Microtech Precision Engineering

"Engineering Precision. Powering Industries. Building the Future"

ISO 9001: 2015 CERTIFIED



ISO 9001: 2015 CERTIFIED

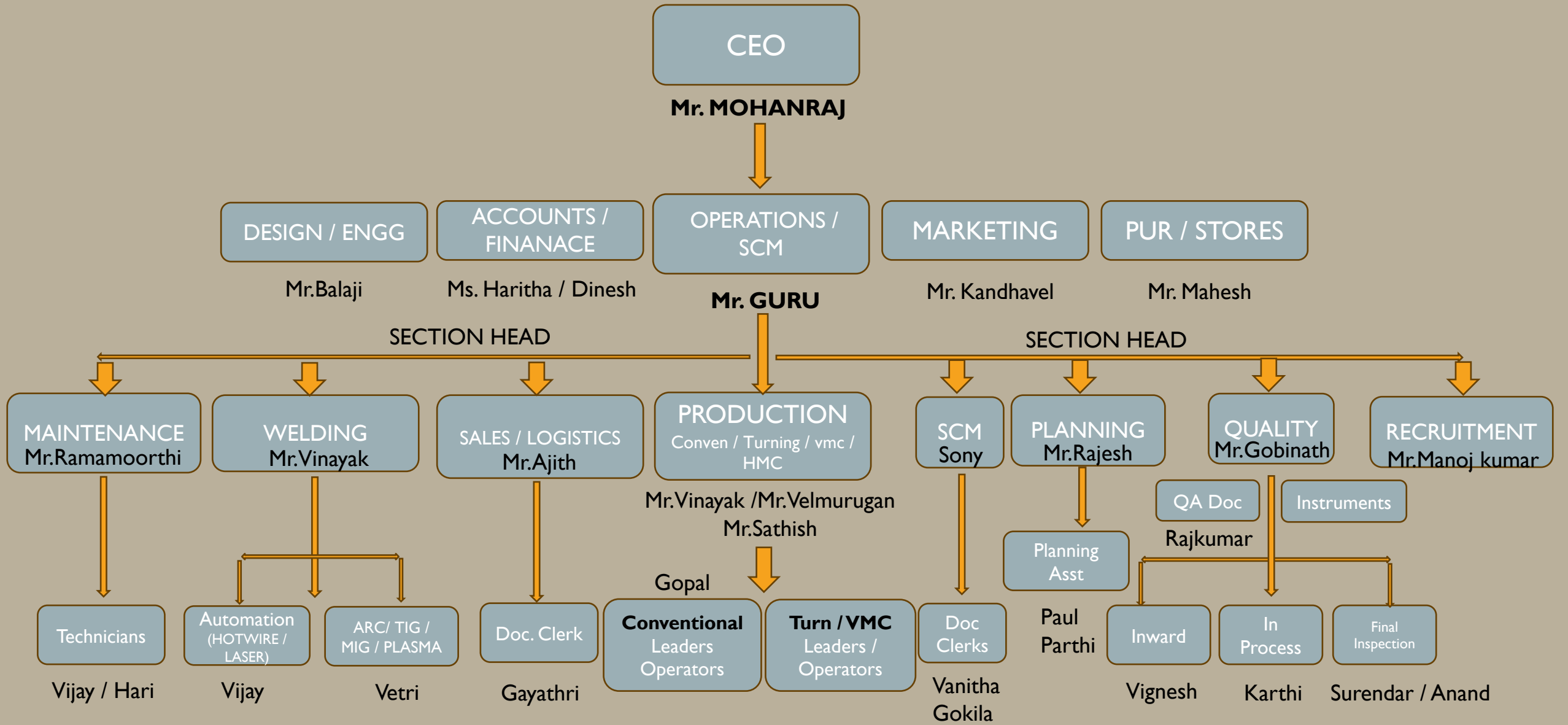
Precision in Every Component

Confidence in Every Delivery

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Organisation Structure

ISO 9001:2015 CERTIFIED



Our Vision

Microtech
PRECISION ENGINEERING
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"To Become Globally Recognized Engineering and Manufacturing Group, Delivering World–Class Precision, Advanced technology and trusted Solutions across critical industries"

Our Mission

To deliver world-class precision components, advanced welding solutions and integrated manufacturing capabilities through technological innovation, operational excellence, uncompromising quality and customer-focused partnerships — creating sustainable growth for our customers, employees and stakeholders.

"Engineering Excellence. Global Trust. Sustainable Growth."

Why MICROTECH?

Microtech PRECISION ENGINEERING

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Critical component manufacturing

High-mix / low-volume precision machining

Advanced welding and overlay capability



Engineering support from drawing to dispatch

Quality, traceability and delivery discipline

A customer-focused manufacturing partner

Core Values

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Precision & Quality

Every component meets the required standards. Every delivery builds customer confidence.

Trust & Integrity

Honour every commitment and build lasting customer relationships.

Technology & Innovation

Continuously advance machining, welding, automation and engineering capabilities.

