

AFSUHAM PRECISION ENGINEERING

Advanced Swiss-Type CNC Manufacturing for Mission-Critical Components

Precision. Quality. Repeatability.
Productivity. Delivery Reliability.
Customer Confidence.

SMALL
COMPONENTS.
BIG
POSSIBILITIES.

Afsuham Precision Engineering specializes in high-accuracy CNC machining using advanced Sliding Head (Swiss-Type) technology. We manufacture precision small-diameter and complex components with exceptional dimensional accuracy, superior surface finish, and consistent quality. With modern CNC equipment, advanced inspection facilities, and a skilled workforce, we deliver reliable and cost-effective machining solutions for both high-volume and batch production requirements.



ENGINEERED
FOR A BRIGHTER
TOMORROW



INDUSTRIES WE SERVE

DIVERSE INDUSTRIES. A STRONGER TOMORROW.



MEDICAL DEVICES



AUTOMOTIVE & EV



AEROSPACE & DEFENCE



ELECTRONICS



ROBOTICS



PRECISION
INSTRUMENTATION



ENGINEERING PRECISION AT SCALE

Capabilities for small-diameter and complex precision components

Afsuham Precision Engineering manufactures high-accuracy small-diameter and complex components with superior dimensional accuracy, surface finish, repeatability, and scalability from batch to high-volume production.

SMALL
COMPONENTS.
BIG
POSSIBILITIES.

WHY SWISS-TYPE CNC?

- | | | | | |
|--|---|--|---|---|
|  Tight dimensional tolerances |  Small-diameter machining capability |  High concentricity |  Complex geometries |  Superior surface finish |
|  High production repeatability |  Reduced secondary operations |  Efficient cycle times |  High-volume manufacturing economics | |



PRECISION
COMPONENTS
FOR A BRIGHTER
TOMORROW

CORE MACHINING CAPABILITIES

- | | | | | | | |
|--|--|--|--|--|---|--|
|  CNC Turning |  Micro & Small-Diameter Machining |  CNC Milling |  Cross & Axial Drilling |  Thread Machining |  Grooving & Parting | |
|  Tapping |  Knurling |  Boring & Reaming |  Chamfering |  Back Working |  Live-Tool Machining |  Turn-Mill Operations |



**Afsuham
Holdings, Inc.**

PRECISION FOR A BETTER TOMORROW

ADVANCED MACHINE PLATFORM

Precision manufacturing technology aligned to component geometry, tolerance, material, and production volume.

At Afsuham, we select the most suitable machine platform for each project, considering part size, complexity, tolerance, material, and output requirements. Our modern CNC equipment and advanced manufacturing capabilities enable us to deliver high-precision, cost-effective, and scalable production solutions across a wide range of industries.

MACHINES
TECHNOLOGY
PEOPLE
BETTER PARTS.



01 | Swiss-Type Sliding Head CNC

High-precision machining for small-diameter, complex components.



02 | CNC Fixed Head Turning Centres

Powerful and versatile turning for larger-diameter and shorter components.



03 | CNC Turn-Mill Centres

Complete multi-operation machining in a single setup for complex parts.



04 | Twin-Spindle CNC Machines

Higher-productivity with simultaneous front and back machining.



05 | Vertical Machining Centres (VMC)

High-accuracy machining for prismatic parts, housings and plates.



06 | Horizontal Machining Centres (HMC)

Multi-face machining for higher-volume and complex industrial parts.

BEST-SUITED APPLICATIONS

01 Swiss-Type Sliding Head CNC



Small-diameter, long and slender components with tight tolerances.

02 CNC Fixed Head Turning Centres



Shorter and larger-diameter turned parts with high dimensional accuracy.

03 CNC Turn-Mill Centres



Complex components requiring multiple operations (turning, milling, drilling, etc.).

04 Twin-Spindle CNC Machines



Higher productivity through simultaneous front and back machining.

05 Vertical Machining Centres (VMC)



Prismatic parts, housings, brackets and plates.

06 Horizontal Machining Centres (HMC)



Multi-face machining and higher-volume industrial components.



INDUSTRIES WE SERVE

Precision components for critical engineering applications.

PRECISION
FOR A HEALTHIER
TOMORROW



MEDICAL DEVICES & SURGICAL TECHNOLOGY

High-precision components for life-saving and life-enhancing technologies.

