

Smart Solutions For Automatic Chip Classifying

The GRADEX Chip Classifier is the original fully automated chip classifier. It features PC-controls, automated test reporting, and the ability to operate in the lab or in the wood yard. With a proven track record of trouble-free, reliable operation in mills throughout the world, the GRADEX Chip Classifier is ideal for controlling chip quality.



Fully Automated

- Requires no operator intervention at the end of the cycle to clear oversize as required in other classifiers.
- Up to six samples can be automatically fed, classified, and discharged without any operator intervention.

Requires No Adjustments or Routine Cleaning

- Thickness decks utilize fixed rods to establish spacing and thus requires no calibration.
- Requires no routine cleaning of drum mechanism.

Low Cost, Accurate Chip Classification

- Operators are free to perform other tasks while multiple samples are run.
- Allows close monitoring of purchased chips and chip per performance.
- Simple design requires minimal maintenance.
- Eliminates manual steps in testing where errors often occur.
- Improves consistency by handling each sample in exactly the same way every time.

GRADEX Software Provides Easy Operation and Record Generation

- Easy to operate Windows[®] based software.
- Data stored in Access[®] database for easy export to mill's central computer system.
- Data exportable in ASCII format to spreadsheet programs for customized reports.
- Standard reports include trend lines of classification for each of your suppliers.
- Eight sample identification fields ensure uniform data input with custom pull-down menus.
- Blinding-free operation maintained by brush replacement pop-up notices.
- Classification data presented in tabular or graphic formats.

Provides Up to 6 Size and/or Thickness Separations

- Utilizes all six surfaces of the GRADEX drum.
- Each surface can be arranged with a perforated plate or a rod deck for size and/or thickness separations.



Classifies Samples of up to 10,000 grams

- Multiple samples can be combined into a single classification.
- Individual samples of 2,500 grams can be fed manually or automatically with the optional AutoFeed feature.



Cycle Time Set Manually or Automatically

- Operator can manually set fixed cycle time for each separation.

OR

- AutoTime can determine the cycle time. Continuous weight readings are taken and the test is ended when a pre-set rate of change is reached. The same degree of separation is achieved for all samples and test time is reduced from the fixed cycle setup.

Sequence of Operation

A typical cycle for a single sample is as follows:

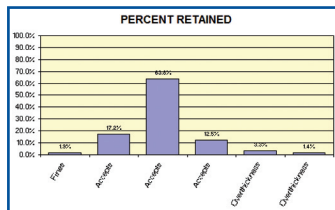
1. Operator selects pre-set test configuration and enters sample information.
2. Operator loads samples. Tests are ready to run and will require no more operator time.
3. System loads sample into classification drum. Drum is arranged with up to six decks to provide required size and/or thickness separation.
4. Drum begins reciprocating motion to perform the first thickness and/or size classification.
5. Material passes through the deck, is weighed, and recorded in database.
6. Drum automatically rotates to next largest deck and process is repeated and proceeds for all sides of drum.
7. Sample classification is completed, results are saved to database—can be sent to mill central computer system and printed automatically.

| Deck Opening | Fraction Description | Brushing | Shake Duration | Percent Patented | Min | Max |
|------------------|----------------------|----------|----------------|------------------|-------|-------|
| Screen | | | 00:15 | | | |
| Screen Alarm Rod | Overthickness | Short | 00:15 | 00:00 | 00:10 | 00:10 |
| Screen Alarm Rod | Overthickness | Medium | 00:15 | 00:00 | 00:10 | 00:10 |
| Screen Alarm Rod | Accepts | Long | 00:15 | 00:00 | 00:10 | 00:10 |
| Screen Alarm Rod | Accepts | Long | 00:15 | 00:00 | 00:10 | 00:10 |
| Screen Alarm Rod | Accepts | Medium | 00:15 | 00:00 | 00:10 | 00:10 |
| Final | Fines | | 00:00 | 00:00 | 00:00 | 00:00 |

Test Configuration settings mentioned above in Step 1.

| Deck Description | Fraction Description | Weight Value | Percent Patented | Cumulative Percent | Percent Passes |
|------------------|----------------------|--------------|------------------|--------------------|----------------|
| Screen Alarm Rod | Overthickness | 43.8 | 1.4% | 1.4% | 98.6% |
| Screen Alarm Rod | Overthickness | 97.4 | 3.3% | 4.7% | 95.3% |
| Screen Alarm Rod | Accepts | 372.4 | 12.9% | 17.2% | 82.4% |
| Screen Alarm Rod | Accepts | 1899.2 | 63.8% | 81.0% | 18.6% |
| Screen Alarm Rod | Accepts | 511.9 | 17.2% | 98.2% | 1.4% |
| Final | Fines | 95.4 | 3.3% | 100.0% | 0.0% |
| Total | | 2977.4 | 100.0% | | |

The database of results that is automatically generated as mentioned in Step 7.

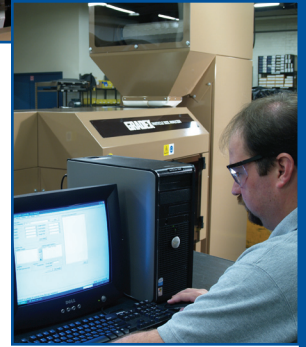


A sample graph of the statistics generated from the data collected.



AutoFeed and AutoDischarge

- AutoFeed and AutoDischarge allow operators to load up to six samples with only one setup.
- AutoDischarge is optional.



GRADEX™ CHIP CLASSIFIER Technical Data

Dimension Manual.....77" wide, 38" deep, 55" height
with AutoFeed..... 120" wide, 38" deep, 89" height

Weight Manual.....1,550 pounds
with AutoFeed.....2,650 pounds

Power – Electrical 115 VAC, 60 Hz, 12.8 amp*

Air.....90 psi, 1.0 cfm

Balance Capacity 16,000 gm

Balance Resolution.....0.1 gm

*220 VAC, 50 Hz CE available

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