JB Advanced Engineering Limited

"Powering Precision, Engineering the Future"

REVERSE ENGINEERING & MANUFACTURING

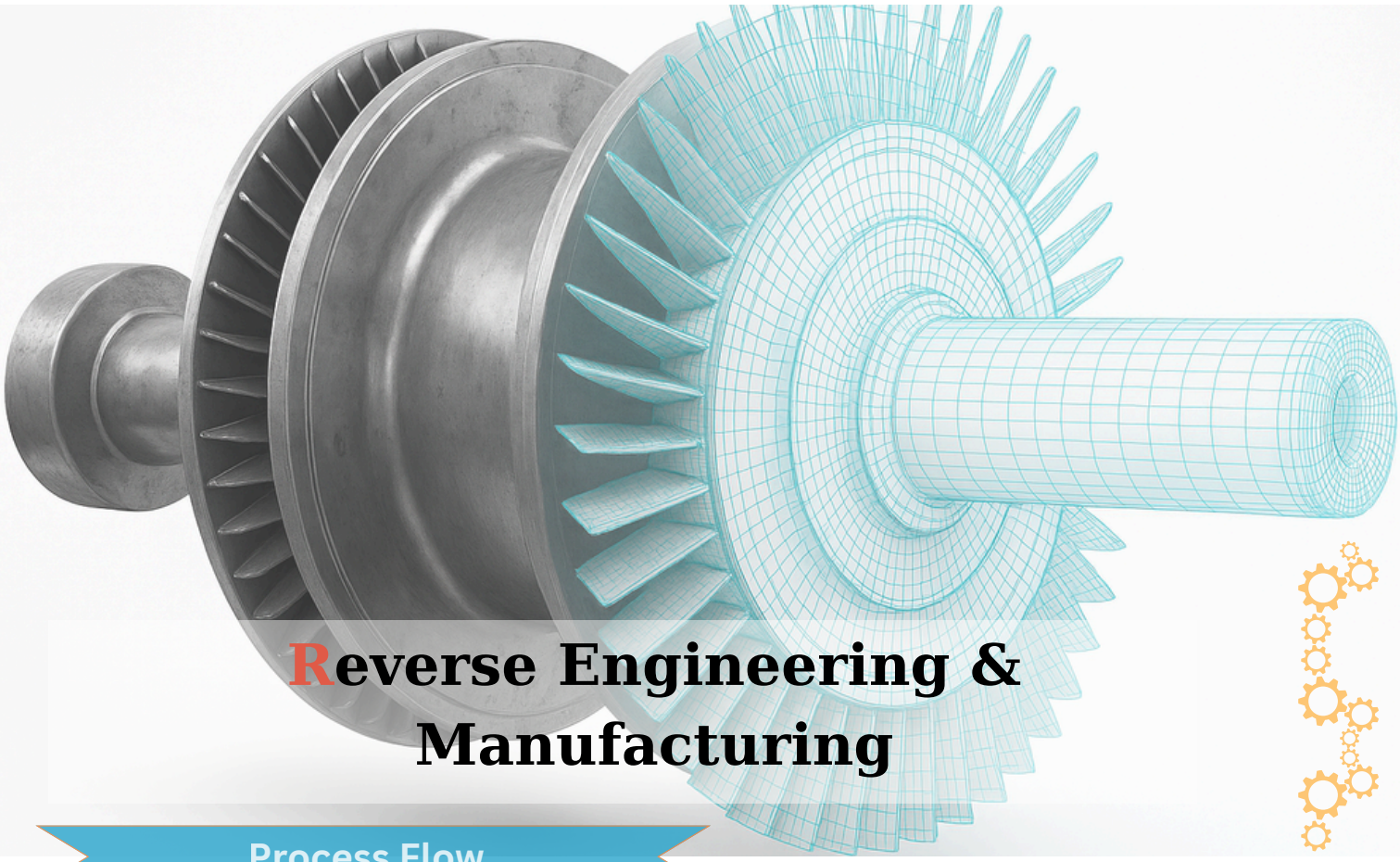


Complete Power Generation Solutions

WEBSITE
www.jbepower.com

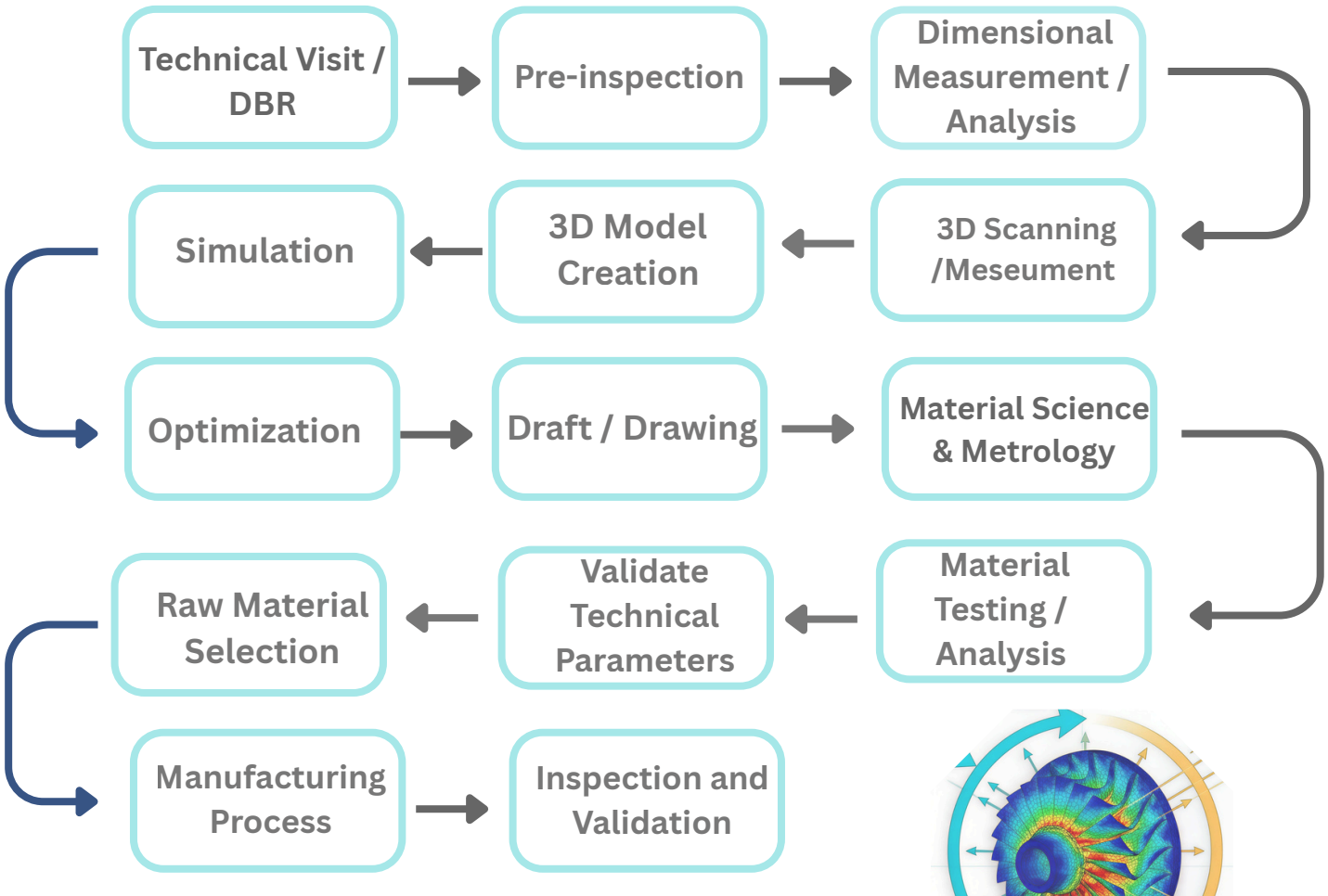
EMAIL
info@jbepower.com

Thermal | Hydro | Gas | Nuclear Power Plants



Reverse Engineering & Manufacturing

Process Flow



Reverse Engineering & Manufacturing Project Portfolio

We deliver precision-driven reverse engineering solutions for critical turbine-generator components across high-capacity thermal power plants.

