Natural Diamond

Natural diamond is produced in only a few favored places in the world because of the very unusual conditions under which it occurs. Rough diamonds are used in wire drawing dies, drill bits, dressers, etc.

Synthetic Diamond

Synthetic diamond is different from natural diamond in that it can be mass-produced and that optimum properties for particular applications can be imparted to it. Synthetic diamonds play an important role in improving the workability of hard, brittle materials, such as stone, concrete, and carbides.

Cubic Boron Nitride (CBN)

Like synthetic diamond, CBN is artificially made under extremely high temperature and pressure. CBN is a substance which does not occur in nature. Second only to diamond in hardness, CBN has excellent heat resistance and mechanical strength. Because of these properties, CBN is used in tools for grinding very tough materials, such as hard steels and alloys.

SUNPAX: Polycrystalline Diamond (PCD)

SUNPAX is produced by processing a mixture of polycrystalline synthetic diamond powder and bonding agent under high temperature and pressure. It is used in precision cutting tools for various nonferrous metals, nonmetals, and composite materials and in wear-resistant tools.

SUNNITE: Polycrystalline Cubic Boron Nitride (PCBN)

SUNNITE is produced by processing a mixture of polycrystalline CBN powder and bonding agent under very high temperature and pressure. It is especially suitable for tools used in cutting extremely hard materials, such as hardened steels and heat-resistant steels.

Chemical Vapor Deposition (CVD) Diamond

CVD diamond film, which is made through chemical vapor-phase synthesis, is used in microdrills, TAB tools, and various other precision diamond tools.
Utilizing the unique characteristics of diamond

Diamond is one of nature’s most precious gifts to humankind. Its sturdy crystalline structure and strong atomic bond give it properties which make it ideal for use in the working of advanced technology materials.

As industry develops more complex materials which require increasingly sophisticated equipment to cut, drill, shape, grind and polish them for highly specialized uses, diamond will become indispensable.

As the world’s leading producer of highly functional diamond and cubic boron nitride tools, and backed by superior technological capabilities, Asahi Diamond continues to enhance the performance and increase the value-added content its products.
The growth of the automobile, electrical machinery, and bearing industries has been instrumental in Japan’s rapid economic development. High-precision tools are an integral part of the advanced, fully automated mass-production systems employed by these industries. As one of the world’s leading precision tool manufacturers, Asahi Diamond has created a full range of super-abrasive grinding wheels for use in automobile, electrical machinery, and bearing manufacturing.

Vitrified Bond CBN Wheels (for grinding camshafts) “VT Series”
Vitrified bond CBN wheels are used for grinding the cam lobes of automobile camshafts. Optimum bond specifications have been set for each type of cam material, and since the wheels are used for high-speed grinding, bond quality, adhesives, and the materials used for the core are carefully designed for safety.

Vitrified Bond CBN Wheels (for internal grinding) “VS Series”
Vitrified bond CBN wheels are also used 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. The wheels can be applied to a wide variety of materials, including cemented steel, carbon steel, bearing steel, sintered alloy, etc.
Resin Bond CBN Wheels (for double-disc surface grinding)

Resin bond CBN wheels are used for double-disc surface grinding of the inner and outer race surfaces of bearings, transmission gears, washers, tappet shims, compressor parts, vane pump vanes and rotors, precision springs, etc. These are applicable to a wide range of materials, such as high-speed tool steel, die steel, bearing steel, carbon tool steel, spring steel, cast iron, sintered ferrous metal, etc. Our superior know-how for this wide surface wheel is applied in CBN distribution, consistent bond quality and dimensional accuracy.

Vitrified Bond CBN Wheels (for centerless grinding)

Vitrified bond CBN wheels are used for centerless grinding of various types of bearing rollers, injection nozzles, pump parts, etc. Since CBN has excellent grinding characteristics, vitrified bond CBN wheels need not be as large as conventional abrasive wheels. However, due to their comparatively large width and diameter, and in order to maintain wheel balance essential for high-speed revolution, a ceramic core is used to reduce overall weight and prevent thermal deformation.

