GLOBAL GAUGE CORPORATION

Crop Optimization System

Eagle Eye Vision System Add-On Solution

MADE IN AMERICA, RESPECTED WORLDWIDE

+1 937 254 3500 | sales@globalgauge.com

The Crop Optimization System

Eagle Eye Vision System Add-On

GGC's Crop Optimization Software uses Head/Tail imaging from the Vision System combined with mill inputs to generate the optimum position for shearing operations.

Key Integrations:

- Level 2 mill parameters
- Operator input controls
- Shear Control System (SCS) interface
- Real-time feedback loop

MAXIMIZE

Yield Recovery

MINIMIZE

Crop Loss

OPTIMIZE

Shear Positioning

How It Works

Automated Crop Optimization Process

1 → **2** → **3** → **4**

Image Capture
Head/Tail vision imaging

Data Integration
Level 2 + Operator inputs

Optimization
Calculate optimal cut point

Shear Control
SCS executes cut

↺ **Continuous Feedback Loop: Actual vs Optimal Cut Analysis**

MILL INPUTS
- Bar thickness and width
- Optimization criteria
- Cut bias parameters
- Tip/Dip length settings

OUTPUTS
- Optimized cut line position
- Cut length calculations
- Weight estimations
- Crop loss metrics

ANALYTICS
- Crop Loss Reports
- Ideal vs actual comparison
- Statistical analysis
- Trend visualization

Operator Interface

Intuitive Control & Visualization

Visual Cut Display

Optimized cut lines shown directly on Head/Tail thermal images

Real-Time Parameters

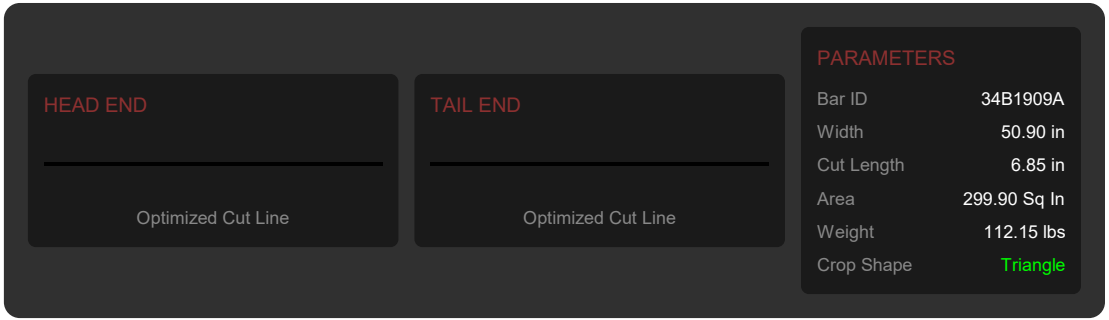
Bar ID, thickness, width, area, weight displayed live

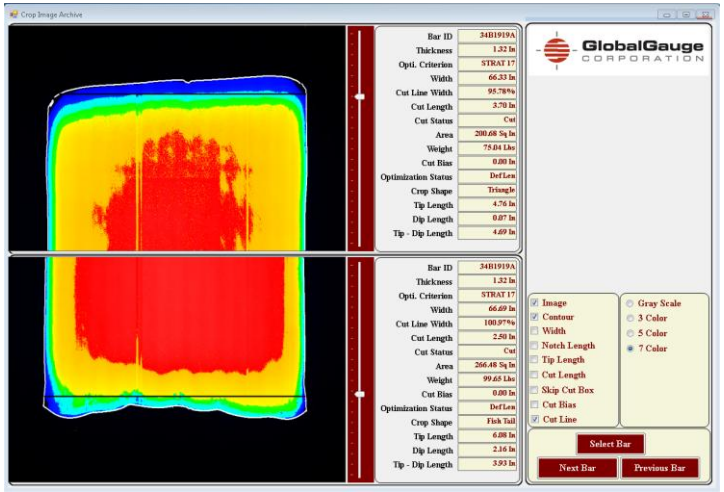
Shape Detection

Automatic crop shape identification: Triangle, Round, or Irregular

Configurable Display

Multiple color modes: Grayscale, 3-Color, 5-Color, 7-Color thermal





Crop Loss Analytics

Comprehensive Reporting & Analysis

The Crop Loss Report compares ideal optimum cut points with actual shear positions, calculating weight differentials and tracking performance trends.

