



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai 400076.

Ref. PR No. 1000054882

Rfx No. 6100003068

CNC Wire Cut Discharge Machine – Technical Document

S. No.	Parameters	Technical Specification	Compliance (Yes/No)	Additional Information
1	Technology	CNC Wire Cut Discharge Machine		
2	Display	LCD Display		
3	Control System	CNC		
4	PC	Industrial PC		
5	Axis Control	4- axes (X, Y, U, V)		
6	Guide Ways	Linear motion guide ways for X, Y axis & drum slide		
7	Resolution	0.001 mm		
8	Wire Dia	0.18mm (Std.), 0.15mm, 0.12mm		
9	Interpolation	Linear and Circular		
10	Programming	Incremental		
11	Least Input Increment	0.001 mm		
12	Least Command Input	0.001mm		
13	Data Input / Output System	USB Port, Regular Keyboard and Mouse; Can read AutoCAD . Dxf format		
14	Input Power Supply	3 Phase, 415 Volts, 50 Hz with Neutral and Earth		

S. No.	Parameters	Technical Specification	Compliance (Yes/No)	Additional Information
15	Total Machine Load	1.2 to 2 KVA		
16	Graphic Display	Graphic display of part showing wire position		
17	Processing and Data Entry	Separate program screen & process screen. Programming next job possible while cutting the current job		
18	Auto Stop	Auto Shut-off at the end of program		
19	Dielectric Fluid	Soft water (D.M Water) + Gel		
20	Dielectric Tank Capacity	50 to 75 Liters		
21	Specification	• Minimum Table Travel (XxY): 320 x 400 mm • Minimum Workable Size (LxW): 415 x 635 mm • Max. Job Height : 300 mm • Max. Taper / 100mm: $\pm 6^\circ$ / 100mm • Max. Job Weight: 400 Kgs • Normal Cutting Speed: 120 to 130mm²/min		
22	Features	• Stepper drive for X, Y axis, • auto wire tension device, • Ruby wire guide, • motorized Z-axis, • 'C' type frame structure. • Multipass facility, • L.M. Guideways for X, Y axis.		
23	Warranty	1 Year		