

Part Quality Inspection Application: NDT-RAM™ System Qualification Program

NDT-RAM™
Qualification



RI FEASIBILITY ANALYSIS REPORT

- No cost resonant inspection feasibility study on your parts.
- Ship 6-24 parts, at least 5 good parts to set-up test parameters, and the balance defective. Include parts from multiple run lots if possible.
- Comprehensive, confidential test report provided.
- Parts returned at your request.



FINANCIAL JUSTIFICATION STUDY

- We can help with a comprehensive financial justification study.
- Confidential, formal report supplied at no charge.
- Helps justify RAM NDT investment by your company.

SYSTEM RENTALS

- Try it before you buy it - lower your risk.
- **100% of the first month's equipment rental fee applies toward purchase.**
- Use the RAM NDT system in your production environment before making investment decision.
- One day training, at your facility, plus consistent follow-up to ensure your comfort with the system.
- Two configurations available:
 - Manual system plus electric hammer.
 - Fully automated NDT-AUTO system.

MAIN SYSTEM COMPONENTS:



LanSharc™
Smart Digital Controller



Microphone
& Preamp



NDT-HAM1
Manual Hammer



NDT-HAM2
Electric Hammer



NDT-RAM
Control Software

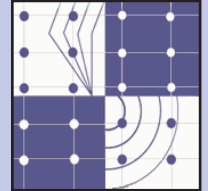
Who needs NDT Resonant Inspection?

Manufacturers or users of metal parts that...

- have substantial inspection cost.
- require 100% parts inspection.
- desire to improve part quality.
- produce and/or use safety-critical parts.
- have customers demanding higher quality.
- have substantial scrap costs due to false rejects.

What does NDT Resonant Inspection detect?

- Cracks, chips, holes, and voids
- Porosity
- Out-of-tolerance dimensions
- Variations in hardness
- Residual stress
- Bonding, welding, or brazing failures
- Machining or heat-treating processes



T H E
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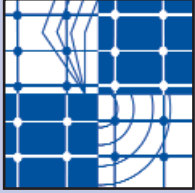
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NDT-AUTO Fully Automated System

- Ideal for in-line, automated, objective inspection
- No operator intervention needed for inspection
- 100% inspection to test every part prior to shipment
- Fast throughput - as fast as a part per second
- Customizable conveyor configurations

NDT-AUTO system includes: LanSharc™ Smart Digital Controller, turn-key conveyor system (standard 6' or 8' length with 8" or 12" wide belt), industrial electric impact hammer, microphone and preamplifier, acoustic tunnel, automation accessories (photo eyes, PLC, pneumatic ejector), NDT-RAM software, cables, and industrial-grade computer with MS Excel for statistical analysis.

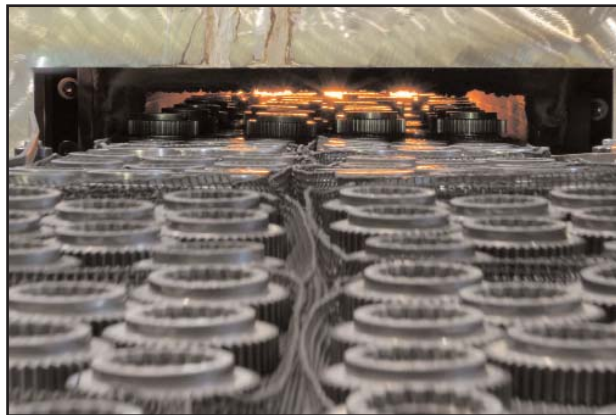
	6' configuration	8' configuration
Length	72"	96"
Floor to top of belt w/ wheels	41"	41"
Floor to top of belt w/ feet	37"	37"
Floor to top of computer	71"	71"
Width overall (8" belt)	41"	41"
Width overall (12" belt)	45"	45"



NDT-SEMI Semi-Automated System

- Ideal for adapting to existing process automation
- 100% inspection to test every part prior to shipment
- Fast throughput - as fast as a part per second

NDT-SEMI system includes: LanSharc™ Smart Digital Controller, industrial electric impact hammer with thumbswitch trigger, instrumented impact hammer, microphone and preamplifier, NDT-RAM software, cables, and industrial-packaged computer with MS Excel for statistical analysis.



NDT-MAN Manual System

- Portable - fits easily inside a laptop case
- Ideal for spot checking in the field
- Ideal for new part set-up, investigation, troubleshooting

NDT-MAN system includes: LanSharc™ Smart Digital Controller, instrumented impact hammer, microphone and preamplifier, NDT-RAM software, cables, and laptop computer with MS Excel for statistical analysis.