

Bangladesh Industrial Technical Assistance Center (BITAC)

116 (Kha), Tejgaon I/A, Dhaka-1208.

Mechanical Department

Machine List

SL No.	Machine name	Specification	Quantity
01	Center Lathe Machine	Maximum Job Diameter: 1145 mm Maximum Job Length: 3650 mm Minimum Job Diameter: 04 mm Minimum Job Length: 300 mm Maximum Load: 01 Ton	26
02	Vertical Lathe Machine	Maximum Job Diameter: 1220 mm Maximum Job Height/Length: 610 mm Minimum Job Diameter: 100 mm Minimum Job Height/Length: 50 mm Maximum Load: 05 Ton	01
03	Horizontal Boring Machine	Maximum Boring Diameter: 1240 mm Maximum Job Height: 1000 mm Minimum Boring Diameter: 25 mm Minimum Job Height: 150 mm Maximum Load: 05 Ton	03
04	Vertical Boring Machine	Maximum Boring Diameter: 50 mm Maximum Job Height: 800 mm Minimum Boring Diameter: 20 mm Minimum Job Height: 20 mm	01
05	Planner Machine	Maximum Job Length: 2500 mm Maximum Job Width: 750 mm Minimum Job Height: 950 mm Minimum Job Length: 305 mm Maximum Job Width: 305 mm Minimum Job Height: 10 mm Maximum Load: 01 Ton	02
06	Radial Arm Drilling Machine	Maximum Job Length: 2600 mm Maximum Job Width: 1200 mm Maximum Drill Diameter: 75 mm Minimum Drill Diameter: 5 mm Minimum Job Height: 50 mm Maximum Load: 10 Ton	02
07	Milling Machine	Maximum Job Length: 762 mm Maximum Job Width: 457 mm Maximum Job Height: 355 mm Minimum Job Height: 05 mm	11
08	Gear Hob Machine	Maximum Job Diameter: 914 mm Maximum Job Height: 380 mm Minimum Job Diameter: 20 mm Minimum Job Height: 10 mm	02



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09	Jig Grinding Machine	Maximum Boring Diameter: 203 mm Maximum Job Height: 152 mm Minimum Boring Diameter: 06 mm Minimum Job Height: 06 mm	01
10	Jig Boring Machine	Maximum Boring Diameter: 203 mm Maximum Job Height: 304 mm Minimum Boring Diameter: 06 mm Minimum Job Height: 06 mm	03
11	Surface Grinding Machine	Maximum Job Length: 432 mm Maximum Job Width: 304 mm Minimum Job Height: 610 mm Minimum Job Length: 05 mm Maximum Job Width: 05 mm Minimum Job Height: 05 mm	02
12	Cylindrical Grinding Machine	Maximum Job Length: 1066 mm Maximum Job Diameter: 304 mm Minimum Job Length: 20 mm Minimum Job Diameter: 05 mm	03
13	Tool Grinding Machine	Table Traverse: 558 mm×178 mm Table Tilt: -3 Degree to +10 Degree Swivel of Carriage: 360 Degree Chuck Tilt: 90 Degree	02
14	Welding Machine	Types of Welding Arch: Arc, TIG, Gas, Brazing Types of Metal: Aluminum, SS, MS, Alloy Steel, Gun Metal, White Metal, Copper, Bronze, etc.	07
15	Shearing Machine	Maximum Job Thickness: 04 mm Minimum Job Thickness: 0.3 mm	01
16	Power Rolling Machine	Maximum Job Thickness: 12 mm Minimum Job Thickness: 0.3 mm	01
17	Bending Machine	Maximum Job Thickness: 5mm Minimum Job Thickness: 0.3 mm	01
18	Shaping Machine	Maximum Job Length: 600 mm Maximum Job Width: 300 mm Minimum Job Height: 300 mm Minimum Job Length: 50 mm Maximum Job Width: 50 mm Minimum Job Height: 25 mm	02



