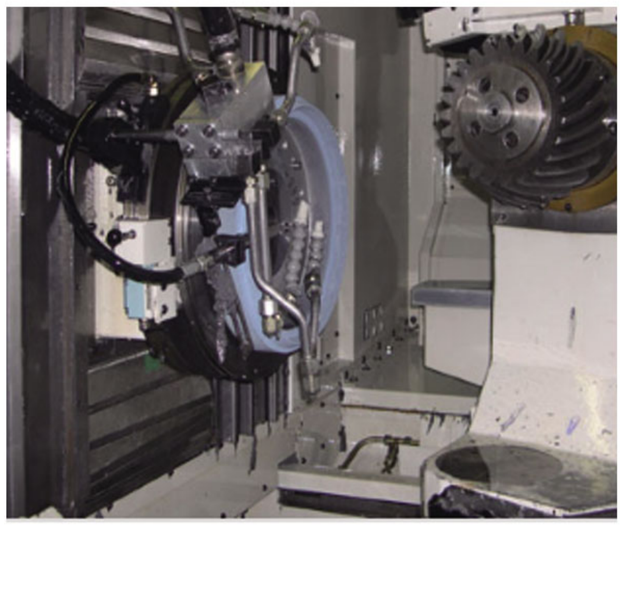


Advantage

- Stable shape structure - The self-developed bonding process maximizes shape structure and increases the grinding life of each YGW wheel.
- Low temperature bonding technology, good heat dissipation capacity to reduce burns, making the entire production process safer.
- A variety of ordering types, available in profiled and not profiled, paste aluminum plate or no paste aluminum plate. The bonded aluminum disk can be reused, saving costs.

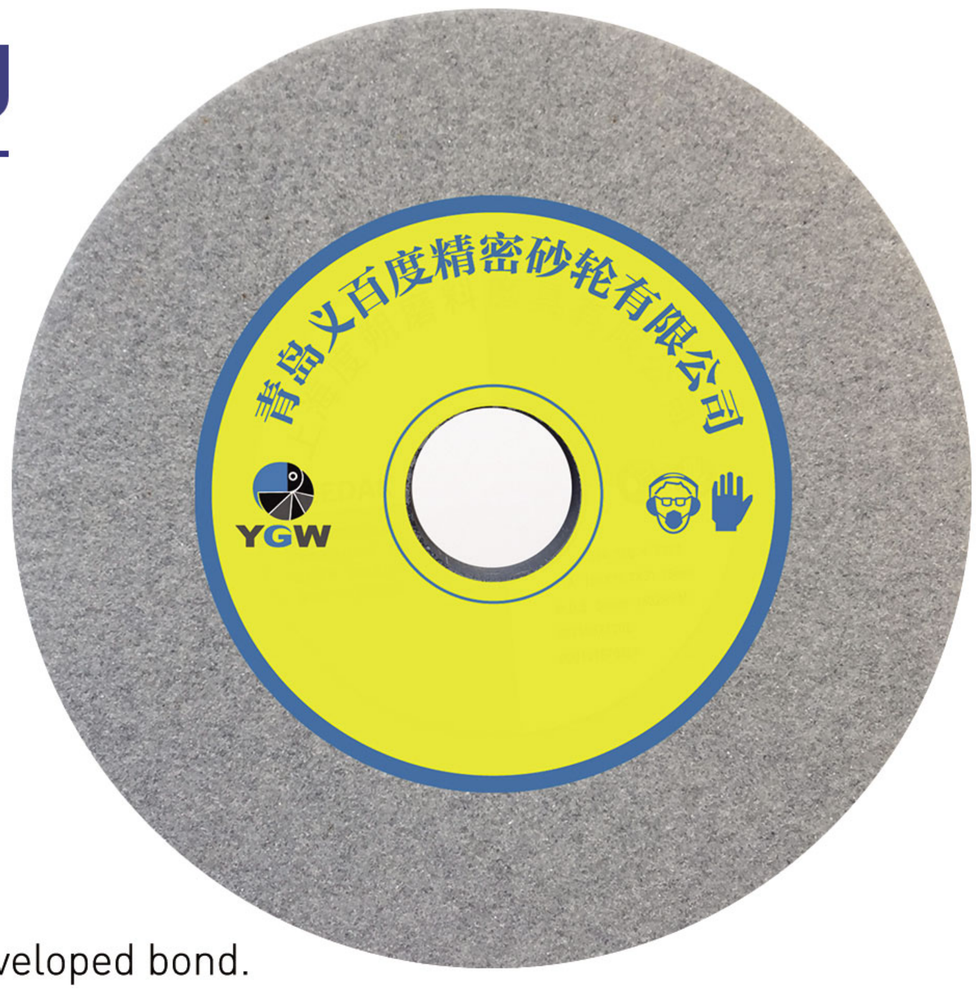
Application(available in profiled and not profiled)

Machine	Specification(mm)			Dimension (inch)	Operating Speed
	D	T	H		
Gleason Klingelnberg	40-145	86-98	25-104	1-5	35m/s
	160-274	98	119-206	5-10	
	295-427	98	226-245	10-15	
	442-564	98	348-472	15-20	



Wheels for Thread Grinding

YGW adopts advanced processes and technologies, which can make the thread grinding wheel have excellent characteristics such as super hard materials, precision manufacturing, high temperature treatment, coating technology, cooling technology and bionic design, so as to improve the performance and service life of the wheel, and meet the needs of efficient and precise thread tool grinding.



