




GRAIN, FLOUR, FEED, OIL AND FOOD ANALYSIS SYSTEMS



RELIABLE, ECONOMIC AND IDEAL SOLUTIONS

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COMPANY PROFILE



Our company was founded by Bora Dağlıoğlu on 23.03.2016. He was born in 1980 in Adana. Graduated from Çukurova University, Department of Mechanical Engineering in 2001, In 2004, she completed his post-graduate education at Çukurova University, Department of Industrial Engineering, Engineering and Technology Management.

He has 20 years of business life and more than 15 years of sector experience. He has carried out Sales and Project activities on Grain Storage Systems in more than 30 countries in Turkey and abroad. With our strong and experienced team and the support, we receive from you, we are drawing a rapidly rising chart since its establishment.

In addition to its activities in the field of Grain Storage Systems, PERTEN INSTRUMENTS, DELTA INSTRUMENT, PFEUFFER GmbH, DELMHORST INSTRUMENTS and DRAMIŃSKI S.A. are a fully qualified dealer and technical service point of these companies.

We serve more than 20 countries. Our goal is to offer you the best service! To increase the efficiency of all processes in order to compete at the international level in line with the continuous improvement approach keeping customer satisfaction at the highest level by assuring that you always supply the same quality products by applying the system effectively.

VISION AND MISSION

- Our main target is to determine our customers' expectations from our products and services and to offer a service that is above their expectations.
- As a team within the framework of our management strategy, we are responsible for achieving these goals.
- We believe that mutual trust and responsibility are important in the continuity of our commercial relations.



www.evalab.net
www.evasilo.com

▶ Application Areas...



Grain Trade and Storage

We assist in the quality control of co-operatives, grain traders, inspection laboratories and state institutions, from small volume warehouses to large port facilities.



Food

Our quality control solutions for foods are diverse and have a wide range of applications according to the production area: bakery products, dairy products, meat production, potato chips, pasta, fast food, cereal and more.



Flour Production

Our wide range of products, we can make all of the wheat and flour quality tests. Falling Number, production control NIR devices, Glutomatic and doughLAB are just some of them.



Dairy Productions

It is possible to test dairy products such as cream, butter, cheese and more with one device in the laboratory or production line. We can measure tissue, gelation and sensory properties with our functional devices.



Processing of Oil Seeds

On-line and In-line NIR production control systems, by identifying moisture, oil and more to optimize the production process to ensure that they comply with the desired properties of the final product.



Meat and Meat Products

Improve production standardization by analyzing fat, moisture, protein and more meat in the production line and laboratory with our NIR devices.



Seed Production

Identify the best seed types earlier by reducing marketing time. Test in the laboratory and real-time production line with the NIR device. Using Microdough-LAB, you can test the bread quality of wheat in small samples.



Bakery Products and Fast Food

Test raw materials, optimize production and ensure the quality of your products. Starting with flour quality, with on-line and in-line NIR systems, we help you achieve the highest level of efficiency and profitability, from product structure and volume.



Pets Food

Increase product quality and reduce costs at the same time. Our on-line and on-line NIR production controllers control quality, finished dry and wet food.



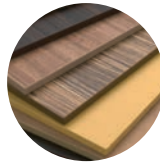
Starch Production

Use our Rapid Visco Analysis (RVA) device and NIR devices to qualify raw materials to ensure that they have the proper properties of starch.



Feed Production

NIR analysis systems in the production line. Test energy, protein and more in raw material purchases. Optimize formulas, optimize your production process and ensure the quality of the final product.



Wooden Panels and Composites and Resin

Test the CARB approved formaldehyde emission test, resin usage, moisture and more for wood-based product manufacturers with on-line and in-line NIR production control systems.



SAMPLING - TRUCK SAMPLERS Eva-Sp001 & Eva-Sp002

The Pick-up Probe, which maintains the suction during descent and take-off, provides sampling from all sizes of cereals. It is very important to take samples from different locations of the truck during the grain receiving to be able to make a quick and correct quality analyze. Two types of models are available. electric and hydraulic type sampling probe.

Technical Specifications:

EVA-SP001: Electrical Truck Sampler Probe

EVA-SP002: Hydraulical Truck Sampler Probe

Control: Remote control

Material: Galvanized steel

Sampling Distance: 2 m. - 3 m. Can be set at installation.