Vitrified Bond CBN Wheels (for grooving & forming)

Vitrified bond CBN wheels are used for grooving vane pump rotors and synchronesh ball-joints, etc., as well as for forming injection parts.
Electroplated CBN Wheels

The CBN layer, electroplated onto the core of the wheel, has excellent cutting ability due to its greater protrusion of CBN particles. This structure is suitable for high precision formed wheels such as those used in gear form grinding. It is also used for high-speed grinding applications, owing to its extremely rigid core.
**Diamond Wheels**  
(for pencil edging automobile window glass)

Metal bond diamond wheels used for pencil edging automobile window glass and diamond core drills for drilling holes in it have contributed greatly to automobile safety.

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**Diamond Gear Dressers**

Gear-shaped diamond roller dressers are used for dressing worm gear-shaped abrasive grinding wheels and internal gear-shaped abrasive grinding wheels. These gear dressers are effective in mass production of those high precision gears.

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**Diamond & CBN Honing Stones**

Honing stones are used for accurate and efficient honing of the inner surfaces of holes in automotive parts, such as cylinder liners, connecting rods, crankshaft bearings, valve rocker arms, transmission gears and brake hydraulic cylinders, and in vessel and generator parts, such as engine cylinder liners and compressors.
A diamond dresser has one or more diamonds mounted on the tip of its shank and is used for truing and dressing abrasive grinding wheels. The efficiency of grinding and finishing depends on the quality of the dresser. Asahi Diamond manufactures a broad range of diamond dressers, including:

- Single-point dressers
- Pyramid dressers
- Conical dressers
- Forming dressers
- Multi-point dressers
- Blade dressers
- Bond dressers
- Impregnated dressers

Diamond roller dressers are used for forming and dressing fired abrasive grinding wheels and CBN wheels. Since these dressers are capable of accurate and speedy form dressing, they can effectively be used to mass produce work parts with a high degree of accuracy. Diamond roller dressers are available in sintered and electroforming types.
SUNPAX & SUNNITE Machining Tools

Reamers
SUNPAX reamers are used for finishing drilled holes to precise specifications in auto parts such as engines and transmissions, and home appliance components.

End Mills
SUNPAX or SUNNITE end mills are used for cutting aluminum alloy, steel, etc.

Turning Tools & Drills
Natural diamond, SUNPAX or SUNNITE turning tools/drills are used as the cutting edge depending on the material to be worked, i.e., nonmetals, castings, cemented carbide alloys, etc.

Machining of a cylinder block

WEAR PARTS

SUNPAX Wear Parts

Lathe Centers
SUNPAX lathe centers, which hold work pieces on a lathe or grinding machine, dramatically increase wear resistance and durability over of tungsten carbide.

Centerless Blades (Work-Rest)
SUNPAX also greatly improves accuracy and efficiency at the work-rest of a centerless grinding machine.

Shoe & Rest
The shoe and rest are used for fixing work pieces on a grinding machine. SUNPAX used for the shoe and rest increases accuracy and durability.

Gauge Heads
Diamond or SUNPAX applied to gauge heads for measuring the dimensions of machined parts reduces wear and improves measuring accuracy due to its durability.
Many industries, including mould, machinery, tools, etc., which have supported the automobile and electrical machinery industries, continue to expand their operations to encompass other and new industries outside their original fields by applying and improving their processing methods. Asahi Diamond manufacturers highly advanced industrial-use tools that can process a wide range of materials for various applications, and contributes to all industries with its superior know-how.

**Diamond Wheels**

(for grinding machining tools)

To grind machining tools made of cemented carbide alloys, cermets, ceramics, etc., a wide variety of unique and effective bonds (Polyx, resin, metal, vitrified and electroplated) is available for different purposes and uses.
Metal Bond CBN Wheels
Metal bond CBN wheels are used for vertical spindle surface grinding of tool materials, fluting and gash grinding of end mills, and profile grinding in which the life and form of work pieces is essential.

