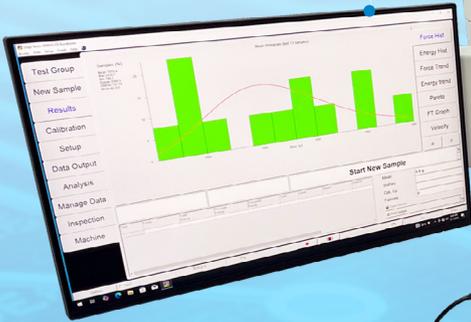




Paragon™ Software
Easy-to-use in
production



Ergonomic
Design
Microscope,
keypads &
joysticks



4000HS Shear

High Speed Bondtester

Superior performance for high speed shear testing

Nordson proudly maintains its excellence in repeatable, reliability and most importantly the accuracy of measurement data, which are powered by carefully engineered motion system and patented high speed transducer technology.

Since its first introduction, 4000HS Shear has provided every customers with quality assurance, dependable performance and savings from ever more expensive drop testing.

Industry Leading Speed & Precision

Nordson proudly maintains its excellence in repeatable, reliability and most importantly the accuracy of measurement data. Whether you utilize one Bondtester in production or many, Nordson's 4000HS Shear ensures ultimate system to system consistency so pass/fail decisions are the same, regardless of the Bondtester used.

- Patented frictionless load cartridge technologies guarantee accuracy, repeatability and correlation.
- Powered by carefully engineered motion system and patented high speed transducer technology.
- Conforms to industry testing standards and compatible with 4000 series cartridges.

Maximum Operator Comfort

4000HS SHEAR is extremely easy and comfortable to use so operators can test for prolonged periods without risk to their health.

- Working heights, and controls designed with the operator in mind.
- Soft, padded arm rests ensure the 4000HS Shear is a pleasure to use.
- Antivibration optics, and dimmable lighting reduce eye strain during long sessions.

Perfect for all your Applications

The 4000HS Shear is designed specifically for the needs of semiconductor manufacturing.

- Lead free solder brittle fracture joint analysis.
- Alternative to electronic devices drop testing and impact testing.
- BGA, CSP, QFN, SiP, MCM, solder joints, bond pad and substrate evaluation.

Key Features	
Software	Paragon
Adapter	Application specific (please consult factory)
Optical	Olympus SZ51 binocular
PC & Monitor	Factory configured PC & Dell 24" monitor
Transducer	Ultra high bandwidth force measurement technology
Cartridge	High speed shear 5KG
Installation	
Footprint (W x D x H)	1100mm (excluding PC) x 850mm x 670mm
Weight	100kg
Power supply	100/110V, 220/230V AC, 50/60Hz switchable
Pneumatic supply	4 bar, 6mm OD/4mm ID plastic pipe
Interfaces	RS232 opt. network card
Vacuum supply (workholders)	Min 500mm Hg plastic pipe
Test Parameters	
Programmable	Shear speed, step back height, landing speed, fallback, overtravel, grade list and product group fields
Sample dimension	100 x 45 x 25mm

Performance	
Step back accuracy	± 1 µm
Sample Size	100 mm x 45 mm x 25 mm
Shear in Y axis	Adjustable up to 4m/sec
Shear in X axis	Ball Shear 5kg (+/- 1% FSD)
Analysis Features	
Statistics	Force or energy results, min, max, mean, range, standard deviation, m-3s, CpK, Cp
Measurement	Force vs Distance/time graphs, Energy results: total, pre-peak and post-peak load.
Certification	
CE	Machinery, EMC & RoHS
Factory accreditation	ISO 9001:2015
Environmental	ROHS (2011/65/EU)

For more information, speak with your Nordson representative or contact your Nordson regional office

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