Timing Time: The desired time according to the distance to which the sample will be transferred (sec)

Sample Quantity: Optional

Sample Transfer Distance: Max. 50 m.

(Suction may vary according to motor power)

Rotation: 180 ° Standard

Sampling: Adjustable automatic and manual

Sample Receiver: Cyclone

Power Support: 380-400 VAC Triphase

Main Engine: 0,18 kW

Suction Motor: 1.6 - 2.2 kW (Distance-varying models)

Standard Weight: 650 kg.

Electrical Panel Weight: 40 kg.

Sample Transport Distance: 25 - 50 m.





SAMPLING TRUCK SAMPLERS

Rakoraf CEE

The Rakoraf CEE Core Sampler is the fastest and easiest method to take an accurate sample from an open trailer. Correct sampling directly from truck with remote control. The air circulation system with the patented CONVAC system secures a correct sample eliminating the "vacuum cleaner effect". Each time the probe is inserted into the load a sample is taken.

- Correct sampling - no vacuum cleaner effect
- For any flowable product
- Well tried and tested
- Fair to both buyer and seller
- Leading in Europe
- Patented Model

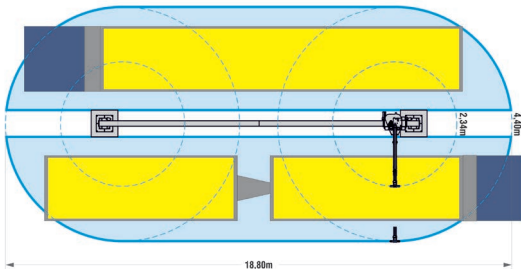


Rakoraf 2 / Rakoraf 2 LINEAR

The sampling procedure with a Rakoraf 2 LINEAR Core Sampler is the fastest and easiest method to take an accurate sample from an incoming batch.

Complete and representative samples from drawbar combinations, semi-trailers and railway trucks. The Rakoraf 2 is working with the patented CONVAC air circulation system, which secures a correct sample eliminating the "vacuum cleaner effect"

Rakoraf 2 LINEAR covers a sampling range of 18.8m x 8.8m, so that drawbar combinations or semi trailers on two tracks can be sampled completely.



PROCESS SAMPLER DVB200 and DVB300

Automatic sampler for cereals, feedstuffs, seeds and similar bulk flow solids

Benefits:

- 100% representative sample, thereby maximising control.
- Optimum productivity - the possibility of error in sample taking is eliminated as sampling is automatic
- Rapid payback period, with the benefit of continued improved contributions thereafter.
- Reliable, maintenance free construction.
- In addition to cereals will sample feedstuff, seeds, rice, soybeans, milled products - in fact most bulk flow solid.
- Remote control facility.

Technical Data

p/n	model	A	B	C	D	kW	Mass	In-/Outlet	Tube
1710 0080	DVB 200	700	350	405	400	0,06	36kg	200/200	Ø50
1710 0081	DVB 300	1080	550	620	550	0,18	85kg	300/300	Ø76



MECHANICAL SAMPLERS Sample Spear Pns

Application: Aluminium sample spear for the easy manual sampling from vehicles or grain stores.

Sample Taking: Insert the closed sample spear vertically or diagonally into the grain. By turning the handle, the sampling chambers gradually open up from the bottom to the top which guarantees an absolute average sample over the entire length. The sample spear has an opening at the top of the handle through which the entire sample flows out.

Technical Data

MODEL	PNS-84	PNS-88	PNS-88	PNS-88	Pellets
LENGTH	1,45m	2,0m	2,5m	3,0m	1,3m
DIAMETER	38mm	38mm	38mm	38mm	50mm
OPENINGS	8	8	8	8	8
WEIGHT	2,0kg	2,5kg	3,0kg	3,5 kg	2,3kg
P/NO.	1720 0300	1720 0310	1720 0315	1720 0318	1720 0320

Independent of the length of the spears, the openings are arranged in the lower part of approx. 1.10 m. The PNS sample spear had been intensively tested and included in the ISTA rules in 2010 for all small seeded species.