Vitrified Bond CBN Wheels
Vitrified bond CBN wheels are used in the thread grinding of rolling dies, ball screws, and taps, as well as for form grinding of die punches and working tools, the grinding of gears and the grinding of machine bed surfaces.

Resin Bond CBN Wheels
Resin bond CBN wheels are used for sharpening the cutting edges of taps, end mills, drills, reamers, milling cutters, etc., as well as for fluting, cylindrical grinding and centerless grinding of shanks.
CBN Neo-Star wheels, which employ heat-resistant resin, are ideal for grinding for hard sintered high-speed steel.

Diamond Wheels
Diamond wheels used for precision grinding of dies include a broad range of wheels with assorted bonds to meet varying work specifications.
**Precision Cutting Wheels**

These are precision cutting wheels featuring a layer of diamond or CBN bonded on the periphery of a highly rigid metal core. Various types of bonds (metal, resin, electroplated) and edge shapes (V-shape, R-shape, etc.) are available for many different purposes.

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**SUNPAX & SUNNITE Machining Tools**

SUNPAX and SUNNITE machining tools, such as bits, end mills, drills and reamers are used in the cutting of a variety of metallic and non-metallic materials.
SUNPAX Wear Parts

Lathe Centers
SUNPAX lathe centers for holding works on a lathe or grinding machine offer exceptional durability and increase accuracy.

Centerless Blades
SUNPAX blades for centerless grinding machines increase tool working accuracy and efficiency well over tungsten carbide.

OTHER TOOLS

Diamond hand stones

Diamond files

Diamond paste and diluent, and diamond slurry

Electroplated Wheels with Shaft
Semiconductors and a wide range of other electronic components are among the essential building blocks of modern industry. Technological development across the entire spectrum of industry is resulting in the need for increasingly stringent requirements for precision and efficiency in tools, materials processing and in production systems.

As a technology-based producer of highly advanced industrial tools and processing methods, Asahi Diamond continues to increase the precision and durability of its expanding range of products.

**Slicing Silicon Ingots**

**ID Blades**

ID blades are used to slice silicon ingots and other semiconductive materials with a high degree of accuracy. ID blades have been developed to accommodate increasingly larger wafer sizes and are also used to slice glass, ceramics, and other hard materials.

**Grinding Outer Diameter & Orientation Flat**

**Diamond Wheels**

A cup-type diamond wheel is used to grind the outer diameter of silicon ingots and work on the orientation flat.

A special V-shaped wheel is employed to cut an orientation notch.

**Electroplated Diamond Band Saws**

Thin-band saws (consisting of an endless, high-strength steel band with an electroplated diamond cutting edge) is capable of cutting large-diameter silicon ingots and other large diameter materials accurately and efficiently and can be manufactured in different sizes.

**Cutting Silicon Ingot**

**Wheel for grinding wafers**

**ID blades**
Chemical mechanical polishing (CMP) helps smooth wafer surfaces, an important part of VLSI production. Conditioning is essential to assure stable CMP grinding. Asahi Diamond offers a variety of CMP conditioners to suit diverse wafer shapes and specifications.

### Back Grinding of Wafers

**Diamond Wheels (for back grinding of wafers)**

By using a diamond wheel for back grinding of patterned silicon wafers, it is possible to obtain a smooth, surface finish with minimum working strain.
**Collet Holders**

The collet holder using SUNPAX draws IC chips accurately and greatly reduces damage to them.

**Alignment Pawls**

Use of a SUNPAX alignment pawl to position IC chips improves accuracy and increases durability.

**Bonding Stage**

Applying SUNPAX to base metal improves finishing accuracy and bonding efficiency.

**Pusher Pins**

CVD diamond has been applied to the pusher pin for IC chip fixing tape.

