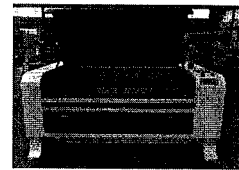



الملحق (P) المرفق لدى المطارح (تمت و/أو 10/0000)

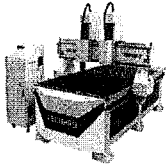
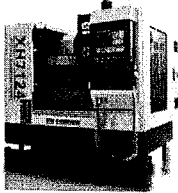
عدد صفحات هنا (3) صفحات

Equipment and Tools - Fabrication Lab																
خاص بالشركة المتقدمة للعطاء							خاص بالشركة الوطنية للتشغيل والتدريب									
السعر الاجمالي	السعر الافراضي	Warranty Period	Guarantee Period	مدة التسليم (يوم)	المواصفات الفنية المقدمة			الشركة الصانعة	المنشأ المقدم	Workshop	PICTURE	Technical specifications	Qty.	Unit	ITEM NAME	#
					model	الاختلاف (التعديل)	غير مطابق للموصفة									
										FABLAB		<p>working area: 600 x 300mm - 600 x 400 mm - 1250 x 900 mm Standard configurations: Air assist, Air assist compressor, 2 inch lens, 1.5 inch lens Quotation must include air filtration and ventilation system: 400 CFM for primary exhaust port (upper port) and 400 CFM for downdraft exhaust port (lower port), totaling 800 CFM. Cutting Speed: Min 0-30mm/s - Max 200-400mm/sec Cutting/Engraving accuracy: Min 0.01mm, Max 0.15mm Carving Depth: 0-2mm (Depend on the material).</p> <p>Working area: 600 x 300mm - 600 x 400 mm - 1250 x 900 mm RD control system, RECI laser tube work about (1500-2000) hours, Laser output (0-100%) controlling and LCD screen monitor and USB3.0 interface. Laser type: CO2 laser engraving machine, sealed laser tube (100-120) W/ support both power supply: AC 1ph, (220) V, (50) Hz. Focus Lens: 2" Lens, (1inch, 1.5inch) must provide, and (2inch, 2.5inch, 3inch) optional, 4 mirrors. Cooling mode: chiller (2000-3000) CW, must include in quotation all needed component and installation, with protection system, cycle water: 0-46°C, water-cooled < 10.6um, locating precision: < 0.01 mm, Cutting/Engraving accuracy: Min 0.01mm, Max 0.15mm Quotation must include air filtration and ventilation system component and installation with totaling (700-900) CFM (350-450) CFM for primary exhaust port (upper port), (350-450) CFM for down draft exhaust port (lower port). Where standard configurations: air assist and air assist compressor. Weight (300-400). Carving Depth: 0-2mm (Depend on the material), engraving speed: Min(1-30)mm/s - Max(800-1000)mm/s, cutting depth: (0-20) mm, cutting speed: Min(1-30) - Max(400-600)mm/s. Lifting platform: 0-300 mm, honeycomb worktable, carving Depth: 0-2mm, resolution ratio: (1450-1500) dpi. Protection emergency stop bottom and stop working when water broken with color separation and Sloping engraving. Min shaping character: Character: (2*2) mm, Letter: (1*1) mm, Max working temperature 75C, Max working humidity 95%. Total power: (400-600) W light system: LED light with high-brightness, color: black and red or (white and blue). Fully license of Software must provide (ultimate license), support system environment: windows XP / Win 7 / Win 8 / Win 10. Compatible Software: The Files which CorelDraw & Winseal can identify and Photoshop, Auto-CAD, Tajima must be supported. Graphic format supported (dst, dxf, al, las, png, BMP, JPEG, PLT, CDR, AI, TIFF, PCX, DIB, TIF, DSP). Material: (plastic, wood, acrylic, leather, marble, glass, PVC, aiucobond, stone, MDF, paper). Practical training on machine not less than 50 hrs, this includes any material and arrangement will be used during training for (6-10) employees. Fully transportation and installation in site of project with all needs electricity, material, tools .. etc. Any accessory and auxiliary or spare parts needed for machine must provide with minimum requirement pieces. Guarantee: 1 year. (beginning after the completion of the installation and operation of the machine). Warranty: 2 years (beginning after end of Guarantee period).</p>	1	Each	Laser Cutter and Engraver	1
