

CTWIST

Circumferential Tread Wear Imaging System

The Bytewise CTWIST System enables tire wear and life projection analysis to be conducted with fast, accurate and operator-independent measurements. System applications include tire testing, OEM tire evaluation, and tire model development.

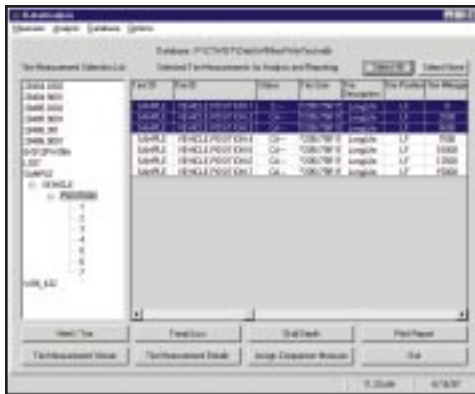


Features & Benefits

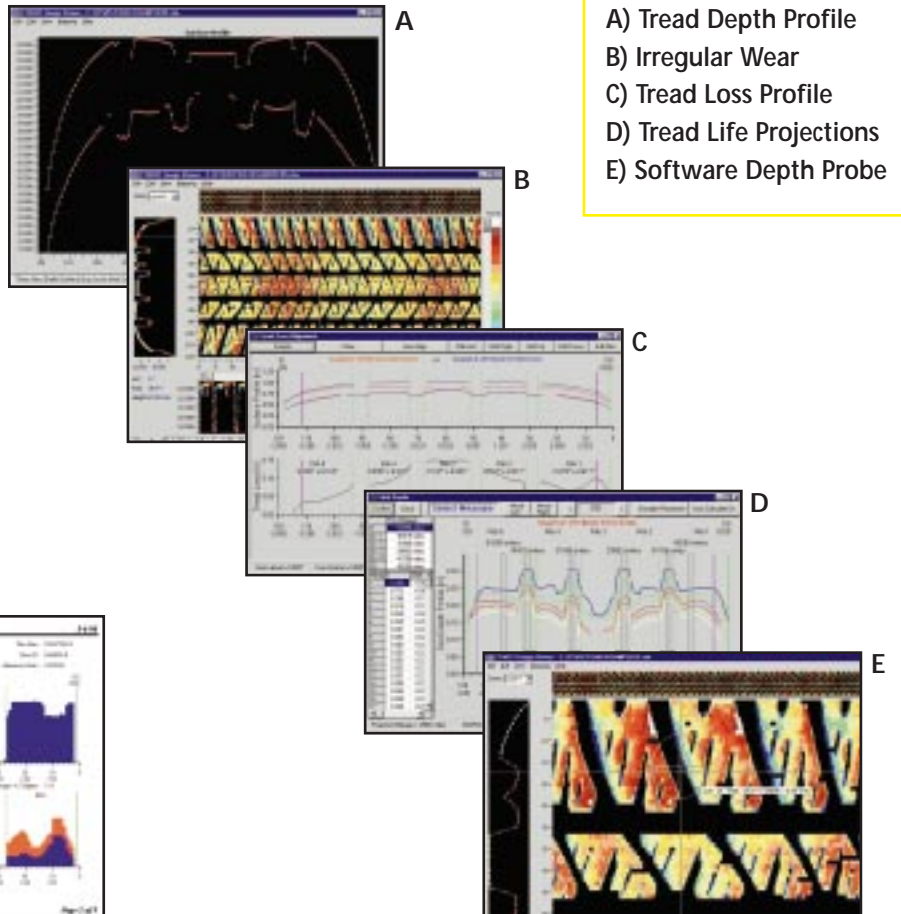
- Collects over 500,000 measuring points in less than 5 minutes.
- Utilizes high-speed laser triangulation sensor.
- Automatically calculates tire life projections from accurate measurements.
- Automatically calculates and displays regular and irregular wear indices.
- Provides graphical display of all wear types.
- Utilized by many leading automobile and tire manufacturers worldwide.
- Provides increased precision that enables rigorous data intensive wear calculations.
- Provides accurate, repeatable, non-contact measurements that are operator independent.
- Reduces analysis time and wear times requirements.
- Reduces analysis time and enables more thorough review of results.
- Provides excellent interpretation of wear patterns.
- Insures longevity and continual enhancements will be made as needed.

Operational Overview

Data Manager

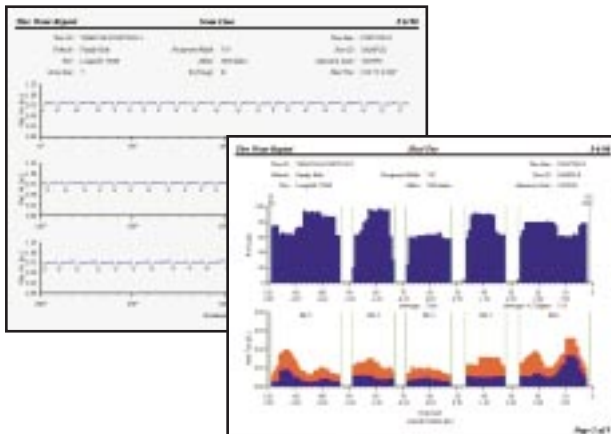


Imaging Information



- A) Tread Depth Profile
- B) Irregular Wear
- C) Tread Loss Profile
- D) Tread Life Projections
- E) Software Depth Probe

Screen or Paper Reports



Specifications

System Specifications	Typical Measurement Time	5 minutes
	Measurement Technology	Scanned Laser Triangulation
	Measurement Range	32 mm
	Laser Standoff	180mm
	Measurement Spot Diameter	.1mm
	Laser Classification	Class IIIb Gallium Arsenide
	Laser Resolution	<.008mm
	Data Signal	Digital with Invalid Data Signal
	Data Points per Scan Line	4096
	Typical Data File Size	1Mb
	Compatible Tire Radius Range	200 to 625mm
	Compatible Tire Widths	Up to 400mm
	Maximum Tire and Wheel Assembly Weight	100kg
	Maximum Tire Rotation Speed	120 RPM
	Machine Dimensions (WxDxH)	1000mm x 1150mm x 900mm