Operational Excellence

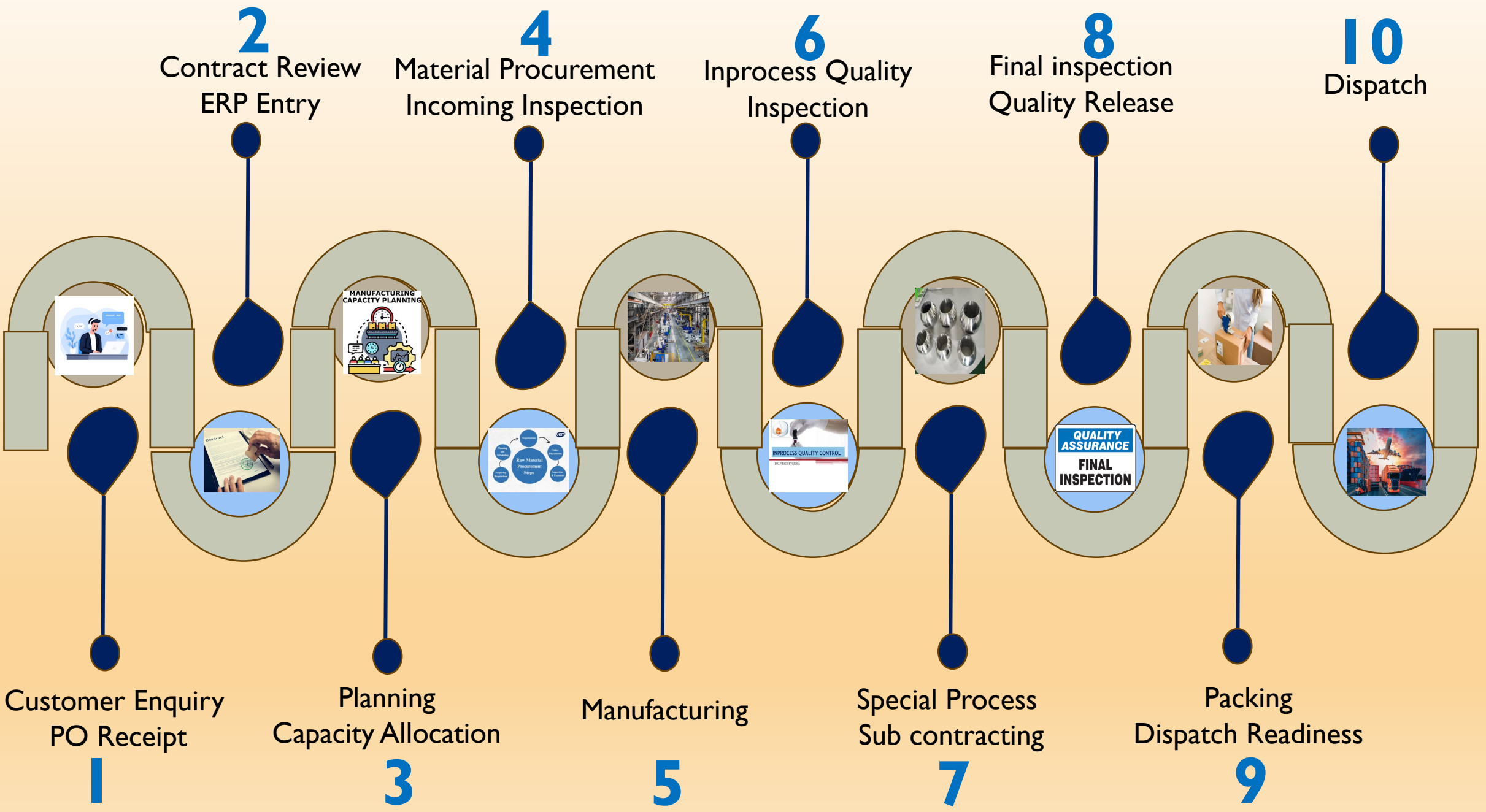
Drive safety, productivity, on-time delivery, cost efficiency and continuous improvement.

People & Accountability

Develop capable leaders, empower employees and create a culture of ownership.

The behaviours behind the brand

PROCESS FLOW



INFRASTURCTURE & CAPABILITIES (OVER ALL)

M/C NAME	MICROTECH MACHINE CAPACITY		
	DIAMETER	LENGTH	HEIGHT
TURNING x 20	UP TO 600 MM	UP TO 1500 MM	***
VTL x 5	UP TO 1200 MM	***	UP TO 1200 MM
VMC x 12	UP TO 650 MM	UP TO 750 MM	UP TO 1300 MM
HMC x 2	UP TO 800 MM	UP TO 1000 MM	UP TO 1000 MM
LATHE x 12	UP TO 1000 MM	UP TO 4572 MM	***
GRINIDING x 1	UP TO 380 MM	UP TO 2500 MM	***

CNC Turning





Precision machining for critical components

INFRASTURCTURE & CAPABILITIES (CNC TURNING & VTL)

SL NO	MACHINE NAME	SPECIFICATIONS		
		DIA (mm)	X	Z
1	JYOTHI 1	380	630	850
2	JYOTHI 2	380	630	850
3	JYOTHI 3	380	630	850
4	LEADWELL	600	850	2500
5	HWACHEON	300	565	1250
6	GLOBAL 1	300	530	520
7	GLOBAL 2	300	530	530
8	GLOBAL 3	300	450	600
9	MACPOWER 1	250	520	550
10	MACPOWER 2	300	520	550
11	FEELER	300	500	680
12	ASKAR 1	300	590	1300
13	ASKAR 2	200	400	480
14	PUMA 250	250	360	580
15	PUMA 350	380	600	850
16	SKT 1	200	320	300
17	SKT 2	200	320	400
18	DMG0 MORIESEIKI	250	480	530
19	TAKISAWA	200	250	810
20	PUMA 10H	250	380	520