Advantage

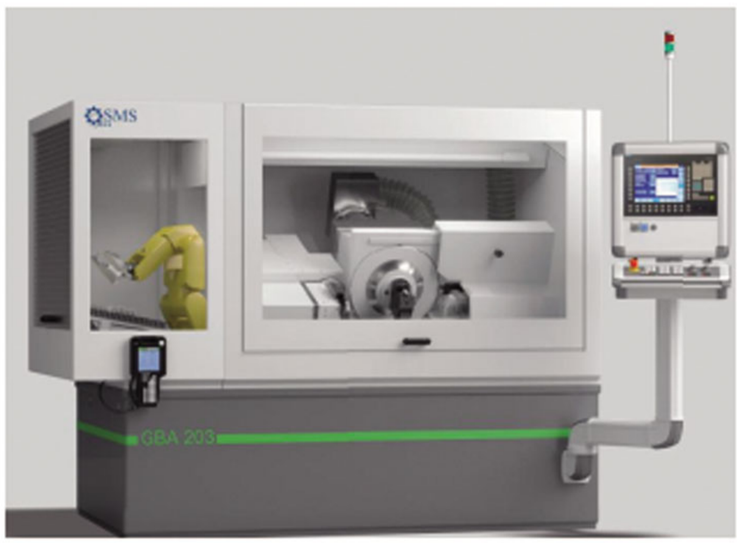
- YGW thread grinding wheel is made of WA and SA, with self-developed bond.
- Stable quality, efficient cutting rate and high shape retention, reducing the risk of burn, decreasing the scrap rate.
- Customization, according to your needs to customize product with the grain of 120-320, hardness between M-P.

Application

Machine	Workpiece	Specification(mm)			Operating Speed
		D	T	H	
SMS Grinder GBA 203 TAPOMAT 1000 3000 GWA MM582 5K82 5682 ANCA TapX	Handle	Cylindrical Grinding、Centerless Grinding			Up to 80m/s
	Groove	160-205	3-6	32-76.2	
	Edge	400-500	10/13/16/20	203.2	
	Relieving	254	6/8/10/12	76.2	

Various taps

SMS Grinder GBA 203



Wheels for Thread Grinding

In the manufacturing industry, bearing processing has the greatest demand for abrasives. YGW products cover the entire bearing manufacturing process, such as end grinding of bearing rings and rollers, centerless grinding, groove grinding of inner and outer rings, bearing internal grinding, etc.

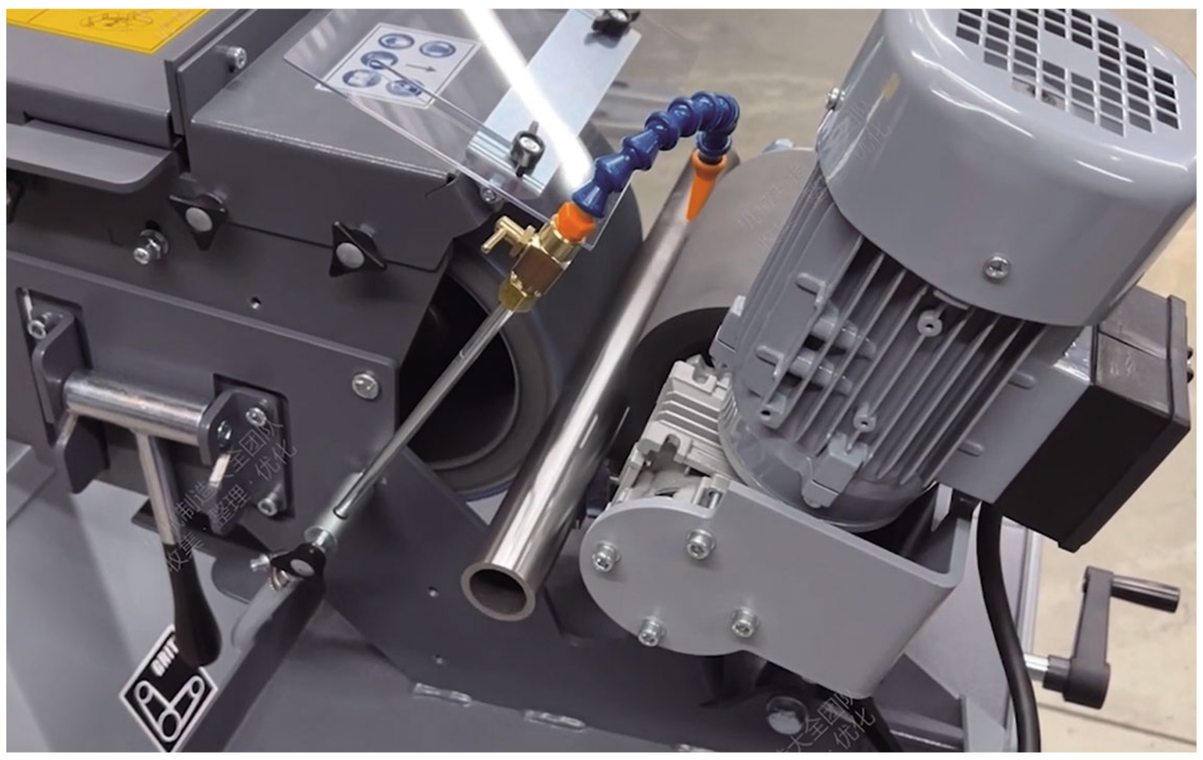
Centerless Grinding

YGW's centerless grinding wheels provide precise grinding, whether through or through feed grinding. YGW uses new quality equipment and innovative sintering technology to create durable grinding wheel structures, which allow the abrasive particles to withstand greater pressure during use without breaking prematurely. These improvements maintain maximum profile while minimizing wear and tear.

