FUJIDIA
THE FINEST DIAMOND TOOLS MANUFACTURER
DIAMOND BITES  DIAMOND DRESSERS  DIAMOND WHEELS  FDB TOOL
FDS GRINDER SERIES  FEM900  DIAMOND ENDMILL SERIES  PENTA REAMER
TOKYO JAPAN
時代をリードする製品開発、いつもクリエイティブ。

Always creative, our developments lead the times.

ダイヤモンド研磨
天然ダイヤモンドの加工は、個々の結晶の方位を考慮して行なわれます。焼結のラッピング盤（スカイフ）面にダイヤモンド微粉（直径0.1〜数μm）を塗り込むと、盤面の無数の小穴には入り込んだ微粉を研磨粉として働き、ダイヤモンドの砥石が成形されます。

Diamond polishing
Natural diamond is polished according to respective crystal orientations. Fine particles (zero to several μm dia.) of diamond, embedded in a limitless number of small holes in the (skiving) surface of a lapping plate made of cast iron, function as abrasive grains to shape diamond.

ダイヤ／CBN焼結体の加工
ダイヤモンド及びCBN焼結体は円形の素材形状から様々な形に切り出され、切削工具のチップの他、測定や耐摩耗の用途にも使われます。

Processing sintered diamond/ CBN compacts
Round-shaped sintered diamond and CBN compacts are cut into various shapes to make cutting tool tips, as well as for measurement and abrasion-proofing.

超硬合金加工
超硬合金の工具は、ダイヤモンド砥石を用いて各種の工具研削盤により製作されます。

Cemented carbide processing
Cemented carbide tools are manufactured by various tool grinders equipped with diamond wheels.
放電・電解研磨加工
ダイヤ／CBN焼結体、超硬合金材料の切断・成形・面加工を行ないます。刃先研磨仕上の前加工にも応用されます。

Electric-discharge/electrolytic polishing
Sintered diamond/CBN compacts and cemented carbide materials are cut, formed, and faced. They are also applied to preprocess cutting edges before final polishing.

CNC工具研削盤
高い外径精度や振れ精度が要求される工具を高能率で生産します。
エンドミル・ドリル・リーマ等。

CNC tool grinder
Tools that are required to have excellent O.D. accuracy and run-out accuracy are produced efficiently. End mills, drills, reamers, etc.

開発・試験
各種の実験設備により常に新製品の開発が行われています。

Development/test
A variety of experimental equipment permits constant development of new products.
Natural diamond tool

- **Diamond dresser**
  Diamond dressers are used to dress grinding wheels, by making use of the hardness of natural diamond.

- **Diamond bite**
  Cutting edges are extremely sharp and are indispensable for machining high-quality OA equipment parts and optical products. Diamond bites cannot be replaced by any other tool in some specific fields.

Sintered diamond/CBN compacts

- **Sintered diamond compact**
  Made of artificial diamond, sintered diamond compacts have physical properties close to those of natural diamond, being optimal for cutting various materials (Al, Cu alloy, resin, wood, etc.) except steel.

- **Sintered CBN compact**
  Made of powder of cubic boron nitrides, sintered CBN compacts are suited to cut hardened steel and cast iron. FEM900 is a ultra high-speed specification end mill.
研削用ホイール
Diamond wheels are indispensable for grinding ceramics, cermet, and glass, as well as tools, molds, and products made of cemented carbide. The CBN wheels are quite effective in grinding hardened steel products.

超硬合金製品
The unique Penta Reamer for high-speed use and various cutting tools and jigs of cemented carbide can be made to order and delivered within a short period of time.