

ABOUT US

Tool & Technology Institute (TTI), BITAC is equipped with advanced CNC machines, tool-making, metallurgical testing, heat treatment, surface engineering and additive manufacturing facilities. We provide comprehensive engineering solutions under one roof to support industry, R&D, prototyping, production, and maintenance requirements. We also provide Hi-tech 4-IR related advanced technical trainings.

OUR SERVICES

- **Advanced Manufacturing (CNC Machines):**

Taking direct orders from light and medium industries, as well as government and private sectors, to manufacture precision spare parts, dies, and molds using our engineers, expert designers and operators.

- **Common Facility:**

Allowing capable light engineering entrepreneurs and startups to facilitate our advanced machines (CNC, EDM, Grinding, CMM, etc.) at affordable charges per hour to make their own spare parts and molds without buying the machineries.

- **Testing, Metrology and Surface Engineering:**

We provide advanced metal testing, metrology, heat treatment and coating facilities. which includes Optical Emission Spectro-Analyzer (OES), Hardness Tester, Roughness Tester, Vacuum Furnaces (hardening & tempering), Co-ordinate Measuring Machine(CMM), Physical Vapor Deposition (PVD) etc.

- **Engineering Consultancy:**

Providing expert technical advice and consultancy services to industries and light engineering sectors.

- **R&D and Innovation (Incubation Center):**

Providing dedicated desk and office space to prospective entrepreneurs and tech startups for research, development and innovation so they can establish and scale their businesses.

- **Metal Bank:**

We offer extensive list of engineering metals, tool and mold steels to our customers (especially light engineering sectors) and entrepreneurs.

- **Hi-Tech (4-IR Related) Training:**

Providing advanced level regular/customized training for students, teachers, professionals and defense personnel. (CNC, PLC, CAD, CAM etc.)

TOOL & TECHNOLOGY INSTITUTE (TTI), BITAC

Ministry of Industries
Government of the People's Republic of Bangladesh
Address: 116 (Kha), Tejgaon Industrial Area, Dhaka-1208.

Empowering National Innovation and Prototyping Under One Roof

ADVANCED INDUSTRIAL FACILITIES & SERVICES



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COMMON FACILITY & MACHINE CHARGES

Advanced machining services available to domestic startups and fabricators.

Machine Shop / Process	Key Capabilities	Rate (BDT/hour)
Haas UMC-750 (5-Axis)	Complex 3D Profiles, 5-sided milling	800
Haas VF-6 / VF-4 / VF-2	Vertical CNC milling, mold work	370 – 660
Haas ST-30Y / ST-20Y	4-Axis turning, live tooling	460 – 520
Haas ST-20 / ST-10	2-Axis CNC turning, shafts, sleeves	265 – 345
CHMER EDM Wire Cut / Sinker	Precision contours, hardened cavities	1,035 – 1,115
CNC Grinding (Surface/Cylindrical)	Surface & Cylindrical (Outside & Inside) precision grinding	575 – 920

N.B. Machine rates shown are minimum hourly charges. Actual rates can scale based on geometry, lead times, and metal grades.





• Real-World Tooling Portfolio (Dies, Molds & Spare Parts)

TTI and its incubated tech entrepreneurs excel in fabricating high-end industrial tooling, including complex molds and dies.

• Zero Capital Risk

Talented entrepreneurs and light engineering startups can rent million-dollar machinery at nominal hourly rates without heavy capital acquisition cost.

TESTING, METROLOGY & SURFACE ENGINEERING CHARGES

Comprehensive metallurgical certification, startup incubation, and hands-on 4IR training.

Service / Testing Equipment	Application / Scope	Rate (BDT)
OES Material Composition	Alloy analysis (Steel / Non-ferrous)	7k – 10k / test
Mitutoyo CNC CMM	3D Inspection & CAD verification	1,115 / hour
Hardness Testing (Rockwell)	Metallurgical hardness checking	1,000 / test
Surface Roughness / Coating Gauge	Precision roughness & plating check	1,000 / test
Digital Height Gauge / Pyrometer	Metrology & high temp evaluation	1,000 / test
Vacuum Heat Treatment	Hardening & Tempering stress relief	As Per Sample

N.B. Advanced OES analyzers and Coordinate Measuring Machines (CMM) are operated strictly by TTI's engineers to ensure absolute metrological precision.





• Comprehensive Workspace

A fully integrated industrial ecosystem under one roof, running from initial material stock cutting and precision CNC milling to vacuum hardening and inspection.

• Expert Technical Advisory

Direct engineering consultation and reverse-engineering support from experienced BITAC designers and technicians to resolve complex engineering bottlenecks.