



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai 400076.

PR No.1000048783

Rfx No: 6100002294

Optical Vibration Isolation Table Qty – 1 No.

Sr. No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1	Optical Table Supports	Pneumatic Isolators should be Included		
2	Broadband Damping	Constrained layer core, damped working surface and composite edge finish		
3	Tuned Damping	2 Narrowband Precision Tuned Dampers		
4	Width	1200mm		
5	Length	1800 mm		
6	Thickness	200 ± 5 mm		
7	Working Surface Height	932 ±12.5 mm		
8	Mounting Holes	M6		
9	Working Surface	between 4 and 5 mm thick 400 series ferromagnetic stainless steel		
10	Surface Flatness	±0.1 mm over 600 mm square over entire table size		

11	Mounting Hole Pattern	25 mm grid with M6 tap		
12	Mounting Hole Borders	12.5 mm		
13	Hole Sealing Type	Easy clean non-corrosive high impact polymer conical cup, 19 mm deep		
14	Core Design	trussed honeycomb, vertically bonded closed cell construction, between 0.2 and 0.27mm steel sheet materials, 0.76 mm triple core interface		
15	Bottom Skin Material	4.8 mm thick carbon steel		
16	Horizontal Isolation, Res	1.9 Hz		
17	Horizontal Amplification at Resonance	12.5 dB		
18	Horizontal Isolation, 5 Hz	80-90%		
19	Horizontal Isolation, 10 Hz	90-99%		
20	Vertical Isolation, Res	1.7 Hz		
21	Vertical Amplification at Resonance	15 dB		
22	Vertical Isolation, 5 Hz	80-90%		
23	Vertical Isolation, 10 Hz	90-99%		
24	Load Capacity per Isolator	363 kg		
25	Maximum Payload	between 1000 and 2000 kg		
26	Weight – Tabletop	300 kg		
27	Weight – System	427 kg		
28	Frame Assembly Height	729 ±12.5 mm		
29	Maximum Air Pressure	5.8 Bar		

30	<u>Air Compressor – 1 No.</u> A suitable air compressor/foot pump should be provided with Regulator and Air Intake Filter			
30.1	Max Air pressure range	Should be >80 to <120 PSI		
30.2	Operating Low Noise	at <40 dB at 1 ft and take capacity of >3 Litres.		

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7	Working Surface Height	932 ±12.5 mm		
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16	Horizontal Amplification at Resonance	12.5 dB		
17	Horizontal Isolation, 5 Hz	80 - 90%		
18	Horizontal Isolation, 10 Hz	90-99%		
19	Vertical Isolation, Res	1.7 Hz		
20	Vertical Amplification at Resonance	15 dB		
21	Vertical Isolation, 5 Hz	80-90%		
22	Vertical Isolation, 10 Hz	90-99%		
23	Load Capacity per Isolator	363 kg		
24	Maximum Payload	between 1000 and 2000 kg		
25	Weight – Tabletop	236 kg		
26	Weight – System	346 kg		
27	Frame Assembly Height	729 ±12.5 mm		
28	Maximum Air Pressure	5.8 Bar		
29	<u>Air Compressor – 1 No.</u> A suitable air compressor/foot pump should be provided with Regulator and Air Intake Filter.			
29.1	Max Air pressure range	should be >80 to <120 PSI.		
29.2	Operating Low Noise	at <40 dB at 1 ft and take capacity of >3 Litres.		
Warranty - 1 Year for both systems				
“Along with the technical comparison, the manufacturer’s specification sheets for the product must be enclosed”				