

萬鈞伯裘書院
2022-2023 年度
承投提供 **STEM** 教育設備供應商

招標編號：MKPC-T2223-014

附件三

CNC Milling Machine x 1pc. (Must fulfill the following Specifications)	
Cutable material	Resins such as chemical wood and modeling wax (metal not supported), substrates for machining
X,Y, and Z operation strokes	203.2 (X) x 152.A (Y) x 60.5 (Z) mm (8 (X) x 6 Mx 2.38 (Z) inches)
Distance from collet tip to table	Maximum 130.75mm (5.15 inches)
Table size	232.2 (X) x 156.6 (Y) mm (9.14 (X) x 6.17 (Y) inches)
Loadable workpiece weight	2 kg (4.4 lbs)
X-, Y-,and Z-axis drive system	Stepping motor
Operating speed	6 ~ 1800mm/min (0.24~70.87inches/min)
Software resolution	0.01 mm/step (RML- 1), 0.001mm/step (NC code) (0.00039 inches/step (RML- 1), 0.000039 inches/step (NC code))
Mechanical resolution	0.000998594 mm/step (0.0000393 inches/step)
Spindle motor	DC motor Type 380
Maximum spindle rotation	7,000 rpm
Cutting tool chuck	Collet method
Interface	USB
Control command sets	RML- 1, NC code
Power requirements	Machine: DC24V,2.5A,Dedicated AC adopter: AC 100V± 10%, 50/60Hz
Power consumption	Approx. 55W
Acoustic noise level	During operation: 65 dB (A) or less (when not cutting), during standby: 45 d8 (A) or less
Dimensions / Weight	451.0 (W) x 426.6 (Dlx 426.2 [H) mm (17.76 (W) x 16.80 (Dlx 16.78 (H) inches) / 19.6 kg 143.2 lbs)
Environment	Temperature of 5 to 40°C (4 1 to 104 °F), 35 to 80% relative humidity (non-condensing)
Included Items	AC adopter, Power cord, USS cable, Cutting tool, Collet, Set screw, Spanners (7, l0mm / 0.28, 0.39 inches). Hexagonal wrench (size 2,3 mm / 0.08, 0.12 inches), Positioning pins, Double-sided tape, Start-up page information cord, Read first (Booklet)

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On-site Installation & Training	One-day	
Warranty	12 Months (Carry-in)	
Technical Support	Lifetime	
(Optional) Available Items		
Item	Model	Description
End-Mills		
Square end-mills	ZHS-100	High speed steel dia. 1 3(ϕ)x6(d) x50(L)x2NT
	ZHS-200	High speed steel dia. 2 6(ϕ)x6(d) x50(L)x2NT
	ZHS-300	High speed steel dia. 3 10(ϕ)x6(d) x50(L)x2NT
	ZHS-400	High speed steel dia. 4 12(ϕ)x6(d) x50(L)x2NT
	ZHS-500	High speed steel dia. 5 15(ϕ)x6(d) x55(L)x2NT
	ZHS-600	High speed steel dia. 6 15 (ϕ)x6(d) x55(L) x 2NT
Ball end-mills	ZCB*150	Cemented Carbide R1 25(ϕ)x 2.4[Lc)x65[L] x 6(d) x 2NT
	ZCB*200	Cemented Carbide R2 25(ϕ)x 3.2[Lc)x70[l] x 96d) x 2NT
	ZCB*300	Cemented Carbide R3 30(ϕ)x 4.8 [Lc)x80(L)x 6(d) x 2NT
Engraving Cutters		
Engraving Cutters (for plastic)	ZEC*100	Cemented Carbide dia. 6 x 50 (L)x70[l]x 2d) x 2NT
Collets		
Collets (for end-mills)	ZC-20-30	Dia. 3mm
	ZC-20-32	Dia. 3.175mm
	ZC-20-40	Dia. 4mm
	ZC-20-60	Dia. 6mm
Other		
Spindle Motor	SM-20	For Replacement
Spindle Unit	SS-20	For Replacement

Unit: mm, di. = flute diameter, R = Flute Radius, Lc = cutting length, l = flute length, d = shank diameter, L = overall length, NT = number of flutes

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System Requirements (SRM-20)	
Operating System	Windows®7 / 8 / 8.1 / 10 (32 bit/64bit edition)*
CPU	Intel® Core™ 2 Duo or more (Core™ i5 or more recommended)
RAM	1GB (2GB or more recommended)
Video Card and Monitor	A resolution of 1,280 x 1,024 or more recommended)
Free hard-disk space	100MB or more recommended
Other requirements	Internet connection and web browser, Internet Explorer® version 10 or more recommended

*Roland Onsupport and included software for SRM-20 are 32-bit application, which run on 64-bit windows® with WoW64 (windows 32-bit on Windows 64-bit)