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 (Attn.: Classification Section)  
 Strategic Trade Controls Branch  
 Trade and Industry Department  
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**TRADE AND INDUSTRY DEPARTMENT**  
**NUMERICALLY CONTROLLED MACHINE TOOL QUESTIONNAIRE**  
**Classification of Numerically Controlled Machine Tools**  
**SC051 (2023/11)**

*(This questionnaire should be completed by the manufacturer of the machine tools. Supplementary sheets may be added to elaborate the answers and how the product meets the criteria)*

**Part I- Basic Information**

<b>Machine Tool</b>	<b>Numerical Control (NC) Unit (to be used with the Machine Tool)</b>
Brand :	Brand :
Model Number :	Model Number :
Serial Number :	Serial Number :

Note: If the above Machine Tool **cannot** be equipped with electronic devices for numerical control, please write “**Not Applicable**” to the Brand, Model and Serial Number of the **Numerical Control (NC) Unit**.

(Please  $\checkmark$  if applicable)

**Part II – General Information (For all machine tools)**

Yes / No

Type of machine tool	(a) Turning machine (b) Milling machine (c) Grinding machine (d) Electrical discharge machine (EDM) (e) Others : please specify : _____	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Notes to 2B001 and 2B201	Is the machine tool a special purpose machine tool ?  If <b>yes</b> , it is limited to the manufacture of (a) Gears; (b) Crank shafts or cam shafts; (c) Tools or cutters; (d) Extruder worms (e) Engraved or faceted jewellery parts; (f) Dental prostheses.	<input type="checkbox"/> <input type="checkbox"/>  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

**Part III – Technical Information**

Please select the appropriate part to answer.

(Please  if applicable)

Yes / No

**Part III.a (For turning machine only)**

2B001(a)	The machine tool has two or more axes which can be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
Note 1 to 2B001(a)	The machine tool is specially designed for producing contact lenses, having <b>all</b> of the following characteristics: (a) Machine controller limited to using ophthalmic based software for part programming data input; and (b) No vacuum chucking.	<input type="checkbox"/>	<input type="checkbox"/>
2B201	The machine tool can be equipped with electronic devices for simultaneous contouring control in two or more axes.	<input type="checkbox"/>	<input type="checkbox"/>
2B201(c)	The machine tool is capable of machining parts with diameters greater than 35mm	<input type="checkbox"/>	<input type="checkbox"/>
Note 2 to 2B001(a) and Note to 2B201(c)	The machine tool is a bar machine (Swissturn) limited to machining only bar feed thru. Maximum bar diameter is equal to or less than 42 mm and there is no capability of mounting chucks. (Please specify maximum bar diameter : _____ mm)	<input type="checkbox"/>	<input type="checkbox"/>

**Part III.b (For milling machine only)**

2B001(b)(1)	The machine tool has three linear axes plus one rotary axis which can be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
2B001(b)(2) 2B201(a)(3)	The machine tool has five or more axes which can be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
2B001(b)(3)	The machine tool is a jig boring machine.	<input type="checkbox"/>	<input type="checkbox"/>
2B001(b)(4)	The machine tool is a fly cutting machine, having <b>all</b> of the following characteristics :- (a) Spindle run out and camming less (better) than 0.0004 mm TIR; and (b) Angular deviation of slide movement (yaw, pitch and roll) less (better) than 2 seconds of arc, TIR. over 300 mm of travel.	<input type="checkbox"/>	<input type="checkbox"/>
2B201	The machine tool can be equipped with electronic devices for simultaneous contouring control in two or more axes.	<input type="checkbox"/>	<input type="checkbox"/>
2B201(a)(2)	The machine tool has two or more contouring rotary axes.	<input type="checkbox"/>	<input type="checkbox"/>
Note to 2B201(a)	The machine tool's x-axis travel is greater than 2 m and the overall positioning accuracy on the x-axis is more (worse) than 30 µm.	<input type="checkbox"/>	<input type="checkbox"/>