- Surgical instrument components
- Guide pins
- Shafts
- Cannulated parts
- Dental components

DRIVING
A CLEANER
BRIGHTER
TOMORROW



AUTOMOTIVE & EV

Precision components for next-generation mobility and performance.

- Precision shafts
- Valve components
- Sensor housings
- EV connector components

HIGHER
STANDARDS
FOR A SAFER
TOMORROW

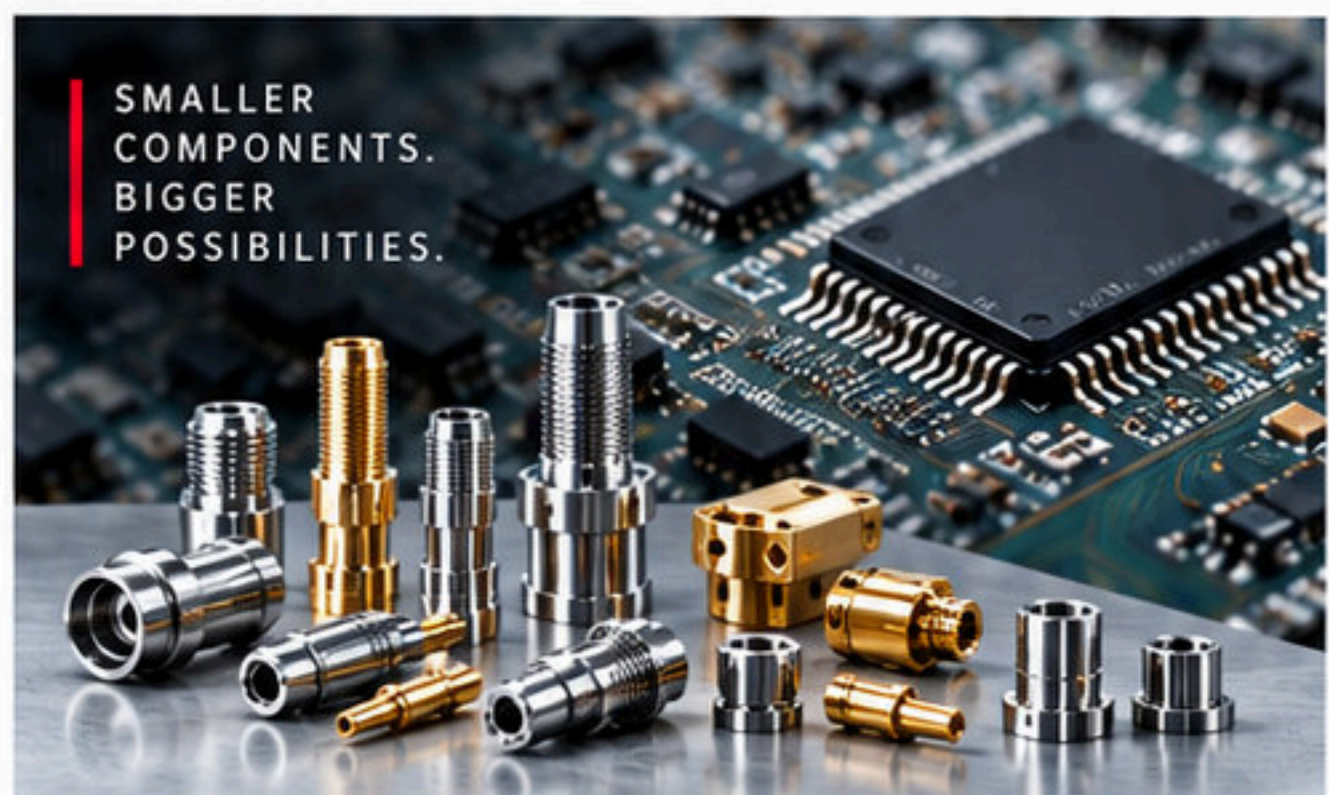


AEROSPACE & DEFENCE

Mission-critical components for demanding environments.

- Fasteners
- Bushings
- Spacers
- Hydraulic parts
- Instrumentation components

SMALLER
COMPONENTS.
BIGGER
POSSIBILITIES.



ELECTRONICS & ELECTRICAL

Precision components enabling smarter, more connected technologies.

