

MILLGRAIN

MACHINERY INDUSTRIES • HIGH PERFORMANCE TECHNOLOGIES

AI Powered Grain Analyser

Advanced digital grain quality testing for accurate, fast and reliable classification.

AI Based Analysis

Multi-Grain Support

Non-Destructive

Touch Screen

Make in India

13

YEARS OF EXPERIENCE
In grain processing & machinery

PRODUCT PROFILE • 2026



MG 1800 AI GRAIN ANALYSER

Digital Quality Intelligence

Millgrain Grain Analyser provides digital testing of physical quality parameters for grains and related commodities — designed to reduce subjectivity in manual inspection and support standardized, screen-based result generation.

The system supports paddy, wheat, rice, millets, pulses, mustard and sunflower, with a scalable software framework ready for additional commodities and future modules.

WHAT IT DELIVERS

- AI-assisted grain quality assessment
- Fast testing cycle — operational 1 to 5 minutes
- AGMARK, FAQ, BIS & FSSAI terminology alignment
- Evidence-backed digital reporting
- Storage, reporting and integration readiness



Millgrain MG 1800 — approved product image

In Real-World Operation

From sample placement to on-screen results — captured at a live Millgrain deployment.



01 Installed Unit

MG 1800 on the operational floor



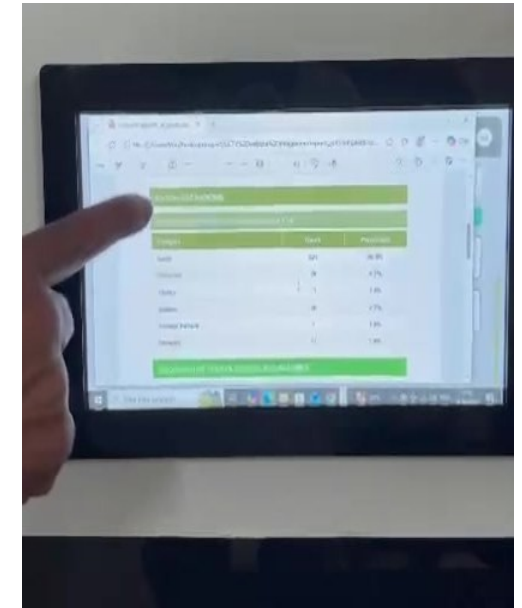
02 Sample Preparation

Grain sample loaded for analysis



03 Batch Analysis Screen

Touch-based testing workflow



04 Digital Report

Category-wise quality breakdown

How the Grain Analyser Works

Camera-based imaging + intelligent processing + digital reporting in one practical cycle.



01

Sample Placement

Grain sample is placed for digital examination



02

Image Capture

Camera-based imaging records grain details



03

AI Processing

Software segments overlapping grains



04

Classification

Defect & morphology metrics are measured



05

Result Display

Results shown, stored, and exported

PROCESS HIGHLIGHTS

- Camera acquisition captures full sample surface
- AI separates overlapping grain presentations
- Defect & morphology classified digitally
- Results stored, displayed, and exported

TYPICAL PARAMETERS EVALUATED

- Admixture, impurities, broken & damaged grains
- Discoloured, shrivelled & affected kernels
- Fortified rice kernel content
- Size & category-wise classification outputs

Key Features

Nine capabilities that make Millgrain production-ready for quality operations.



AI Based Analysis

Intelligent segregation and interpretation of physical grain quality



Non-Destructive

Digital physical analysis without damaging the sample



Touch Screen

User-friendly interface for operation and result viewing



Weighing Support

Integrated weight-based logic for physical parameters



Export Ready

Reports export in PDF, XLS, JSON and related formats



Cloud / Server Ready

Prepared for centralized storage & enterprise integration



Online & Offline

Works across varied environments with connectivity options



Scalable

Framework expandable for future grain types and modules



Evidence-Based

Category-wise images support verification and validation

Advantages of Millgrain

Operational benefits that translate directly into better grain decisions.

OPERATIONAL VALUE

- ✓ Reduces subjectivity in manual grain inspection
- ✓ Improves consistency across operators and locations
- ✓ Accelerates test-to-result cycle
- ✓ Supports auditable, traceable decision-making
- ✓ Grounded in practical grain processing experience

MARKET & STANDARDS FIT

- ✓ Designed considering Indian grain varieties
- ✓ Helps standardize quality reporting
- ✓ Supports future ERP, WMS and cloud integration
- ✓ Suitable for institutional and industrial use
- ✓ Expandable software framework

Faster, more standardized quality decisions — built on 13 years of grain processing experience.

Applications

Six sectors where Millgrain supports reliable grain quality decisions.



Procurement Centres

Digital acceptance and grading support for grain purchase workflows.



Food Laboratories

Reliable physical quality evaluation with screen-based result presentation.



Rice & Dal Mills

Incoming lot assessment and in-process quality monitoring.



Warehouses

Quality reference and inspection record-keeping support.



Research Institutes

Morphology and category-wise testing environments.



Government Programs

Standardized grain evaluation for public systems and agencies.

Specifications at a Glance

Core technical positioning of the Millgrain AI Grain Analyser.

PARAMETER	PROFILE
Technology	AI / machine vision-based digital grain analysis
Testing Type	Non-destructive physical quality testing
Analysis Time	Operational range: 1 to 5 minutes (sample to result)
Standards Alignment	AGMARK, FAQ, FSSAI and BIS terminology-oriented assessment
Image Logic	Camera-based acquisition with digital separation & analysis
Data Handling	Storage, audit trail support, centralized server / cloud ready
User Interface	Touch screen with keyboard & mouse supported interaction
Outputs	Digital reports exportable in PDF, XLS, JSON and related formats
Verification	Category-wise images / reference visuals for validation
Expandability	Scalable platform for future grain modules & enhancements

Why Millgrain

Millgrain Machinery Industries brings 13 years of experience in manufacturing, grain processing solutions, assaying support and analyser-oriented applications.

Our portfolio spans seed processing machines, rice mill machines, dal and pulses products, colour sorters, millet machines, grain cleaning, paddy dryers, parboiling & boilers, nut processing plants and feed mill solutions.

13

YEARS

of industrial experience in
grain processing & machinery

MILLGRAIN STRENGTHS

- ✓ 13 years of industrial experience
- ✓ Deep understanding of grain processing workflows
- ✓ Customer-focused customization mindset
- ✓ Quality-oriented manufacturing philosophy
- ✓ Service-backed deployment approach
- ✓ Wide product ecosystem in processing machinery

MILLGRAIN

Let's partner on your
grain quality mission.

Millgrain Grain Analyser is positioned as a professional, India-focused digital grain quality assessment solution — blending industry experience, modern analysis logic and structured reporting into one practical platform.



Thank you.

CONTACT DETAILS



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