Abbreviations: ISTA International Seed Testing Association

Sample Spear Pfeuffer

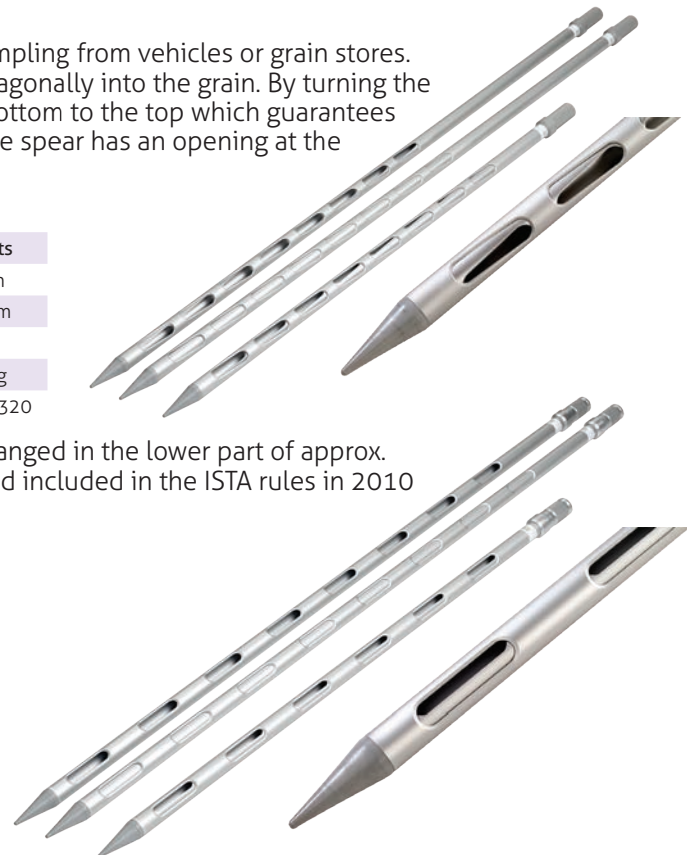
Mechanical sample spears

- Easy handling
- Sturdy construction
- Easily decomposable
- Outlet opening in the handle
- Low weight
- Length: 1.5 m respectively 2 m
- Sample: about 600 g respectively 800 g

Can be used in all possible storage places of cereals and pellets, like granaries, storage halls, trucks, railway waggons and similar

Application:

Mechanical samplers are used for obtaining average samples. They allow the sampling up to a depth of 2 m.



Technical Data

LENGTH	1,5m	2,0m
DIAMETER	40 mm	40 mm
OPENINGS	6	8
SAMPLE QUANTITY	600 g	800 g
WEIGHT	1,8 kg	2,3 kg
P/NO.	1720 0500	1720 0510

SAMPLE DIVIDING Vario Sample Dividers

Purpose: Dividing samples of grain, seed and other granular products. Accurately dividing to the desired sample size in one operation. Copy sample option on some models.

Models: 1G - 1F - 2H - 4H - 8H and including Multi-divider 6 pieces of models are available.

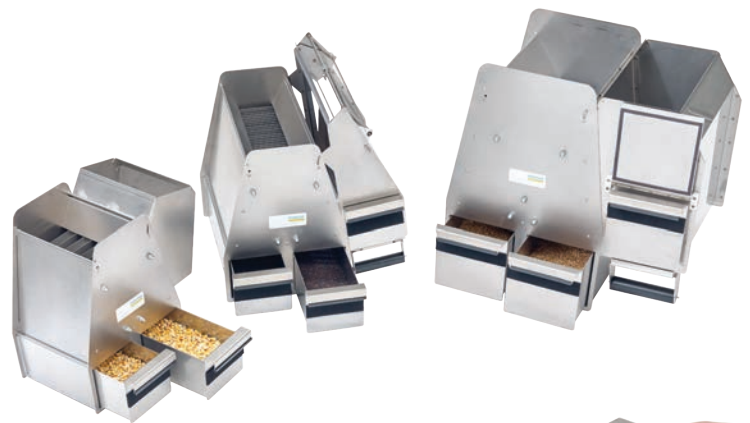


VARIO 2H

VARIO 4H-8H

Riffel Sample Divider

- Manufactured from stainless steel, no static electricity.
- The construction prevents the escape of dust.
- The hinged container prevents failure in operation.
- The Divider is manufactured without any loose parts.
- Operator friendly.