- Connector pins
- Terminals
- RF parts
- Miniature spacers
- Instrumentation connectors

ADDITIONAL
SECTORS
WE SUPPORT



Robotics



Hydraulics



Energy



Telecommunications



Precision
Instrumentation



OEM
Manufacturing



INDUSTRIES WE SERVE | ADVANCED APPLICATIONS

Engineered solutions across motion, flow control, connectivity, measurement, and OEM production.

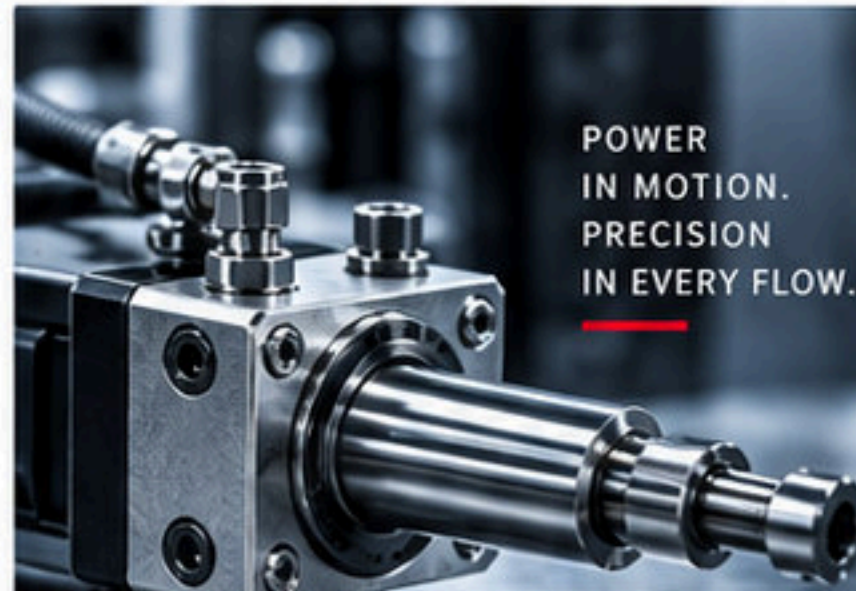


AUTOMATION
DRIVES
A SMARTER
TOMORROW.

**ROBOTICS & INDUSTRIAL
AUTOMATION**



- Robotic shafts
- Couplings
- Actuator parts
- Gripper components



POWER
IN MOTION.
PRECISION
IN EVERY FLOW.

HYDRAULICS & PNEUMATICS



- Valve spools
- Valve stems
- Pistons
- Fittings



CRITICAL
COMPONENTS
FOR A MORE
SUSTAINABLE
WORLD.

**OIL, GAS, ENERGY &
PROCESS INDUSTRIES**



- Instrumentation parts
- Couplings
- Nozzles
- Flow-control components



CONNECTING
PEOPLE.
ENABLING
PROGRESS.

**TELECOMMUNICATIONS &
RF SYSTEMS**



- RF connectors
- Contact pins
- Sleeves
- Precision terminals



MEASURE
TODAY.
A BRIGHTER
TOMORROW.

PRECISION INSTRUMENTATION



- Probe components
- Gauge parts
- Optical instrument parts
- Sensor shafts



VERSATILE
PRECISION
FOR A STRONGER
TOMORROW.

