THE MODAL SHOP
AN AMPHENOL COMPANY

MODEL **RAM-TEST-FIXTURE**

NDT-RAM
TEST STATION

- Tests many different parts on a single system
- No part preparation or elaborate fixturing required
- Easy-to-learn application software
- Simple pass/fail result - no human interpretation required
- Generates production report, with statistical analysis

TYPICAL APPLICATIONS

- Production - End-of-Line Inspection + Process Monitoring
- Field Service - Troubleshooting
- Quality Control - Spot Checking
- Engineering - New Product Development

REPEATABLE MANUAL TESTING

The NDT Test Station, Model RAM-TEST-FIXTURE, Resonant Inspection System is an ideal choice for testing when repeatable manual inspections are required. The innovative Test Station allows precise control of part positioning with an adjustable table ranging up to 6.25 inches (158.75 mm) in height. Photo eye sensors trigger the integrated industrial impactor when a part is in position.

Test parts such as:

- Powdered Metal
- Brazed Parts
- Ceramics
- Composites
- Small Metal Components

Once impacted, a simple pass/fail result is returned by the NDT-RAM system. The system includes a laptop PC, running NDT-RAM software which acquires data for analysis from each part, requiring no human interpretation. The included light tower provides a clear, visual indication of a part's test status, allowing easy sorting.

This easy-to-use NDT system quickly becomes a critical quality assurance tool in your inspection process. The RAM-TEST-FIXTURE detects imperfections or flaws such as variations in overall geometry, cracks, and missing features. It can also detect if processes have been missed, such as machining or heat treating operations.

CE

NDT-RAM SOFTWARE

NDT-RAM application software compares each part's resonant signature against reference criteria limits and accepts or rejects the part accordingly. The system report generation feature allows for full part signature archival and statistical analysis of your parts and manufacturing processes. The software offers:

- Graphical features provide easy visual data evaluation

- Data shows color-coded spectra for good and bad parts against acceptable criteria ranges

- Investigate Mode supports up to 1500 part spectra, labeled good, bad or unknown

- Clear indication of pass/fail by criteria range
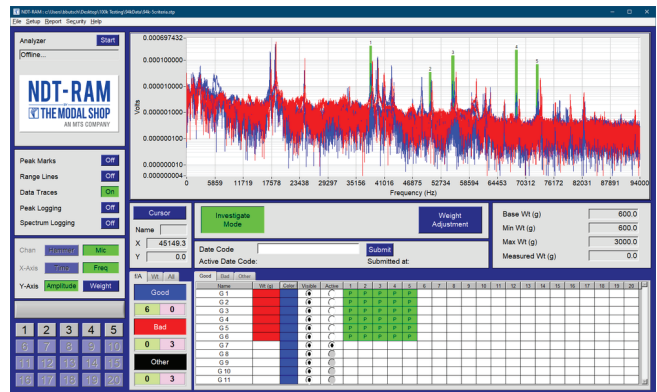
NDT-RAM Software Interface

SPECIFICATIONS

Performance

Part Throughput – Manual load by operator	Typical 5 to 10 seconds between parts	
Pass/Fail Mechanism – User defined criteria ranges	Up to 20 frequency bands	
Acoustic Measurement		
Response sensing	Prepolarized microphone - PCB 130 series	
Frequency range	Up to 50 kHz	
System Control		
PLC	8 inputs/6 outputs modular expandable	
Computer	Laptop PC provided	

Physical

Industrial Impactor Force	50–500 lbf	222–2224 N
Part Detector via Photo Eye Sensors – Adjustable height	0 – 4 in	0 – 101.6 cm
Dimensions (H x W x D)	24 x 30 x 40 in	60.96 x 76.2 x 101.6 cm
Weight	90 lb	40.8 kg
Adjustable Table		
Height Adjustment	0 – 6.25 in	0 – 158.75 mm
Table Dimensions (L x W)	13.5 in x 13.5 in	34.29 cm x 34.29 cm
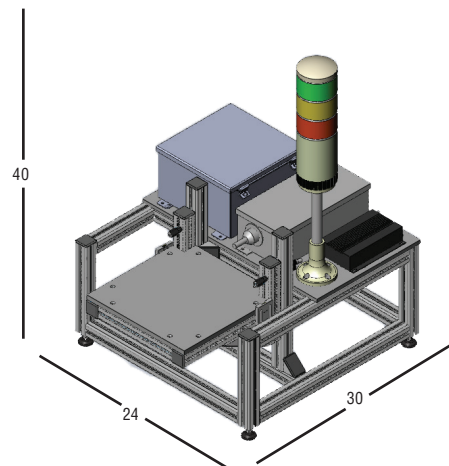
NDT-RAM Test Station

The light tower status indicator provides prominent visual display of passed or failed parts – green light for passed and red for failed. A system fault or error is indicated with a yellow light.

THE MODAL SHOP
AN AMPHENOL COMPANY

10310 Aerohub Boulevard, Cincinnati, OH 45215 USA

modalshop.com | info@modalshop.com | 800 860 4867 | +1 513 351 9919