



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai - 400076

PR No. 1000034086

Rfx No. 6100001480

Technical Specifications for Spin Coater

Chamber specifications:

1. 9-10 inch internal diameter bowl-shaped process chamber
2. Capable of handling up to ~ 6 inch wafer or ~ 5 inch square substrate capability
3. Brushless motor featuring bi-directional rotation/agitation, high acceleration
4. Solid Natural Polypropylene housing with interlocking
5. Chemically-resistant lid with 0.5-1 inch center opening
6. Corrosion-proof configuration (no exposed metal — therefore, no degradation using strong acids or bases)
7. Natural Polypropylene vacuum chuck for 50 mm through 150 mm substrates and fragment chuck adapter — fits over above chuck for holding 10 - 50 mm pieces
8. Natural Polypropylene Drain Port and Nitrogen purge
9. Exhausted Drain Reservoir with 250 ml removable Polypropylene drain container
10. Safety door interlock (disallows rotation when door is open)
11. Safety door latch (requires deliberate action to open process chamber)
12. Safety door lock (prevents chamber opening while program is running)

Process and Program:

1. Digital Process Controller
2. Speed: 1 RPM to 12,000 RPM, NIST-traceable — no repetitive calibration required
3. Control Time: 1 second to ~ 100 min in 0.1 second increments
4. Programs: ~ 10-20 preset program with ~ 50 - step programs or manual mode.
5. Acceleration: approximately 10,000 RPM/sec or better with standard chuck (can be programmable in 1 RPM increments)
6. Bluetooth enabled for remote operation

Others:

1. Glovebox-ready configuration (should run inside N₂/Ar filled glove box)
 2. Lifetime Process Support
 3. Power: Standard Indian Wall Power compatible
 4. 3-year system warranty
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