**GENERAL ENGINEERING &
OEM MANUFACTURING**



- Bushes
- Sleeves
- Inserts
- Studs
- Custom turned components

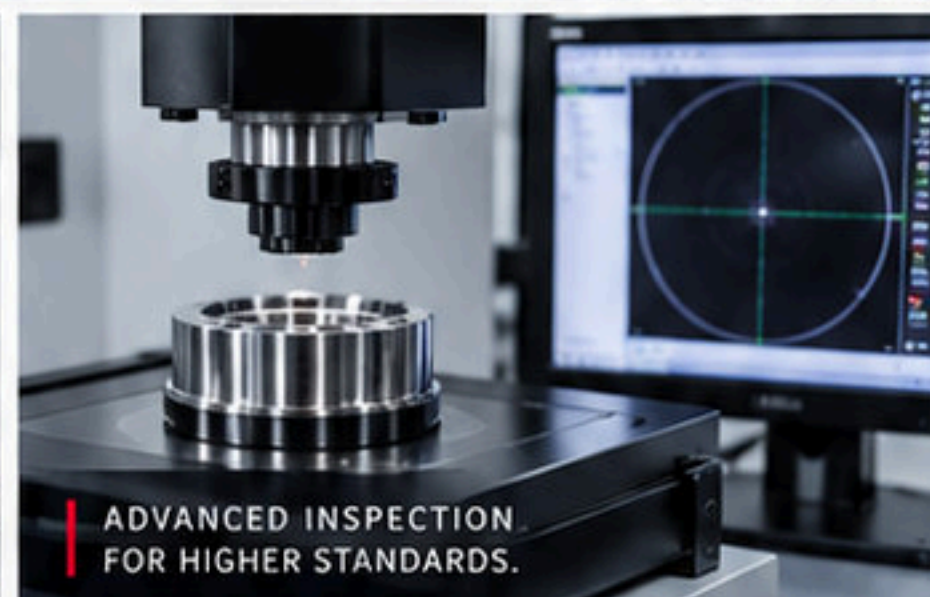
MATERIALS, QUALITY ASSURANCE & PROCESS CONTROL

Engineered Quality. Measurable Confidence.

At Afsuham Precision Engineering, quality is built into every process — not inspected only at the end. Through advanced materials expertise, rigorous inspection, and disciplined process control, we deliver precision components you can trust.

MEASURE
VERIFY
IMPROVE
DELIVER.

QUALITY TODAY.
A STRONGER
TOMORROW.



MATERIALS MACHINING CAPABILITY

We machine a wide range of materials to meet diverse industry requirements, from standard grades to high-performance alloys.

	Stainless Steels 303, 304, 316/316L, 410, 420, 430, 17-4 PH		Bronze Phosphor Bronze, Aluminium Bronze, etc.
	Engineering & Alloy Steels Carbon Steels, Alloy Steels, Tool Steels, Hardened Steels		Titanium Alloys Ti-6Al-4V, Grade 2, Grade 5 and other grades
	Aluminium Alloys 6061, 6063, 7075 and other grades		Nickel-Based Alloys Inconel®, Incoloy®, Hastelloy® and other alloys
	Brass Free-Cutting and Engineering Grades		Engineering Plastics & Polymers POM (Delrin®), PTFE (Teflon®), PEEK, Nylon, UHMW, PET, PVC and other technical plastics
	Copper C110, C102 and other grades		

INSPECTION CAPABILITIES

Comprehensive inspection capabilities ensure dimensional accuracy, consistency and full traceability.

	CMM (Coordinate Measuring Machine)		Bore Gauges
	Video Measuring System (VMS)		Surface Roughness Tester
	Profile Projector		Thread Gauging
	Digital Height Gauge		Optical Inspection
	Digital Micrometers		Additional Gauges and Custom Fixtures



QUALITY IS BUILT INTO THE PROCESS.

Through people, processes and precision technology, we ensure reliability at every stage.

FROM DRAWING TO PRODUCTION

A disciplined process that turns your ideas into high-quality, production-ready components.



YOUR **PRECISION** MANUFACTURING PARTNER

From Microns to Millions.

Afsuham combines advanced CNC manufacturing, engineering discipline, quality assurance, cost optimization, production scalability, and supply-chain reliability to support OEMs and precision-driven industries.

ENGINEERED
TOGETHER
FOR WHAT'S
NEXT.

PEOPLE.
CAPABILITIES.
PARTNERSHIPS.
A BRIGHTER
TOMORROW.



Precision
High-accuracy
manufacturing.



Repeatability
Consistent
results.



Productivity
Efficient and
reliable output.



Scalability
From prototype
to high volume.



Quality
Built-in
confidence.



Cost Engineering
Optimized
solutions.



Delivery Discipline
On time.
Every time.



**Engineering
Partnership**
Collaborate.
Innovate. Grow.

PROTOTYPE • DEVELOP • INDUSTRIALIZE • MANUFACTURE • SCALE

Whether the requirement is a miniature medical component, a precision automotive part, an aerospace fastener, an electronic connector, or a custom OEM component, Afsuham is built to deliver dependable manufacturing solutions.

A STRONGER TOMORROW, TOGETHER.



**Afsuham
Holdings, Inc.**



Explore Collaboration
www.afsuham.com/manufacturing



Submit an Expression of Interest
www.afsuham.com/eoi