

LS-ST-209 WHEAT BRAN SPECK ANALYZER

Automated analysis of bran specks and flour color



The LS-ST-209 Wheat Bran Speck Analyzer is a state-of-the-art instrument designed for comprehensive quality analysis of wheat flour. Manufactured in accordance with the **GB/T27628-2011** standard, this analyzer provides rapid and accurate measurements essential for quality control in the milling industry.

Key Features

- **Touchscreen Interface:** Intuitive and easy-to-use graphical interface for seamless operation.
- **Comprehensive Measurement Capabilities:**
 - Bran speck content
 - Black spot content
 - Whiteness
 - Color values (L, a, b)
- **Rapid Analysis:** Provides results within 20 seconds.
- **Fully Automatic Self-Check:** Ensures instrument integrity and reliability before each test.
- **Image Storage:** Saves multiple photos of each sample for detailed review and record-keeping.
- **Area Ratio Measurement:** Accurately measures the area ratio of bran specks and impurities.
- **Flour Color Measurement:** Assesses the overall color characteristics of the flour.
- **Ash Content Prediction:** Estimates ash content based on color and speck analysis.
- **Sieve Leakage Detection:** Identifies potential issues with the sieving process.
- **Sample Parameter Recording:** Records all relevant parameters for each sample analysis.
- **Simulated D65 Illuminant:** Provides consistent and accurate color measurements.
- **High-Resolution Imaging:** Image sensor resolution exceeding 1 million pixels for detailed speck detection.
- **Large Display:** 10.5-inch LCD display for clear visualization of results and images.
- **Connectivity:** Connects to a printer for immediate hard copies of results.
- **Reporting:** Generates comprehensive Excel reports for data analysis and archiving.
- **Precision:**
 - Whiteness indication error ≤ 0.5
 - Repeatability accuracy $\Delta E^*ab \leq 0.2$
- **Warm-up Time:** 30 minutes for optimal performance.

Technical Specifications



Parameter	Specification
Manufactured According to	GB/T27628-2011 Standard
Interface	Touchscreen
Measurement Time	< 20 seconds
Whiteness Indication Error	≤ 0.5
Repeatability Accuracy ΔE^*ab	≤ 0.2
Display	10.5-inch LCD
Image Sensor Resolution	1 million pixels
Illuminant	Simulated D65
Warm-up Time	30 minutes
Connectivity	Printer, Excel Reporting
Features	Self-check, Photo Save, Area Ratio, Ash Prediction, Sieve Leakage Detection