The workpiece could be grinding ranging in diameter from 1.2mm to 300mm. The length of the workpiece processed by through feed grinding can reach 12 meters, and the length of the workpiece processed by input-feed grinding can reach 500mm.

Advantage

- Shorter grinding time and higher efficiency
- Low temperature grinding, no burn
- Long service life
- Operating speed up to 63 m/s



Application

Specification(mm)			Operating Speed
D	T	H	
250-750	90-600	76.2-305	Up to 63m/s

Wheels for Bearing Industry

In the manufacturing industry, bearing processing has the greatest demand for abrasives. YGW products cover the entire bearing manufacturing process, such as end grinding of bearing rings and rollers, centerless grinding, groove grinding of inner and outer rings, bearing internal grinding, etc.

Bearing Groove Grinding

YGW has developed products specifically for bearing internal and external groove grinding.
Combined abrasives and advanced bond technology help customers improve precision while increasing work efficiency and reducing grinding costs.
Customer tests have proved that YGW channel grinding wheel can reach 2-3 times the life of domestic grinding wheel. At present, we provide products and services to SKF, FAG and other international head bearing manufacturers.

Application

Specification(mm)			Operating Speed
D	T	H	
100-600	3-50	25-305	Up to 60m/s
Outer groove of inner circle:01-500x10x203.2SA100L8VM-60m/s Inner groove of outer circle:YX-250x20x75 WA60K8VT-45m/s YX-250x20x75 3SG60J12VP- 45m/s (Different ratios of abrasives can increase the life of the grinding wheel by 4-6 times)			

Typical Test Result

Workpiece Information	Material	Bearing steel (Carbonitriding)	
	Dimension	Dφ50mm 25mm	
	Hardness	HRC62	
Grinder Information	Type	Xinxiang	
	Spindle speed	Constant Speed	
	Dresser	Single Point Diamond Pencil	
Grinding Information	Roundness	0.002	
	Ra	0.32	
	Rough Grinding Allowance	0.25MM	
	Fine Grinding Allowance	0.08MM	
Test Result	Comparison		
	Brand	YGW	Other
	Dimension	38-500*10/15*203 5SG120L	38-500*10/15*203 A/WA120L
	Dressing Frequency	Every 34	Every 9
	Dressing Amount	890	190
	Single grinding time	9.4S	10.4S
	Single dressing time	10S	10S
	Conclusion		
	Service Life	YGW grinding wheel life can reach 4.3 times of the original grinding wheel	
	Efficiency	The processing time of a single product is reduced from 10.4 seconds to 9.4 seconds, while reducing the frequency and time of wheel replacement	

Wheels for Automotive Industry

Crankshaft Grinding

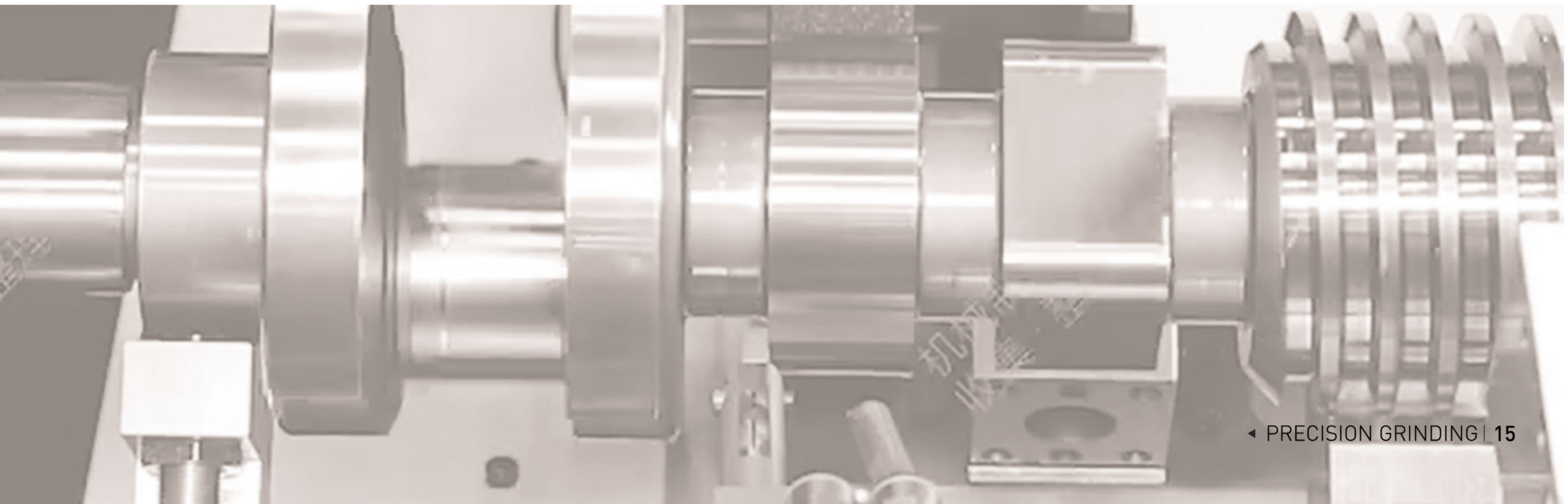
YGW's high temperature VT bonds and "sandwich" grinding wheels, designed for the crankshaft industry, effectively solve the conformal problem of the "R" Angle. Besides, 1SG, 3SG and other high-end products are available.