(Please ✓ if applicable)  
Yes / No

**Part III.c (For grinding machine only)**

2B001(c)(1)(b)	The machine tool has three or four axes which can be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
2B001(c)(2) 2B201(b)(3)	The machine tool has five or more axes which can be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
2B201	The machine tool can be equipped with electronic devices for simultaneous contouring control in two or more axes.	<input type="checkbox"/>	<input type="checkbox"/>
2B201(b)(2)	The machine tool has two or more contouring rotary axes.	<input type="checkbox"/>	<input type="checkbox"/>
Note to 2B001(c)	1. The machine tool is a cylindrical external, internal, and external-internal grinding machine having <b>all</b> the following characteristics :- (a) Limited to cylindrical grinding; and (b) Limited to a maximum workpiece capacity of 150 mm outside diameter or length.	<input type="checkbox"/>	<input type="checkbox"/>
	2. The machine tool is designed specially as jig grinder that does not have a z-axis or a w-axis.	<input type="checkbox"/>	<input type="checkbox"/>
	3. The machine tool is a surface grinder.	<input type="checkbox"/>	<input type="checkbox"/>
Note to 2B201(b)	(a) The machine tool is a cylindrical external, internal, and external-internal grinding machines having <b>all</b> of the following characteristics: (1) Limited to a maximum workpiece capacity of 150 mm outside diameter or length; and (2) Axes limited to x, z and c.	<input type="checkbox"/>	<input type="checkbox"/>
	(b) The machine is a jig grinder that does not have a z-axis or a w-axis with an overall positioning accuracy less (better) than 4 µm according to ISO 230/2 (1988) or national equivalents.	<input type="checkbox"/>	<input type="checkbox"/>

**Part III.d (Compound rotary tables and tilting spindles specially designed for turning, milling or grinding machine)**

2B008(c)(2)	Compound rotary tables having two rotary axes designed to be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
2B008(d)(2)	Tilting spindles designed to be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>

**Part III.e Unidirectional Positioning Repeatability and Positioning Accuracy (For turning machine, milling machine and grinding machine)**

No. of Linear Axis	No. of Rotary Axis	Maximum Travel		Unidirectional positioning repeatability in accordance with ISO 230/2 (2014)		Positioning accuracy with all compensations available in accordance with ISO 230/2 (1988)		
				ISO 230/2 (2014)	National Equivalents Please specify : _____	ISO 230/2 (1988)	National Equivalents Please specify : _____	
( ) ( )				(mm)	(mm)	(mm)	(mm)	
				X-axis	(mm)	(mm)	(mm)	(mm)
				Y-axis	(mm)	(mm)	(mm)	(mm)
				Z-axis	(mm)	(mm)	(mm)	(mm)
Others :				(mm)	(mm)	(mm)	(mm)	
				(mm)	(mm)	(mm)	(mm)	
				(mm)	(mm)	(mm)	(mm)	
				(mm)	(mm)	(mm)	(mm)	
				(mm)	(mm)	(mm)	(mm)	

(Please  $\checkmark$  if applicable)

**Part III.f (For electrical discharge machine (EDM) only)**

Yes / No

2B001(d)	The machine tool is a <b>wire type</b> EDM.	<input type="checkbox"/>	<input type="checkbox"/>
	The machine tool is a <b>non-wire type</b> EDM.	<input type="checkbox"/>	<input type="checkbox"/>
	The machine tool has two or more rotary axes which can be coordinated simultaneously for contouring control. (Please specify the number of rotary axis: _____ )	<input type="checkbox"/>	<input type="checkbox"/>

**Part IV - Numerical Control (NC) Unit**

2D002	The software residing in the numerical control unit is capable of coordinating simultaneously <b>MORE THAN FOUR</b> axes for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
Note 1 to 2D002	The software residing in the numerical control unit is specially designed or modified for the operation of the Machine Tool as specified in <b>Part I</b> .	<input type="checkbox"/>	<input type="checkbox"/>

**Part V - Licence Information**

The Machine Tool as specified in <b>Part I</b> requires an export licence from the exporting country.	<input type="checkbox"/>	<input type="checkbox"/>
A copy of export licence of the Machine Tool as specified in <b>Part I</b> is attached.	<input type="checkbox"/>	<input type="checkbox"/>

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**Part VI – Declaration**

I am the **manufacturer** of the Machine Tool as specified in **Part I**. I declare to the best of my knowledge and belief the information given above is true and correct.

Name of Signatory : \_\_\_\_\_  
(in block letters)

Position of Signatory in the Company : \_\_\_\_\_

Company name: \_\_\_\_\_

Signature & Company chop : \_\_\_\_\_

Date : \_\_\_\_\_

Important Note : The data collected in this form will be kept in confidence. They may however be disclosed to other government departments, or to third parties in Hong Kong or elsewhere, if such disclosure is necessary to facilitate consideration of the related application, is in the interests of the trade in Hong Kong, is authorised or required by the law; or if explicit consent to such disclosure is given by the applicant/data subject.

For further information concerning the handling of personal data by the Department, please refer to a relevant Note issued by the Department on the subject, copy of which is obtainable from the Strategic Trade Controls Branch, 16/F, Trade and Industry Tower, 3 Concorde Road, Kowloon City, Hong Kong.