VTL MACHINES SPECIFICATIONS				
SL NO	MACHINE NAME	SPECIFICATIONS		
		CHUCK DIA (mm)	SWING DIA	Z
1	HWACHEON 1	450	700	500
2	HWACHEON 2	450	700	500
3	BFW	600	900	800
4	DOOSAN	300	450	250
5	YOUGI	1000	1200	1000

INFRASTURCTURE & CAPABILITIES (VMC & HMC)

Manufacturing Excellence













S.No.	Machine Name	MAKE	Tool Pockets	SPINDLE	Bed		Travel Length		
					Length	Width	X	Y	Z
1	COSMOS (2)	INDIA	24	BT 40	1400	650	1300	700	700
2	MACPOWER (3)	INDIA	24	BT 40	1400	650	1300	650	650
3	DAHLIH MCV1700	TAIWAN	30	BT 50	1900	1000	1700	700	750
4	FEELER VMP45A (2)	INDIA	24	BT 40	1200	600	1100	600	600
5	TAKUMI	TAIWAN	24	BT 40	1050	550	900	500	550
6	MACPOWER V1066	INDIA	20	BT 40	1100	600	1000	600	600
7	JYOTI 1260	INDIA	25	BT 40	1400	630	1000	500	600
8	MAKINO (HMC)	ENGLAND	118	BT 50	800	800	1200	1050	800
9	BRIDGEPORT HMC (2)	ENGLAND	60	BT 40	500	500	900	550	600