Application

Crankshaft Type	Wheel Specification
Diesel Engine	1067x47x304.8 19A60-MV
	1067x47x304.8 PA54/WA60-M/LV
Diesel Engine	1065x25x304.8 PA60-LV PA60-MV
Cast Iron Compressor	AWA80-L8V or WA80-L8V
Cast Iron Diesel Engine	PA70-L8V or SA70-L8V
Stainless Steel Crankshaft	SA60-J8V
Small Diameter Stainless Steel Crankshaft	GC100-M8V

Available

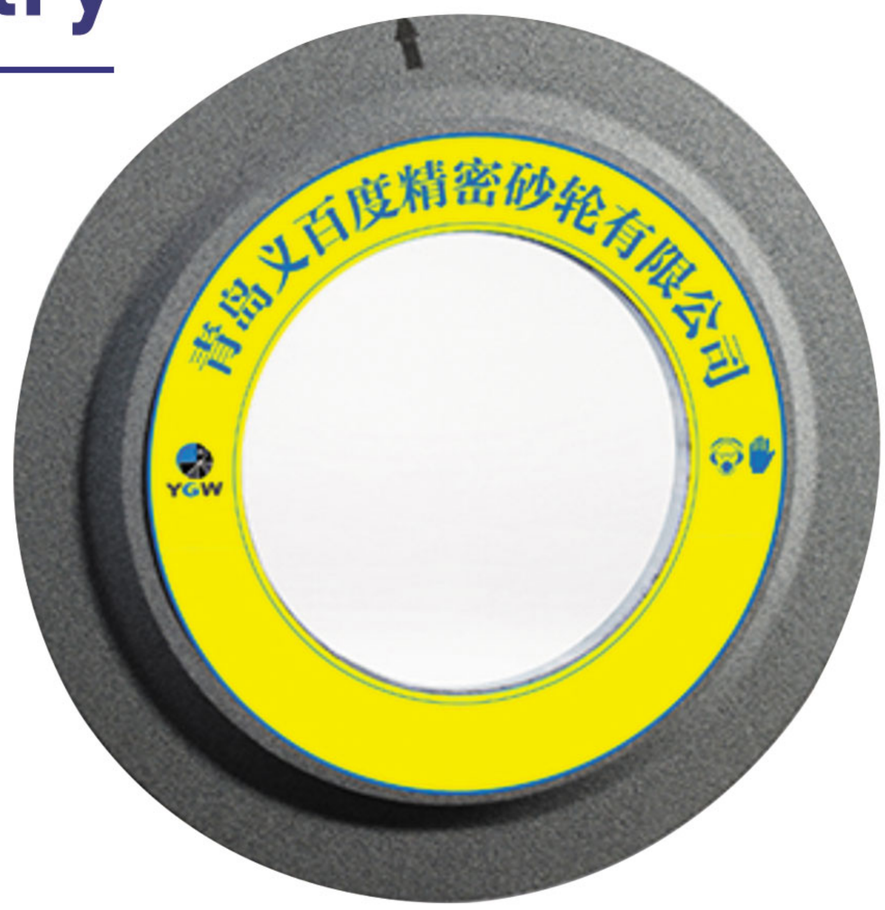
Specification(mm)		
D	T	H
500-600	21-70	203/304.8



Wheels for Automotive Industry

Valve Processing

By optimizing the design and grinding process, YGW greatly increases the grinding efficiency of individual wheels to achieve maximum cost-effectiveness for customers.



Advantage

- The number of workpiece grinding at a single dressing interval is 2 to 3 times that of other grinding wheels in domestic market.
- Product performance is stable, safe and reliable.
- Continuous optimization of abrasive design can effectively help customers improve grinding efficiency and improve product quality.

Available

Specification(mm)	Operating Speed
01_508.00x13.00x203.2_3SG_80_Q_VS	Up to 50m/s
01_508.00x19.10x203.2_58A_90_PQ_8V	
01_510.00x125.00x304.8_58A_80_M_V7	
01_610.00x125.00x304.8_58A_60_M_V	
01_610.00x125.00x304.858A_120MV	
01_610.00x125.00x304.89C220NV	
01_610.00x15.90x304.8_AWA_100_P_V	
01_610.00x150.00x304.8_58A_60_M_PV	

Wheels for Linear Guide

YGW grinding wheel has uniform structure, small hardness deviation, good self-sharpening performance, and can maintain a good grinding surface. It is an ideal guide grinding wheel.

