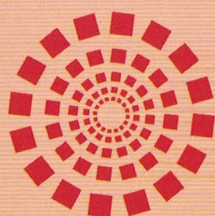
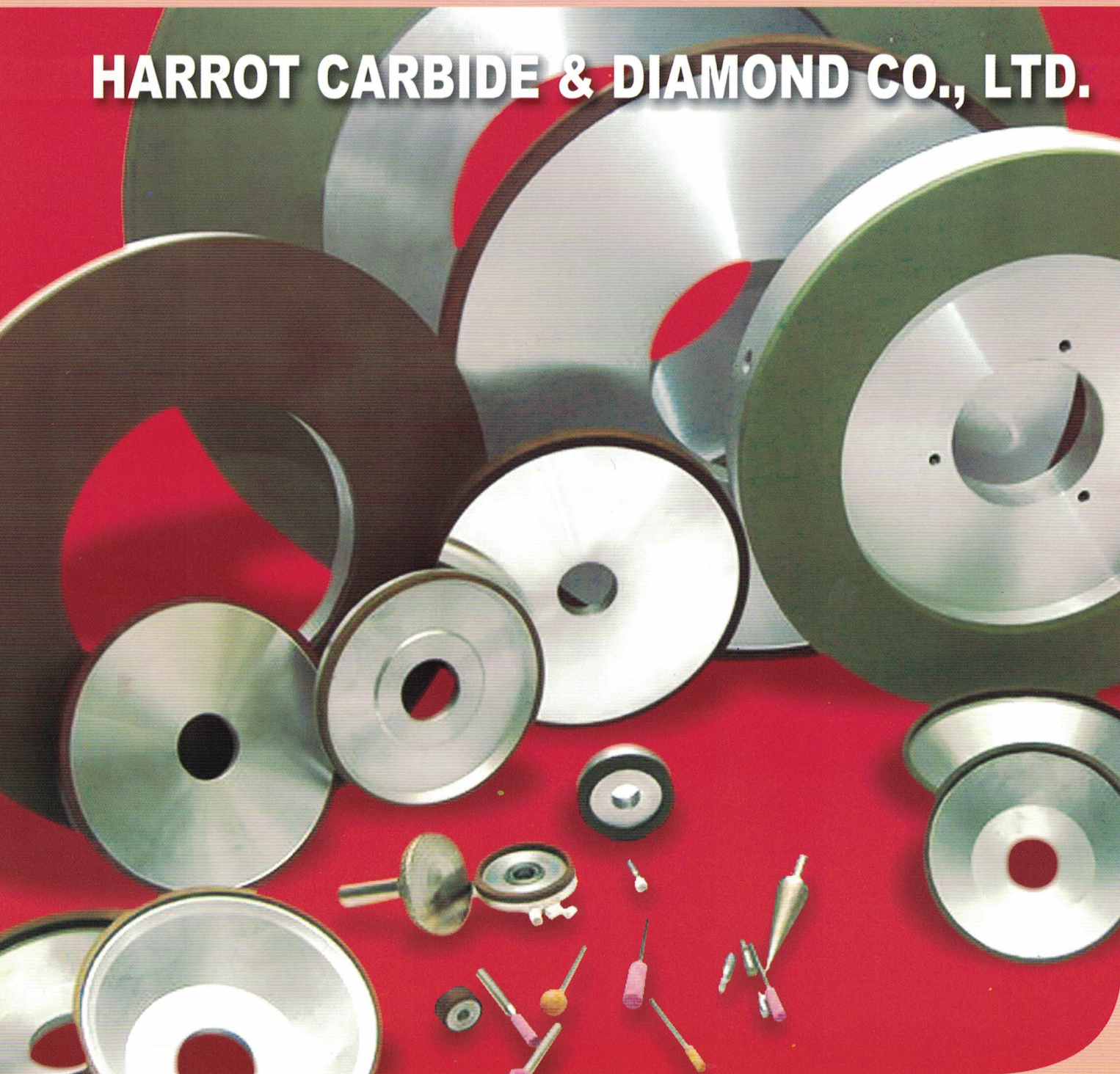


HAR

HARROT CARBIDE & DIAMOND CO., LTD.

