

COFFEE BEAN GRADING SIEVES & ACCESSORIES

MAKE ALL SELECTIONS AND THEN CLICK SUBMIT

HAND SCREENS are quality constructed, using premium kiln dried wood. The finished wooden frames are designed to stack on top of each other.

Mild steel perforated plate. Round holes in 64th inch increments

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Round hole perforated plate apertures are custom punched with .004" tolerances, in to premium 20 gauge sheet metal plate, using computer numerical control (CNC) machine tools, eliminating partial holes.

WOOD FRAME FULL SET 10/64th" - 20/64th" MILD STEEL ROUND HOLE

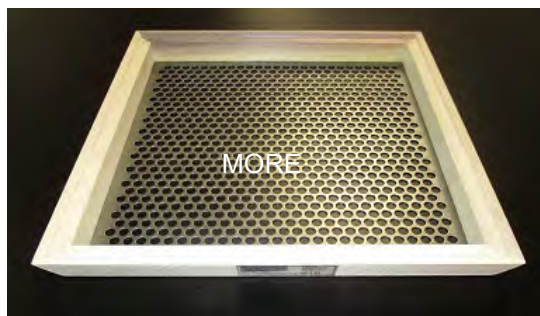
WOOD FULL SET 10/64th" - 20/64th" STAINLESS STEEL ROUND HOLE

CABINET FOR SIEVE SET

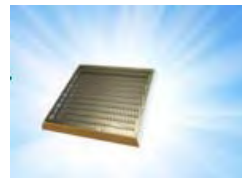
STAINLESS STEEL FRAME BEAN GRADING SIEVES Round hole perforated plate bean grading sieves. For manual and machine sieving.

304 Stainless Steel. Round holes in 64th inch increments.

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Now available in
Stainless Steel!
Optional Cabinet



8 inch STAINLESS STEEL FRAME FULL SET 10/64th" - 20/64th" STAINLESS STEEL ROUND HOLE w/pan & lid

8 inch STAINLESS STEEL FRAME FULL SET ISO 4150 STAINLESS STEEL SIEVES FOR MANUAL OR MACHINE SIEVING Includes 20, 19, 18, 17, 16, 15, 14, 12 1/2, 12, 10, 7 ROUND HOLE DESIGNATIONS **ISO 4150 ANNEX A** w/pan

Includes 14, 13, 12, 11, 10, 9, 8 SLOTTED HOLE DESIGNATIONS (PEABERRY) **ISO 4150 ANNEX B**

STAINLESS STEEL FRAME COFFEE GRIND SIEVES

304 Stainless Steel. Wire mesh sieves for particle sizing with coffee grinds. For machine sieving.

ASTM & ISO Certified mesh sieves

[ONLINE PRICE](#)



Manual Hand Shaker for
coffee grinds
Includes 19 sieves ASTM
DESIGNATIONS



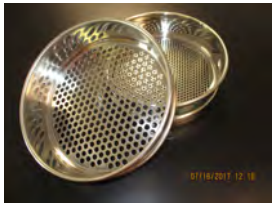
8 inch STAINLESS STEEL FRAME FULL SET COFFEE GRIND ANALYSIS SIEVES Includes ASTM Designations 12, 16, 20, 30, 40, 50. Includes lid & receiver

Hand Sieve Shaker with 19 sieves

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SIEVE SHAKERS & COFFEE

Selecting the right sieve shaker for your coffee needs is fairly simple.



Sieve shakers are used for grading coffee beans by size, using round hole perforated plate sieves, ISO 4150,



and for providing particle size distribution for coffee grinds, using wire mesh sieves ASTM E-11/ISO 3310.

Most of the early coffee grind studies were done using RoTap Sieve Shakers, because that was the technology 50 years ago. The RoTap Sieve Shaker is designed to simulate sieving by hand, because that is the simplest direct standard. They are very effective at separating particles, but require a sound isolation cabinet because of the high noise levels.



Because of that, a number of manufacturers, including the makers of the RoTap, have developed sieve shakers using vibration, as a quieter solution. Many employ advanced digital controls, that allow the user to program the amplitude, and intermittent sieving functions. (Sieve shaker stops and starts, to allow particles to rest, and then be agitated during the process)

If you plan on using a sieve shaker for grading green coffee beans by machine, (Hand Screens are also available for sieving manually) there are 8 inch diameter (200 mm) sieves, and 12 inch (300 mm) available. It takes more time for the same amount of coffee beans to drop through a stack of 8 inch sieves, than a stack of 12 inch sieves, because there is less surface area, and the other beans get more in the way.