**TAB Cleaner**

TAB cleaner using CBN abrasive grains is far more durable than conventional ceramic cleaners.

**Collet Holders**

The collet holder using SUNPAX draws IC chips accurately and greatly reduces damage to them.

**Alignment Pawls**

Use of a SUNPAX alignment pawl to position IC chips improves accuracy and increases durability.
Diamond Scribers

Diamond scribers are used for scribing silicon wafers into pellets and are available in different configurations, including cone-shaped, multi-pointed and shell-shaped. Each is specifically adapted to various work requirement. Multi-pointed scribers rotate to make use of a new tip after wear, offering longer tool life.

Electroplated Diamond Wire “EcoMEP”

Using a unique electroplating technology Asahi is able to diamond coat high tensile wire very precisely. This manufacturing technology provides a significant improvement over conventional slurry type wire saw. Observed advantages are reduced cutting time, less kerf loss, improved flatness when sawing silicon, sapphire and other hard and brittle materials.

Diamond Metal Band Saws

Diamond metal band saws cut polycrystalline silicon, used in solar cells, and quartz glass used in semiconductor manufacturing equipment and optical lenses. Large objects can be accurately and efficiently cut with band saws that can be made for a variety of machines.

Precision Cutting Wheels (Multi-Set Type)

The multi-cutter type precision cutting wheel can cut and groove mass-produced articles with high precision. It is important to match the wheel precision, multi-setting technology and selection of wheel specification to the specific job requirement.

SUNPAX Cutters for Chamfering PCBs

When resin materials (PCBs etc.) are cut, SUNPAX cutters are invaluable to chamfer them. Precise and sharp, they can provide a smooth surface finish.

Precision Cutting Wheels (Non-Core Type)

To work on precision electronic parts, a thin cutting wheel is required. Asahi Diamond’s non-core type wheels are hubless and highly precise. The wheels are commonly used with dicing machines or high precision slicing machines. Various types of bonds (metal, resin, electroforming) are available for this type of cutting wheel, which is also used to cut magnetic heads, glass, the ceramics used in electronics, and other materials.
Diamond tools are being utilized to work an increasingly diverse range of glass, ceramic and magnetic materials. Many new types of highly functional ceramics have been developed as an outgrowth of research and development on conventional ceramic materials. Also, many new magnetic materials, including ferrites, have been developed.

As the range of new materials continues to expand, Asahi Diamond is actively developing high-precision working tools that meet the evolving needs of industry.
**Diamond Wheels (for chamfering sheet glass)**

Metal bond diamond wheels play an important role in the pencil edging of sheet glass for automobiles, buildings and various types of mirrors.

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**Diamond Wheels (for beveling sheet glass)**

Metal or Polyx bond diamond wheels are capable of beveling various types of glass and building materials with accuracy and efficiency.

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**Diamond Wheels (for edging thin sheet glass)**

Metal bond diamond wheels are also used in the chamfering of thin sheet glass, such as the screens used in televisions, clocks, and personal computers.
Diamond Wheels

As some types of ceramics are relatively easy to grind and others extremely difficult, various types of diamond wheels are employed. Asahi Diamond continues to develop new bonding technology in order to produce tools capable of working the increasingly complex materials being developed in various industries.
**Diamond Wheels**

The tooling requirements of advanced processes, such as internal grinding, cylindrical grinding, centerless grinding, double-disc surface grinding, thread-grinding and cutting of ferrites, samarium cobalt, neodymium iron and other magnetic materials, vary widely. Asahi Diamond's overall technological capabilities, and its expertise in bond selection in particular, has enabled it to keep pace with the quickly evolving needs of its customers.