										FABLAB		<p>Max. Loading Width: 34". Max material cutting thickness: 2 mm, LCD touch Screen, 3 Blades Roland Compatible (1.5-2)mm Diameter, Material: Aluminum. motor type: stepper motor. Adjustable both force and speed with max cutting force (750-800) g, max cutting speed: (10-800mm/s(32ips)), material: Aluminum, mechanical resolution: (0.024-0.026) mm, repeatability: (0.125-0.135) mm. Interfaces: COM, USB, U disk, type of command: DMPL, HP-GL automatic identification, number of pinch rollers 2. USB and power cord, dust cover, 3 x cables (power cord/ serial Line/ fuse). max working temperature 32-95F, integrated carriage design. 1 x of each following (blades holder/ pen holder/ 5m USB cable/ 16GB USB flash disk / hexagon Wrench/ floor stand kit). Weight (20-30) Kg, power supply (220V) 1ph, (100-200) watt Compatibility: Windows XP, Vista, Windows 7, 8 & 10 Includes fully license of software must provide (ultimate license). Practical training on machine not less than 50 hrs, this includes any material and arrangement will be used during training for (6-10) employees. Fully transportation and installation in site of project with all needs electricity, labor, material, tools.. etc. Any accessory and auxiliary or spare parts needed for machine must provide with minimum requirement pieces. Guarantee: 1 year. (beginning after the completion of the installation and operation of the machine). Warranty: 2 years (beginning after end of Guarantee period).</p>	1	Each	Vinyl Cutter	2

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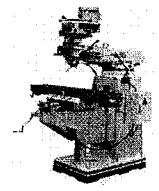
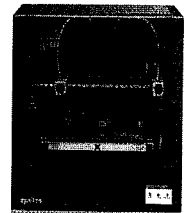
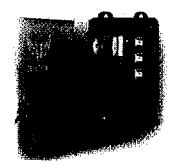
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الاجمالي	الافراضي	Period	Period	التسليم (يوم)	model	الاختلاف (التعديل)	غير مطابق للموصفة	مطابق للموصفة	الصانعة	المقدم	DESCRIPTION	TECHNICAL SPECIFICATIONS	Qty.	Unit	ITEM NAME	Pr
										FABLAB		<p>bed size: 1220 x 2440 mm to 1550 x 2600 mm. working voltage: 220 V (single or three phase) 50/60 Hz. Bakelite black (18-22) mm Bakelite on top of aluminum profile table protects the table from cutting scratching, bakelite table combined T-Slot, Vacuum Table with Vacuum switch and meter panel Driver and motor: servo driver and servo motor system, (5-6) kw dry vacuum pump, drive System X, Y Axis: (18-20) mm rail linear bearing square, helical rack and pinion transmission, drive System Z Axis: (18-20) mm ball screw rail linear bearing. X,Y,Z Travelling accuracy: (0.02-0.015)/300mm. Double head CNC machine, spindle power: (2 kW - 9kW) for each, RPM: (6000RPM - 24,000 RPM). , Water cooling spindle. double spindle CNC router with 2 Spindles, must provide, 3 types diameter (2mm, 3.175mm, 4mm), spindle anti rust oil for rail guide. Max operating temperature: 60°C, max working humidity: 80%. CNC router controlling mode, machine colored white and blue with (24-26)mm linear square rails for high rigidity, resist vibration, mist sprayer to sends oil mist to machining surface. Must include 3" rotary indexer, dust collector hood with dual bags, switchable dust cover structure to remove the dust completely, water cooling pump must provide with tool sensors for Automatic tool length calibration and registration. Materials Engraving and cutting: must include: Aluminum, Acrylic, Wood, Plastic, MDF. Software: CAM software and post-processor . Machine Frame: Steel square tubes frame, travel limit stops and hard limit stop. Control system: DSP, English interface with USB 3.0 compatible, command language: G code, USB Cable 3.0: 2pcs (each one 6m+10m length). Cutting tools: 