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19	Slotting Machine	Maximum Job Diameter: 600 mm Maximum Job Height: 200 mm Minimum Job Diameter: 50 mm Minimum Job Height: 05 mm	01
20	Power Saw Machine	Maximum Job Width: 540 mm Maximum Job Height: 300 mm	01
21	Bend Saw Machine	Maximum Job Width: 505 mm Maximum Job Height: 350 mm	01


21/11/24

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বাংলাদেশ শিল্প কারিগরি সহায়তা কেন্দ্র
ঢাকা কেন্দ্রের সকল বিভাগের মালামালের তালিকা

CNC Shop			
SL No.	Machine Name	Specification	Quantity
01	CNC Turning Center Model: ST-30Y	Capacity: Maximum Cutting Dia. 400mm Maximum Cutting Length 500mm Minimum Cutting Dia.: 5mm Accuracy Tolerance: ± 0.01 mm Axis: 4 axes. X,Y,Z and C Axis	01
02	CNC Vertical Machining Centre Model: VF-5	Maximum Capacity: 1250×650×600mm Minimum Cutting Size: 5mm Accuracy Tolerance: ± 0.01 mm Axis: 4 axes. X,Y,Z and A Axis	01
03	CNC Vertical Machining Centre Model: VF-1	Maximum Capacity: 500×400×500mm Minimum size: 5mm Accuracy Tolerances: ± 0.01 mm Axis: 3 axes. X,Y and Z Axis	01
04	CNC Compact Mill Model: CM-1	Maximum Capacity: 305×254×305mm Minimum size: 2mm Accuracy Tolerance: ± 0.01 mm Axis: 4 axes. X,Y,Z and A Axis	01
05	Wire Cut Machine Model: KD500ZL	Maximum Capacity 600×500×280mm UV 10° Minimum size: 2mm Accuracy Tolerance: ± 0.005 mm Axis: 3 axes. X,Y and Z Axis	01
06	3d Scanner Model: EinScan Pro HD	Maximum Scan size: 310×240 mm Minimum Scan size: 0.2 mm Scan Accuracy: ± 0.045 mm Scan Speed: Single Scan <0.5 s	01
07	Laser Marking Machine Model: HTF100	Maximum Work Capacity: 100×100×80mm Minimum work 0.25mm Weight Capacity: 100kg Accuracy: ± 0.045 mm Axis: 3 axes. X,Y and Z Axis	01
08	FDM 3D Printer Model: Creality CR-10 Smart	Maximum Printing Capacity 300×300×400mm Minimum: 1mm Filament: PLA/ABS/TPU/PETG/Wood, 1.75 mm Accuracy: ± 0.1 mm Axis: 3 axes. X,Y and Z Axis	01

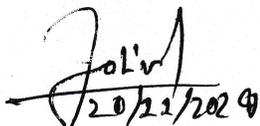
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09	MSLA 3D Printer Model: Anycubic Photon Mono X 6K	Maximum Printing Capacity: 197×122×245mm Minimum: 1mm Accuracy: ±0.01mm Axis: 3 axes. X,Y and Z Axis	01
10	EDM Machine Model: NCF606N JSEDM	Maximum Capacity: 610×450×300mm Minimum: 1mm Accuracy Tolerance: ±0.01mm Axis: 3 axes. X,Y and Z Axis	01
11	EDM Drill Model: KD703i	Maximum Capacity: 400×300mm Minimum: 0.3mm Electrode diameter: Φ0.3-Φ3.0mm Accuracy Tolerances ±0.01mm	01
12	Semi-Automatic Vertical Milling Machine	Maximum Capacity: 600 x 400 x 400 mm Minimum: 5mm Accuracy: ±0.05mm Axis: 3 axes. X,Y and Z Axis	01
13	Pantograph	Maximum Work Capacity: 200×315 mm Minimum 2mm Transmission Ratio: Maximum 1:1.5 Minimum 1: 10 Accuracy Tolerances ±0.05mm	06
14	Pantograph	Maximum Work Capacity: 200×350 mm Minimum 2mm Transmission Ratio: Maximum 1:1.5 Minimum 1: 10 Accuracy Tolerances ±0.05mm	02
15	Pantograph	Maximum Work Capacity: 250 ×700 mm Minimum 2mm Transmission Ratio: Maximum 1:1 Minimum 1: 4 Accuracy Tolerances ±0.05mm	01
16	Power Press	Capacity:250×250×250mm Maximum Press Capacity: 18 Ton	01
17	Hydraulic Press	Capacity:300×300×425mm Maximum Press Capacity: 2100 KN Minimum: 100 KN	01
18	Center Lathe	Distance between center: 1200 mm Minimum: 5mm Accuracy Tolerances ±0.1mm	01
19	Surface Grinding Machine	Maximum Work Capacity: 450×150 mm Minimum: 5mm Accuracy Tolerances ±0.02mm	01

