

17. Textile Engineering Lab Equipment

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
1	<p>Lab Ring Spinning Frame</p> <p>Model No :DW7040H</p> <p>Brand : Fangyuan Instrument</p> <p>Country of Origin : China</p> <p>Suitable fiber type : Wool yarn, Cotton Yarn</p> <p>Control mode : PLC & touch screen</p> <p>Language : English</p> <p>Density of yarn : 6~99tex(6~100Ne)</p> <p>Spindle gauge : 75 mm</p> <p>Number of spindles : 6</p> <p>Ring diameter : 53</p> <p>Pressure mode : Pendulum arm</p> <p>Upper roller diameter : Front roller 50mm, middle roller 50mm, back roller 50mm</p> <p>Down roller diameter : Front roller 35mm, middle roller 35mm,</p>
	<p>Suitable twist : 200~2000 (T/m)</p> <p>Draft Range : Approx. 2~50</p> <p>Draft Range control : Automatic</p> <p>Twist : S or Z</p>

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2	<p>Digital T-Shirt Printer</p> <p>Model No: UT-2000</p> <p>Brand: Unitex</p> <p>Country of Origin: China</p> <p>Printing Speed: 4' A4 Size</p> <p>System Supported: Windows 10</p> <p>Printing Type: Digital T-Shirt Printer</p> <p>Printing Size: A3 Size 33cm X 48cm</p> <p>Print Head: Epson 177 Dx7 Printhead</p> <p>Ink Type: DuPont Textile Ink</p> <p>Printing Color: Cmyk+Wwww</p> <p>Application: Textile Garment, Hat, Shoes Printing</p> <p>Ink System: White Ink Circulation System</p> <p>Speed: A4 Size 4 Minutes</p> <p>Specification: 770*700*600mm</p>
3	<p>6-STATION MANUAL SCREEN PRINTING MACHINE</p> <p>Model: DS-662L</p> <p>KEY SPECIFICATIONS:</p> <p>Product color Blue</p> <p>Number of station 6</p> <p>Platen size 55×45cm (22×18in)</p> <p>Material of machine Steel plate</p> <p>Surface treatment of machine Electrostatic spraying</p> <p>Weight 140kg</p>

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4	<p>T-Shirt Heating Press Machinery/Heat Transfer Press Machines</p> <p>Manufacturer: Unitex Industrial Co., Ltd.</p> <p>Model NO: UT-CY-G8</p> <p>Plate: Lithography Printing</p> <p>Color & Page: Multi-Colour Printing Press</p> <p>Printing Size: 38*38cm, 40*50cm, 40*60cm</p> <p>Type: Ink Jet</p> <p>Structure: Platen Press</p> <p>Printing Speed: 7.5CPI</p> <p>Printing Color: All Color</p> <p>Print Tables: 1 Printing Plate</p> <p>HS Code: 8443391100</p> <p>Brand Name: Shenghua</p> <p>Machine Type: Heat Press Machine/Sublimation Printing Machine</p>
5	<p>Digital Fibrograph</p> <p>Length range of cotton fibre – 18mm–42mm</p> <p>Tolerance of fiber length – ± 0.5mm</p> <p>Tolerance of uniformity – ± 1.5%</p> <p>Sample quantity – 10~50mg (permeation rate 10%~30%)</p> <p>Sample step range – 550~950, ± 5</p> <p>Power – 220V ± 10%, 50Hz</p> <p>Dimension – 500 x240 x180mm</p> <p>Weight – 20kg</p>

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6	<p>Fabric Electrostatic Tester</p> <p>Sample size 250 × 300 mm</p> <ul style="list-style-type: none"> -Measure range 0.001~22μC -Accuracy ±0.5 -Power supply 220V 50Hz -Dimension : Control box : 220x230x70mm (L x W x H) Bucket : Φ500 × 1000mm -Weight 20kg <p>*Rotary Drum friction machine</p> <ul style="list-style-type: none"> -Power supply 220v -Capacity 4.5kg -Timer 180min foheating+20min for cooling or 80 min for cooling -Weight 25kg
7	<p>Lab Ring Spinning Frame</p> <p>Suitable fiber type : Wool yarn,Cotton Yarn Control mode : PLC & touch screen Language : English</p> <p>Spindle length : 205mm Suitable twist : 200~2000 (T/m)</p> <p>Draft Range : Approx. 2~50 Draft Rangecontrol : Automatic Twist : S or Z Max speed of spindle : 8000rpm</p>
8	<p>Digital Fibrograph</p> <p>Length range of cotton fibre – 18mm–42mm Tolerance of fiber length – ±0.5mm Tolerance of uniformity – ±1.5%</p>