20pcs, Collect: 4pcs, Clamp: 12pcs, Spanner:3pcs, Brushes: 3pcs, Power cord: 3pcs. Fully license of Software must provide (ultimate license) where the Software is CAM software and post-processor. Practical training on machine not less than 50 hrs, this includes any material and arrangement will be used during training for (6-10) employees. Fully transportation and installation in site of project with all needs electricity, labor, material, tools.. etc. Any accessory and auxiliary or spare parts needed for machine must provide with minimum requirement pieces. Guarantee: 1 year.(beginning after the completion of the installation and operation of the machine). Warranty: 2 years (beginning after end of Guarantee period).</p>	1	Each	CNC Router	3
										FABLAB		<p>bed size: 250 x 400 mm - 800 x 400 mm. Power: 220 V (single or three phase) 50/60 Hz. Spindle: minimum 2 kW, maximum 4 kW RPM: minimum 6,000, maximum 10,000 , spindle nose to table surface min (80-100) – max (460-480) mm, spindle center to Column surface 360-380mm. 4 axis supported. All needed installed cooling the pump, lubrication system and pneumatic system, air supply: 7–10 bar dry, clean and oil-free. Drive system brushless, digital servo drives; direct drive ball screws, for each axis. Operator terminal: 24" multi-touch displays, Comfortable hand DSP held control unit T slot qty-width* distance (3) - (14x75), tool Changer 12pcs provided. X axis travel (450-460) mm/ Y axis travel (380-400) mm/ Z axis travel (400-420) mm, positioning accuracy ±0.01mm, repeatability accuracy ±0.005mm. Max. height of work piece: (40-50) mm. Net weight (2000-2400) kg, max work piece weight: (300) kg, IP55 machine. Operating noise: During operation 60-70 dB, (when not cutting), during standby: 40-50 dB, max working temperature: 70°C, 80% relative humidity. It can be used for drilling, milling, boring, expanding, reaming, rigid tapping for material: wood, wax, PC Board, acrylic, foam, plastic, brass, nickel, steel. Software: CAM software and post-processor, full license of Software must provide (ultimate license). Practical training on machine not less than 50 hrs, this includes any material and arrangement will be used during training for (6-10) employees. Any accessory and auxiliary or spare parts needed for machine must provide with minimum requirement pieces. Guarantee: 1 year.(beginning after the completion of the installation and operation of the machine). Warranty: 2 years (beginning after end of Guarantee period).</p>	1	Each	CNC Milling	4

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الاجمالي	الافرادى	Period	Period	التسليم (يوم)	model	الاختلاف (التعديل)	غير مطابق للموصفة	مطابق للموصفة	الصناعة	المقدم	الصورة	Technical Specifications	Qty.	Unit	Item Name	Hours
										FABLAB		<p>Technical Specifications of Ram Turrent Milling Machine: 325 x 1470 mm Table size of Vertical Drive Milling Machine: 325 x 1470 Longitudinal Travel Manual: 400 – 800 Vertical Travel : 440- 480, vertical travel of crossrail 1100 Cross travel: 340 – 396 Power feed: 640 – 785 Quill spindle diameter 25 –100 mm Ram travel: 300– 550 T-slot: 3 – 16mm Motor: 2 – 3HP No. Of speeds: 8, Min 75 RPM Max 3000 RPM Weight of work piece: Min 700- Max 1000 Kg Net weight of machine: Min 1000 – Max 2000 Kg Overall Height, Width and Length: 1500x1600x1700 - 2200x1764x2000 Cuttable material: wood, wax, PC Board, acrylic, foam Min. Spindle Rotational Speed: 3,000 RPM, Max 6000 RPM Max. Spindle Rotational Speed: 30,000 RPM, Max 60,000 RPM. Fully transportation and installation in site of project with all needs electricity, labor, material, tools, etc. <u>Practical training on machine not less than 18 hrs.</u>, this includes any material and arrangement will be used during training for (6-10) employees. Any accessory and auxiliary or spare parts needed for machine must provide with minimum requirement pieces. <u>Guarantee: 1 year. (beginning after the completion of the installation and operation of the machine).</u> <u>Warranty: 2 years (beginning after end of Guarantee period).</u></p>	1	Each	Precise Milling Machine	5