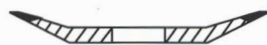


Types of Wheels

HR



Cone Wheel



12V9



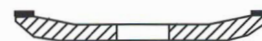
3A1



Ball Wheel



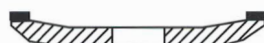
15A2



14A1



DW



15V4



9A3



1A8



15V9



6A9



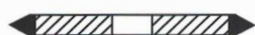
1A1



12B



6A2



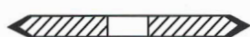
1E1



6A2H



1A1R



1EE1



6A2C



11A2



1V1



2A2T



11V4



4A2P



HH1



11V9



1F1



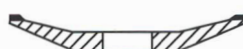
HH2



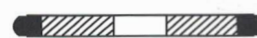
12V2



1FF1

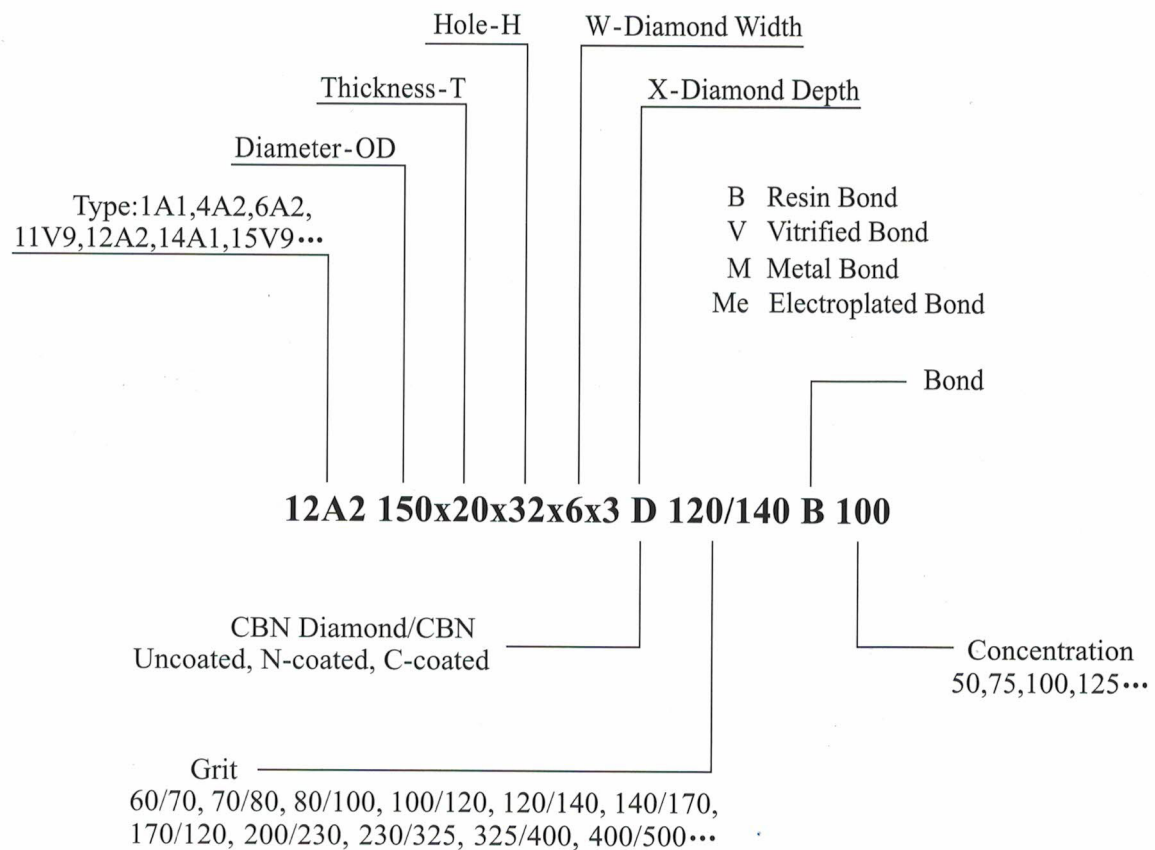


12V4



1A6Q

Marking of Diamond & CBN wheels



Ordering information

More detailed for your description, more proper wheels you could get, please let us know:

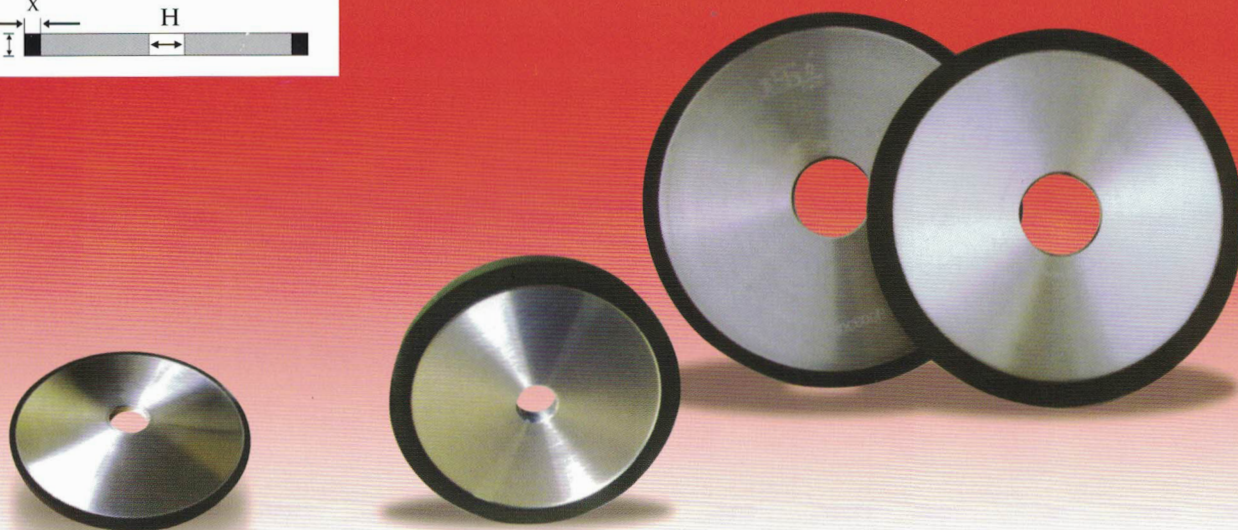
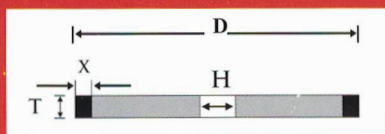
Type such as 1A1, 1A1R, 6A2, 11V9

Size Diameter, Thickness Hole, Width and depth of abrasive layer, angle

Specification Abrasive (D or CBN), Grit, Bond, Concentration

Workpiece Material, Grinding processs (wet or dry)

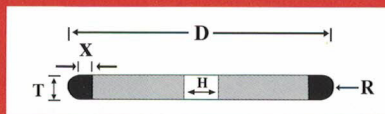
1A1



D	T	H	X
25	4,6,8,10,12,16,20		3
30	10,12,16,20		3
40	4,6,8,10,12,20		3
50	4,6,8,10,12,16,20		3
60	6,8,10,16,20		3,4,5,
75	3,4,6,8,10		3,4,5,
80	5,6,8,10,12,16,20		3,4,5,
100	3,4,5,6,8,10,12,16,20		3,4,5,6
125	3,4,5,6,8,10,12,15,16,20		3,4,5,6,8,10
150	3,4,5,6,8,10,12,15,16,20		3,4,5,6,8,10
175	5,8,10,12,16,20		3,4,5,6,8,10
200	5,6,8,10,12,15,16,20		3,4,5,6,8,10,15
250	5,8,10,12,15,16,20,25,40,50,60		3,4,5,6,8,10,15
300	8,10,12,16,20,25,32,40,50,60		3,4,5,6,8,10,15
350	12,15,16,20,25,32,40,50,60		3,4,5,6,8,10,15
400	10,12,15,16,20,25,32,40,50,60		3,4,5,6,8,10,15
450	12,15,20,40,50,60		3,4,5,6,8,10,15
500	12,15,20,40,50,60		3,4,5,6,8,10,15

