



**MANUFACTURING OF
PRECISION TURNED & MILLED
COMPONENTS**

ABOUT US

Unitek Engineering, located in Bengaluru, India, provides a comprehensive solution as a one-stop shop for the production, assembly, and supply of high precision Turned & Milled parts and other machined components that serve critical engineering applications.

The company boasts a rich history of collaboration with some of the world's most renowned manufacturers. Unitek Engineering's foundation is firmly established on a commitment to engineering excellence, nurtured through unwavering dedication to quality, timely delivery, value, and a relentless drive to exceed customer expectations beyond mere fulfillment of their requirements.

Overall, Unitek Engineering's track record showcases its expertise in catering to the exacting demands of precision engineering, making it a trusted and reliable partner for industries requiring top-notch machined components.

Established in 2018
Engineers 4
Employees 40
16000 square foot facility

LEADERSHIP

Akshay, who holds an education in Mechanical Engineering from AIT Bangalore, commenced his career in Tool Making and Shop Floor Management. He managed various manufacturing processes, including Surface Grinding, Electrical Discharge Machining (EDM), Vertical Machining Center (VMC), CNC Lathe operations, quality control, and lean manufacturing.

In 2018, Akshay embraced the role of a Manufacturing Entrepreneur and initiated his venture with 3 CNC lathe machines, operating from a 900 sqft facility. Over time, his dedication and hard work have led to significant growth, transforming the business into what it is today.

As an entrepreneur, Akshay maintains a strong focus on ensuring that Unitek operates at the forefront of technology, adhering to the highest standards of quality and efficiency. Additionally, he takes personal responsibility for the successful execution of key projects within the organization.

Beyond his professional pursuits, Akshay exhibits a true engineer's spirit, driven by his passions for cars, bikes, and watches.

Overall, it seems that Akshay's journey from an engineering graduate to a successful manufacturing entrepreneur is a testament to his dedication and expertise in the field.



AKSHAY NAGABUSHAN
Founder & CEO

SERVICE

Raw material sourcing

Aluminium

Stainless steel

Steel

Tungsten

Titanium

Plastic copper

Brass

PTFE

EN 31 / EN 8



SPECIAL PROCESSES

Plating

Chromate

Anodising (Sulphuric, Black, Chromic)

Hard Anodising

Electroless Nickel

Zinc

Zinc Nickel

Passivation

Soft Gold

Hard Gold

Silver



ALUMINUM CHROMATE CONVERSION COATINGS

OTHERS

Stress Relieving

Heat Treatment

Vibro Deburring

Hardening

Sparking

Visual Testing

Magnetic Particle Testing

Liquid Penetrant Testing

Radiographic Testing

Ultrasonic Testing

Electromagnetic Testing



MANAGED SERVICES

Unitek Engineering's advantage in Project Management and sourcing is the result of our extensive 6 years of experience in serving domestic customers, coupled with the ownership of a state-of-the-art CNC machining facility. Our success is driven by the personal commitment of our team, well-defined quality processes, and the expertise of our skilled project management professionals.

Over the years, we have cultivated a strong and reliable network of partners, enabling us to offer our customers even greater value addition and expanded capabilities. This, in turn, alleviates the challenges and complexities of managing multiple suppliers, ensuring a seamless experience for our clients.

At Unitek, we take pride in providing comprehensive, full turnkey project management services that encompass every aspect of the project. From sourcing raw materials, engineering fit-out, First Article Inspections (FAIs), strategic sourcing, and vendor management, to meticulous process documentation, post-machining special processes, sub-assemblies, packaging, and shipping – we handle it all. Our approach is geared towards streamlining our clients' supply chains, granting them a significant competitive advantage, and ultimately leading to enhanced customer satisfaction.

Our dedicated Project Manager, supported by competent strategic sourcing, quality assurance, and engineering teams, ensures impeccable quality and timely delivery. This tight control and insightful oversight over each project guarantee that we meet deadlines while maintaining an unwavering commitment to delivering products of the highest quality – 100% quality assurance is our priority.