However, you can only fit 4 or 5 full height 12 inch sieves on a shaker, so many opt for half height. Half height 8 inch sieves, may not be able to hold enough beans to provide for an effective distribution analysis. No matter what, you have to figure out how many sieves you need to run at one time, and get a sieve shaker that allows you to do what you need. **Sieve capacities are listed below.**

Another factor in time and accuracy, is how the sieve shaker operates. 3D Motion is a premium vibratory shaker feature, that ensures the particles are moved in a manner that facilitates finding the right hole size. RoTaps use a 2D rotating tapping motion to achieve that result.

Over time, many sieving programs fall by the wayside, either because of noise, banged up sieves, or lapse in understanding the basics of sieve analysis.

The first step is to establish a benchmark, and find the actual endpoint of your sieve analysis. **The way to do this is sieve your material, until with one additional minute of sieving, the amount retained on any one sieve changes less than 1% (.1% for audits).** Once you have an endpoint you know how long to sieve for. This is important, because when you ask many people, how long they sieve for, you'll hear 5 minutes, or 15 minutes a lot, without any explanation.

COFFEE LABORATORY

ANALYTICAL EQUIPMENT

www.coffeelabequipment.com

Click Image for Pricing



FTS0200



FTL0200



FTL0300



M200



D200



EFL



RX-29



RX-30



L3P

| | MFR | MODEL | MAX SIEVE DIAMETER | 3-D MOTION | MAX FULL HEIGHT SIEVES | MAX HALF HEIGHT SIEVES | ADVANCED DIGITAL CONTROL | BEANS | GRINDS |
|--------------------------|-----------|--------------|--------------------|------------|------------------------|------------------------|--------------------------|-------|--------|
| BROCHURE | Filtra | IRIS FTS0200 | 200 mm / 8 inch | Y | 7 | 14 | Y | Y | Y |
| BROCHURE | Filtra | IRIS FTL0200 | 200 mm / 8 inch | Y | 8 | 16 | Y | Y | Y |
| BROCHURE | Filtra | IRIS FTL0300 | 300 mm / 12 inch | Y | 5 | 8 | Y | Y | Y |
| BROCHURE | Endecotts | M200 | 200 mm/ 8 inch | N | 8 | 16 | N | Y | Y |
| BROCHURE | Endecotts | D200 | 200 mm / 8 inch | Y | 8 | 16 | Y | Y | Y |
| BROCHURE | Endecotts | EFL | 300 mm / 12 inch | Y | 6 | 12 | Y | Y | Y |
| BROCHURE | WS Tyler | RX-29 | 200 mm/8 inch | N | 6 | 13 | N | Y | Y |
| BROCHURE | WS Tyler | RX-30 | 300 mm/12 inch | N | 4 | 8 | N | Y | Y |
| BROCHURE | WS Tyler | L3P | 3.5 inch | Y | 6 | NA | Y | N | Y |

If you are planning on using a sieve shaker for coffee grinds, there are 6 basic sieves generally used.

ASTM 12 16 20 30 40 50 60 . How much coffee is retained on each sieve, determines whether the coffee grinds will provide optimal extraction levels, for different coffee profiles, like regular, drip, AutoDrip Silex, fine, turkish, espresso, etc....

Endpoint determination is especially important here, for each coffee sample type. Advanced digital controls, including programmable adjustable amplitude, and intermittent sieving, will allow the user to program repeatable profiles for different coffee types.

