

ASIA, PACIFIC RIM, MIDDLE EAST & AFRICA

AUSTRALIA

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FABRICATORS**
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PM Products

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02,C03,C04,C05,
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PRODUCT & SERVICE CODES

PM PARTS & PRODUCTS

SINTERED STRUCTURAL COMPONENTS

- A01 Ferrous Parts
- A10 Copper-Base (brass, bronze)
- A20 Aluminium
- A30 Stainless Steel
- A40 High Speed Steel
- A50 Metal Injection Moulded (Ferrous/Stainless Steels)
- A51 Metal Injection Moulded (non-ferrous)

SPECIAL PM ALLOYS

- B01 Ferrous Powder Forgings
- B10 Aluminium
- B20 High Speed Steel
- B30 Tool Steel
- B31 Stainless Steel
- B40 Beryllium
- B50 Titanium
- B60 Refractory Metals (W, Mo, Nb, Ta)
- B70 Nickel-Base (Superalloys)
- B80 Dispersion Strengthened Materials
- B90 Powder Rolled Strip
- B100 Metal Matrix Composites
- B101 Laser Sintered
- B102 Cobalt-base Alloys
- B103 Spray Formed
- B104 NiCr/FeNiCr Alloy

MAGNETIC/ELECTRICAL PRODUCTS

- C01 Iron-Base Magnets
- C02 Iron-Nickel-Base Magnets
- C03 Ferrites
- C04 Alnico Magnets
- C05 SmCo5 Magnets
- C06 Sm2Co17 Magnets
- C07 Nd-B-Fe Magnets
- C10 Electrical Contacts
- C20 Carbon Brushes/Dry Bearings
- C30 Capacitors
- C40 Electrodes/Thermoelectric alloys
- C50 Superconductors
- C60 Lamp Filaments
- C70 Sputtering Targets
- C80 Heat sinks

HARD & ULTRAHARD MATERIALS

- D01 Indexable Tips (WC Base)
- D02 Mining/Drilling Bits (WC Base)
- D03 Drills (WC Base)
- D04 Milling Cutters (WC Base)
- D05 Saws (WC Base)
- D06 Wear Parts (WC Base)
- D07 Steel Bonded Carbides
- D08 Mill Rolls (WC)
- D09 Tungsten Carbide Blanks
- D10 Cermets
- D11 Carbide Injection Moulded
- D20 Ceramic Injection Moulded
- D21 Ceramics (Tools and Wear Parts)
- D30 Cubic Boron Nitride
- D40 Diamond Tools

HEAVY METALS

- E01 Counterweights
- E10 Projectiles
- E20 Radiation Shields

FRICTION/ANTIFRICTION/BEARINGS

- F01 Iron-Base Friction Materials
- F02 Copper-Base Friction Materials
- F03 Composite Friction Materials
- F10 Self-Lubricating Cu/Fe Bearings
- F11 Self-Lubricating Bronze Bearings
- F12 Steel-Backed Bearings

FILTERS/POROUS PARTS

- G01 Bronze
- G10 Cupro Nickel
- G20 Stainless Steel
- G30 Titanium
- G40 Metal Foams
- G50 Fibre Metal Felt
- G60 Sintered Wire Mesh
- G70 Ceramic Filters

POWDERS, FEEDSTOCK & CONSUMABLES

FERROUS POWDERS

- H01 Sponge Iron
- H02 Atomised Iron
- H03 Hydrogen Reduced Iron
- H04 Electrolytic Iron
- H05 Carbonyl Iron
- H10 Pre-Alloyed Steels

- H20 Diffusion Alloyed Steels
- H30 High Speed Steels
- H40 Stainless Steels
- H50 Tool Steels
- H60 MIM Feedstock - Ferrous-Based
- H61 MIM Feedstock - Stainless Steels

NON-FERROUS POWDERS

- J01 Nickel (Carbonyl)
- J02 Nickel-Based Atomised
- J03 Nickel - Vapour Phase
- J10 Copper Electrolytic / Chemical
- J11 Copper Atomised
- J12 Copper Alloys
- J13 Bronze
- J14 Brass
- J15 Cobalt Alloys - Atomised
- J20 Tin
- J30 Lead
- J40 Aluminium
- J41 Aluminium Alloys
- J50 Beryllium
- J60 Titanium
- J61 Titanium Alloys
- J70 Magnesium
- J80 Zinc
- J90 Chromium Powders
- J100 MIM Feedstock - Non-ferrous

REFRACTORY METALS

- K01 Tungsten
- K10 Tantalum
- K20 Molybdenum
- K30 Niobium
- K40 Rhenium
- K50 Hafnium
- K51 Vanadium
- K60 Cobalt
- K61 Cobalt Alloys (Atomised)

