

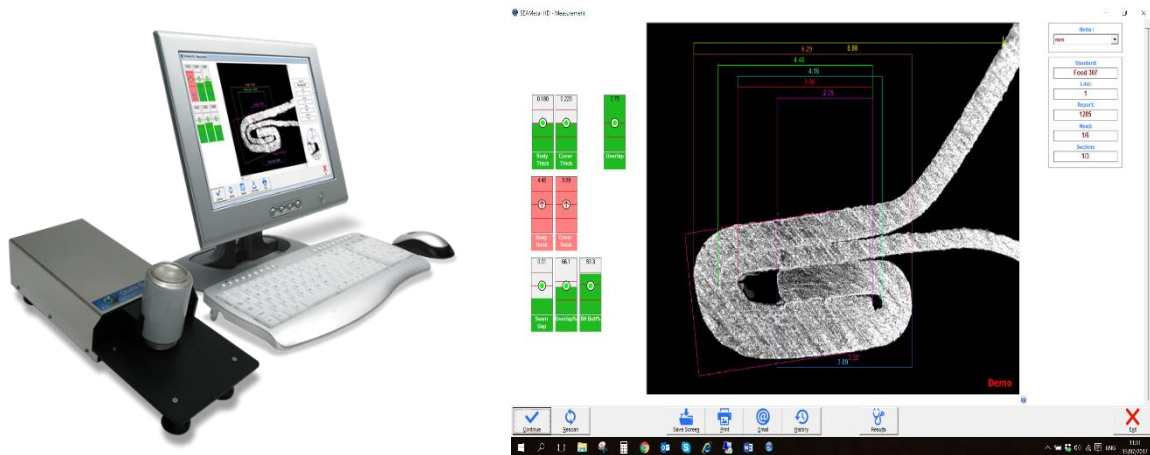
SEAMetal 6.x

Beverage

Introduction to software + saw + gauges

Specifications, description saws & external gauges & SEAMetal brochure

SEAMetal HD optical unit & seam image



SEAMetal HD

Automatic, Double Seam Analyzer for beverage cans (optional with SPC Software)

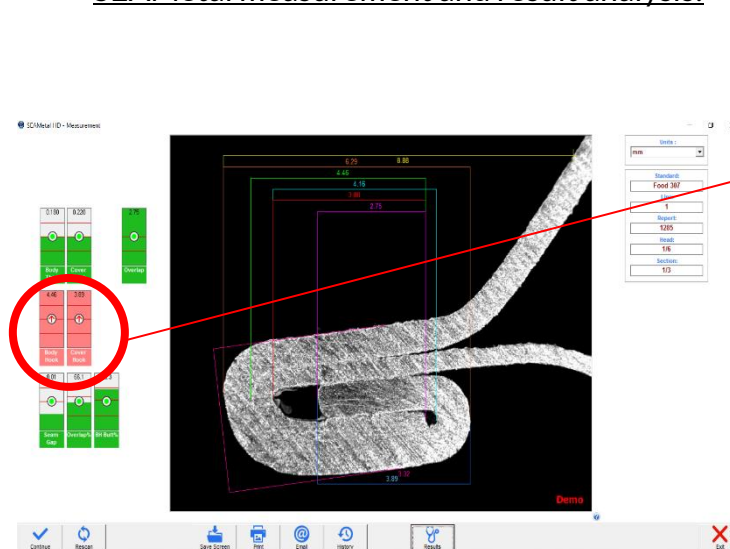
- Automatic Double Seam Analyzer with Sample table for Food Cans
- Version 6.0 software compatible with 10
- Standard Definition optical unit with USB camera
- **New!** Seam Doctor Software, *Automatic troubleshooting for seam defects* and suggests solutions (see next page)
- All measurements done instantly from the seam image
- Customizable HTML and Excel reporting system
- Database saves measurements & double seam images
- Automatic email alerts when bad seams are detected
- Remote access to measurement data and statistics over the network
- Software can integrate with digital gauges such as seam thickness, material thickness, etc. (sold separately)
- Includes calibration gauge (certified by Quality By Vision)
- Manuals in English
- For info and demo movie [click here](#)

For info and quotations please visit
Or email directly to:

<https://www.quality4food.com/contact>
info@quality4food.com

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SEAMetal measurement and result analysis:



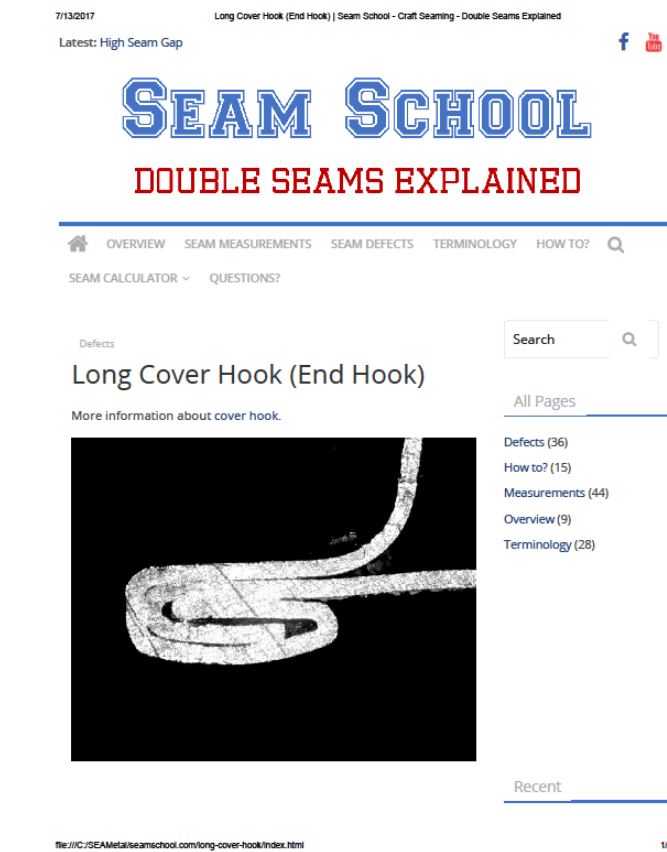
The screenshot shows the SEAMetal software interface. On the left, a 3D model of a seam is displayed with various measurement overlays. A red circle highlights a specific measurement point. On the right, a 'Results' table lists various parameters and their values.

Results			
Body Thick.	0.180	Seam Length	8.29
Cover Thick.	0.220	Countersink	8.88
Seam Thickness	3.32	Seam Gap	0.01
Overlap	2.75	Dim A	3.88
Body Hook	4.46	Dim B	4.16
Cover Hook	3.89	Tightness	0

Calculated results	
Overlap %	96.1%
BH BUTT.	93.3%

Disclaimer: The text below is presented for informational purposes only. We make no claims or guarantees regarding the accuracy of the information and assume no responsibility for damage incurred from its use. Please contact us for information.

- 1st op Roll may be too loose
- 2nd op Roll may be too tight
- Check Pin Height
- 1st op Roll may be too tight
- 1st op Roll may be set too high
- 2nd op Roll may be too loose
- 2nd op Roll may be set too high
- Check lifter plate pressure - it may be too low
- Check lifter plate pressure - it may be too high



The screenshot shows the SEAM SCHOOL website. The main heading is 'DOUBLE SEAMS EXPLAINED'. Below it, there is a navigation menu with options like OVERVIEW, SEAM MEASUREMENTS, SEAM DEFECTS, TERMINOLOGY, and HOW TO?. A search bar is also present. The page content includes a section titled 'Long Cover Hook (End Hook)' with a sub-heading 'More information about cover hook.' and a 3D model of a seam. A sidebar on the right lists 'All Pages' with categories like Defects (36), How to? (15), Measurements (44), Overview (9), and Terminology (28).

In above images, you see how the SEAMetal 6 software not only performs a measurement of the seam, there is also a SEAM analyse option. This option analyses the seam, and if somethings are out of specification, it provides information on what can be adjusted in the seamer.

This is a unique and patented feature only by Quality by Vision

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The Quality by Vision SEAMetal system is available in 3 different versions:

1. The SEAMetal HD LT is a basic plug and play system with minimal setup for small (craft) breweries and canneries. Can integrate with Seam Thickness and Countersink Gauges only.
2. The SEAMetal HD without SPC is a comprehensive seam inspection system with advanced capabilities. The software includes customizable reports, optional email alerts, and access and monitoring of seam data over the network. The software can also integrate with external gauges with customizable measurements.
3. The SEAMetal HD PRO includes all of the above as well as SPC software with advanced data mining and drill down capabilities

See below the differences between all versions:

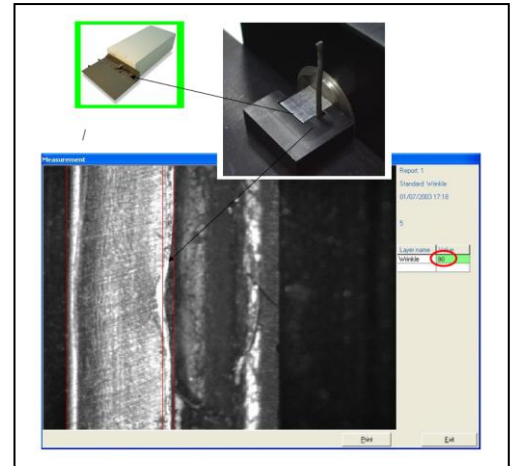
SEAMetal Features Available	SEAMetal HD LT	SEAMetal HD without SPC	SEAMetal HD PRO
Instrument Connectivity Connect to external Seam Thickness and Countersink Gauges	✓	✓	✓
Instrument Connectivity Connect to digital gauges and testers, as well as keyboard for inspection data entry		✓	✓
Diagnosing Capabilities Seam Dr. Software diagnoses seam issues and suggests solutions	✓	✓	✓
External Assistance Includes integration with and full offline copy of www.SeamSchool.com	✓	✓	✓
Full SPC software Graphing software with advanced data mining and drill down capabilities			✓
Additional Inspection Capabilities SEAM-explorer™ allows to inspect any radius, angle, distance or area within the double seam		✓	✓
Seam Images Stores captured seam images with associated data. Displays images onscreen during inspections and prints on reports	✓	✓	✓
Headlines Custom fields (Product Code, Can Code, Can Manufacturer, End Code, End Manufacturer and V-jet Can Code) to add important data to your inspections	✓	✓	✓
Passwords and Permissions Four different optional permission levels controlled by passwords.		✓	✓
Recheck Capability Perform rechecks for all or only out of spec measurements		✓	✓
Views Fully customizable measurement reports in HTML and Excel		✓	✓
Assessment Digitally sign off on inspections will lock them down to conform with the FDA's 21 CFR Part 11 for maintaining digital records		✓	✓
Networking Database can reside on local PC and is backed up automatically to server. Access data from non-workstation PCs using Database Management License.		✓	✓
Scheduled Tasks Schedule repeating events for importing, exporting and archiving data, along with automatic report printing.		✓	✓
E-mailed Alerts Alerts auto generate and email when bad seams are detected with or without seam image.		✓	✓
Custom Serial Protocol (Instruments) Accepts data from most non-Quality By Vision gauge outputs		✓	✓
Custom File Protocol (Instruments) Imports data files from most non-Quality By Vision gauge software		✓	✓
Read Only License Included	✓	✓	✓

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Wrinkle rating attachment to SEAMetal optical unit – included

SEAMetal software allows operator to select for tightness/wrinkle measurement parameter:

- “none” or operator does not perform tightness/wrinkle measurement at all.
- “keyboard” or operator judges visually the wrinkles and types the value which he/she thinks is correct, which is done in most cases.
- “External video” or operator places stripped seam for SEAMetal optical unit (see image below) and measures in below screen with 3x measurement lines the deepest wrinkle of seam perimeter, which value will automatically appear in below measurement report.
- Resulting value (here 90) you see back in 1st section of below measurement report.



Optional SPC for SEAMetal

The newly designed SEAMetal SPC software is now integrated into the system and allows operators and administrators to view statistics locally as well as remotely over the corporate network (LAN).

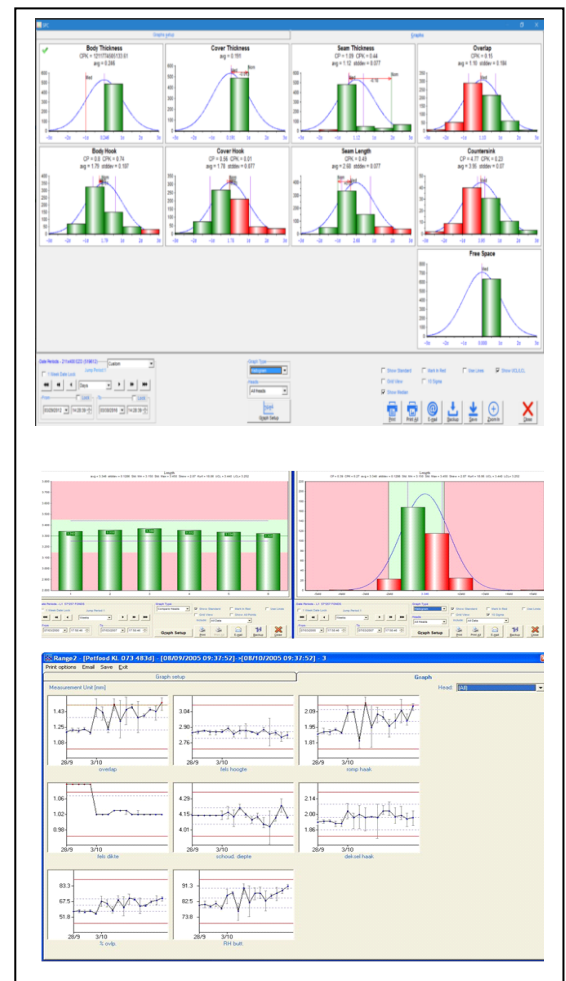
The new Statistical Process Control (SPC) six-sigma software allows you to see an overview of what's going on, then drill down to a particular data point, see its values, which report it belongs to, who measured it, see all the reports attached to that data point and even see the double seam measurement image that caused that data point to appear.