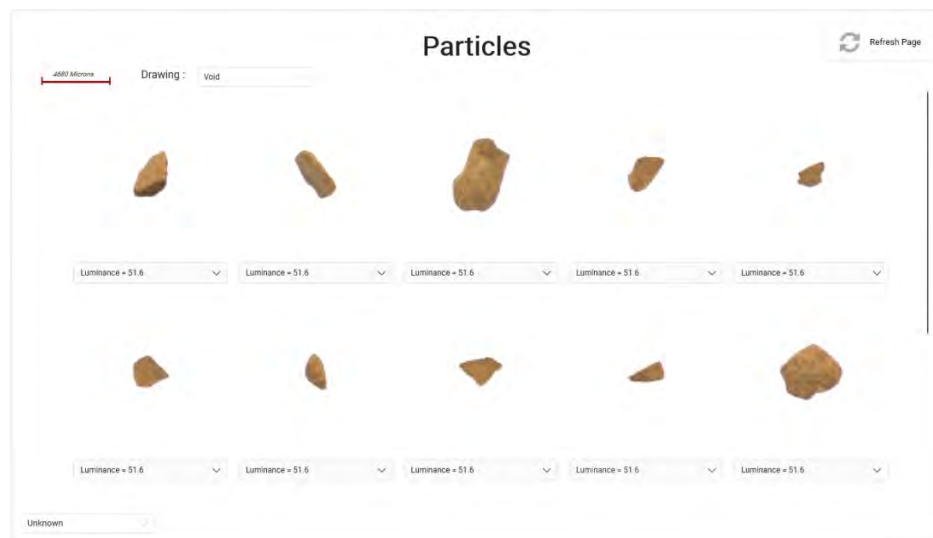
We included the sonic sifter for coffee grinds, as our best (also most expensive) sifter for coffee grinds. From our own testing, it takes about 2 minutes for a test, requires only ten grams of sample, and has small 3.5 inch clear acrylic sieves. You can run 10 tests on this, in the time it takes to run one test on a standard sieve shaker. The results match up with particle size analyzers using digital image analysis, very well.

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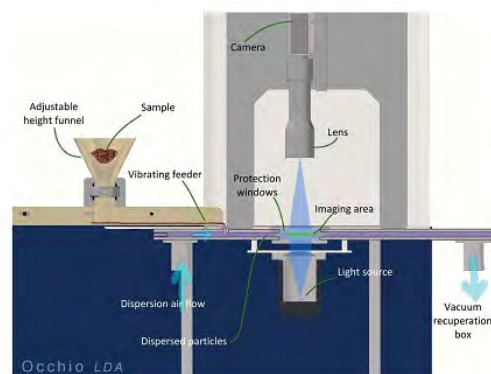
Digital Image Analysis takes a picture of every particle, and provides shape and size analysis, to provide size parameters. This allows its' results to match results obtained through sieve analysis. It also has the capability, of simply counting pixels, which results would match those provide by laser diffraction.

It is important to understand that, like RoTaps, laser diffraction was the earliest method employed, and is still used by many labs. Laser diffraction results, differ from sieve analysis results, as well as results obtained from dynamic digital analysis. The reason for this, is that laser diffraction analyzers are unable to distinguish shape.

Coffee particles are not perfectly round. In the below example, laser diffraction would read the particle size, but if the particle fell through a sieve aperture, it may fall through on it's narrow side, or even on a diagonal.



See how it works



COFFEE MOISTURE ANALYZERS

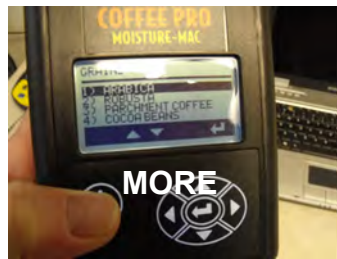


MORE

COFFEE PRO MOISTURE MAC

Easy to use.
Rugged portable design.No
sample preparation required.
Averaging facility
GREEN COFFEE,
PARCHMENT, COCOA

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LANGUAGE OPTIONS
IN ENGLISH,SPANISH,
PORTUGUESE, GERMAN,
AND FRENCH



MORE

Comes with soft carry
case, and computer
connection cable



MORE

SINAR BEANPRO

AUTOMATIC MOISTURE AND
DENSITY MEASUREMENT
RECOGNIZED WORLDWIDE

NEW! Software upgrade for
measuring density according
to ISO 6669

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MLOG- Capable of storing
up to 1000 readings

Easy Transfer of Data via
Email or WhatsApp

Compatible with 10S and
Android operating system



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SINAR DRYPRO INLINE MOISTURE ANALYZER

PRODUCTCONTACT
SENSOR

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Optional hard
case and field
density scale