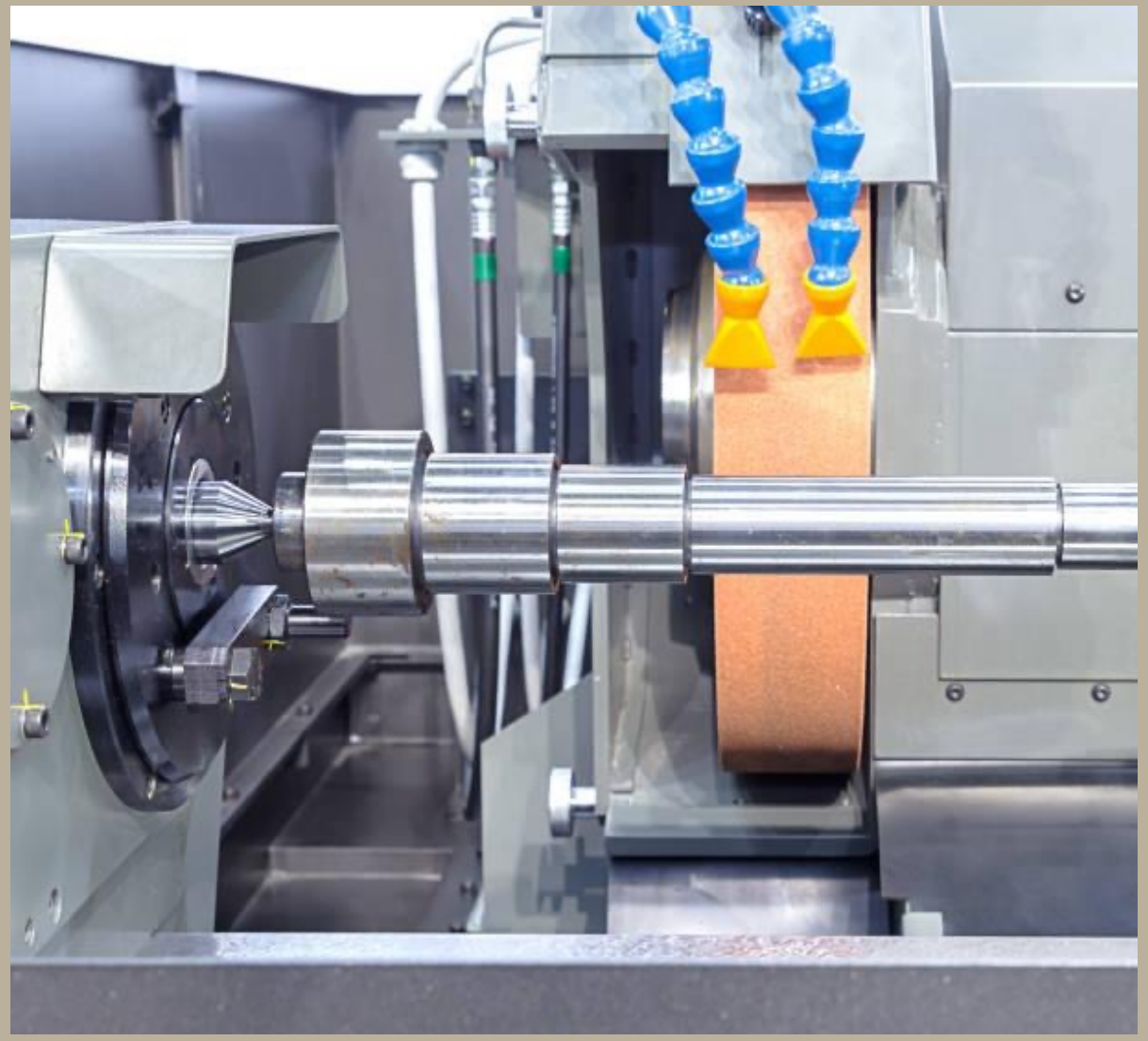
VMC / HMC Machining centre





Flexible multi-axis production capability

Grinding & Finishing



VTL Machine



Precision where final dimensions matter

Quality Philosophy

Material Traceability & Documentations













Inspection & Measurement

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Dimensional inspection



2D Digital height gauge

Surface finish verification



Ra Tester

Hardness and material verification



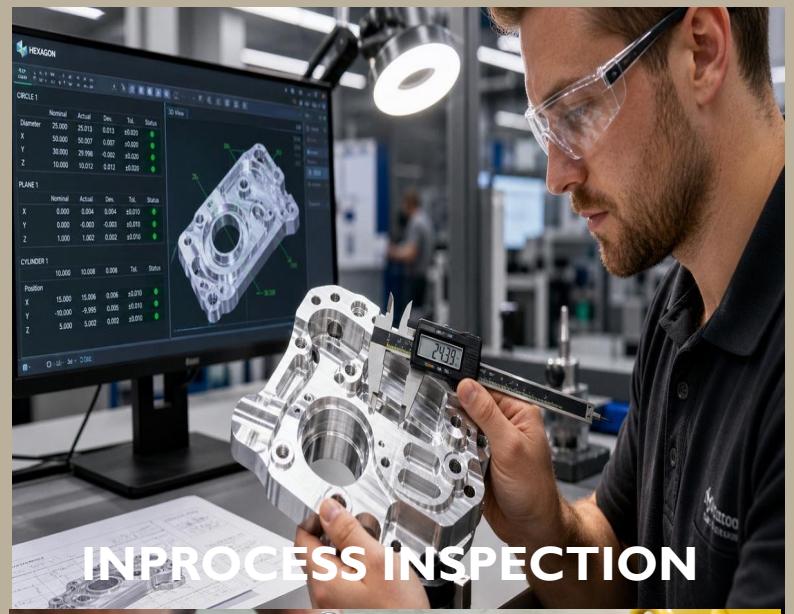
Hardness tester

Confidence through measurement

Quality Philosophy

Inspection Stages













Manufacturing Capability – Advanced welding technologies



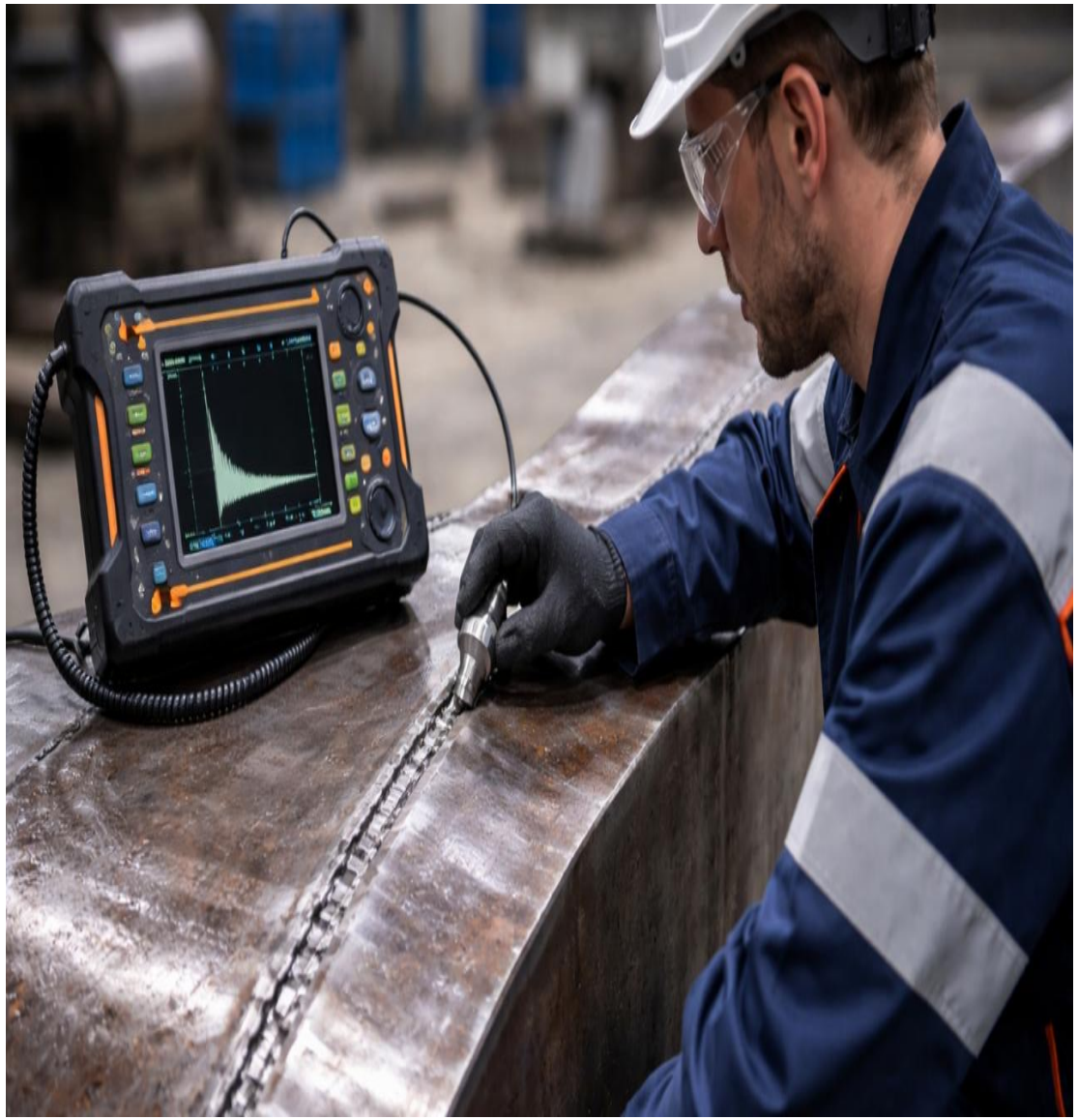
ADVANCED CNC LASER ROBOTIC WELDING



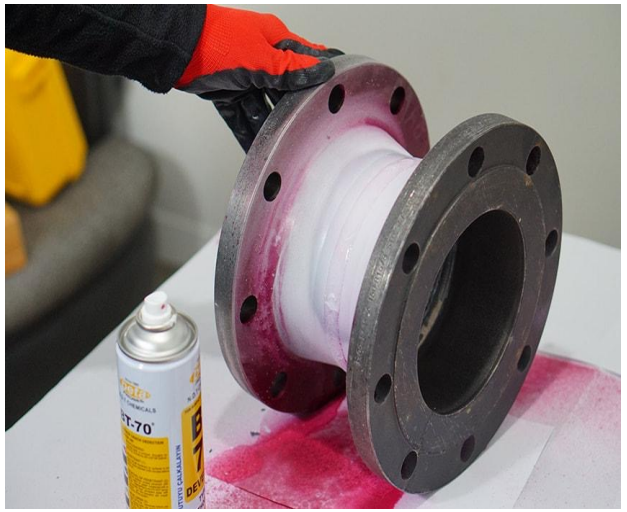
HOT WIRE CNC AUTOMATIC TIG WELDING

Integrated manufacturing capability

WELDING – NDT FACILITIES









Surface engineering for demanding applications

Material Capability – Global Valve Industries

Material category	Common material grades	Typical applications
Carbon steel	ASTM A105, A216 WCB	Valve bodies, bonnets, flanges
Low-alloy steel	ASTM A182 F11, F22; A217 WC6, WC9	High-temperature valve parts
Stainless steel	SS 304, 316, 410, 420	Valve stems, seats, trim parts
Duplex stainless steel	UNS S31803, S32205	Corrosion-resistant components
Super duplex	UNS S32750, S32760	Seawater and offshore valves
Nickel alloys	Inconel 625, 718; Incoloy 825	Corrosion-resistant trim and critical components