- Diamond wheels for centerless grinding (metal and resin bond wheels for grinding magnetic materials)
- Metal bond diamond wheels for double-disc surface grinding
- Precision cutting wheels
- Metal bond diamond wheels for grinding rotary transformer cores
- Electroplated formed diamond wheels for grinding magnetic and ceramic materials
- Resin bond diamond wheels for mirror-finish grinding of magnetic heads

Examples of working on ferrites
Diamond Circular Saw Blades

Diamond circular saw blades are used to cut granite, marble and other natural stone, as well as brick and tile, and are available in sizes from 4 to 140 inches in diameter. In situations where noise-reduced blades are required, Asahi Diamond’s medium-diameter Prime Saw blades are ideal, featuring improved cutting finish and precision, as well as longer life, than conventional blades.

Diamond Circular Saw Blades “Slide-on Type”

The Slide-on Type diamond saw blade is equipped with a unique replaceable cassette-tip mechanism that allows diamond segments to be replaced without removing the blade from the machine.

Diamond Frame Saws

Frame saws are used for cutting multiple slabs from large blocks of marble and other stone materials at a fraction of the time it would take using a conventional single blade saw.

For centuries, stone materials were worked by the skillful hands of masons using only hammer and chisel. Today, stone is processed by diamond with much higher speed and efficiency. Asahi Diamond has developed a broad range of high-precision tools for processing stone and other materials for tombstones, building exteriors and interiors, pavement, and countless other uses.
Circular Saw Blades for Trimming
Precise cutting is essential to construction processes involving natural stone. Asahi Diamond’s stone cutting, high-performance saw blades are known for their accuracy, speed and durability.

Diamond Portable Cutters “Blue,” “Light Blue”
The Blue Series are the ultimate portable cutters suitable for dry stone cutting. Asahi Diamond supplies the “Blue” cutters for both long-life and first-rate cutting and the “Light Blue” cutters for minimal chipping when cutting.

Blades for Masonry Saws “S-cut”
Asahi Diamond’s masonry saw blades S-cut perform with a superior degree of accuracy and speed.

Diamond Wire Saws “Prime Wire”
Prime Wire is used in situations where saw blades are impractical, such as when cutting very large stones. We offer a full array of Prime Wire products to suit a variety of machinery and other conditions.

Diamond Cup Wheels
Designed for grinding chamfers, curved and flat surfaces on granite and other hard stones.
Metal Bond Polishing Wheels
Asahi Diamond produces various types of metal bond polishing wheels for rough polishing of stone, including the standard, resin-embedded, tip replaceable and other types.

Resin Bond Polishing Wheels
Resin bond polishing wheels bring out the natural luster and brilliance of stone.

Diamond Drum Wheels
Diamond drum wheels are indispensable in the form grinding of stone materials. Applicable to various stone shapes, the drum wheels restore the original finish of the stone.

Diamond Polishing Wheels
Diamond polishing wheels have helped to reduce the cost of polishing stone, concrete, brick, and various other materials.

GRINDING / POLISHING

Diamond Core Drills
Diamond core drills are used primarily for drilling stone and are indispensable in drilling holes of different diameters in stone or cutting out stone cylinders.

DRILLING / OTHERS

Special Diamond Tools
Asahi Diamond manufactures various special tools which are useful in the form grinding of stone and can be applied to various stone shapes and uses.
Diamond Impregnated Core Bits
Asahi Diamond’s diamond core bits come in an assortment of sizes and strengths to suit any type of rock stratum, from homogeneous soft rock to extremely hard rock and collapsed rock layers.

Surface Set Diamond Core Bits
Surface set diamond bits are made by setting rough diamond borts on the matrix surface. They are available in a variety of sizes for diverse applications.

Diamond Bits (Non-core, Casing, etc.)
Non-core bits are used in drilling projects that do not require the collection of a core sample. Casing bits are used to insert casing pipe into collapsed stratum.

Diamond Reamers
Diamond reamers are used in conjunction with core bits and non-core bits to ensure specific drill hole dimensions, prevent drill hole deformation and reduce vibration.