With Unitek Engineering as your partner, you can be confident that your projects will be efficiently managed, resulting in successful outcomes, delighted customers, and a strengthened market position. We have the connections and relationships to provide manufacturing services for a wide range of capabilities, including:

Casting / forging / sheet metal / edm wire cutting / 3d printing

INFRASTRUCTURE

FACILITY

Unitek Engineering operates a world-class, cutting-edge manufacturing facility spanning 12,000 square feet, strategically situated in the industrial cluster of Bangalore, India.

Our commitment to excellence is evident through our substantial investments in state-of-the-art machinery and tools. These advanced technologies empower us to produce components with precision and tight tolerances, aligning with the demanding quality standards essential to thrive in the competitive global marketplace.

Among the prime equipment that drives our shop floor operations are:

MACHINERY

Galaxy Make CNC Turning Centre
(165 Turning Dia) - 5 nos



Pride Ultra Lynx (200 Dia) - 3 nos



Shop Floor Facility



BFW Orbitur (165 Dia) - 3 nos



LIST OF VMC

LMW JV 30 Drill Tap Center - 1 nos



LEAD WELL 450 (Drill Tap Centre) - 1 nos



BFW VMC - 4 nos



CNC MILLING
5 VERTICAL MILLING CENTERS OF CAPACITY
with (4th & 5th Axis)
X * Y * Z
800*450*600 (4th axis)
450*350*450 (4th axis)
450*350*350
900*500*500 (4th axis)
350*200*300

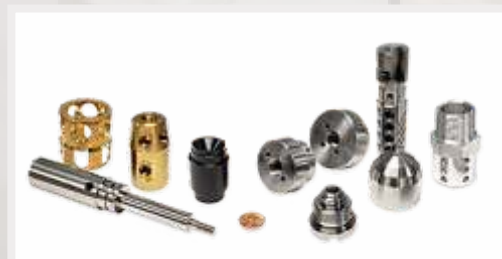
With 4 Axial Live tools and
2 Radial live tools



Turn mill center (1 nos)



Parts



OTHER MACHINERY

Drilling Machines.



Band Saw Cutting From 0 To 300 Dia - 2 M/c.



Bench Grinding.



Vibro Deburring



Centerless Grinding.



QUALITY

Unitek Engineering takes pride in being an ISO 9001:2015 certified company, a testament to our unwavering commitment to quality and excellence.

To uphold the highest levels of quality and efficiency, all processes at Unitek adhere to a strict set of quality procedures. In our world-class standards room, we have installed state-of-the-art quality instrumentation, including:

Precision Gauges

We utilize precision gauges to measure critical dimensions with accuracy, ensuring the components meet the required specifications.

Inspection Instruments

Advanced inspection instruments are employed to verify various aspects of the manufactured components, such as surface finish, hardness, and material properties.

Calibration

To maintain the integrity of our measurement tools, all gauges and instruments undergo periodic calibration by NABL (National Accreditation Board for Testing and Calibration Laboratories) certified laboratories, providing third-party assurance of accuracy.

At Unitek Engineering, all quality assurance activities are thoughtfully planned and meticulously documented, as required by our customers. This documentation includes:

Quality Plans: A comprehensive outline of the quality objectives, methods, and responsibilities for each project.

Full Traceability

We maintain complete traceability of materials used in the manufacturing process, allowing for easy identification and verification.

Material Certification: We provide certifications confirming the quality and properties of the materials used in production, giving our customers confidence in the sourcing process.

Process Control Instructions: Detailed instructions are established and followed to ensure consistent and controlled manufacturing processes.

FAIRs (First Article Inspection Reports)

These reports document the initial inspection of the first manufactured components, assuring their compliance with customer requirements.

Production Inspection and Test Reports

Comprehensive reports generated during production inspections and testing, providing critical data on the quality of the components.

Third-Party Validations: Whenever required, we involve third-party validations to independently assess and confirm the quality and compliance of our products.