Capacity	Components	Work Activity
2 x 660 MW	• Casing Fasteners (Outer, Inner, Steam Chamber, End Shield) • Cross Over Pipe Fasteners (IP/LP) • Diffuser Fasteners • H_2 Cooler Encloser Fasteners • Diaphragm (4th–6th Stage) • Casing Assembly	Research, 3D Scanning, Design, GAD, Development, Reverse Engineering, Material Analysis, Testing, Procurement, Manufacturing
9 x 135 MW	• Generator Slip Ring Replacement work of U#8	Research, Design, Development, Reverse Engineering, Material Analysis, Testing, Procurement, Manufacturing
8 x 135 MW	• Slip Ring, Balancing Weight • Fan Blade, CC Bolts & Assembly • Slip Ring Fan	Research, 3D Scanning, Design, Development, Reverse Engineering, Material Analysis, Testing, Procurement, Manufacturing
4 x 135 MW	• CC Bolts Assembly • Slip Ring, Slip Ring Fan	Research, Design, Development, Reverse Engineering, Material Analysis, Testing, Procurement, Manufacturing
2 x 300 MW	• Slip Ring • Connection Ring • Gland • CC Bolts • Nut, Washer	Research, 3D Scanning, Design, Development, Reverse Engineering, Material Analysis, Testing, Procurement, Manufacturing
30 MW	• Slot Wedge • Rotor Fan, Balancing Weight, CC Bolts Assembly • Rotor Assembly	Research, Design, Development, Reverse Engineering
135–150 MW	• Slot Wedge	Research, Design, Development, Reverse Engineering
43 MW	• Balancing Weight	Research, Design, Development, Reverse Engineering

5 MW	• Gen Rotor Outer Ring • Flexible Link, Epoxy Liner Bar	Research, Design, Development, Reverse Engineering
5500 KVA	• HV/LV Transformer • Rectifier Transformer • Insulation Duct	Research, Design, Development, Reverse Engineering
2 x 660 MW	• Stud • Cap Nut • Plug Bolt • Washers	Research, Design, Development, Reverse Engineering, Material Analysis, Testing, Manufacturing
2 x 660 MW	• Casing Fasteners (Outer, Inner, Steam Chamber, End Shield) • Cross Over Pipe Fasteners (IP/LP) • Diffuser Fasteners • H_2 Cooler Enclosure Fasteners • Diaphragm (4th–6th Stage) • Casing Assembly • Six Way Valve Flange • Stator Rotor Bar	Research, 3D Scanning, Design, GAD, Development, Reverse Engineering, Material Analysis, Testing, Procurement, Manufacturing
2 x 600 MW	• Parts of Bearing Box Cover Assembly • Assembly of Bearing Box • Stud & Hex Nut Customize • Stand Key • Convex & Concave Washers • Plane Washers • Pressing Bolt • Dead Center Beam • Gland Seals • Bearing Gasket	Research, 3D Scanning, Design, Reverse Engineering, Material Analysis, Precision Machining, Testing, Procurement, Manufacturing
2 x 300 MW	• Fan Blower Assembly • Fan Blades	Research, Design, 3D Scanning, Reverse Engineering, Dynamic Balancing, Testing, Manufacturing
1 x 108 MW	• Rotor Stand	Design, Engineering Analysis, Material Selection, Fabrication, Quality Testing, Manufacturing

108 to 800 MW	• Turbine Blades (Reverse Engineering) • Generator Fan & Components & Spares • Exciter Wheel Assembly • Snapring Tool - JBWS & Snapring Removal Tool • Heat Exchanger • Tensioner Machine • Stator Bar Removal Tool • Power Pack & Hydraulic Cylinder • Generator Air Filter • Rotor Idler (Type-1 Manual) • Rotor Idler (Type-2 with Gear Box) • Stator Insulation Box & Overhang Insulation Box • Industrial Gears • Retaining Ring Insulation • Heavy Lifting Hook • Actuator Spindle with Nut	Research, 3D Scanning, Design, GAD, Development, Reverse Engineering, Material Analysis, Precision Machining, Special Tooling, Assembly & Testing, Manufacturing