AVAILABLE MODELS:

p/no.	sample size	hinged cont.	no./splits	dim./splits	weight
1745 0020	3 litre	1	10	19,2	8,0
1745 0021	3 litre	1	18	10,3	8,5
1745 0022	5 litre	1	18	19,1	13,0
1745 0023	5 litre	2	18	19,1	13,0
1745 0019	5 litre	1	34	9,8	13,5
1745 0024	5 litre	2	34	9,8	13,5
1745 0025	10 litre	1	10	29,0	15,0
1745 0018	10 litre	2	10	29,0	15,0
1745 0026	10 litre	1	18	15,2	15,5
1745 0027	10 litre	3	18	15,2	15,5
1745 0028	18 litre	3	18	28,2	23,6
1745 0029	18 litre	3	34	14,5	24,0



SAMPLE CLEANERS

Sample Cleaner Automat

Fully automatic cleaning and weighing
 Selection by sample gives an accurate assessment of the total consignment. Selection based on sample makes it possible to accept quality grain or alternatively reject that which does not meet the specified standards at intake. The sample cleaner is very versatile and can be used on a wide range of products ranging from oil seed rape to maize and beans.

- Fully automatic cleaning - no maintenance.
- The screens are self cleaning being equipped with the well proven ball cleaning system.
- New locking system for sieves secure quick change of sieves.
- Vibration free operation.



MLN, SLN3 & SLN4 Sample Cleaner

Selection by sample gives an accurate assessment of the total consignment. Selection based on sample makes it possible to accept quality grain or alternatively reject that which does not meet the specified standards at intake.

The sample cleaner is very versatile and can be used on a wide range of products ranging from oil seed rape to maize and beans.

Models:

- MLN - check impurities.
 This model is equipped with deawner, aspiration and sieves for straw and sand.
- SLN - check impurities and grade.
 The model SLN 3 has one additional grading sieve with ball cleaning system.
 The model SLN 4 has two additional grading sieves with ball cleaning system.



MLN



SLN3



SLN4

▶ BULK DENSITY Hectolitre Measuring System-Hecto Grain Tester

- Bulk density for barley, oats, rye and wheat.
- Robust design (stainless steel), 0.5 liters
- Simple and easy operation
- Mobile and power supply-independent
- Exact measurements



▶ SAMPLE MILLS Milomat

Perfect adaption to the instruments HE 60/ HE 90

- Suitable for all types of cereals
- Sturdy and maintenance-free
- Easy to use



▶ Pellet Mill

Crushing of feedstuffs in the form of pellets, bruised grain, cake and granulate.

Coarse reduction of feed pellets/cakes to enable the division of a representative sample for analysis. Then this working sample can be fine ground for say NIR analysis. Some NIR/NIT units can analyse the working sample without further preparation, thus saving time. In connection with the automatic sampling of feedstuff at raw material reception or production the crusher can be built onto the automatic sample divider Vario model 1F.

- Low noise
- High grinding capacity 100-200 kg/h
- 3 kg grinding capacity in a single pass
- Collection tray with a capacity of 5 liters
- Also suitable for pellets rich in fat



NIR ANALYZER Granolyser Hl

New NIR analyser with bulk weight module. Granolyser HL is a fully automatic NIRS analysing instrument for grains, which determines a sample of 600 ml within 55 sec. The instrument feeds the sample continuously to the sensor, and fills and weighs a defined volume in order to determine the bulk density (specific weight).



Granolyser

NIR analysis of grains. Made for trade, storage and production. Get all parameters of your sample quickly, precisely and economically.

- Quick results in less than 40 seconds
- Big sample volume: 600 ml
- High res. NIR diode array technology
- More than 1000 single scans per sample
- Coloured 8" LCD touch screen display
- Integrated printer
- Attractive price



GRAIN MOISTURE METER Granomat

Fully automatic moisture meter made for Seed Production, Grain Trade and Stores, Warehouses, Malting and Feed Plants.

Measurement Principle: The Granomat is according to the international technical recommendations of the OIML (Organization for approved measuring); It belongs to category A, class II.

