MATERIALS & COMPONENTS
• BLENDED MATRIX POWDERS (BODY AND FACE)
• CRYSTALLINE TUNGSTEN POWDER (CTP - SHOULDER POWDER)
• CAST TUNGSTEN CARBIDE
• SPHERICAL CAST TUNGSTEN CARBIDE
• MONO TUNGSTEN CARBIDE
• INFILTRATION ALLOYS
• PLIABLE OPTIMUM WEAR (POW)
• CEMENTED TUNGSTEN CARBIDE NOZZLES
• POLYCRYSTALLINE DIAMOND CUTTERS (PDC)
• BRAZE ALLOYS
• THERMALLY STABLE POLYCRYSTALLINE (TSP) INSERTS

SERVICES
• SUSTAINABILITY
• ASSET MANAGEMENT
• BIT RECOVERY
• PRODUCT DEVELOPMENT
• ENGINEERING TECHNOLOGY
Proven Performance

DiaPac™ is an internationally recognized leader in high performance products that include tungsten carbide powders, wear resistant surface coatings and cemented carbides for use in oil & gas production, mining, construction and manufacturing operations.

Materials & Components for PDC Matrix Drill Bits

- *Blended Matrix Powders (Body & Face)*
  - Proprietary Blends of Carbide Particulates Tailored for Optimal Combinations of Wear and Strength

- *Crystalline Tungsten Powder (CTP - Shoulder Powder)*
  - Machinable Interface between Steel Blank and Matrix Powder

- *Cast Tungsten Carbide*
  - Key Wear Component in Matrix Powder Blends

- *Spherical Cast Tungsten Carbide*
  - Wear Modifier in Matrix Powder Blends

- *Mono Tungsten Carbide*
  - Key Wear Component in Matrix Powder Blends

- *Infiltration Alloys*
  - Copper Based Alloys Engineered for Optimal Fluidity and Bonding of the Carbide Particles

- *Pliable Optimum Wear (POW)*
  - POW Materials are Proprietary Blends of Specific Hard Particles Engineered for Maximum Erosive and Abrasive Wear Resistance

- *Cemented Tungsten Carbide Nozzles*
  - Industry Standard Hex and Castle Top Nozzles Available in all Sizes
  - Custom Sizes and Designs by Request

- *Polycrystalline Diamond Cutters (PDC)*
  - A Sintered Layer of Polycrystalline Diamond Bonded to a Tungsten Carbide Substrate

- *Braze Alloys*
  - Silver Based Alloys in Wire, Rod and Disc Form for Brazing of PDC Cutters

- *Thermally Stable Polycrystalline (TSP) Inserts*
  - Shaped Pieces of Polycrystalline Diamond with High Abrasion Resistance and Thermal Stability up to 1150°C

SERVICES

- SUSTAINABILITY
- ASSET MANAGEMENT
- BIT RECOVERY
- PRODUCT DEVELOPMENT
- ENGINEERING TECHNOLOGY