

COMPANY PROFILE | BENGALURU, INDIA

Machined to spec. Built on partnership.

CNC precision engineering components for aerospace, defence and demanding industrial applications.

ENGINEERED FOR PRECISION. BUILT FOR RELIABILITY.

Manufacturing | Measurement | Partnership



ABOUT SK AERO TECH

Engineering with purpose and precision

SK Aero Tech Industries manufactures precision-engineered components through CNC machining. Based in Bengaluru, the company serves aerospace, defence, telecom, healthcare and general industry applications. Work begins with customer-defined drawings, material requirements and acceptance criteria, then aligns a practical manufacturing and inspection route with delivery expectations.

VISION

To become a globally recognised precision engineering partner, renowned for manufacturing excellence, technological advancement and an uncompromising commitment to quality and reliability.

MISSION

To manufacture high-quality, precision-engineered components through advanced CNC machining, skilled expertise and rigorous quality practices, while building lasting customer partnerships and continuously advancing manufacturing capability.

PRECISION, CLARITY, ACCOUNTABILITY

A manufacturing partner focused on clear requirements, practical coordination and measured verification.



FROM DRAWING TO DELIVERY

A clear route from requirement to part

A straightforward sequence keeps the drawing, process, inspection plan and delivery expectations aligned. Requirements are reviewed before work proceeds, with questions raised early and responsibilities agreed at quotation. Clarifications are resolved before planning advances, and agreed records follow the part through final delivery.

01

UNDERSTAND

Review revision, material, quantity, finish and acceptance criteria.

02

ALIGN

Confirm route, clarifications, schedule and quotation assumptions.

03

MANUFACTURE

Coordinate machining and agreed in-process checks.

04

VERIFY & DELIVER

Complete defined checks and coordinate records and dispatch.

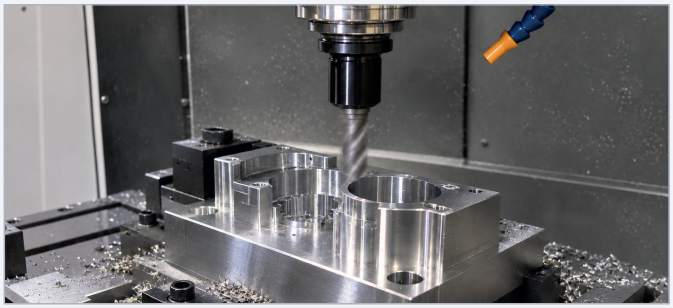
DRAWING CONTROL

Use the current released revision for quoting and production. Clarify material, datums, critical features, surface treatment, inspection evidence and secure transfer needs before manufacturing starts.

WHAT THE SHOP SUPPORTS

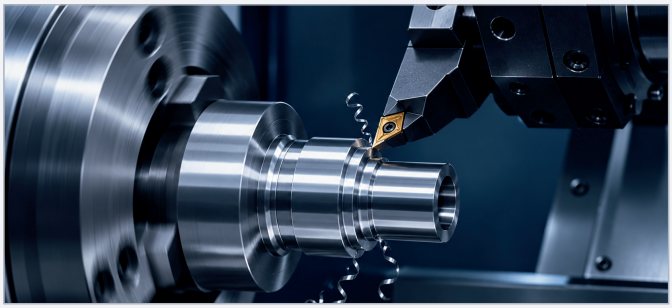
Precision CNC machining and assembly

Manufacturing capability combines vertical milling, CNC turning, early engineering input and assembly coordination. Scope, work envelope, machine availability, inspection method and process details are confirmed against the released part definition during technical review. Final routes, fixtures, acceptance checks and handoff are aligned during quotation.



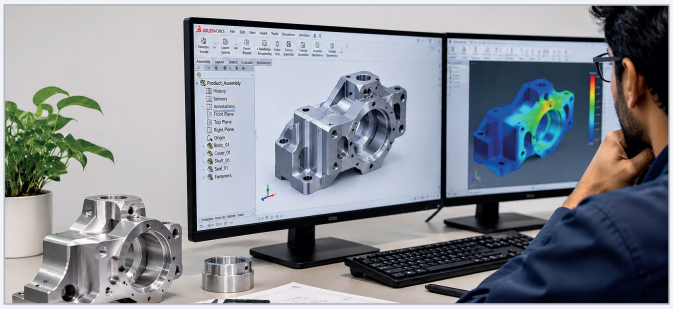
CNC MILLING

Profiles, pockets, holes and machined features planned to customer drawings.