Using high temperature sintering process, the abrasive and abrasive matrix are firmly combined together to improve the wear resistance and impact resistance of the grinding wheel. This process ensures that the grinding wheel remains stable under high rotation speed and high load conditions.

The uniform and tight abrasive arrangement structure is designed to make the grinding surface of the grinding wheel more flat and consistent, reduce surface corrugations and wear marks in the grinding process, and improve the finish and smoothness of the guide surface.

In the wire groove grinding of linear guide rail and micro-guide, the grinding wheel is required to have a good shape protection and sharpness, we recommend the use of green silicon carbide grinding wheel and SA grinding wheel, or WA+SA mixed abrasive wheel, and PA+SA mixed abrasive wheel. The hardness of the grinding wheel should be soft to ensure the sharpness.

Specification(mm)		
D	T	H
500-600	21-70	203/304.8

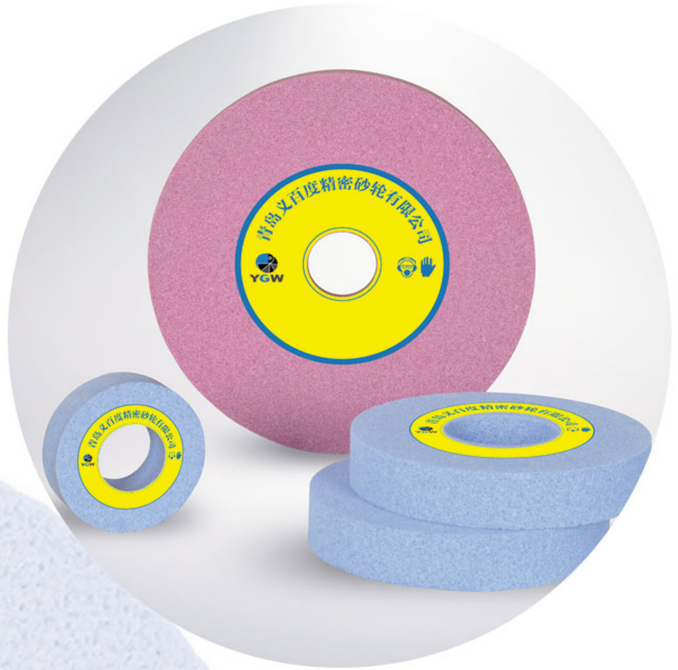
Wheels for Internal Grinding

Minimum risk of burning

Perfect slot grinding with sharp corner

Optimal surface finish with tailored grade and structure specifications

Complete solutions for the various industry



Specification(mm)		
D	T	H
100-1300	10-400	32-305

Application

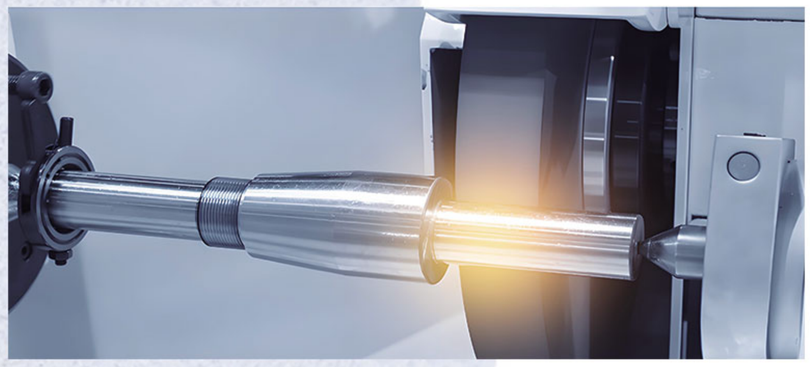
carbon steel, WA

Alloy steel and harded steel workpieces, PA

Stainless steel workpiece grinding, SA60-J8VM

Copper and aluminum workpiece grinding, GC60-JVK

Rubber roller cylindrical grinding, GC60-GVP

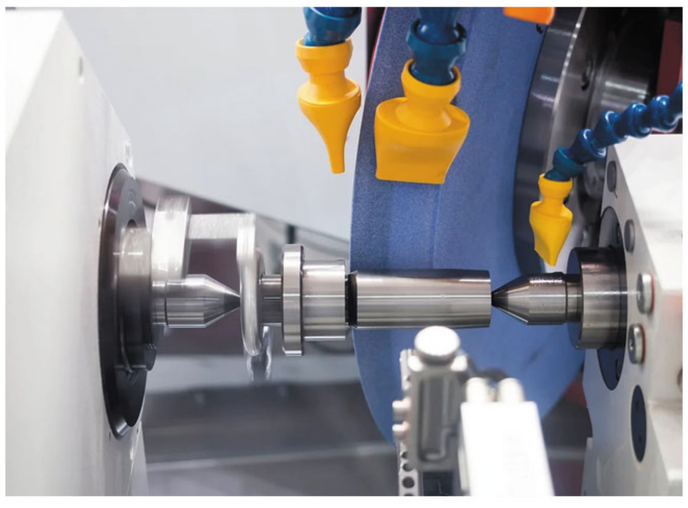


Wheels for External Cylindrical and Profile Grinding

For the external cylindrical grinding YGW offers a very comprehensive program. Our products are application technology applied on profile stability, schnitteistung and good cooling in the grinding contact zone. The product range offers for this application process all possible solutions for spherical grinding, centerless grinding and plunge.