Copper alloys	Bronze, aluminium bronze	Bushes, bearings and selected valve parts
Titanium	Grade 2, Grade 5	Corrosion-resistant applications
Hardfacing alloys	Stellite 6, Stellite 12, Stellite 21	Seat rings, plugs, stems and sealing surfaces
Coating materials	Tungsten carbide, chromium carbide	Wear and erosion-resistant surfaces
Carbon steel	ASTM A105, A216 WCB	Valve bodies, bonnets, flanges





Handling critical engineering materials

Material Capability – Aerospace Industries (ISRO – VSSC) – Entry Level





Material category	Common material grades	Typical applications
Aluminium alloys	2024, 6061, 7075	Aircraft structures and housings
Titanium alloys	Ti-6Al-4V (Grade 5), Ti-6Al-4V ELI	Structural, engine and critical components
Stainless steel	15-5 PH, 17-4 PH, 321	Fittings, brackets and precision parts
Nickel-based superalloys	Inconel 625, 718, 713C	Engine and high-temperature components
Cobalt alloys	Stellite alloys, Haynes 25	Wear- and heat-resistant parts
Heat-resistant alloys	Haynes 230, Hastelloy X	High-temperature engine applications
Alloy steel	4340, 300M	High-strength landing gear and structural parts
Magnesium alloys	AZ-series and aerospace-qualified grades	Lightweight housings and structures
Composite materials	Carbon-fibre-reinforced polymer (CFRP)	Aircraft structures and panels
Special alloys	Waspaloy, René alloys	Gas turbine and engine components

Material Capability – Defence Industries (Brahmos)

