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Score Residual Gauge Fact Sheet

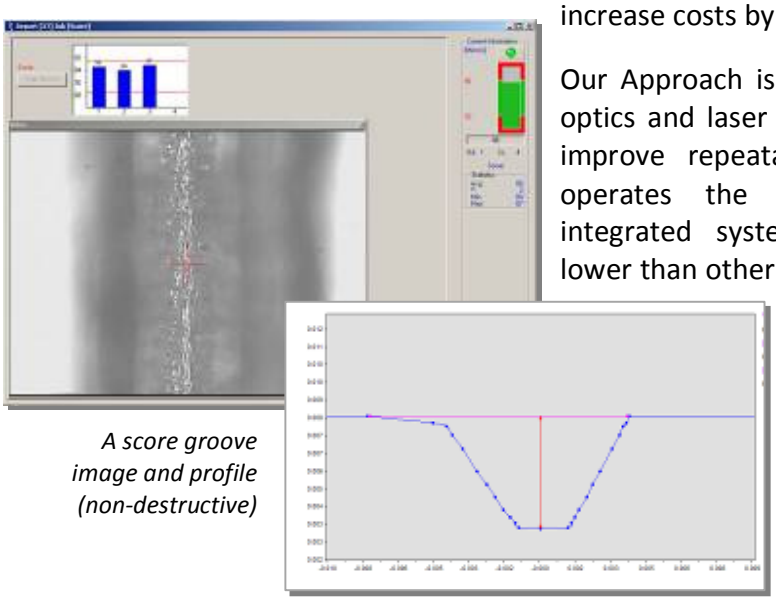
The Score Residual Gauge is Quality By Vision's Laser-based optical gauge designed to accurately measure Easy-open score grooves on food, beverage and aerosol ends.

The Score Residual Gauge Unit

Until today, systems based on depth-of-field microscopes depended on operators to manually focus on the score groove using a video monitor and built-in micrometer.

The high reliance on operators produces a lower GR&R rating, as different operators will focus on different parts of the groove. An informal test conducted by our customers indicates that the repeatability of such systems is approximately **±0.00020"-0.00030"**!

Such systems are usually expensive, as they require an external video screen, an expensive indicator and decoder. Such systems usually provide SPC through an additional computer system and software that increase costs by even more.



A score groove image and profile (non-destructive)

Our Approach is to utilize our expertise in optics and laser technology to dramatically improve repeatability regardless of who operates the system. Our computer-integrated system is priced significantly lower than other systems and can produce a repeatability of **±0.00005"!** The system is less expensive and easier to maintain because we don't use any additional peripherals (e.g., decoders or external monitors) –

the microscope is directly connected to the computer!

The system is provided with our simple yet powerful *Symphony* Statistical Process Control (SPC) suite, for free! The system saves measurement results and statistics, score groove images, and can even produce a score groove profile (cross-section), all using non-destructive technology.

Quality By Vision has created an accurate, repeatable and affordable Score Residual Gauge that's perfect for every budget!

Comparative Guide

Parameter	Quality By Vision	The Competition
Repeatability	**±0.00005"**	±0.00020" - 0.00030"
Flexibility	**All end types**	
Technology	**Laser-based technology and powerful image processing software**	Manual focus on the score groove using an external video screen
Traceability	**System saves images, groove profiles, measurement data and statistics**	
Hardware	**Imbedded laser and depth of field microscope**	Depth of field microscope with peripheral hardware
Depth of field	**±0.00005"**	±0.00010"
Peripheral Hardware	**None**	External video screen, micrometer, decoder terminal
Software	**Accurate image processing software**	No image processing Relies on operator judgment
Training Costs	**Low, easy training!**	Depends on skill level and number of operators
Price	**Significantly lower**	

Quality By Vision

Quality you can see!