HEAD END
Crop Length, Loss, Weight

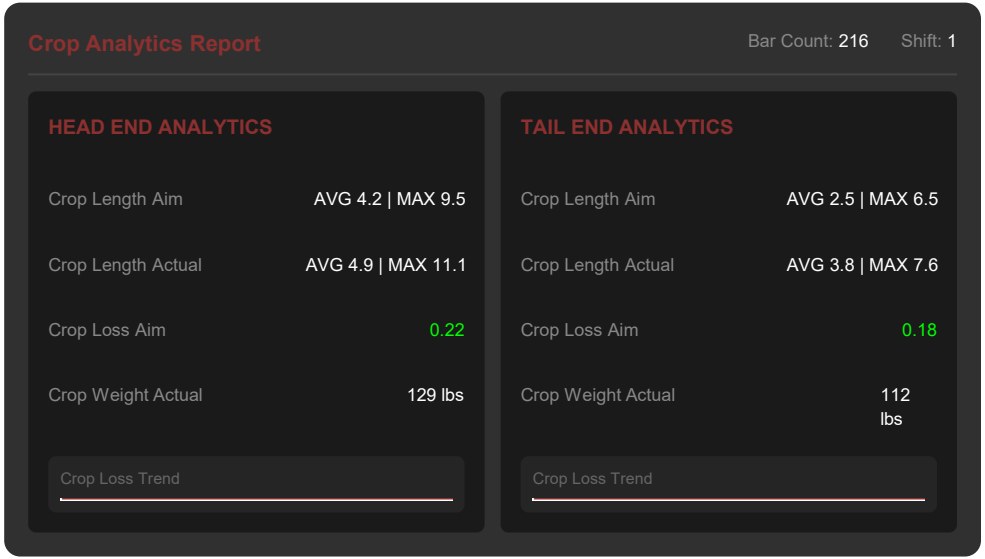
TAIL END
Crop Length, Loss, Weight

Report Metrics Include:

- AVG, MIN, MAX, STD DEV statistics
- Aim Data vs Actual Data comparison
- Crop count by type: Fixed, Vision, Skip, Abort
- Historical trend charts

Shift-based reporting

Date/time tracking



Thermal Profile Analysis

Advanced Hook Detection and Temperature Mapping

Camera-based thermal profiling provides detailed temperature distribution across the full bar width for precise analysis.

TEMPERATURE RANGE

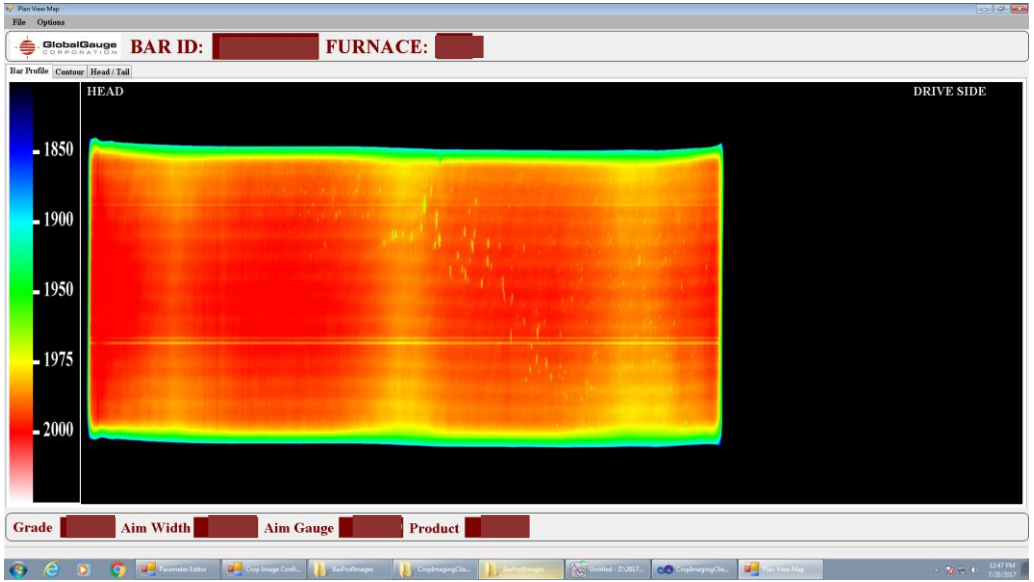
1900°F - 2000°F

Analysis Features:

- Head-to-tail temperature mapping
- Drive side to operator side profile
- Hook detection at bar ends
- Historical profile comparison

BAR ID: 35B1281A Thermal Profile Analysis

HEAD ← → TAIL Grade: DA08 | Width: 36.14"



Eagle Eye Width Gauge Integration

GlobalGauge CORPORATION

Compatible Hot Mill Series

The Crop Optimization System integrates seamlessly with GGC's Eagle Eye Width Gauge product line for hot mill applications.

HM3000 - Series

Hot Mill Vision System Platform

Width and centerline measurement for standard hot mill applications.

KEY FEATURES

- Single or 2-camera configuration
- Real-time strip width
- Centerline deviation

1 HM3100

MCA Configuration

Mono hot mill configuration optimized for strip steering applications.

KEY FEATURES

- Single camera design
- Strip steering accuracy
- Crop optimization ready

2 HM3200

SCA Configuration

Stereoscopic configuration enabling advanced 3D and thermal analysis.

KEY FEATURES

- 2-camera stereoscopic
- 3D surface analysis
- Thermal profile mapping

Note: Crop Optimization software is fully compatible with all Eagle Eye Hot Mill Series gauges. Contact GGC for system integration details.

GLOBAL GAUGE CORPORATION

Ready to Optimize Your Crop Loss?

Let us show you how the Crop Optimization System can improve your yield.

PHONE

+1 937 254 3500

EMAIL

sales@globalgauge.com

WEB

www.globalgauge.com

Global Gauge Corporation

3200 Kettering Blvd | Moraine, OH, USA 45439

MADE IN AMERICA, RESPECTED WORLDWIDE