Material category	Common material grades	Typical applications
Carbon and alloy steel	EN8, EN19, EN24, 4140, 4340	Structural and heavy-duty components
Stainless steel	SS 304, 316, 410, 17-4 PH	Corrosion-resistant and precision parts
Aluminium alloys	6061, 6082, 7075	Lightweight structural components
Titanium alloys	Ti-6Al-4V	Lightweight, high-strength assemblies
Nickel alloys	Inconel 625, 718	High-temperature and severe-service components
Copper alloys	Copper, aluminium bronze	Electrical and specialised mechanical components
Tungsten heavy alloys	Tungsten-based heavy alloys	Specialised weight and shielding applications
Armour steels	Qualified armour-grade steels	Protected vehicle structures
Wear-resistant materials	Hardox grades and qualified wear-resistant steels	Wear plates and heavy-duty equipment
Cobalt hardfacing alloys	Stellite 6, Stellite 12	Wear-resistant sealing and contact surfaces



Capable to manufacture



Handling critical engineering materials

Valve Component Capability

Ball components





Seats and retainers





Trim components

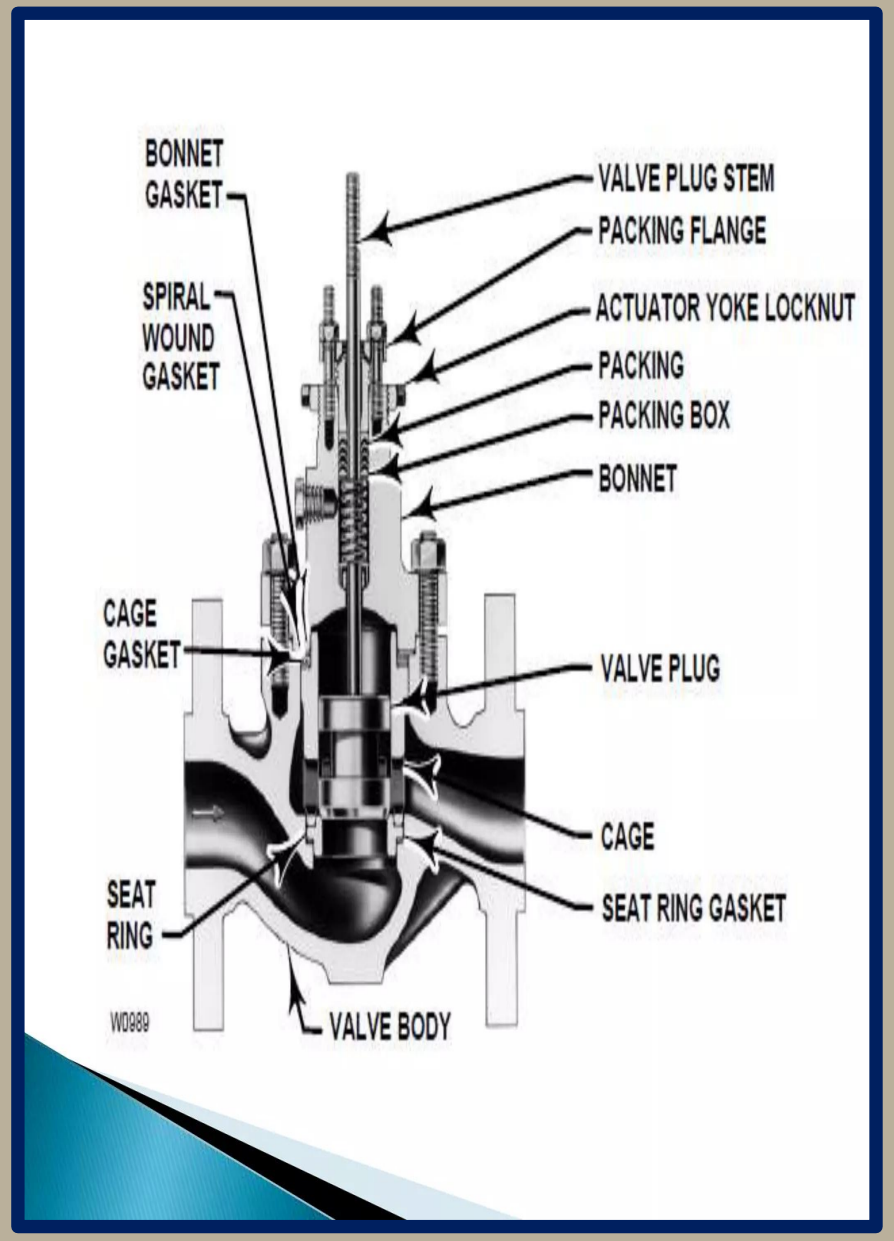




Focused capability for critical valve parts

CONTROL VALVE COMPONENTS MACHINING CAPABILITIES







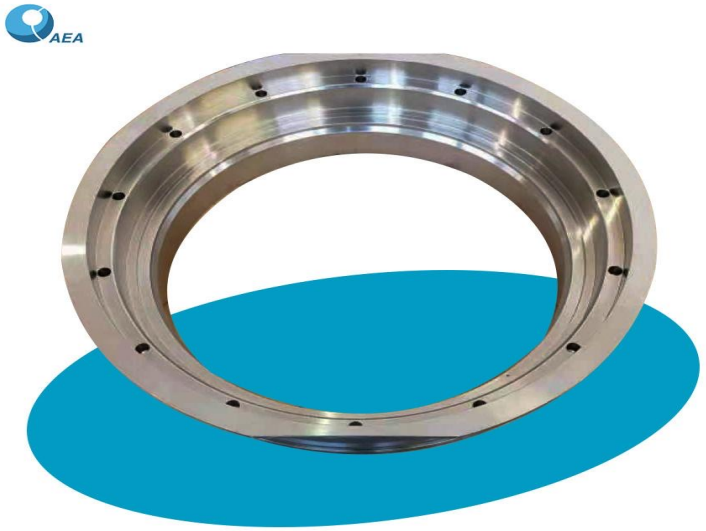


BALL VALVE COMPONENTS MACHINING CAPABILITIES



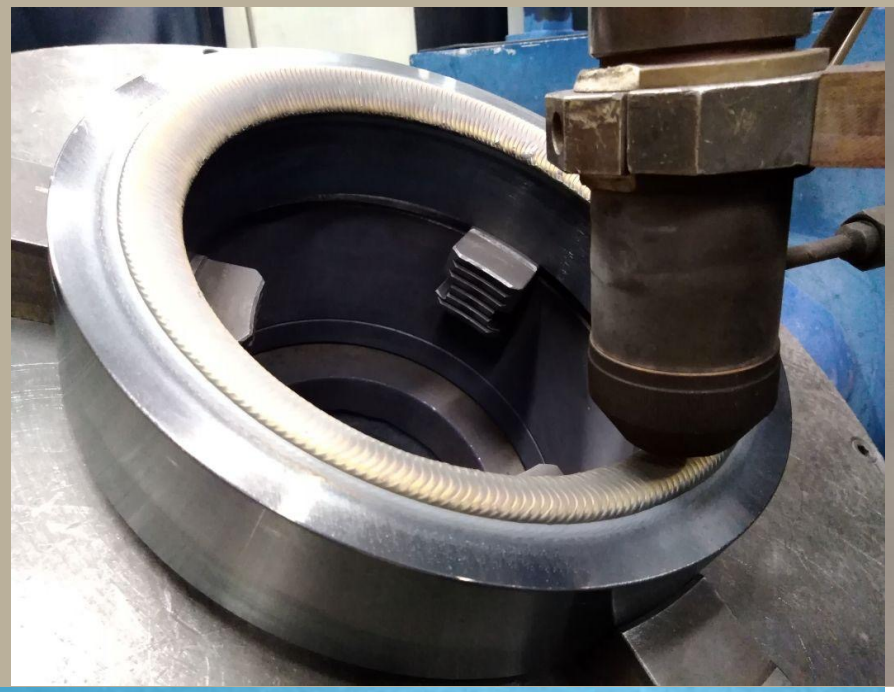


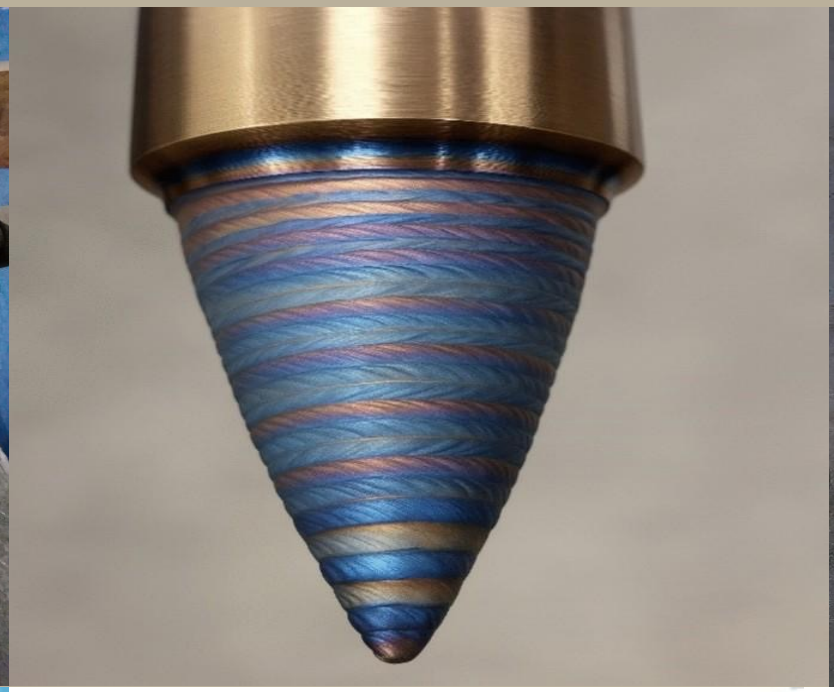






STELLITE FACING OVERLAY CAPABILITIES













FABRICATED COMPONENTS

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TMCBV
Valve
Body and
Closure