										FABLAB		<p>Printing volume: (220 x 220 x 220) mm - (330 x 240 x 300) mm. Print technology: Fused filament fabrication (FFF), Power input: AC, 240V, 50Hz. Fully Enclosed build chamber, Auto Leveling, Heated bed (100-140) °C. Nozzle diameter 0.4mm. Replaceable nozzles, Auto Leveling, Heated bed. layer resolution: (0.25mm nozzle: 150-60micron, 0.40mm nozzle: 200-20micron, 0.60mm nozzle: 300-60micron). XYZ resolution: (1-1.25) µm / (1-1.25) µm / (1-1.25) µm, Layer height: Min(0.04-0.05) – Max(0.45-0.5)mm. Feeder type: dual-gear feeder, reinforced for composite materials, Extruder maximum temperature (300-330) °C. Display: (4.7-4.9) inch color touchscreen, print core replacement: swappable print cores. Print head: dual extrusion print head with an auto-nozzle lifting system and swappable print cores. Replaceable EPA filter (with 2 pcs spare), Material capacity: 6spools. Air manager with air extraction rate 1-50m³/h adjustable. Compatible filament diameter: 2.85mm, must provide 4Filament within 90meter for each. Operating ambient conditions: 0-70C, 80% relative humidity, Operating sound: 40-50dBa. Compatible with Cura slicing software. Fully license of Software must provide (ultimate license). Source (accept material from different vendors) File transfer: Wi-Fi, Ethernet, USB, Cloud. <u>Practical training on machine not less than 18 hrs.</u>, this includes any material and arrangement will be used during training for (6-10) employees. Fully transportation and installation in site of project with all needs electricity, labor, material, tools, etc. Any accessory and auxiliary or spare parts needed for machine must provide with minimum requirement pieces. <u>Guarantee: 1 year. (beginning after the completion of the installation and operation of the machine).</u> <u>Warranty: 2 years (beginning after end of Guarantee period).</u></p>	2	Each	Desktop FDM 3D printer	6
										FABLAB		<p>AMD Ryzen 9 5900X, (12-16) Cores CPU, @ 3.40GHz 32 GB of RAM Gigabyte GeForce RTX 3060 EAGLE OC 12G (2 x WINDFORCE Fans) Graphics Card 1TB SSD m.2 Operating System: Windows 10 (64-bit). Monitor resolution screen:(24-27)inch supported 4K resolution. Full Licensing and Activation Windows 10 and office 2016 or above Headset wired USB, 3.5mm jack diameter, blue color, with mice 6*2.7mm, with Mice connector, active noise cancellation, 360° spatial audio, play with lag-free 2.4GHz. Wireless 3.0.USB Wi-Fi Adapter for PC, support 5G,2.4G, 1200Mbps. motherboard with AM4 socket: inbuilt Wi-Fi chip or card, a LAN port for connecting to your router with a network cable, a sound chip, lots of USB plugs for your input devices, external drives, and USB sticks that you might use., with 2 PCIe slots. Advanced Mouse, Ultrafast Scrolling, Ergonomic, 4000 DPI, Customization, support both USB3.0 and Bluetooth2.40 for Apple Mac, Microsoft PC Windows. Advanced Keyboard RGB customizable backlighting, with native 4,000Hz hyper-polling and key scanning. cooling fans : 4-5 Included all necessary accessories. <u>Guarantee: 1 year. (beginning after the completion of the installation and operation).</u></p>	10	Each	Desktops/ PCs with design software licenses	7

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