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 (Attn.: Classification Section, Strategic Trade Controls Branch)  
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**TRADE AND INDUSTRY DEPARTMENT**  
**NUMERICALLY CONTROLLED MACHINE TOOL QUESTIONNAIRE**  
**Classification of Numerically Controlled Machine Tools**  
**(Revised on 20 March 2003)**

*(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)*

<b>Machine Tool</b>	<b>NC unit (to be used with the Machine Tool)</b>
Brand :	Brand :
Model no. :	Model no. :
Serial No. :	Serial No. :

(Please ✓ if applicable)

**Part I – 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) of the non-wire type (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 2B001(a)(2)	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.	<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 II – Technical Information**

Please select the appropriate part to answer.

(Please ✓ if applicable)

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

Yes / No

2B001(a)(2)	The machine tool has two or more axes which can be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
Note	The machine tool is specially designed for the production of contact lenses.	<input type="checkbox"/>	<input type="checkbox"/>

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

2B001(b)(1)(b)	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)	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 which has <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(a)(2)	The machine tool has two or more contouring rotary axes.	<input type="checkbox"/>	<input type="checkbox"/>

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

2B001(c)(1)(b)	The machine tool has three or more axes which can be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
2B001(c)(2)	The machine tool has five or more axes which can be coordinated simultaneously for contouring control.	<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 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; (b) Limited to a maximum workpiece capacity of 150 mm outside diameter or length; (c) Not more than two axes that can be coordinated simultaneously for contouring control; and (d) No contouring c axis.	<input type="checkbox"/>	<input type="checkbox"/>
2.	The machine tool is designed specially as jig grinder, and having all the following characteristics :- (a) It has x, y, c and c axes only; (b) The c-axis is used to maintain the grinding wheel normal to the work surface; and (c) The a-axis is configured to grind barrel cams.	<input type="checkbox"/>	<input type="checkbox"/>
3.	The machine tool is a tool or cutter grinding machines with software limited to the production of tools or cutters.	<input type="checkbox"/>	<input type="checkbox"/>
4.	The machine tool is a crank shaft or cam shaft grinding machine.	<input type="checkbox"/>	<input type="checkbox"/>
5.	The machine tool is a surface grinder.	<input type="checkbox"/>	<input type="checkbox"/>

**Part II.d Positioning accuracy (For turning machine, milling machine and grinding machine only)**

No. of Linear Axis	No. of Rotary Axis	Maximum Travel		Positioning accuracy with all compensations available in accordance with either of the followings	
( )	( )			ISO 230/2 (1997)	ISO 230/2 (1988)
		X-axis	(mm)	(mm)	(mm)
		Y-axis	(mm)	(mm)	(mm)
		Z-axis	(mm)	(mm)	(mm)
	Others :			(mm)	(mm)
				(mm)	(mm)

**Part II.e (For non-wire type electrical discharge machine (EDM) only)**

2B001(d)	The non-wire type EDM has two or more rotary axes which can be coordinated simultaneously for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
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**Part III - Numerical Control (NC) Unit**

2D002	The software residing in the numerical control unit is capable of coordinating simultaneously <u>MORE THAN FOUR</u> axes for contouring control.	<input type="checkbox"/>	<input type="checkbox"/>
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**Part IV – Declaration**

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 : \_\_\_\_\_

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

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

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