Diamond bits are utilized in various geological surveys, investigation for underground resources, and for dam and tunnel construction, to name only a few. Their value to society is immeasurable, making possible many of the modern conveniences which society takes for granted.
The need for diamond tools continues to grow. Such tools are necessary to cut asphalt or concrete, in order to install telephone lines and water, sewage, and gas pipes. They are also used to cut grooves into roads and runways to prevent slipping, as well as to demolish structures, such as those used in earthquake-resistant construction projects, bridge beams, highways, and nuclear power plants.

Saw Blades for Asphalt “MV Series”
The V shaped design of the MV Series of saw blades works for smooth cutting — from start to finish — making them perfect for asphalt road improvements, burying gas and water pipes and other civil engineering tasks.

Grooving Blades
These superior blades are used for grooving roads and tarmacs to enhance vehicle safety in the wet and optimizing aircraft control when landing.

Saw Blades for Concrete CB Series, Wall Saw Blades, Jointing Blades
The CB Series of blades are used for various types of concrete cutting including reinforced concrete. Wall Saw Blades for precision cutting of windows in concrete walls and Jointing Blades for grooving concrete to prevent cracking when drying are also available.

General-Purpose Saw Blades “Merit”
The Merit Series of saw blades, developed specifically to cut concrete, are highly economical, featuring excellent cutting finish and long blade life.
Diamond Portable Cutters
The portable cutters used in dry cutting of concrete, ordinary tile, concrete block, roof tile, and various non-flammable structural materials are available in several variations.

Diamond Wire Saws
“Hyper Snake”
Hyper Snake diamond wire saws are attracting increasing attention as effective tools for cutting and demolishing reinforced concrete structures. Hyper Snake greatly improves work efficiency and creates less noise and pollution than conventional saws.

Diamond Thin-Wall Bits
“Hyper-Mole Z”
“Hyper-Mole Mega”
“M27”
Diamond thin-wall bits are used to drill holes for wiring and plumbing of reinforced concrete structures. Asahi Diamond has also developed bits for large diameter concrete pipe.

Diamond Cup Wheels
Diamond cup wheels are ideal for grinding work on concrete. Grooving wheels are also available in a V shape to enable the repair of cracks in walls of concrete structures.
Natural woods are increasingly being replaced by new composite materials for use in home construction, interiors, and furniture. Asahi Diamond makes high-performance tools to work such materials. We will continue to expand our range highly advanced cutting and grooving tools, including the SUNPAX series. These tools are superior to conventional carbide tools in terms of accuracy, durability, and cost efficiency.

SUNPAX Multi-Edged Blade Cutting Tools

The SUNPAX multi-edged blade cutting tool employing SUNPAX for its cutting edge is capable of cutting even difficult-to-cut-materials efficiently. SUNPAX multi-edged cutting tools are more accurate, durable and cost efficient than conventional carbide blades.

SUNPAX Cutters

SUNPAX Cutters are indispensable for cutting extremely hard materials such as ceramics, man-made marble and particle board. Asahi Diamond produces various types of cutters to accommodate special work requirements. These cutters can be adapted for various material shapes and can be used with different combinations of break cutters and tip saws.
SUNPAX Tipped Saws

Carbide tipped saws are used in the cutting or grinding of wood, plastics, carbon, etc. SUNPAX tipped saws can easily cut even glass, epoxy resin and man-made marble, which cannot be worked by conventional carbide tipped saws.

Diamond Portable Cutters

“New Gold”

These cutters can cut blocks, tiles, bricks, and other objects with high efficiency. Use of wave-shaped blade edges provides an air-cooling effect and blows away cutting debris. In addition to high efficiency, the blades have a long life.

SUNPAX Router Bits

The SUNPAX router bit is ideal for the cutting, grooving or drilling of ceramic materials, man-made marble, particle board, etc.