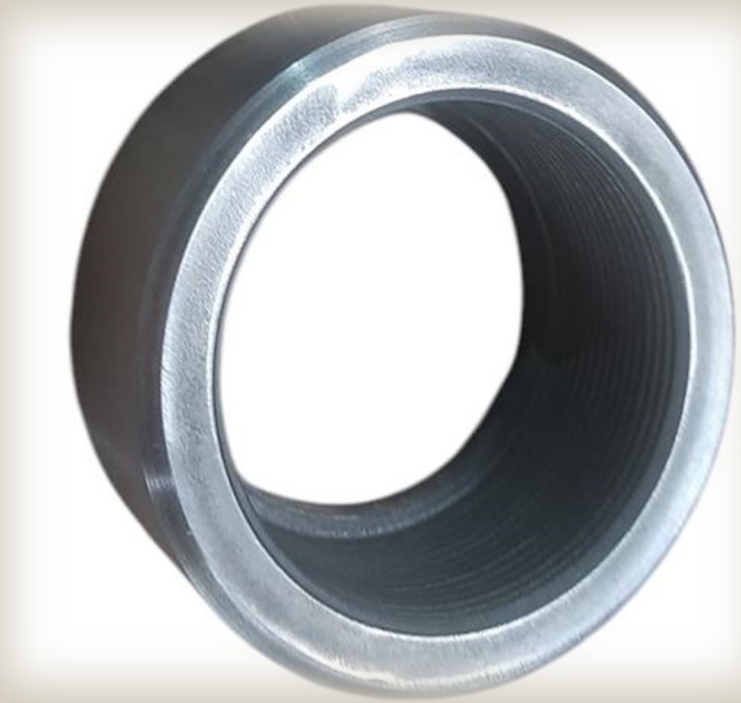


SPECIAL PROCESS COMPONENTS

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Boronizing Process method Case Depth >50micron and Hardness achieved >1500HV)



ID Thread Ttungsten carbide ==>Process Method HOVF process minimum0.25mm thickness per side.



Main ID and Faces Tungsten carbide ==>Process Method HOVF process minimum0.25mm thickness per side and Tolerance (+/- 0.0005")

SHRING FIT SEAT RET – 5 STAGE





INCONEL MATERIAL

Engineering Support

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- Technical communication
- Special process coordination
- Inspection planning
- Process planning
- Manufacturing feasibility
- Drawing/specification review





From drawing review to production

ERP-Driven Control

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- Document control
- Dispatch readiness
- Inspection status
- Production planning
- Route card / operation tracking
- Order acknowledgement



Visibility from PO to Dispatch

Planning & Capacity

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- Capacity planning
- Machine allocation
- Critical-order monitoring
- WIP visibility
- Lead-time control
- Daily production review

Managing high-mix production systematically

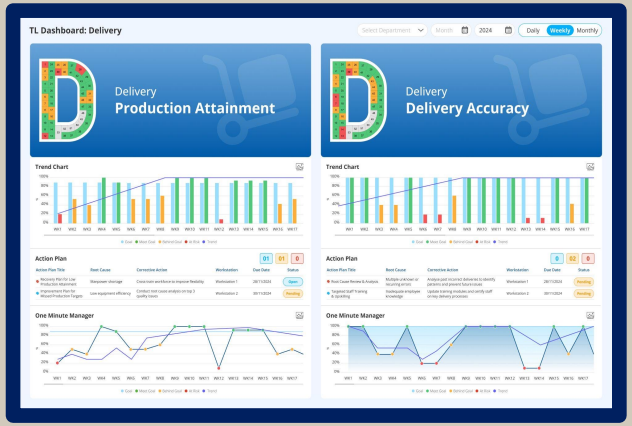
On-Time Delivery

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Daily dispatch planning

Critical order escalation

Cross-functional review



Invoice readiness

Packing and documentation control

Confidence in every shipment

Industries We Serve & Capable Industries

Microtech
PRECISION ENGINEERING



OIL & GAS INDUSTRIES



SEALING SYSTEMS



PUMP INDUSTRIES



BRAHMOS – AEROSPACE
(Entry Level)



ISRO – VSSC
(Entry Level)



ENERGY SECTOR



AUTOMOTIVE INDUSTRY
(Capable)



METRO / RAILWAY
(Capable)

Microtech Growth Journey Since 2007 upto 2026



Phase 1: Build the Base (2007 – 2010)



Phase 2 : Capacity Development (2011 – 2015)



Phase 3 : Customer & Product Expansion (2016 – 2018)



Phase 4 : Advanced Manufacturing (2019 – 2022)



Phase 5 : Technology & Market Diversification (2022 – 2026)

Integrate machining, welding, inspection and material traceability into a stronger end-to-end offering.



Let's Build the Future Together – Beyond 2026

The next phase should move Microtech from a capable component manufacturer toward an integrated, multi-sector precision engineering group.

2027 Improve capacity utilization, standardize systems and increase repeat business.

2028 Expand higher-value machining, welding and component-development programs.

2029 Strengthen export customers, technical partnerships and sector-specific capabilities.

2030 Evaluate major infrastructure expansion and a centralized corporate campus based on confirmed demand, cash flow and investment returns.



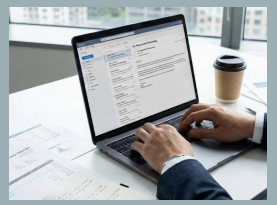
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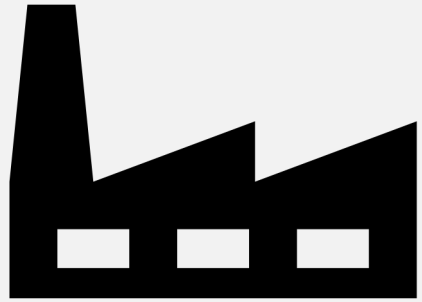


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