Advantage

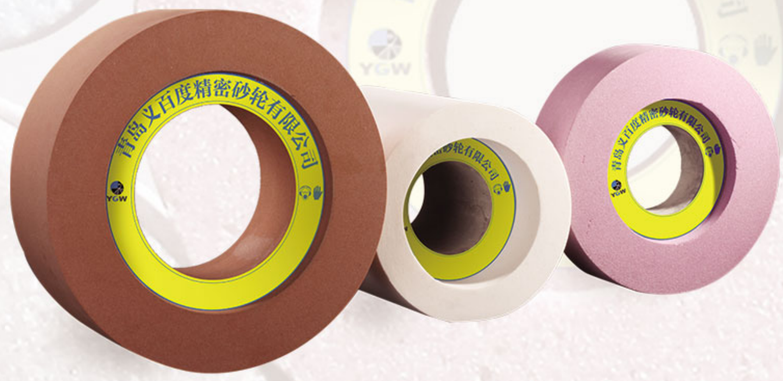
- High Quality, cool grinding and excellent metallographic structure.
- High Adaptability, no special requirement for grinding such as dressing tool and coolant.
- High Efficiency, excellent cutting edge with microcrystalline structure Long life, reduced dressing times.
- High precision, good profile retention.



Specification(mm)		
D	T	H
80-1100	10-300	10-305

Wheels for Internal Grinding

Internal grinding diameter of 5 mm to 150 mm we produce for you - according to your requirements.
Already using our standard program that is constantly held by the way, we cover a wide range of grinding applications.
Despite their small size, partly to internal grinding bodybe mature and sophisticated solutions for your grinding applications.
Especially with very small dimensions precision in grinding is paramount. High stock removal, cool grinding and cut joyful loops - these are the outstanding features of our products.
With or without hole - we customize for your desired dimensions, even in small quantities.



Advantage

- The best economic effectiveness
- Good process stability
- Good cooling grinding performance

Typical Test Result

Workpiece Information	Material	Bearing steel (Carbonitriding)	
	Dimension	NU307E IDφ35mm,T21mm	
	Hardness	HRC65	
Grinder Information	Type	3MZ206CNC	
	Spindle speed	Constant Speed	
	Dresser	Single Point Diamond Pencil	
Grinding Information	Roundness	0.002	
	Ra	0.32	
	Rough Grinding Allowance	0.15-0.2MM	
	Fine Grinding Allowance	0.08MM	
Test Result	Comparison		
	Brand	YGW	Other
	Dimension	1-32*25*10 5SG100K	1-32*25*10 SA/WA100L
	Dressing Frequency	Every 3	Every 1
	Dressing Amount	0.007 mm	0.01mm
	Single grinding time	25S	25S
	Single dressing time	10S	10S
	Conclusion		
	Service Life	YGW grinding wheel life can reach 4.3 times of the original grinding wheel	
	Work Efficiency	Work efficiency can be increased by 20% (The processing time of a single product is reduced from 35 seconds to 25 seconds, while reducing the frequency and time of wheel replacement)	

Wheels for Medical Needle

Cutting Wheels

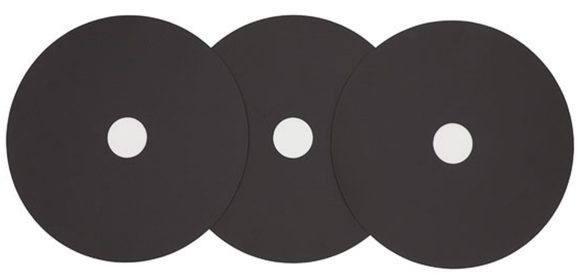
The ultra-thin mesh less cutting wheel wheel is specially designed for the medical needle industry, which requires high performance reinforced wheels to ensure good profile retention, clean cut, no burrs and no burns. The thickness of the cut-off wheels could reach to 0.5mm. In the field of medical needle cutting, our products occupy more than 75% market share in China.

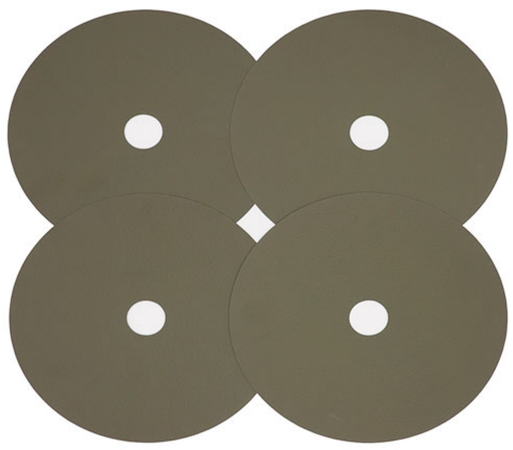
Mesh free coarse-grained cutting disc, as thin as 0.8mm, is also available for metallographic cutting, brake cable cutting, denture cutting.