641 MA210X2ICA



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Thermogravimetric moisture analyzer
Designed to match oven standards,
but in minutes, instead of hours.
Direct method can be used on all
coffee sample types. Sample must be
ground. Measures true TDS

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SINAR SACK PRO MOISTURE ANALYZER



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SINAR LSA 8100 NUT & CACAO MOISTURE ANALYZER



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MOISTURE PROFILES CAN BE INTERCHANGED BETWEEN ANALYZERS

MOISTURE MAC

MOISTURE MAC KIT (W SCALE & HARD CASE

SINAR BEANPRO

MA210 THERMO GRAVIMETRIC ANALYZER

SP6600 SACKPRO

LSA8100 LARGE SEED ANALYZER

DRYPRO INLINE MOISTURE ANALYZER

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SAMPLE PREPARATION



DELUXE SAMPLE DIVIDER BOERNER TYPE

The BOERNER TYPE Gravity Divider is made to meet F.C.I. and B.I.S. Requirements.

Material flowing components are made by a special process to give the unit a smooth finish made without welding or joints. It is used to reduce the size of a grain/seed sample into two halves, each exactly representative of the original sample.

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PARCHMENT HULLER

The Parchment Coffee Sheller is a great aid in the inspection of samples in the coffee processing laboratory. In less than 5 minutes, a sample of 250g of pergamino coffee will be converted into oro (gold) coffee in order to determine quality and rendition.

All contact parts in the sheller chamber are anti-corrosive material. Time (0-180 seconds), speed (0-1725 RPM) and shelling pressure are adjustable according to your needs.

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LSG33 Grinder

The LSG33 is a commercial Grinder to be used by professional users. The LSG 33 Coffee Lab Grinder grinds whole bean coffee into a container (not provided) with a variable stepless grind setting dial, from super fine to coarse coffee powder.

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BOERNER SAMPLE DIVIDER

PARCHMENT HULLER

LSG 33 GRINDER

COMPAK PK100 GRINDER

MAHLKONIG EK43

MAHLKONIG EKK43



COMPAK PK100

GERMAN QUALITY

Constructed of cast aluminum

Micrometric regulation

Turkish to French Press grind range

Double ventilation system

Bag shaker extension

Aluminum front regulator

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COMPAK[®]
COFFEE GRINDING COMPANY



MAHLKONIG EK43 / EKK43

Powerful Combination:

Exceptionally robust grinder with high grinding capacity Suitable for grinding different sample types, and different degrees of fineness, such as EG Filter, Espresso, and turkish-fine.

EKK 43:

Two independent grinders for different applications Saves space, time and costs

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SAMPLE ROASTING



SINGLE DRUM SAMPLE ROASTER Temperature-
Heat source switches on and off via solenoid valve; +/- 2°C

- Gas or electrical heating options
- Equipped standard with an additional thermocouple for data logging (A chaff cyclone is optional because it has a built-in fan, generating airflow that transports chaff out through the exhaust pipe)

- For premises where the exhausts can't be transported out to the exterior, and for the purpose of 100% cleanliness, an optional cyclone is recommended.

- Front-access cooling tray and green bean feeder included
- Includes timer to precisely manage your roast

- Each machine includes a maintenance tool-kit



TWO DRUM SAMPLE ROASTER

Our coffee sample roasters allow for complete roasting flexibility for small capacities of 80-100g. Traditionally, these mini roasting machines are the preferred choice of coffee exporters, importers, traders and roasters as a means to perform quality inspection of samples intended for purchase.



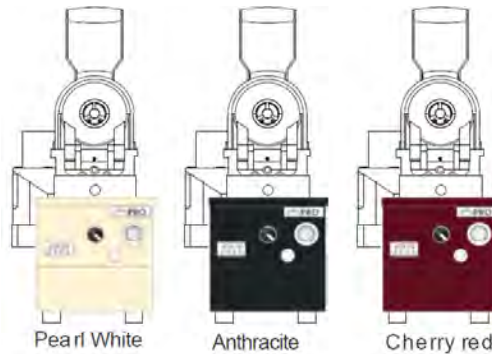
Built to resemble the larger industrial drum roasting machines, it also makes the ideal roaster to learn the art of roasting. The solid drum provides the user with an even coffee bean development and uniform roast. Both, control over gas supply and airflow, enables the user to obtain the desired roasting time lying between 8-15 minutes.