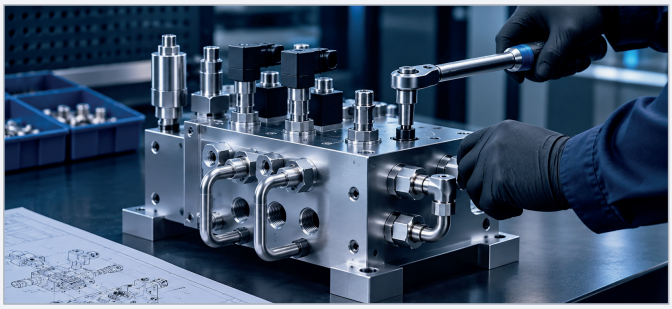
CNC TURNING

Cylindrical forms and turned features supported by dedicated turning capability.



PRODUCT DEVELOPMENT

Early manufacturing input on drawing intent, process route and inspection needs.



CRITICAL PART ASSEMBLY

Assembly coordinated to customer-defined requirements and approved work instructions.

MANUFACTURING AND MEASUREMENT

Equipment for making and measuring

Listed equipment supports CNC turning, vertical milling and dimensional inspection. Machine capacities, accuracy statements, calibration status and work envelopes are not specified in the supplied files and must be confirmed for each programme.



CITIZEN A20-3F7

Sliding-headstock CNC automatic lathe.



HAAS VF-2 VMC

Vertical machining centre.



AMS MCV-450

Vertical machining centre.



Accurate Spectra 685 CMM

Coordinate measurement equipment.



Accurate VMM 3020 CNC

Vision measurement equipment.



Mitutoyo digital height gauge

Dimensional measurement support.

PRODUCT PORTFOLIO

Machined component families and applications

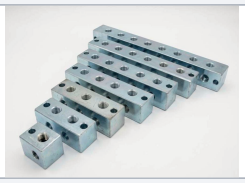
The supplied photographs show representative machined work. Material, process, finish, inspection and delivery scope are confirmed against each customer drawing and purchase requirement. The images do not establish an available material range or production commitment.



Aerospace enclosures shown with dimensional inspection reference points.



Production examples include structural panels, manifolds, and valve bodies.



Zinc-plated hydraulic distribution bars for defined fluid-routing applications.



Assembled multi-station valve block shown with dual-side porting features.



Progressive lubrication distributor with numbered metering ports for service.



Hydraulic and lubrication fittings, adapters, and manifold assemblies.



Multi-cavity enclosure with precision-machined base features and pockets.



CNC detail on an aerospace electronic housing and bosses.



Deep-pocket milled enclosure shown with dimensional verification checks.



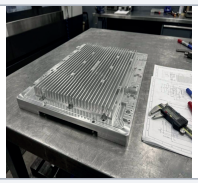
Prism-milled mounting bracket with a precision-machined internal bore.



Mounting plate with central bore and counterbored holes.



Low-profile pockets with surface consistency and thin walls.



CNC heat sink with multi-channel cooling fins and machined mounting surfaces.



Turned BSP, JIC, and metric hydraulic nipples and adaptors.

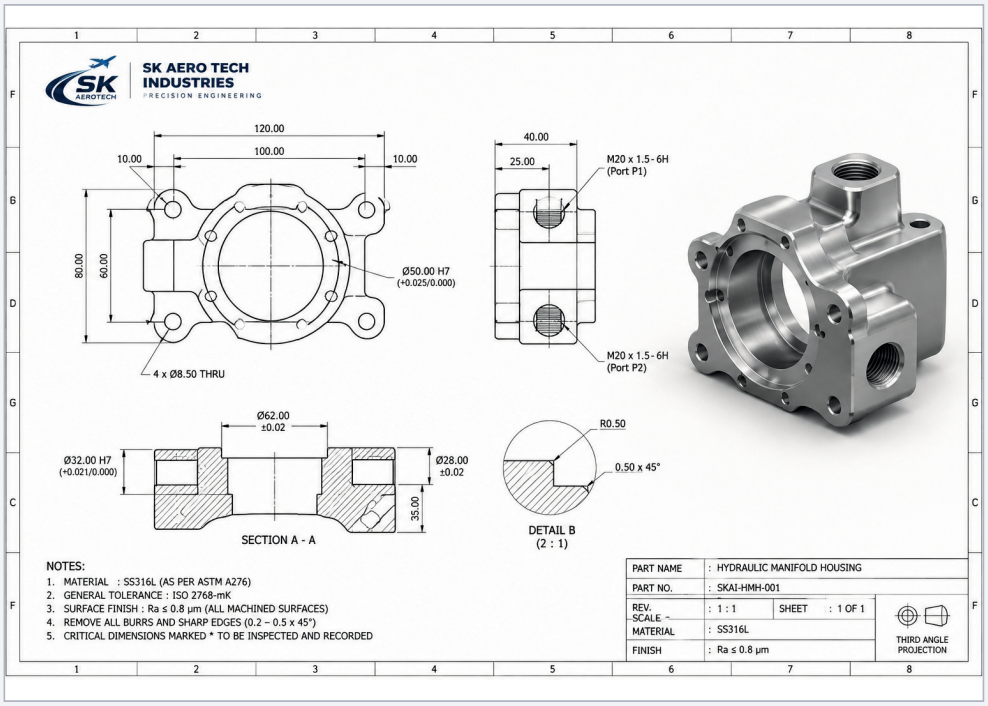


Portfolio of brackets, housings, manifold plates, and linkages.

