



**We Manufacture
What Other Can't Even Measure**

ORBITOL INTELLIGENCE PRIVATE LIMITED

Who We Are

Orbitol Intelligence Pvt. Ltd. is a high-precision machining and engineering solutions company, delivering ultra-accurate components, tooling, and moulds for mission-critical industries. We are part of the **Sidhvandan Group**, a reputed industrial investment platform that transforms and scales manufacturing businesses across India.

www.orbitol.in

Our Facillites



Swiss-Type Lathe |
TORNOS SWISS ST 26



3-Axis VMC | DMG
MORI 635 V ECOLINE



Swiss-Type Lathe | DMG
MORI SPRINT 20/8



5-Axis VMC | DMG
MORI DMU 50

Industries within our scope

- **DEFENSE**
- **AEROSPACE**
- **INJECTION MOLDS**
- **EXPLOSIVES APPLIANCES**
- **CRITICAL TOLERANCE MACHINING PARTs**

Our Associates Machine Capabilities

5-axis Cnc Machining Centre

Make: Maschinenfabrik Berthold Hermle

Model: C32

Qty: 1

Travel: X650 × Y650 × Z500 Mm

Spindle Speed: 18,000 Rpm

Positional Accuracy: ±0.008 Mm

Rotary Table: Swiveling ±130°

Max Workpiece Weight: 600 Kg

Rapid Traverse: Up To 45 M/min

CNC Turning Centers (10 Nos.)

Make: Ace Micromatic (5), BFW (5)

Max Turning Dia: up to 228 mm

Max Turning Length: up to 400 mm

Swing Over Bed: up to 500 mm

Spindle Speed: up to 4000 RPM

Turret: 8 station

Axis Travel: X ~150 mm, Z ~400 mm

Rapid Feed: up to 20–30 m/min

Controller: Fanuc / Siemens

Wire Cut EDM

Make: ONA AV60

Travel: 800 × 600 × 500 mm

Max Job Size: 1300 × 1040 × 500 mm

Max Load: 5000 kg

Wire Diameter: 0.20–0.33 mm

Taper Cutting: up to ±30°

Max Cutting Speed: ~450 mm²/min

Grinding Machines

Surface Grinding (HMT – 5 Nos.): Table 220 × 620 mm, RPM ~2800

Cylindrical Grinding (HMT Anubhav – 3 Nos.): Length 550 mm, Bore Ø15–100 mm

Universal Grinding (Grindex – 1 No.): Max Dia Ø350 mm, Length 650 mm

VMC Machines

(3-Axis CNC Milling – 10 Nos.)

Make: S&T (VL760 – 2 Nos., VL550 – 3 Nos.)

| AMS (MCV – 5 Nos.)

Travel Range: X 550–760 mm,

Y 300–410 mm, Z 400–500 mm

Spindle Speed: 6000–8000 RPM

Spindle Taper: BT40

ATC Capacity: up to 20 tools

Rapid Feed: up to 20–25 m/min

Controller: Fanuc / Siemens

Die Sinking EDM

Make: ONA (Ox6), GF (Form E350)

Travel: up to 1000 × 600 × 500 mm

Work Tank Size: up to 1700 × 1000 × 600 mm

Max Table Load: 4000 kg

Surface Finish Capability: Ra 0.08–0.1 µm

Positioning Resolution: up to 0.1 micron

Electrode Weight: up to 200 kg

Heat Treatment Furnace

Make: ALD Vacuum Furnace

Chamber Size: 900 × 900 × 1200 mm

Max Load: 1200 kg

Temperature Range: up to 1300°C

Vacuum Level: up to 10⁻³ mbar

Cooling: Gas quenching (Nitrogen)

Our Associates Machine Capabilities

VMC Machines (6 Nos.)

Cosmos 1060 (2019): 1200 × 600 × 610 mm, 8000 RPM

Macpower 1066 A/B: 1120 × 600 × 650 mm, 8000 RPM

Macpower 1376: 1450 × 700 × 650 mm, 8000 RPM

Macpower 1588: 1700 × 800 × 700 mm, 10000 RPM

Wintop MC500: 600 × 400 × 400 mm, 24000 RPM (High-speed machining)

Spindle Taper: Bt40

Conventional Machines (~9 Nos.)

Milling Machines: ISO 40 spindle, manual feed

Surface Grinding: Precision finishing

Radial Drilling: Heavy drilling operations

Lathe Machines: General turning & shaft work

EDM Machines (4 Nos.)

Electronica D400: 400 × 300 × 300 mm

Electronica D700: 800 × 700 × 700 mm

Electronica D550: 600 × 500 × 500 mm

Sparkonic ZNC EDM: 1200 × 300 × 300 mm

Application: Cavity machining, ribs, deep slots

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