Separate chaff collecting cyclone and cooling fan (for 2, 4 and 6 drum models)

FOUR DRUM SAMPLE ROASTER



DRUMS HEAT VOLTAGE COLOR



Different sized cog wheels for 50 or 60 HZ to assure repeatable roasting

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COLOR & ROAST DEGREE



LIGHTTELLS CM100 PLUS ROAST DEGREE ANALYZER

The CM-100 + Roast degree analyzer supports quick measurements, with high accuracy measurement results, and long battery working hours (up to 6 hours of continuous use) It is easy to use, and portable.

SCAA STANDARDIZED

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COLORTRACK REFLECTOMETER FOR ROAST DEGREE

Colortrack is part of a new wave of laser technology breakthroughs, made possible by pc based data acquisition hardware and software. The ColorTrack Laser Module transmits and receives some 10,000 individual readings in a one second scan. Since the recommended scan time is 20 seconds, that leaves about 200,000 readings to be analyzed per test.

SCAA BEST NEW PRODUCT AWARDED!

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COLOR SOFTWARE

CM100+ ROAST DEGREE ANALYZER

COLORTRACK BENCHTOP REFLECTOMETER FOR ROAST DEGREE

COLORTRACK REAL TIME ROAST ANALYZER

CM200 COMBO ROAST DEGREE GRIND SIZE ANALYZER



LIGHTTELLS CM200

The CM-200 portable Coffee Roast Degree/Uniformity/Grind-Size Analyzer is designed to measure the roast degree, roast uniformity for both whole and ground bean, and can also analyze the distribution of grind size.

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COFFEE PARTICLE SIZING & COLOR SOFTWARE

Connects to a standard scanner. Measures particle size, and color in RGB Values

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COLORTRACK REAL TIME ROAST DEGREE

The ColorTrack Real Time Application was made to monitor and record real time data which is generated during a coffee roast, from various sensors. (ColorTrack Laser Module, drum and exhaust thermocouples, Humidity Sensors, etc...)

This information is displayed in both graph and table views. The roast data can be easily accessed through the track panel.

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CAFFEINE - TDS - WATER ACTIVITY - TASTE



MORE

LIGHTTELLS CA-700 Caffeine Analyzer The CA-700 can analyze the Caffeine and Chlorogenic acid of coffee, and it can show you the recommended daily amount of coffee you should have.

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SCAA BEST NEW PRODUCT AWARDED!

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INSENT TASTE ANALYZER

Taste Sensing system and its applications

-Method: Taste sensor using a lipid membrane to mimic the human tongue.



LIGHTTELLS CAFFEINE ANALYZER ATAGO POCKET

BARISTA

INSENT TASTE ANALYZER

LIGHTTELLS WATER ACTIVITY METER



MORE

ATAGO POCKET BARISTA REFRACTOMETER FOR TDS

2003 "Good Design Award"

2004 "Venture Technology Awards (Excellence)"

2005 "Technology for Food Industry Award"

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LIGHTTELLS AW METER

1.Supports both Quick mode and Equilibrium mode

2.Easy to calibrate with salt (single point)

3.Touch panel

4.Metal housing (quickly equilibrate with ambient temperature)

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NEXU CUPPING TABLE

Two-tiered lacquered wood top fixed on a 50 cm rotator plate for durability and smooth spinning.
DIAMETER 1000 mm
HEIGHT 1100 mm
NET WEIGHT: Approximately 90kg / 198 lbs

Qty

NEXU TASTERS SPITTOON

NEXU CUPPING TABLE

TAPPED DENSITY ANALYZER

SET OF 12 SPOONS & CUPS



TAPPED DENSITY ANALYZER FOR POWDERS

The Tap Density Tester is used to measure the tap density of powders. It consists of touch panel, printer, electronic balance, tap assembly, motor and glass cylinders. It is designed to meet all currently known international standards.



CUPPING BOWLS & SPOONS

Bottom Diameter 2 Inches

Capacity 7 oz.

Color Bright White

Dishwasher Safe Yes

Edge Style Rolled Edge

Features Lead Free

Material Porcelain

Microwavable Yes

Oven Safe Yes

Shape Round

Type Tasting Cups

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Coffee Laboratory 589 Rappahannock Drive White Stone Va 22578 TEL (804) 435-55222