MAGNETIC POWDERS

- L01 Iron-Based
- L10 Iron-Nickel Based
- L20 Ferrite
- L30 Alnico
- L40 SmCo5
- L50 SM₂Co₁₇
- L60 Nd-B-Fe

HARDMETALS (CARBIDES)

- M01 Tungsten Carbide
- M10 Tungsten Carbide Alloys
- M20 Titanium Carbides
- M30 Ceramics
- M40 Other Carbides

OTHER POWDERS

- N01 Noble Metals
- N02 Intermetallic
- N20 Ultrafine/Nano Powders
- N30 Hard-Facing Powders
- N40 Brazing Alloy Powders
- N50 Infiltrating Powders
- N60 Rapidly Solidifying Powders
- N70 Mechanically Alloyed Materials
- N80 Graphite Powder
- N90 Alumina Fibre Paper
- N100 Diamond Powder/Grit
- N101 Metal Coated Powders
- N102 MnS Machining Additive
- N110 CIM Feedstock

PRESSING LUBRICANTS & BINDERS

- P01 Parafin Wax
- P10 Synthetic Wax
- P20 Zinc Stearate
- P30 Stearic Acid
- P40 Lithium Stearate
- P50 Synthetic Lubricants
- P60 Lubricants for Sizing/Callibration
- P70 Lubricants for Self-Lubricating Bearings
- P80 Binder Systems for MIM/CIM/PIM

EQUIPMENT

POWDER PRODUCTION EQUIPMENT

- Q01 Powder Atomisers/Metal Melting
- Q10 Attrition Millers/Ball Mills
- Q20 Agglomerators
- Q30 Spray Dryers
- Q40 Powder Dryers
- Q50 Powder Mixers/Blenders
- Q60 Annealing/Reduction Furnaces
- Q70 Sieves/Screening
- Q71 Sieve Cloths
- Q72 Air Filters
- Q80 Melt Spinners

POWDER PRESSES

- R01 Mechanical
- R02 High Velocity Compaction
- R10 Hydraulic
- R20 Rotary
- R30 Hot Presses
- R40 Cold Isostatic Presses
- R41 Hot Isostatic Presses
- R50 Extrusion
- R60 Injection Moulding
- R70 Forging
- R80 Sizing/Calibrating

SINTERING FURNACES & EQUIPMENT

- S01 Batch Type
- S10 Conveyor Belt
- S20 Pusher
- S30 Walking Beam
- S40 Vacuum
- S50 Sinter HIP
- S60 Debinding
- S70 Furnace Belts
- S71 Furnace Trays
- S72 Furnace Equipment
- S80 Microwave Furnaces
- S81 Spark Plasma Sintering

ATMOSPHERES & GENERATORS

- T01 Exothermic Gas
- T10 Endothermic Gas
- T30 Nitrogen Based
- T40 Pure Hydrogen
- T50 Argon
- T60 Helium
- T70 Oxygen
- T71 Generators

TOOLING

- U01 Powder Compacting Tools
- U02 Tooling for Cold Isostatic Pressing
- U03 Tooling for HIP
- U10 Tooling for Injection Moulding
- U20 Tool Making Equipment
- U30 Computer Aided Design (CAD)
- U40 Rapid Prototyping

FINISHING PROCESSES

- V01 Heat Treatment Plant
- V10 Steam Treatment Plant
- V20 Electro Plating Plant
- V30 Oil Impregnation Plant
- V40 Porosity Sealing Equipment
- V50 CVD/PVD Coating Equipment
- V51 Ion Implantation Surface Treatment
- V52 Powder Sprayed Coatings
- V60 Grinding Equipment

AUTOMATION

- W01 Conveyors
- W10 Handling Systems

PM TESTING EQUIPMENT

- X01 Particle Size Analysers
- X10 Metallography Equipment
- X20 Testing Machines
- X30 Density Measurement

SERVICES

- Y01 Atomising
- Y02 Milling
- Y03 Powder Spheroidisation
- Y03 Machining (PM Parts)
- Y10 Heat Treatment
- Y20 Surface Hardening
- Y30 Plating
- Y40 Impregnation
- Y50 Hot Isostatic Pressing/Sinter HIP
- Y51 Sintering
- Y52 Hot Pressing
- Y53 Powder Extrusion
- Y54 Powder Injection Moulding
- Y60 CVD Coatings
- Y61 PVD Coatings
- Y62 Sprayed Coatings
- Y70 Testing Of Products
- Y80 HIP Bonding/Cladding
- Y90 Shot Peening
- Y100 PM Training/Software
- Y101 PM Consultants
- Y110 Non-Destructive Testing
- Y130 Turnkey PM Plants

ASSOCIATIONS / RESEARCH

- Z10 Research Facilities
- Z20 Trade Association/Professional Society