Any other size available upon request

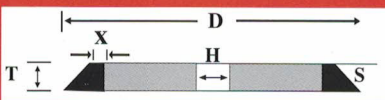
1F1



D	T/R	H	X
60	4/2		4
75	4.2/2.1		5
80	6/3		6
100	3/1.5, 6/3, 8/4, 10/5		3, 5, 6, 7
125	3/1.5, 6/3		3, 6

Any other size available upon request

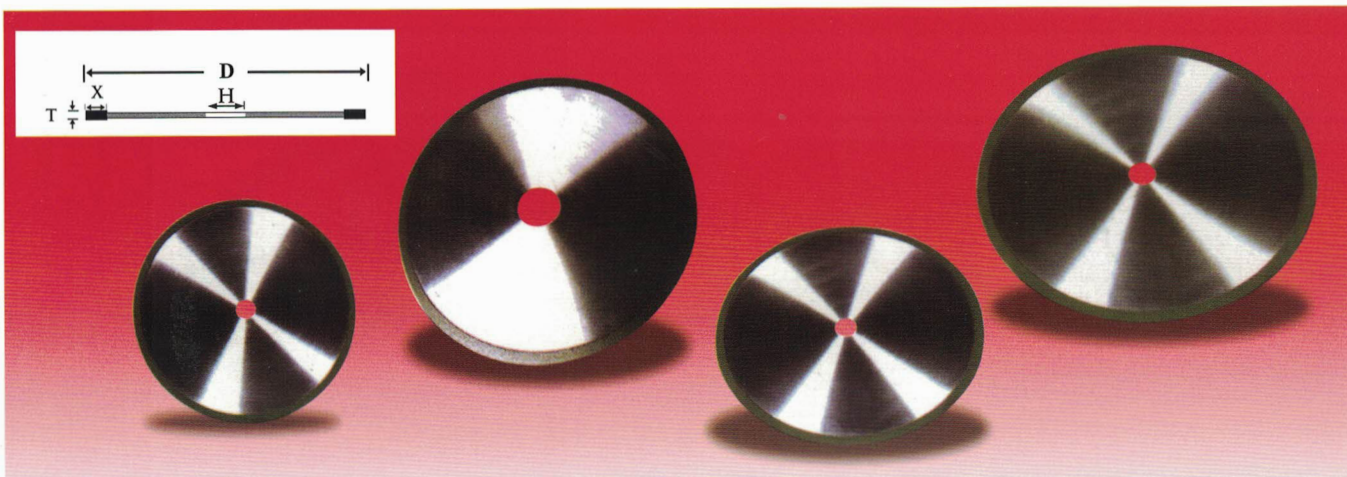
1V1



D	T	H	V
150	1.6		15°
150	3		20°
150	6		10°

Any other size available upon request

1A1R



D	T/E				X
	0.8/0.6	1.0/0.6	1.2/0.8	1.4/1.0	
60	✓				5
80	✓				5
100	✓	✓	✓	✓	5
150	✓	✓	✓	✓	6
200	✓	✓	✓	✓	6.8

Any other size available upon request

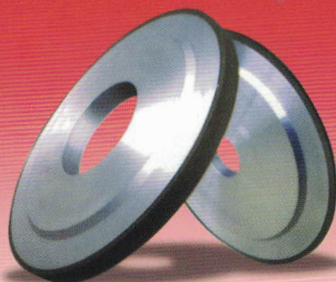
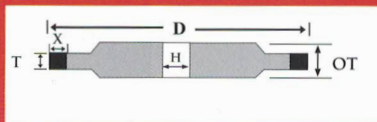
3A1



D	T	H	J	U	X
75	6		50	1.0	3
100	6		75	1.6	3
125	6		100	1.6	3
150	6		125	1.6	3
180	6		150	1.6	3
200	6		180	1.6	3

Any other size available upon request

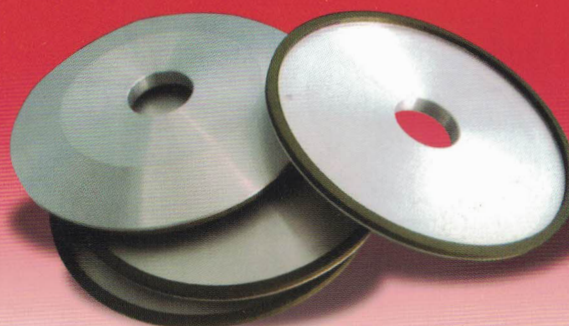
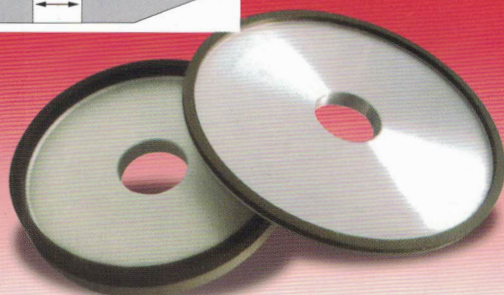
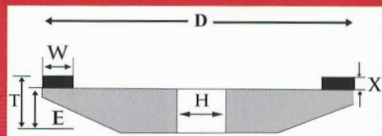
14A1



D	T	H	J	X	U
75	6		50	3	1,2
100	6,8		70	3	3
125	6,8,10,12		100	3	3
150	10,12		120	3	3
175	12,15		140	3	1,3,6
200	12,15,20		160	3	3,5,6