Advantage

- Sharp, no burrs
- High Precision
- Small loss, large cutting amount

Specification(mm)			Selection Reference
D	T	H	
100	0.4-0.5	25.4/32	19G-22G-WA(GC)Grit400-500H(T)=0.4-0.5 23G-30G-WA(GC)Grit500-800 H(T)=0.4-0.5 Watch Parts-WA Grit 400 H(T)=0.5 Exhaust Convertor Tube-GC Grit 400 H(T)=0.5-1 Other stainless steel and non-metallic materials-GC Grit 400 H(T)=0.5-1
150	0.4-0.5	25.4/32	
180	0.5	25.4/32	
100	0.5-1	25.4/32	
150	0.8-2	12.7/25.4/32	
180	0.7-1.5	25.4/32	





Wheels for Medical Needle

Grinding Wheels

The major issues of needle grinding are occurrence of burrs and lifetime of grinding wheels. The superior grade consistency guarantees a predictable performance of the wheel, which is sold to the Middle East, Europe, Asia, covering the global market.

Apply to grinding and Pointing of Hypodermic Needles, Blood Lancets, Infusion Sets, Dental Needles etc.

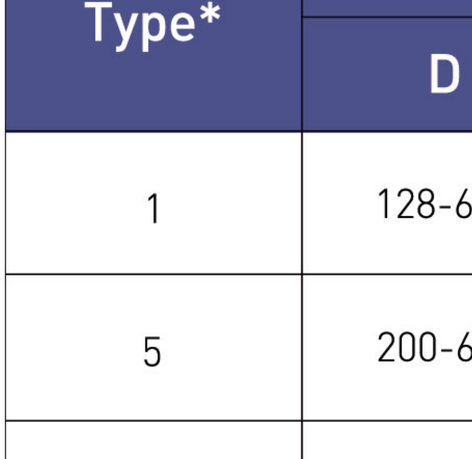
Standard and Non Standard Cannula Grinding.

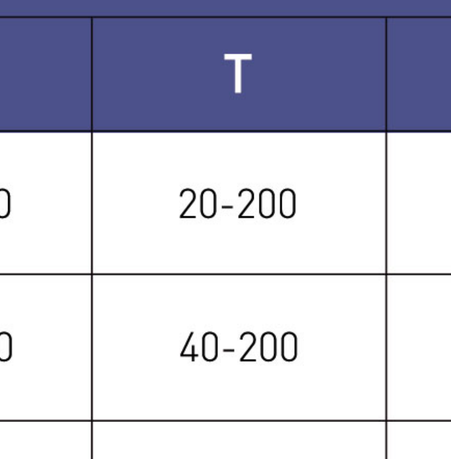
Advantage

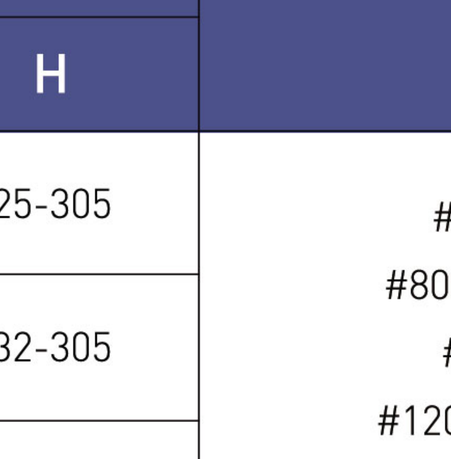
- Large feeding amount, small grinding wheel loss, long service life
- High sharpness, no burn，less burrs
- There is no need to dress the wheel during grinding

Type*	Specification(mm)			Grain
	D	T	H	
1	128-600	20-200	25-305	#600-rough grinding(16G-18G) #800-semi-finish grinding(16G-18G) #1000-fine grinding(19G-22G) #1200-polishing,side angle(23G-30G) #2000-Insulin needle
5	200-600	40-200	32-305	
7	300-600	40-200	76.2-305	

* Refer to page 6







Wheels for Stone and Marble Grinding

Used for all kinds of marble, stone polishing, grinding.
Can provide cup, bowl, cylindrical, cone shapes, exported to North America, South America, the Middle East region advantage

Advantage

- Special farad plate, high holding force, high-speed use more safe
- Up to 7800 RPM
- High yield and short delivery time

Size(Inch)	Grain	Material	Thread
1.5x3	16-220	C/GC	5/8 M14
2x2			
3x2			
3x3			
4x2 cup wheel			
5x2 cup wheel			
6x2 cup wheel			
4x2 Flare			
5x2 Flare			
6x2 Flare			

