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**Technical Specification of MTEST5000 MICROTTEST 5KN tensile stage for TFS NOVA NANO SEM. (Upgradation)**

**ITEM 1 - MTEST5000 MICROTTEST 5KN tensile stage**

1. single leadscrew horizontally mounted tensile and compression testing stage
2. precision slides with symmetrical stainless-steel leadscrew
3. suitable free SEM port is required. TBC
4. exchangeable 5KN loadcell, accuracy 1% of full-scale range
5. resolution 1000/1 (dynamic) {5N}, 2000/1 (static) {2.5N}
6. standard speed range 0.02mm/min to 1.25mm/min using 415:1 gearbox
7. maximum travel (stroke) 10mm (10-20mm)
8. extensometer for position readout, resolution 3 $\mu$ m.
9. Microtest software for USB2 control of module & graphical display of parameters
10. approximate dimensions 146mmx108mmx39mm (L, B, H)
11. max sample size: 67mmx20mmx10mm (L,B,H)
12. warranty period: 1 year
13. operating voltage 115V/230V @200VA

**ITEM 2 – SEM Interface Kit A**

1. Port feedthrough and stage mount for TFS SEM
2. Port TBC

**Note: Minimum computer specification, Windows 10.0 Professional, dual core with 2Gb RAM and 100Gb Hard disk & USB socket**