The new system has been fine-tuned towards easily understanding what each graph represents and provides drilldown access to any relevant data points. Predicting future problems using statistical trending has never been easier.

For example, if you see a red point, representing a point outside of the specifications, you can immediately view the report where that point belongs, or even view an image of the seam that generated that very point.

You can easily view and detect trends, as well as analyse statistical data.

Click [here](#) for the video.



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Semi- automatic saw for beverage cans AGS-2300

The AGS-2300 - Beverage SEAM Saw uses two parallel blades, one mounted to cut along the diameter of the can, to make the cross-section without chattering, distorting or changing hook lengths. This provides an accurate radial slot, free from distortion, and with minimal burr, for use in Double Seam imaging and measurement.

By accommodating a complete range of beverage can body diameters from 200 – 307, the AGS-2300 - Beverage SEAM Saw also offers exceptional versatility. Our exclusive Double Seam holder never requires tooling changes, and allows for very easy operation. The AGS-2300 - Beverage SEAM Saw's removable access panel provides full access to the seam saw for a safe and quick blade change. The fully enclosed seam saw is equipped with a metal sensing safety switch and safety shut-off.

End Size Range: 200-209
Electrical Power Required: 240VAC 50-60Hz
Weight: 16.0 kg
Saw Blades: 80 x 22 x 0.5mm, HSS
Speed: 3000 rpm
Dimensions: 400 x 400 x 250mm



<https://industrialphysics.com/product/beverage-seam-saw/>

TBS-A1C: Automatic Twin Blade Saw, Beverage Cans

The TBS-A1C Saw delivers repeatable, safe and quiet cuts, every time. Simply place the can and press start, the saw will do the rest.

End Size Range: 200-209
Electrical Power Required: 240VAC 50-60Hz
Weight: 16.0 kg
Saw Blades: 100 x 22 x 0.5mm, Carbide
Speed: 2500rpm
Operation: Automatic



Benefits: Very little deformation to can, easy quick cutting of beverage cans.

<https://industrialphysics.com/product/tbs-a1c-automatic-twin-blade-saw-beverage-cans/>

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Beverage Can Stripper for 2 can heights

- Quickly strips cover hook from beverage cans for Wrinkle/Tightness rating.
- Allowing to “strip” seams of full cans; no need to open, empty & clean them!
- For one can diameter (200, 202 or 206) with 2x can heights.
- Easily replaceable blades and bearings.
- Special stripping head with 3 blades
- Auto-motor with start/stop switch; 220V - 50Hz - 350W.
- For more info: [click here](#)



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External gauges with connection to (SEAMetal) PC

Seam thickness gauge/variable angle/Mitutoyo

- Resolution 10 micron
- Designed to measure seam thickness always under right chuck wall angle.
- For beverage can/seam diameters between 50 - 77mm
- Connected via Mitutoyo clock & multiplexer to USB port PC



Material thickness gauge/Mitutoyo

- Resolution 1 micron.
- Designed to measure body & cover material thickness.
- Can be used as “stand-alone” or with communication to PC.
- Connected via Mitutoyo clock & multiplexer to USB port PC
- See photo below middle.



Countersink gauge/Mitutoyo

- Resolution 10 micron
- For can diameters 50 -120mm
- Special measurement tip for CDL ends
- Easy positioning, digital indication
- Short length for beverage cans, longer length for food cans.
- Can be used as “stand-alone” or with communication to PC.
- Connected via Mitutoyo clock & multiplexer to USB port PC
- See photo below right.



Can height gauge/Mitutoyo

- Resolution 10 micron
- For beverage and non-beverage cans.
- Standard can heights with 12,5mm range/height difference
- Optionally: extension table for other can heights
- Equipped with heavy granite base.
- Can be used as “stand-alone” or with communication to PC.
- Connected via Mitutoyo clock & multiplexer to USB port PC
- See photo below right.



Flange width gauge / Mitutoyo

- Resolution 10 micron
- Designed to measure flange width values of non-seamed cans.
- For can seam diameters between 47-154mm and max flange width values 5mm
- Can be used as “stand-alone” or with communication to PC.
- Connected via Mitutoyo clock & multiplexer to USB port PC
- See photo below left.