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9	Automatic Rapier Sample Loom used for sample weaving of all kinds of fabrics Applicable Industries: Manufacturing Plant Warranty of core components:
10	Cotton Fineness Tester (Micronaire Tester) Full Automatic Fabric Rapier Sample Weaving Loom, DW 598 Reed width : 12 or 20 or 24 inches (optional) Yarn range : 5 ~ 500 tex
11	ISO 0811 Digital Textile Fabric Water Repellency Tester Standard : ASTM ISO EN JS Product name: Fabric water repellency tester
12	45 Degree Flammability Tester Power: Electronic Product name: 45 degree flammability tester for fabric Power Supply: AC220V ± 5%, 50HZ
13	Textile Fabric Moisture Regain and Moisture Oven Usage: Textile Testing instrument Place of origin: China Power: Electronic
14	ISO 105 Textile Perspiration Colour Fastness Tester Place of origin: Guangdong China Brand name: LONROY Power: Electronic
15	Minicomputer Yarn Hairiness Tester for Laboratory /Yarn Hairiness Tester SPIN2000 Place of Origin: Anhui, China Brand Name: FYI Model Number: SPIN2000 Power: Electronic

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16	<p>Lab High Temp. Steamer</p> <p>Specifications</p> <p>modal no. TD610</p> <p>☐ Temperature range for: Electric heating for drying, curing 20 °C ~ 220°C Steaming with saturated steam 103 °C</p> <p>☐ High Temperature Steaming at 130 ~ 180 °C</p> <p>☐ working time is presetable for 1 ~ 999 s, automatically moving in &out, and alarms</p> <p>☐ Special design of retractable pin frame, the tension of test fabric samples can be adjusted in both warp and weft direction, the maximum stretch rate are up to 30%</p> <p>☐ Max sample size 360 x 420</p> <p>☐ Suitable for the discontinuous operation in conjunction with</p>

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17	<p>Lab Mini Dryer Stenter Machine LD-3642 Key Specification</p> <ul style="list-style-type: none"> -Temperature range Rt-250 -Temperature accuracy $\pm 1\%$ -Heat Power 6KW -Timing range 1~9999s,1~9999min,1~9999h, settable -Pin-frame size 400*500mm -Max.effective pin frame size 300*350mm Fan power 180W -Power supply AC380V,50H,3phase <p>Dimension 780*650*860mm(L*W*H*)</p> <p>Feature of Lab Stenter Machine</p> <ol style="list-style-type: none"> 1. Stainless steel construction with heat insulation layer 2. Advanced motor drive system for delivering fabrics samples. 3. Settable temperature within room temperature 250.C
	<ol style="list-style-type: none"> 4. Digital display of temperature and time 5. Automatic temperature controlling system with the accuracy of $\pm 1\%$.

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18	<p>Laboratory Jigger dyeing machine JR350 roller diameter - 62mm to 200 mm roller width - ≤ 450 mm distance between main roller - 380 mm fabric feed speed range and precision - 0-10 m/min, ± 0.001m/min temperature range and precision - RT- 98°C ± 2°C power supply - AC220V, 50Hz</p>
19	<p>Spectrophotometer Model- YLD-3010 , Optical geometry Reflect: - di:8°, de:8° Integrating sphere size - 48mm Light source - Combined LED light Spectrophotometric - Concave grating mode Sensor - 256 image element double array cmos image sensor Wavelength range - 400-700nm Wavelength interval - 10nm Semiband width - 10nm Measured reflectance - 0-200% Measuring aperture - Single aperture: 8mm/10mm Specular component - SCI&SCE</p>

