

# Dakota RX8-DL Sonic Tester

In accordance to:  
NIST & MIL-STD-45662A



The Dakota RX8-DL Sonic Tester is used to measure the thickness of cylinder walls, head ports, decks, chassis tubing, body panels, and windshields. The time-based B-Scan feature of the Dakota RX8-DL Sonic Tester displays a cross-section view to see the profile/contour of the back surface while scanning cylinders.

## Features

- 64 custom user-definable setups; factory setups can be edited.
- Selectable transducer types with built-in dual path error correction for improved linearity.
- Takes 250 readings per second
- Measuring Range includes Pulse-Echo Mode and Echo-Echo Mode
- Data Storage: 4GB Internal Memory with Grid and Engine Map options
- Data output: USB-C 1.1 PC & OSX connectivity
- Download reports to DakMaster data management software
- 2 Year limited warranty

## Applications



Cylinders



Body Panels



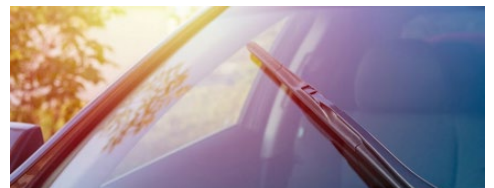
Chassis Tubing



Roll Cages



Head Ports



Windshields

## Product Features

Model	RX8-DL
<b>Display Mode</b>	
Material thickness digits display	■
B-Scan cross sectional display	■
Combined B-Scan and digits display	■
Coating Thickness Display	■
Scan Bar Display	■
Measurement Range	PE: 0.63 - 914.4mm EE: 2.54 - 101.6mm
Resolution	0.01mm
Velocity Range	305 - 18,542m/s
<b>Additional Features</b>	
High Speed Scan	10 - 200 readings per second
Pulser	150-volt square wave pulser
Gain	Manual or automatic gain control (AGC) with 50dB range
Timing	Precision temperature-controlled crystal oscillator (TCXO) timing with single shot 100MHz 8bit ultra-low power digitizer
	Grid (alpha numeric)
Memory and Data Logging	Engine Map (cylinder scans) Screen Capture: Bitmap graphic capture for quick documentation (.tif ) OBSTRUCT to indicate inaccessible locations
<b>Calibration Options</b>	
1 - point	■
2 - point	■
Material selection	■
Velocity (speed of sound)	■
Transducer Probe Type	Dual Element
Transducer Frequency Range	1 - 10MHz
V-path / dual path error correction	Automatic
Probe Zero	Manual (via integrated probe disk)
Display	VGA grayscale display (240 x 160 pixels) Viewable area 62 x 5.7mm
Units (selectable)	mm
LED Backlight	on/off/auto
Repeatability / Stability Indicator	■

## Technical Specifications

Part Number	Description
Z-158-0004	Dakota RX8-DL Sonic Tester (PR-8V)
Operating Temperature	-10 to 60°C
Power Supply	3 x AA batteries and via USB
Battery Life	Alkaline – 35 hrs, Nicad – 10 hrs and NI-MH – 35 hrs
Gauge Weight	383g - including batteries
Gauge Dimensions	63.5 x 165 x 31.5mm

## Packing List

Dakota RX8-DL Sonic Tester
Standard Transducer
Couplant
Plastic Carry Case, User Manual
AA batteries, Transfer cable, PC Engine Mapping Software

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