Any other size available upon request

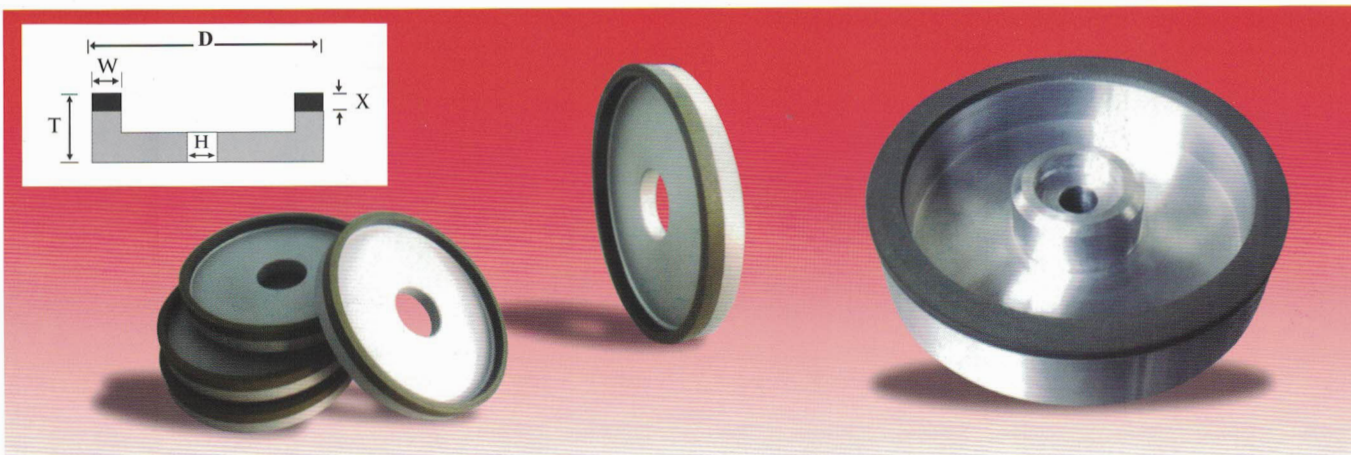
4A2,4A2P



D	T	H	J	W	X
150	10		57	3	1.5
150	10		57	6	3
150	10		57	10	1.5
200	10		100	6	1.5
250	13		125	6	1.5

Any other size available upon request

6A2



D	T	H	E	W	X
50	13		6	3,5,6	1.5
75	20		10	3,5,6,10	3
100	20		10	6,10,12	3
125	20		10	6,10,12,15,20	1.5
125	20		10	6,10,12,15,20,25	3
150	20		12	5,6,10,12,15,20,25,30	3
175	20		12	5,6,10,15,20,25	1.5
175	20		12	5,6,10,15,20,25	3
200	20		12	10,15,20,25	3

Any other size available upon request

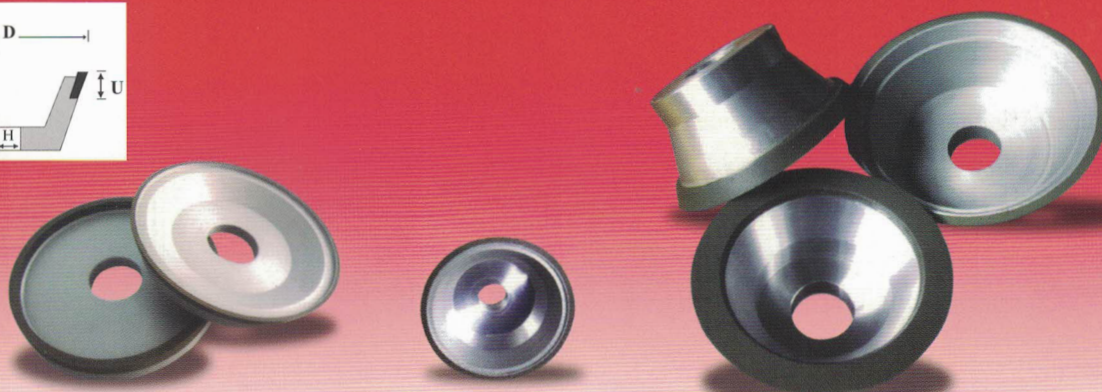
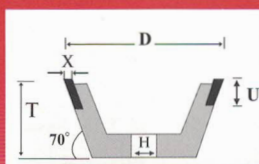
9A3



D	T	H	E	W	X
125	12		8	5	2
150	16		12	5	2
175	16		10	6	3
175	16		12	5	2
230	12		8	10	2

Any other size available upon request

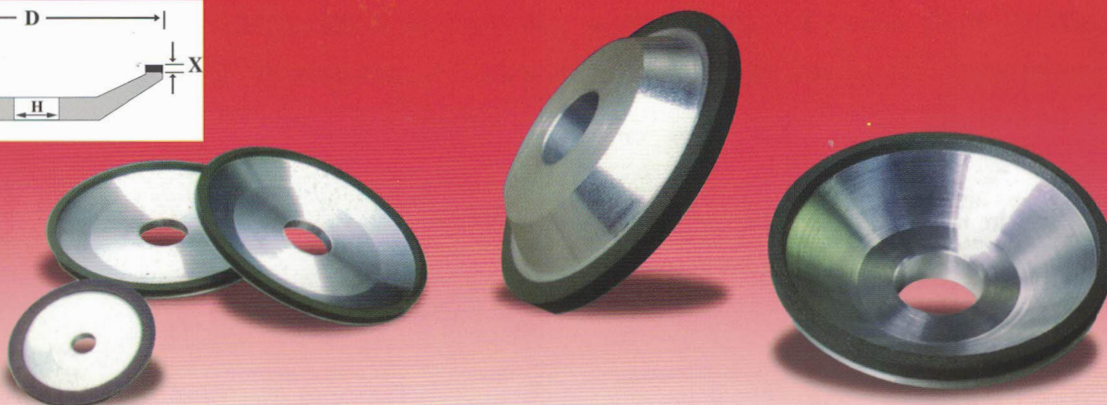
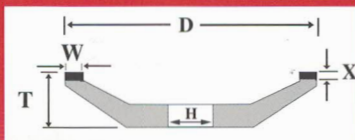
■ 11V9, 12V9



