

Summary Specification

BIL. SEBUTHARGA/QUOTATION REF.:	UBD/Q/063/2026 (FIT) - [G]
TARIKH DIKLANKAN :	<u>02 Jun 2026 [Selasa]</u>
TARIKH TUTUP :	<u>16 Jun 2026 [Selasa]</u> JAM: 2 Petang
DOCUMENT FEE : B\$ 10.00	

Important Note:

The Official PDF quotation/tender form will be send via email once UBD Official receipt issued and send to vendors/supplier for confirmation of payment received.

Please take note that the document fee for each of the New and Extended quotations will be BND 10.00 each

Payment Information

Quotations/tenders are identified as follows:

[G] – Kerajaan (Government Account)

Please ensure payment is made to the correct account:

[G] → UNIVERSITI BRUNEI DARUSSALAM [KERAJAAN]

Payment details and account numbers are available under “Mode of Payment” on the UBD website

Note: Please ensure that you provide the correct details when making the payment.

Please email proof of the above payment to helpdesk.epay@ubd.edu.bn , finance@ubd.edu.bn, eprocurement.support@ubd.edu.bn.

No.	Quantity	SPECIFICATIONS
<p>TITLE : <u>TO SUPPLY, DELIVER, INSTALL, COMMISSION, AND TRAINING OF A DESKTOP CNC (COMPUTER NUMERICAL CONTROL) MACHINE COMPLETE SET AND A SMALL AIR COMPRESSOR FOR THE FACULTY OF INTEGRATED TECHNOLOGIES, UNIVERSITI BRUNEI DARUSSALAM</u></p>		
1	1 set	<p>Desktop CNC (Computer Numerical Control) Machine Complete Set Included Items:</p> <ul style="list-style-type: none"> • Desktop CNC Machine (x1 unit), • 4th Axis (x1 unit), • Laser Module (x1 unit), • Printed Circuit Board (PCB) Fabrication Pack (x1set), • Cyclone Dust Collector with 2x Spare Filters (x1 set), • Extended Milling Bit Set (52 piece) (x1 set), • 6061 Aluminum Block <ul style="list-style-type: none"> o Quantity: 10 pcs o Dimensions: 35 mm × 35 mm o Length: 100 mm • 6061 Aluminum Sheet Plate <ul style="list-style-type: none"> o Quantity: 10 pcs o Dimensions: 100 mm × 150 mm o Thickness: 3 mm <p>Minimum specification requirements of the Desktop CNC Machine:</p> <p>a. Dimensions and Work Area</p> <ul style="list-style-type: none"> • Work area: 30 cm × 20 cm × 13 cm / 11.8 in × 7.9 in × 5.1 in • 4th-axis work area: 9.2 cm diameter × 20 cm length / 3.6 in × 7.9 in • Gantry clearance: 12 cm / 4.7 in • Maximum height with lid open: 84 cm / 33 in • Footprint: 50 cm × 45 cm × 45 cm / 19.7 in × 17.7 in × 17.7 in • Weight: approximately 30 kg / 66 lb. <p>b. Spindle</p> <ul style="list-style-type: none"> • Power: 200 W • Speed: 0–13,000 RPM with closed-loop control • Collet: custom collet with integrated 1/8 in support; optional 1/4 in, 3 mm, 4 mm, and 6 mm • Tool change method: quick tool changer • Cooling: air cooling • Air assist: supports external air compressor connection <p>c. Motion System</p> <ul style="list-style-type: none"> • Motors: closed-loop stepper motors • Drive method: <ul style="list-style-type: none"> o Z-axis: linear rails + ball screw o X/Y-axis: hardened chrome-plated rods/linear shafts + ball screws • Maximum travel speed: 4,000 mm/min / 157 in/min • 4th-axis drive method: harmonic drive <p>d. Precision</p> <ul style="list-style-type: none"> • Spindle runout: less than 0.01 mm / 0.0004 in • Resolution: 0.01 mm / 0.0004 in

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		<p>e. Laser Module</p> <ul style="list-style-type: none"> • Power: 5 W • Laser type: 445 nm semiconductor diode laser
		<p>f. Dust Collection Compatibility</p> <ul style="list-style-type: none"> • Compatible with external dust collector using rear chip-evacuation duct and spindle dust shoe • Cyclone dust collection system recommended for long-duration and continuous milling <p>g. Supported Materials</p> <ul style="list-style-type: none"> • Metals: aluminum, brass, copper; steel and titanium with limitations, not recommended for prolonged processing • Wood: hardwoods, softwoods, MDF, plywood • Plastics: foam, PVC, ABS, acrylic, PC, HDPE • Composite materials: carbon fiber, FR4 • Laser engraving materials: wood, plastic, fabric, leather, cardboard <p>h. Software and Connectivity</p> <ul style="list-style-type: none"> • Controller connectivity: USB / Wi-Fi • Supported operating systems: iOS, Android, macOS, Windows, Linux • Dedicated CAM software included or supported • Compatible CAD/CAM software: Fusion 360, SolidWorks, AutoCAD, VCarve Pro, Aspire, Illustrator <p>i. Electrical Requirements</p> <ul style="list-style-type: none"> • Voltage: 100–120 VAC / 200–240 VAC • Frequency: 50/60 Hz • Maximum input power: 400 W
2	1 unit	<p>Small Air Compressor</p> <p>Minimum specification requirements:</p> <ul style="list-style-type: none"> • Pressure: 3.5 bar / 50 psi or higher • Air intake compatibility: 8 mm outer diameter intake for Item #1