Follow these safety rules to prevent injury

Before Use

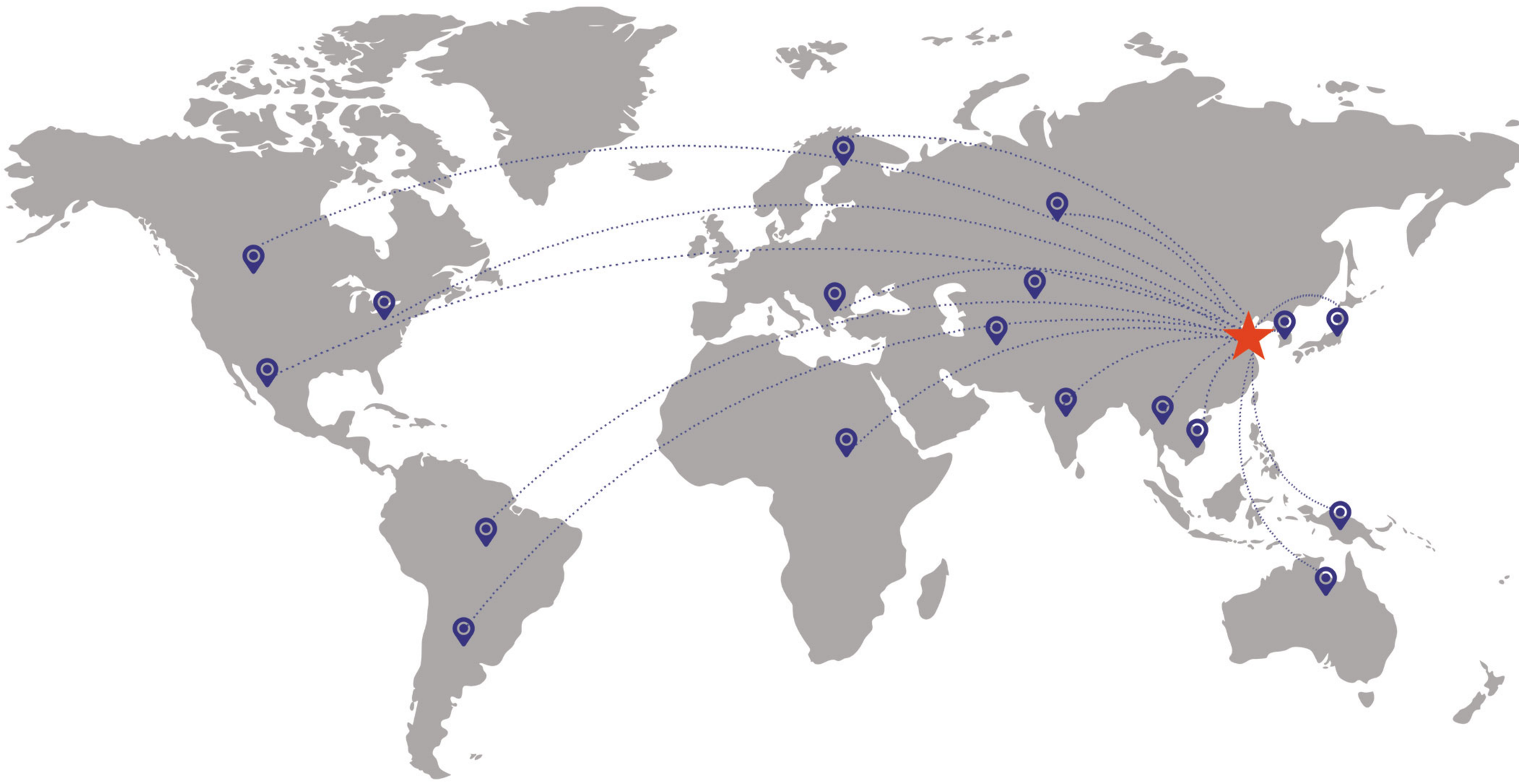
- Always handle and store wheels in a careful manner.
- Before mounting, visually inspect and ring test all wheels for possible damage.
- Check machine speed against the maximum safe operating speed marked on the wheel.
- Check mounting flanges for equal and correct diameter.
- Don't use a cracked wheel or one that has been dropped or damaged.
- Don't alter the shape of the wheel in any way.
- Don't force a wheel onto the machine or alter the size of the mounting hole.

During process

- Use mounting blotters when supplied with wheels.
- Be sure work rest is properly adjusted: leveled with or above the center of wheel; no more than 1/8" away from wheel.
- Always use a safety guard covering at least one-half of the grinding wheel.
- Allow newly-mounted wheels to run at operating speed, with guard in place, for at least one minute before grinding.
- Be sure to employ dust controls and/or protective measures appropriate to the material being ground.
- When shutting down a wet grinding operation, the fluid must be first shut off and allowing
- the wheel to rotate until the coolant has been spun out.
- Always wear safety glasses or any type of eye protection when grinding.
- Never exceed the maximum operating speed marked on wheel.
- Don't use mounting flanges on which the bearing surfaces are not clean, flat and free of burrs.
- Don't tighten the mounting nut excessively.
- Don't forcefully jam the workpiece into the wheel.
- Don't force grinding so that the machine noticeably slows down or the workpiece becomes overheated.
- Don't stand or allow another person to stand directly in front of or in line with a grinding wheel when the grinding machine is started.
- Don't grind on the side of the wheel (see safety code for exception).
- Don't start the machine until the wheel guard is in place.

International Trade Map

GLOBAL SALES



The company is actively expanding overseas markets, has been sold to the United States, India, Switzerland, Canada, New Zealand, Russia, South Korea, Iran, Ireland, Chile, Argentina, Vietnam and other more than 20 countries and regions

CLIENT ALBUM

Honor and qualification

QUALITY MANAGEMENT SYSTEM CERTIFICATION

QUALITY MANAGEMENT SYSTEM CERTIFICATION

NEW HIGH-TECH ENTERPRISE

NATIONAL PATENT

Factory Display

From our production plant in China

WITH PERFECT
PRODUCTION SYSTEM
AND STRICT
PRODUCTION CONTROL.

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