DRAWING-LED ENGINEERING

Hydraulic manifold drawing and inspection

The supplied drawing defines a representative housing and records material, general tolerance, surface finish and critical inspection notes.



PART DEFINITION

PART NUMBER
SKAI-HMH-001

MATERIAL
SS316L, ASTM A276

GENERAL TOLERANCE
ISO 2768-mk

SURFACE FINISH
Ra <= 0.8 um

PORTS
M20 x 1.5 - 6H, P1 / P2

INSPECTION NOTE
Critical dimensions to be inspected and recorded

The drawing is a supplied design reference. Confirm release status, publication permission and current revision before external distribution.

Caption: Hydraulic manifold housing drawing shows datum views, threaded ports, critical dimensions and inspection notes.

QUALITY SYSTEM

Quality built into the way work is defined

Quality begins with understanding the drawing revision, material, critical features and acceptance criteria. Manufacturing and inspection requirements are aligned before work proceeds. Dimensional checks can be planned around suitable equipment, and records or documentation are coordinated as agreed for each job.

ISO 9001:2015

CERTIFIED - Website/quality.html

AS9100D

IN PROGRESS - not awarded





The supplied ISO 9001:2026 and AS9100D files are sample templates, not evidence of certification. ISO status is reported by the supplied website; verify the current certificate, scope and dates before release.



Accurate Spectra 685 CMM

Coordinate measurement



Accurate VMM 3020 CNC

Vision measurement



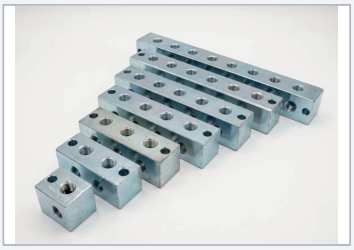
Mitutoyo digital height gauge

Dimensional checks

APPLICATION EXAMPLES

Engineering responses shaped around the part

These three capability examples are synthesized from supplied product captions and process descriptions. No customer project data, approval, measured outcome or performance metric was supplied; each example is illustrative and requires confirmation before publication.



01 FLUID ROUTING MANIFOLDS

Challenge: Multi-port fluid-routing components require intersecting passages, sealed interfaces and clear inspection criteria. Solution: Plan a CNC milling and drilling route from the released drawing; verify defined features with suitable measurement equipment. Outcome: A documented acceptance path for manifold blocks and distribution bars. Illustrative only; no customer, performance metric or production result was supplied.



02 PRECISION ENCLOSURES

Challenge: Electronic housings combine deep pockets, mounting faces and repeated hole patterns. Solution: Review the drawing revision and datums, sequence vertical milling operations, and align inspection points before production. Outcome: A controlled manufacturing and verification plan for enclosure work. Illustrative only; no customer attribution, tolerance achievement or measured result was supplied.



03 TURNED ADAPTORS

Challenge: Turned adaptors depend on concentric features and thread interfaces. Solution: Confirm thread standards and material from the released specification, then coordinate turning and agreed thread checks. Outcome: A clear route for BSP, JIC and metric adaptor families. Illustrative only; no delivery or quality metric was supplied.

CUSTOMER ATTRIBUTION

No case study is attributed to Hindustan Aeronautics Limited or Machine Tech Enterprises. Customer names and logos appear separately as supplied; written approval is required for external use.



CUSTOMER RELATIONSHIPS

Partnerships built one programme at a time

Long-term manufacturing relationships depend on shared understanding of the part, acceptance criteria, delivery expectations and communication responsibilities. Each engagement benefits from surfacing questions early and aligning engineering, procurement and production teams around released requirements.

Machine Tech Enterprises

Hindustan Aeronautics Limited

Customer names and logo artwork are shown as supplied. Confirm written permission, naming and brand requirements before public distribution. No endorsement or project attribution is implied.



START A TECHNICAL CONVERSATION

Bring a drawing for review

Share the drawing revision, material, quantity, finish, tolerance-critical features, inspection requirements and target schedule. Confirm any controlled information and approved transfer route before exchanging files. Manufacturing scope, feasibility and quotation assumptions are reviewed against the released specification, with clarification requests raised before work is committed.

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REQUEST A QUOTE | SHARE A DRAWING | ALIGN THE REQUIREMENTS



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