By meticulously following these quality procedures and maintaining rigorous documentation, we guarantee that every component leaving our facility meets the highest industry standards, instilling confidence in our customers and reinforcing Unitek Engineering's reputation as a trusted and reliable partner.



QUALITY INSTRUMENTS

Digital Vernier Caliper 0-150 /0-200/0-300

Digital Micrometer 0-25 /25-50

Micrometer 0-25/50-75

Blade Micrometer

Pitch Micrometer

Bore Gauges

Lever Gauges

Air Gauge

Digital Height Gauge

Height Gauge

Special Gauges

Thread Ring Gauges

Thread Plug Gauges

Slip Gauge Set .

Profile Projector

Ultrasonic Cleaning Machine

Height Master (650mm)



Profile Projector



Surface Roughness Tester



At Unitek Engineering, we pride ourselves on our flexibility and ability to meet diverse production demands. To achieve this, we have established a network of trusted supplier facilities that align with our high standards. These extended supplier facilities are thoroughly vetted to ensure they meet the same stringent quality and efficiency requirements that we uphold in our own manufacturing facility.

By leveraging our extensive range of quality instruments and collaborating with reliable suppliers, we are dedicated to delivering top-notch products that meet or exceed the expectations of our customers, regardless of the complexity or scale of their requirements.

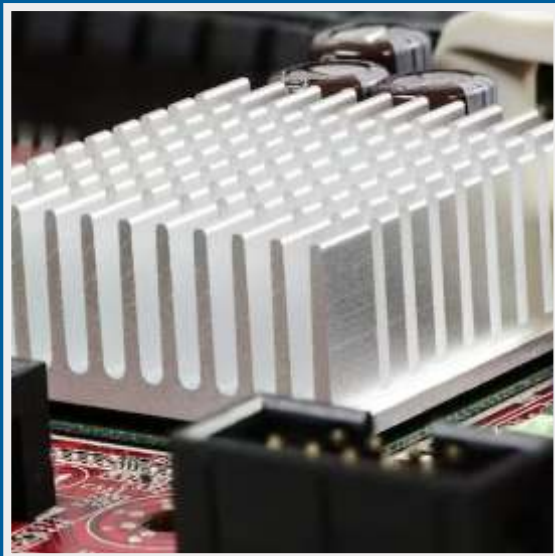
SECTORS

Unitek Engineering excels in providing high-quality manufacturing solutions for various industries, including:

AEROSPACE

Fasteners and Engine Components:

In the aerospace sector, Unitek specializes in producing precision-engineered fasteners, critical for securing aircraft components. Additionally, we manufacture engine components that demand tight tolerances and high-performance standards to ensure safe and reliable aircraft operation.



ELECTRONICS

Enclosures with Heat Sink:

For the electronics industry, Unitek offers expertise in fabricating enclosures and cabinets equipped with heat sinks. These specialized enclosures efficiently dissipate heat generated by electronic devices, ensuring optimal performance and longevity.

MEDICAL

Ventilator Components, Rotor, Stator, Housings in Blood Gas Analyzer:

In the medical field, Unitek plays a vital role in producing components for ventilators, an essential medical device during critical respiratory conditions. Additionally, we manufacture rotor and stator components used in various medical devices, as well as housings for blood gas analyzers, which require precise and reliable performance.



HYDRAULIC

Spools, Manifold Blocks:

In the hydraulic industry, Unitek manufactures spools and manifold blocks to control the flow of fluids in hydraulic systems. These components are vital for efficient and smooth operation in a range of hydraulic applications.



With our world-class manufacturing facility, advanced machinery, and highly skilled project management team, we are well-equipped to cater to the diverse needs of these industries. Unitek Engineering's commitment to quality, efficiency, and customer satisfaction makes us a trusted partner for companies seeking top-tier precision manufacturing services across aerospace, electronics, medical, hydraulic, and various other sectors.

OUR ESTEEMED CLIENTS ARE



SAAB ENGINEERING





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