

MACHINE TOOLS LAB EQUIPMENTS

S. NO	NAME OF THE MACHINE	SPECIFICATIONS	PHOTOGRAPH
1.	Lathe machine	<p style="text-align: center;">SIZE-Pedestal with fabricated stand and tray</p> <p>Length of the bed :1390mm Width of the bed :200mm Height of the centre :165mm Admit between centre -700mm Power required 3H.P</p>	
2.	Shaper	<p style="text-align: center;">SIZE-Pedestal with fabricated stand and tray</p> <p>Length of the bed :1390mm Width of the bed :200mm Height of the centre :165mm Admit between centre -700mm Power required -3 H.P</p>	

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<p>3.</p>	<p>Planner</p>	<p>Model -4^{1/2} Stroke of planner-4^{1/2} Bed length -6^{3/4} Table length-4^{3/4} Table width-25" Bed width-16^{1/2} Power required-3 H.P</p>	
<p>4.</p>	<p>Radial Drilling</p>	<p>Drilling capacity in MS-38mm Drilling capacity in CI-45mm Spindle nose-MT-4 Spindle travel-220mm No of spindle speed-8 Range of spindle speed-62-1980 rpm Range of power speed-0.08.0.04(mm/rev) Main motor-2 H.P Elevating motor-0.5 H.P</p>	

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5.	Slotting	<p>Size -6"</p> <p>Stroke-150mm</p> <p>Longitudinal movement-200mm</p> <p>Cross movement -110mm</p> <p>Power required- 1H.P</p>	
6.	Milling machine	<p>Surface table-910X225mm</p> <p>Distance b/t the t slots-55mm</p> <p>Longitudinal travel of table-485mm</p> <p>Cross travel of table-150mm</p> <p>No of feeds-6</p> <p>Power required-3H.P</p>	

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7.	Hydraulic Press	<p>Tons-5 Between the column(length×width)-1000X400 Between ram to bed(min×max)- 180mmX975mm Travel of ram-200mm</p>	
8.	Grinding machine	<p>Weight=100kg Work area=340mm Speed=680rpm</p>	

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<p style="text-align: center;">9</p>	<p style="text-align: center;">Injection molding</p>	<p style="text-align: center;">Model-20z Plunger movement-125mm Mechanism of plunger movement- rack and pinion Voltage of heating coil-230V Current of heating coil-90A Nozzle size-3mm</p>	
<p style="text-align: center;">10</p>	<p style="text-align: center;">Spot- welding</p>	<p style="text-align: center;">Rating @ 50% duty cycle : 6 kva Ms sheet range :0.6-0.2mm Bross sheet range:0.2-0.6mm SS sheet range:0.2-1.6mm Cooling for arms and electrode : water Nominal-electrode force:75kgf Phase nos:2</p>	
<p style="text-align: center;">11</p>	<p style="text-align: center;">Blow molding</p>	<p style="text-align: center;">Model –medium capacity Nozzle size:3mm Plunger movement:125mm Mechanism of plunger : rack and pinion Voltage of heating coil-230V Current of heating coil-90A</p>	

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<p style="text-align: center;">12</p>	<p style="text-align: center;">Arc welding</p>	<p style="text-align: center;">Model:AW-125 mins Welding current range-75- 125amps Welding of voltage range :20-28V KVA(rated):4 KVA Input supply :230 volts</p>	
<p style="text-align: center;">13</p>	<p style="text-align: center;">Gas welding</p>	<p style="text-align: center;">Model –oxy acetylene gas welding Equipment with reaction chamber Chemical for generating acetylene :calcium carbide Nozzle : upper nozzle(2mm) Temperature generated:800-1400C Flux : borax</p>	
<p style="text-align: center;">14</p>	<p style="text-align: center;">Wood turning lathe specificat ions</p>	<p style="text-align: center;">Model : jazz No of steps:3 Height of centres:6.5” Admit between centres:32” Power required:1H.P</p>	

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15	Power hacksaw	<p>Size :7” Stroke :5.5 No of strokes/mins:100-120 Blade size-12-14’ Capacity to cut round bar:7’ Capacity to cut square bar:5’</p>	
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