- No Grinding
- Fully Automatic
- Integrated Printer
- High Precision*
- Easy Handling
- Big Sample Volume

Calibrations:

Cereals: Wheat, rye, barley, oats, triticale, durum wheat, maize, spelt, cargo, rice, paddy

Oilseeds: Sunflower seeds, rape, linseed, peanuts

Legumes: Peas, soya beans, beans

Others: Hemp, pumpkin seed, sesame, vetch

- Further calibrations on request!



APPROVABLE MOISTURE METERS

HE 60 / 90

A measuring method that has been tried and tested thousands of times – reliable and accurate for harvesting, drying and storage.

- Easy to operate
- Exact measuring results
- Automatic temperature correction
- Corresponds to the current Standard Weights and Measures Law for moisture in Germany
- Also suitable for flour and bruised grain

Technical Data

Model	Voltage	Dimensions	Weight	Configuration
HE 60	230 V, 50 Hz	470x250x120 mm	6 kg	Battery
HE 90	230 V, 50 Hz	540x270x130 mm	9 kg	Printer



PORTABLE MOISTURE METER

HE 50

Precision for the most important reference variable in combine harvesting – reliability during threshing, drying and storage

- Easy to operate
- Fast measurement
- Automatic temperature correction
- Wide measuring range of more than 30 % moisture content
- 14 products can be read off directly

Technical Data

Product	Power supply	Dimensions	Weight
HE 50	9 V monobloc battery	220x120x65 mm	1.7 kg



HE lite

The moisture content is crucial for determination of the correct harvesting time

- High measuring range
- Simple menu navigation
- Well-tried measuring principle
- Average calculation
- Adjusting facility

Technical Data

Product	Power supply	Dimensions	Weight
HE lite	3x1.5 V batteries (AA Mignon)	200x82x85 mm	0.9 kg



HFM

Measuring lance for hay and straw moisture

Quick determination of moisture and temperature of pressed hay and straw

- Robust stainless steel lance, length 50 cm
- Moisture from 9 % to 50 %
- Temperature from -10 °C to +100 °C
- Quick display
- Holding, counting and average function

Technical Data

Product	Power supply	Dimensions	Weight
HFM	9 V monobloc battery	772x70x48 mm	0.65 kg



LABORATORY DEVICES

Seed Counter - Contador & Contafill

Count and Fill all seeds from 0,3 mm up to 15 mm

- High counting speed
- Precise count
- Easy to use
- Quiet operation
- Flexible
- Fills all kinds of paper or plastic bags, plastic or glass bottles
- Choice of required quantity
- Checks for missing bags or bottles

Feed Containers

No. 1 for rape, seeds and small seeds.

No. 2 for cereals, sunflower seeds and rye and

No. 3 for maize, field beans and peas.



Contador 2 & Contafill 2

5-Channel seed counter & Filling station for Contador 2

High speed counting and filling

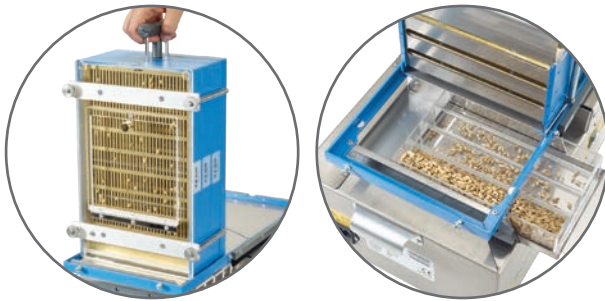
- Count and fill at high speed
- Counting rates of up to 5000 grains/min
- Compact design, light weight
- Flexible due to easily changeable feed container
- All functions can be controlled via PC software



Laboratory Sorting Machine Sortimat

Sorting and appraisal of grain

- Determination of the full barley proportion
- Tilttable sieve stack and sieve cleaning
- Available with 3, 4 or 5 sieves
- Robust and solid construction
- Official method in accordance with MEBAK, EBC and ICC



Measuring Device For Malt Friability Friabilimeter

Quick and easy evaluation of the brewing value of malt for breweries and malthouses