D	T	H	E	K	S	U	X
50	25		6	12	60	5	1.5,2,3
75	32		1 / 4	12		5,7	2,3
90	35		10	56	70	7, 10	2,3
100	40		10	56		7, 10	2,3
125	40,45		13	80		7, 10	2,3
150	40,45		13	80		7, 10	2,3

Any other size available upon request

■ 12A2



D	T	H	E	K	S	U	X
50	25		6	12	60	5	1.5,2,3
75	32		1 / 4	12		5,7	2,3
90	35		10	56	70	7, 10	2,3
100	40		10	56		7, 10	2,3
125	40,45		13	80		7, 10	2,3
150	40,45		13	80		7, 10	2,3

Any other size available upon request

Diamond/CBN wheels for CNC grinders

Applications: Diamond wheels for carbide or carbide/steel; CBN wheels for HSS, Inconel, or Stellite

Wheels are available for the grinders:

Walter, Weinig, Anca, Guhring, Reineker, Schneeberger, Rollomatic, Wadkin, Foley, SCMI, Star, Unison, United, Tigra, Andi, Nielson

Diameters: 6", 8", 10", 150mm, 200mm, 250mm

Thickness: 1/16", 1/8", 1/4", 1.5mm, 2mm, 3mm, 4mm, 5mm

Grit: 100/120 to 325/400

Concentration: 100, 125



Diamond wheels for 5-Axis

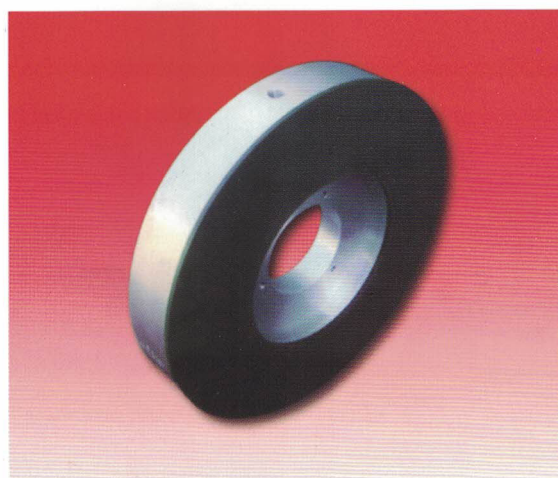
Double-disc Surface CBN Wheels

Applications: Resin bond CBN wheels can be used for double-disc surface grinding of compressor parts, precision springs, vane pump vanes and rotors, washers, transmission gears, the inner and outer race surfaces of bearings, etc.

Available for the materials: HSS, bearing steel, carbon tool steel, spring steel, die steel, cast iron, sintered ferrous metal, etc.

Features:

- High stock removal
- High grinding quality
- Short grinding duration
- Long life time
- Continuous grinding performance
- Optimized cooling



Double-disc Surface CBN wheels for compressor parts

Ultra Thin and Ultra Precision Diamond Discs:

Applications: It is suited for: High-tech electronic parts and related products such as magnetic head, IC, LSI, optical fiber, semiconductor, electronic lead frame and etc, require high precision disc wheel with high precision, efficiency Cutting, Slicing, Dicing, Wafering, Grooving, Slotting, Cross Sectioning, Gang Sawing, Slabbing, etc.

Available for the materials: All kinds of resin materials used in Electronic and Optical fields, Quartz, Glass, Ceramics, Yag, Sapphire, Agate, Granite, Marble, etc.



Ultra thin & ultra precision discs for different application

Features:

Ultra Precision: Size precision can reach to $\pm 0.002\text{mm}$

High Rigidity: Good rigidity prevent the operation from slant and vibration

Long Life Time: New technology keeps the disc's long life time

Usage in Group: 10 or 12 in group makes high efficient operation

Vitrified CBN Wheels :

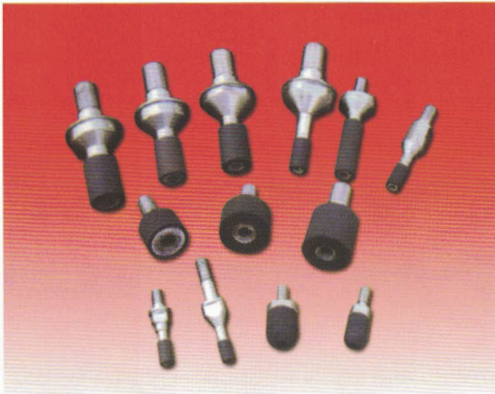
Features: High machining precision and efficiency, little deformation, high fragility and sharpness, high Chemical Stability. The wheels can be applied to a wide variety of materials, including cemented steel, carbon steel, bearing steel, Heat Resistant Steel, sintered alloy, etc.