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20	<p>Light Fastness Tester</p> <p>Main Technical Data</p> <p>Model: TF420</p> <p>Light source - 2500 W air-cooled long- arc xenon lamp</p> <p>Temperature range - 25 ~ 50 °C,</p> <p>Resolution 0.1 Humidity range - Bright cycle 10 ~ 70% RH Dark cycle 30 ~ 95% RH resolution 0.1% Test time control ≤ 1000 h</p> <p>Irradiance 0.80 ~ 2.01 W/m² @ 420nm Weight - 350 kg Power - 220 V 50 Hz 6 kW Dimensions - Length: 1000 mm Width: 550 mm Height: 1570 mm</p>
21	<p>Washing fastness tester</p> <p>Name : SW-12A Fastness to Washing tester</p> <p>Main Technical Data</p> <p>Model: SW-12A</p> <p>Number of test glass: 8 12</p> <p>Capacity of test glass: 550ml</p> <p>Distance between the center of rotating axis and the bottom of vessel: 45mm</p> <p>Rotate speed: 40r/min</p> <p>Testing temperature: Room temperature ~ 99.9 °C, LED</p> <p>Testing time: 1 ~ 999 min, LED</p> <p>External dimension : 760x480x1100mm (LxWxH)</p> <p>Heating power: 4.5kW</p> <p>Power source: AC380V , 50Hz, 3-phase Dimensions - 980x760x1060mm (LxWxH) Weight - 170kg</p>

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22	<p>JIS Dyeing Dry and Wet Color Fastness Rubbing Testing Machine</p> <p>JIS Fabric Friction Dyeing Fastness Tester Test Station - 6 stations</p> <p>Speed - 30cpm</p> <p>Load of friction hammer - 200g</p> <p>Auxiliary load - 300g</p> <p>Size of friction hammer- 45*50mm</p> <p>Specimens - 22*3cm</p> <p>White cotton - 50*50mm</p> <p>Friction distance - 100mm</p> <p>Counter - 0~999,999</p> <p>Power supply - AC220V, 50Hz</p>

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23	<p>DSC-MJ103 electric heating portable manual hand-held straight knife cutter strip apparel fabric cloth cutting machine</p> <p>- DSC-MJ103</p> <p>Name - Electric cutting machine</p> <p>Type - Cutting equipment</p> <p>Dimensions - 220*280*330mm</p> <p>Weight - 18kg</p> <p>Power - 750w</p> <p>Feed stroke - 160, 185, 210, 160</p> <p>Available sizes - 6, 8, 10, 12, 13 inches</p>

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
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24	<p>Hand Knife (Circular Knife)</p> <p>Electric circular knife cutting machine hand-held garment clothes cutter/Electric round knife cutting scissors</p> <p>Specification</p> <p>Product: Cutting</p> <p>Machine: Knife cutting machine</p> <p>Name: Round automatic knife</p> <p>Model: According manufacturer</p> <p>Class: New</p> <p>Origin: Made in China</p> <p>Brand/manufacturer: cutlery corner</p> <p>Power: 1Phase 100, 110/120V, 220/240V</p> <p>Temperature: Normal</p> <p>Certification: SGS/ Others</p> <p>Capacity: 32 mm(1.25")</p>
	<p>Standard blade: High speed steel</p> <p>Base plate: Thin bases & 4 rollers</p> <p>Safety: With finger guard, Balanced handle, CE</p> <p>Weight: 3.5 kgs/7.7 lb</p>

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25	Laboratory Roving Machine for Spinning DW7030H Spindle number - 1/2 Suitable fiber length - 22 to 42mm Draft multiple - Approx. 2~50 Twist range - 50~250 twist/m Rotation speed of flyer- 600RPM Roller size - Φ 28/25/28mm Output - Approx. 0.25-1kg/h Power - 1.0Kw Power supply - AC 220V 50HZ Dimension - 1000×800×1600mm(L×W×H)

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26	<p>Lab Ring Spinning Machine DW7040H</p> <p>Number of spindles 6</p> <p>Applicable fiber length 22~50mm</p> <p>Draft range 10~50</p> <p>Draft control Automatic</p> <p>Roller diameter Front roller: Φ25mm, middle roller: Φ25mm, back roller: Φ25mm</p> <p>Center distance of rollers Front and middle: 43mm</p> <p>Front and back: 143mm</p> <p>Pressure mode Spring cradle</p> <p>Twist settable range 200~2000 twist/m</p> <p>Twist direction S or Z</p> <p>Max. speed of spindle 12,000rpm</p> <p>Spindle gauge 70mm</p> <p>Spindle length 205mm</p>