

Technical Specifications of Wire Bonder

Bonder shall be capable to function in Ultrasonic and thermosonic bonding technique, ESD Safe, clean room compatible and capability to bond, Aluminum and Gold wires. Also, bonder loop height and shape shall be programmable

**Bidder eligibility Condition**

The bidder/OEM should have supplied at least 2 similar items to IITs, NITs, IISERs, CSIR Labs or other Indian Government organizations or abroad in the last 5 years, PO copies or installation certificates along with model number and contact details of end user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation.

S. No.	System Parameters	Specifications	Complied / Not Complied	Ref. Page No.
1	Wire diameter  Bonder shall capable to bond: Wire feed angle  Bonder shall be capable of bonding on minimum pad size:  Microscope: a. Zoom b. Magnification c. Working distance d. Field of view  (Auto Tool tuning should be software included)	0.7 mil to 2.0 mil (1 mil = 25.4 $\mu$ m)  Wedge-wedge bonding Ball-wedge bonding  Vertical (90°) and diagonal (45°)  50 $\mu$ m x 50 $\mu$ m or better  1.0 - 4.0x or better  10x – 40x / with eyepiece 10x or better  minimum 100 mm  minimum 30 mm		
2	Main System: Ultrasonic Power  Bond force  Minimum working height:  Work stage size:  Sample holder (minimum)	2 Watts or better  Programmable 15 to 150 centi-Newton or better 40 mm  100 mm x 100 mm (minimum)  2" (50 mm) x 2" (50 mm) with temperature range from ambient to		

	<p>System must have display</p> <p>Wedge tool for</p> <p>Motorized Wire feed</p>	<p>150°C.</p> <p>Bonding parameters such as bonding force, ultrasonic power, bonding time.</p> <p>50 mil gold wire</p> <p>50 mil Aluminum wire</p> <p>½ Inch spool</p>		
3	Warranty	Three years from the date of installation		

(Note: It is mandatory for the bidders to provide the compliance statement (comply/not comply) for the above points with document proof as required).If the compliance statement (comply/Not comply) is not furnished for the evaluation. Bidders will be disqualified.