Typical Application:

1. For the grinding of camshafts and Crankshafts
2. For the grooving of vane pump rotors and synchromesh ball-joints and the forming injection parts, etc.



Vitrified CBN wheel for Crankshaft



Vitrified CBN wheels for internal grinding

3. For internal grinding of various auto parts, including transmission gears, injection nozzles, cross joint caps, and connecting rods CVJ outer races and raceways, spherical surfaces. They are also used for internal grinding of bearing inner races, and compressor and pump parts

Vitrified Diamond Wheels For PCD/PCBN

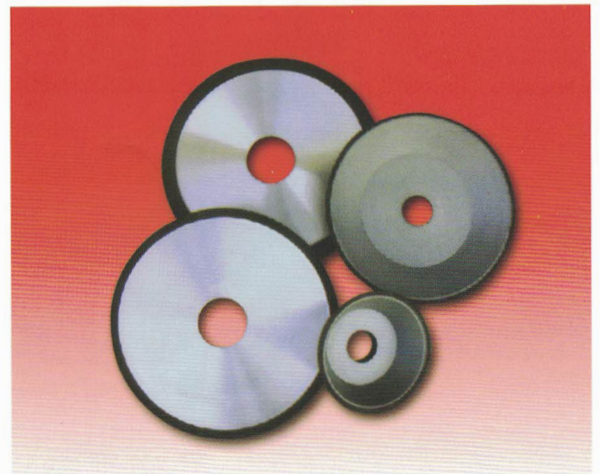


Features:

- PCD/PCBN Specifically designed for Polycrystalline Diamond and CBN
- High stock removal
- Excellent cutting edges
- Long life performance
- Reduced cycle times
- Fine to Micro Grits

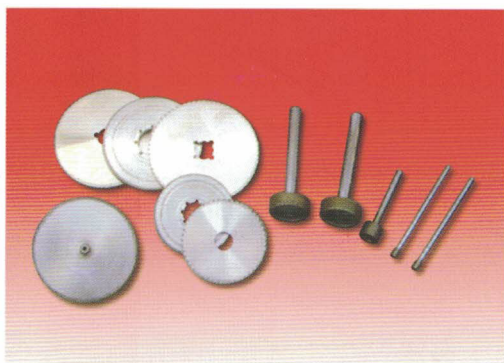
Diamond/CBN Wheels for Woodworking & MetalWorking

A complete line of diamond wheels made with American, British technology and equipment for top, face & dual side grinding. Different bonds and design, dual or triple grit wheels to meet your exact requirements. A complete line of cup wheels for standard manual Tool & Cutter grinders. Available in both diamond & CBN bond for both wet or dry grinding. Polyamide wheels for fluting, gashing and grinding of drills, reamers and mills are also customers' choice.



Resin diamond wheels for woodworking & metalworking

Precision Electroplated Diamond Products



Precision plated diamond/CBN tools

With the importation of the complete line of technology and equipment from Trenker Abrasive Plant Technology, Germany, Saili is making a wide range of specialized electroplated diamond and CBN tools including bore finishing tools, core drills, glass reamers, diamond routers, plated screen, and diamond files.

Available for the materials:

Diamond tools:

For Carbide, Carbon, Semiconductor, Ceramic, Composites, Medical Devices, Fiberglass, Quartz, Marble, Lapidary, Graphite, Friction Material, etc.

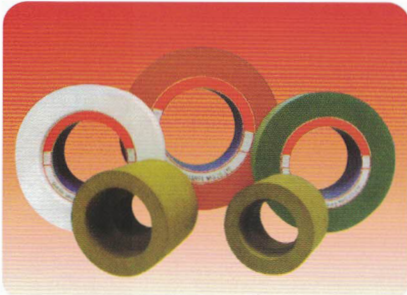
CBN tools: For Alloy Steel, Hardened Tool Steel, Superalloys, Stainless, Cast Iron, etc.