Diamond Wheels (for cutter sharpening)

Diamond wheels are essential for returning cutting tools to their original sharpness. Cemented carbide alloys, Cermet, SUNPAX and many other new materials are used in the make-up of blades to cut anything from wood to composite materials. To keep these blades in optimal condition the broad capabilities of diamond wheels are required. The right bonding system is available depending on the material used—whether for a chip saw or planing blade.
By using diamond for water jet nozzle, water stream width can be minimized and directness and ultrahigh pressure achieved, resulting in higher precision and longer life. Furthermore, by expanding the width of the water stream, the nozzle can also be used for cleaning and removal of burrs.

Asahi Diamond has developed this highly functional diamond wire guide jointly with an electrical discharge machining equipment manufacturer.

Diamond Wire Drawing Dies
Asahi Diamond produces various types of precision wire drawing dies, such as those applicable to gold and other soft wires used in the manufacture of semiconductors. It also markets various types of drawing dies. Natural diamond, SUNPAX, and synthesized single-crystal diamond are used for wire drawing dies, such as formed dies, guide dies for tin-plated wires, diamond nipples, and others.

Diamond Wire Guides
The accuracy of wire guides determines the precision of wire electrical discharge machining (EDM), which is used for metal forming processes in various industries.

Diamond Water Jet Nozzles
By using diamond for water jet nozzle, water stream width can be minimized and directness and ultrahigh pressure achieved, resulting in higher precision and longer life.
Other Products

Related Equipment and Devices
Roller dresser drive units (for surface grinding)
• Single support and compact type
• Single support type
• Double support type

Natural diamonds

SUNPAX and SUNNITE blanks
Diamond powder

OTHER PRODUCTS

Jewelry Business
Precision Grinding Wheels/Precision Shaft-mounted Grinding Wheels

These are for bearings, automobile parts, electrical equipment parts, and other machine parts that require high-precision finishing. Using its original manufacturing method, Koremura Asahi makes vitrified-bonded wheels, which are best suited for high-precision grinding processes.

With strengths in the fields of small-diameter precision grinding wheels and super-finishing grinding wheels, Koremura Co., Ltd. has a range of distinctive products.

Koremura has a history going back to its establishment in March 1940. It became a member of the Asahi Diamond Group in July 2013, and changed its name to Koremura Asahi Diamond Industrial Co., Ltd. in January 2018.
Superabrasive Shaft-mounted Grinding Wheels
Vitrified grinding wheels that utilize CBN (cubic boron nitride) abrasive. This kind of abrasive wheel accomplishes high accuracy and high efficiency in precision grinding of such items as bearings, automobile parts, electric equipment parts, and other machine parts.

Superfinishing Grinding Stones
Grinding stones designed for finishing process of polishing metal materials. These are suited for finishing grooves of different types of bearings, as well as external ring surfaces of needles and tapered bearings.

Superabrasive Superfinishing Grinding Stones
Vitrified-bonded superfinishing grinding stones for the final stage of the surface finishing process. Designed to accomplish submicron finishing accuracy for super precision applications, such as machine parts, optical parts, and related parts. Koremura Asahi uses its own manufacturing method to immobilize the super-abrasive micron powder, while adjusting the bonding system and achieving a porous design of the grinding wheel assembly. These make it possible to minimize abrasion of the grinding wheel and also minimize chipping.
Asahi Diamond’s Network Covering the World’s Production Centers

Our diamond and CBN tools help improve the efficiency of our customers’ production activities and the quality of their products.

In addition to Asia, which is an international production hub, we have production, sales, and service operations in Europe, North America, and elsewhere to meet the needs of our customers.
Asahi Diamond Industrial's Network Covering the World's Production Centers

Our diamond and CBN tools help improve the efficiency of our customers' production activities and the quality of their products. In addition to Asia, which is an international production hub, we have production, sales, and service operations in Europe, North America, and elsewhere to meet the needs of our customers.
Bringing Japanese manufacturing to the world

Asahi Diamond’s history closely reflects that of Japan’s product manufacturing sector. Centering on the Tamagawa Factory, Chiba Factories and the Mie Factory — our main production bases — we support Japanese industry with an abundant lineup of products that can be augmented by fellow Group companies that specialize in particular products.
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