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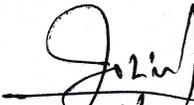
Foundry Shop

SL No	Machine Name	Specification	Quantity
01	Cupola Furnace	Capacity: 2 ton/hr Melting Metal: Cast Iron	01
02	Pit Type Crucible Furnace	Capacity: 150 kg Melting Metal: Non-Ferrous Metal & Cast Iron	01
03	Tilting Crucible Furnace	Capacity: 150 kg Melting Metal: Non-Ferrous Metal	01
04	Electric Induction Furnace	Capacity: 300 kg Melting Metal: Cast Iron, Steel, Copper, Aluminum, etc.	02
05	Electric Oven	Capacity: Temperature: 300 - 400°C, Volume: 43"X47"X60"	01
06	Sand Mixer Machine	Size: Dia 665 mm, Height: 500 mm. Uses: Mixing of Sand	01


20/11/2024
(মোঃ জাহিরুল ইসলাম)
সহকারী প্রকৌশলী (মেটালার্জি)
কাউন্সিল, প্যাটার্ন ও হিট ড্রটমেন্ট বিভাগ
বিটাক, ঢাকা-১২০৮

Pattern Shop

SL No	Machine Name	Specification	Quantity
01	Wood Turning Lathe	1. Length of bed: 6'8" Centre Height: 8" 2. Length of bed: 5'6" Centre Height: 6" Uses: Straight Turning, Tapper turning	02
02	Band Saw Machine	Blade Size: 3580 x 25 x 0.9, Cutting Height ≥ 10 " Uses: Cutting of Wood	01
03	Circular Saw Machine	Maximum depth of cut: 3" Circular Saw Diameter: 12" Uses: Cutting of Wood	01
04	Bench Drilling Machine	Maximum Drilling Capacity: 13 mm Uses: Drilling holes through wood	01
05	Mortiser Machine	2 HP, Spindle Speed: 2900, Chisel Size: 13 mm x 13 mm Uses: Square or rectangular holes through wood	01
06	Disc Outside Sander Machine	Table size: 235 x 530 mm, Disk Diameter: 360 mm, Disc Speed: 1900 rpm Uses: Outside finishing of Pattern	01
07	Bench Grinding Machine	Surface Speed: 7500 FT./Min, Wheel Diameter: 8", Power: 550 watt Uses: Polish of wood	01


20/11/2024

(মোঃ জাহিরুল ইসলাম)
সহকারী প্রকৌশলী (মেটালার্জি)
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বিটাক, ঢাকা-১২০৮

Heat Treatment Shop

SL No	Machine Name	Specification	Quantity
01	Semi Muffle Gas Furnace	Maximum Diameter of Job: 25 inch Maximum length of Job: 50 inch Function: Carburizing, Hardening, Tempering, Annealing	03
02	Electric Tempering Furnace	Maximum Diameter of Job: 6 inch Function: Tempering	01
03	Rockwell Hardness Tester	Hardness Measuring Scale: HRC	01

Johir
19/11/2024

স্বাক্ষর (স্বাক্ষর)
মেটালাজিক্যাল ইঞ্জিনিয়ার (মেটালাজিক্যাল)
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বিটাক, ঢাকা-১২০৮