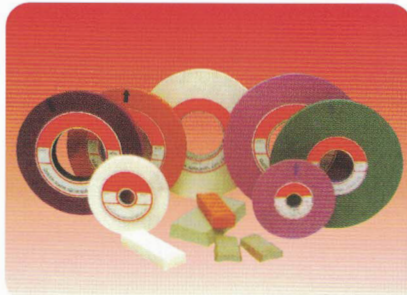
Wheels for Paper Blades



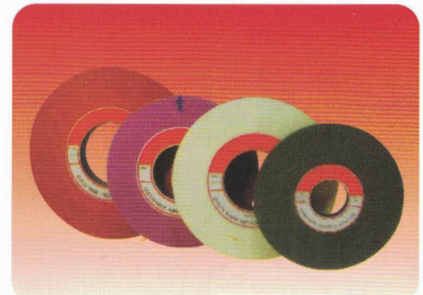
Double or three-layer 6A2,6A9,12V2 and other types of wheels can be supplied:



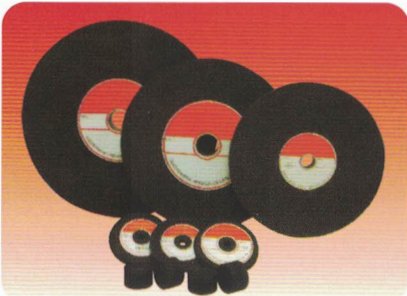
CENTERLESS GRINDING WHEELS
หินเจียรไร้ศูนย์



SURFACE GRINDING WHEELS
หินเจียรราบ



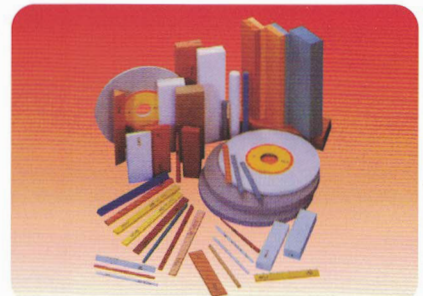
CYLINDER GRINDING WHEELS
หินเจียรกลม



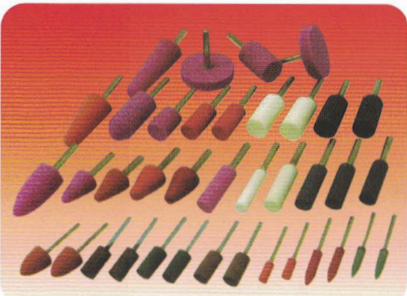
SNAGGING GRINDING WHEELS
หินเจียรงานหล่อ



HOINING STONE
หินเจียรขัดกระบอกล



MOLD STONES
หินเจียรขัดพิมพ์



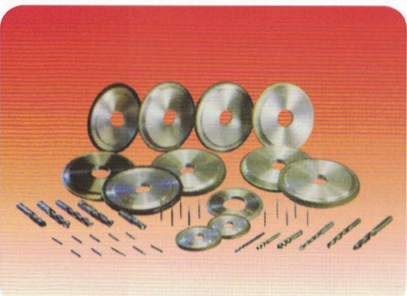
MOUNTED POINTS
หินเจียรแกน



GENERAL PURPOSE GRINDING WHEELS
หินเจียรทั่วไป



DIAMOND FILES MOUNTED POINTS
ตะไบเพชร หัวเจียรเพชร



DIAMOND & CBN WHEELS
หินเจียรเพชร



DIAMOND DRESSOR
เพชรแต่งหิน



ELASTIC MOUNTED POINTS
หินเจียรแกนขัดเงา



MOUNTED FLAP WHEELS
จานทรายและล้อทราย



CUTTING WHEELS
ใบตัดไฟเบอร์



OFFSET WHEELS
ไบเจียรไฟเบอร์

MAIN PRODUCTS

DIAMOND & CBN GRINDING WHEELS

DIAMOND DRESSING TOOLS

PCN & PCBN TURNING TOOLS

DIAMOND TOOLS & FOR MASONRY

SAW BLADE, WHEELS, CORE DRILL & CBN TOOLS.

ELECTROPLATED DIAMOND & CBN TOOLS

FILES, MOUNTED POINTS, WHEEL & DENTAL INSTRUMENT.

DIAMOND POLISHING TOOLS

COMPOUNDS, POWDERS, FOILS & HAND STONES.

เราเลือกสรรอุปกรณ์ที่มาตรฐานเพื่อการผลิตงานเจียรแต่งด้านอุตสาหกรรม

ให้ได้รูปแบบที่ดีของตลาด

เราภูมิใจที่เป็นส่วนหนึ่งในการสร้างสรรค์งานในประเทศ

ผู้ผลิตและจำหน่ายเครื่องมือ อุปกรณ์เคลือบชุบเพชร

บริษัท ฮาร์โรท คาร์ไบด์แอนด์ไดมอนด์ จำกัด

1056/6 ถนนรามคำแหง • แขวงหัวหมาก

เขตบางกะปิ กรุงเทพฯ 10240

โทร. (662) 376-3451-3 โทรสาร: (662) 376-3454



HARROT CARBIDE & DIAMOND CO., LTD.

1056/6 Ramkhamhaeng Rd., Huamark,

Bangkapi, Bangkok 10240

Tel. (662) 376-3451-3 Fax: (662) 376-3454