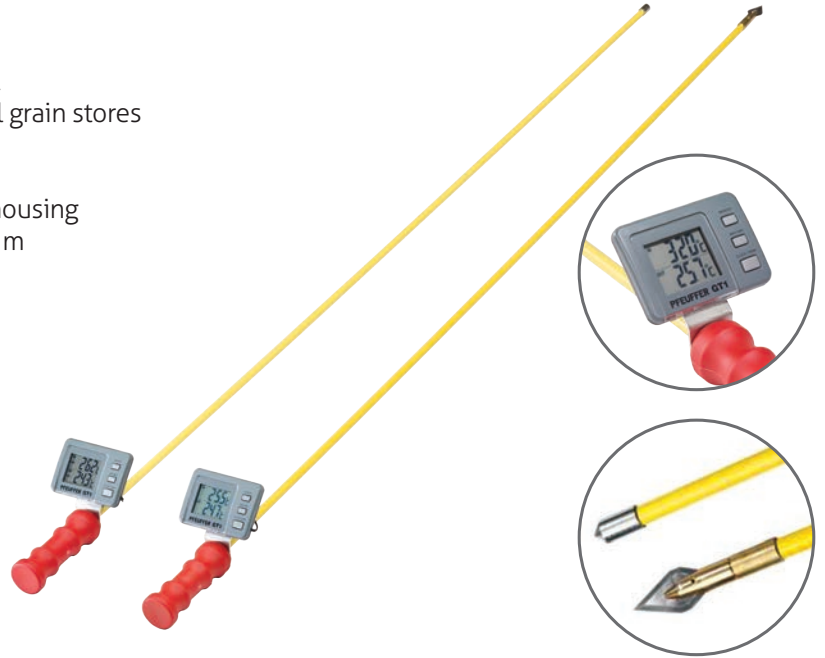
- Uncomplicated mechanical analysis
- Practical brewing value statement
- Simplification of the malt analysis
- Robust and solid construction
- Internationally recognized method (IM)



▶ TEMPERATURE MEASURING PROBE GT 1

Monitoring the temperature in bulk material
Versatile assistant in agriculture and in small grain stores

- Large LCD display
- Temperature sensor in measuring tip and housing
- Robust probe made from GRP, 0.5 m to 2.8 m
- Conical or knife tip
- Simple and easy operation



▶ CORN PARTING APPARATUS Cornsheller

It allows to grind corns in the form of a ram.



COTTON MOISTURE METER C-2000

With the C-2000 moisture meter from Delmhorst, you can effectively measure moisture content, ensuring high-quality cotton every time.

PRODUCT FEATURES

- Bright, clear digital display.
- Four separate scales for testing lint cotton, seed cotton, wool and viscose/rayon.
- Audible, adjustable alarm alerts you when your pre-selected MC has been reached.
- Averages up to 100 accumulated readings.
- Built-in calibration check.
- Moisture Range: 4%-16% on lint cotton; 6%-20% on seed cotton; 12.3%-25.2% on wool and 6%-22.4% on viscose/rayon.
- Built-in connector accepts any Delmhorst electrode.
- Size: 8" x 3" x 1 5/8".
- Weight: 10 oz.
- Rugged construction ensures years of reliable use.
- Sturdy plastic carrying case.
- 9V battery.
- 1-year Warranty.



HAY MOISTURE METER F-2000

The F-2000 is great for hay producers looking to enhance quality control. The F-2000 checks hay moisture in the window or in bales, and comes with the same accuracy and clarity as the FX-2000!

PRODUCT FEATURES

- Bright, clear digital display.
- Averages up to 100 accumulated readings.
- Displays average and highest of accumulated readings.
- Moisture Range: 6%-40% on hay.
- Built-in calibration check.
- Audible, adjustable alarm alerts you when a pre-selected MC has been reached.
- Size: 8" x 3" x 1 5/8".
- Weight: 10 oz.
- Rugged construction ensures years of reliable use.
- Optional sturdy plastic carrying case.
- 9V battery.
- 3-year warranty



▶ PORTABLE MOISTURE METER TwistGrain PRO

Smart portable moisture meter. The device consists of a measuring compartment and a screw cap for sample compression.

- Accuracy ± 0.5 %
- USB
- Automatic temperature compensation
- Temperature probe (optional)
- 3 Years warranty



**3 YEARS
WARRANTY**

▶ GMM mini

Small handy device thanks to which you will be able to determine your grain moisture very quickly.

Invest in modern moisture meter!

Thanks to this device you will improve profitability of your farm:

- You will know the quality of your grain
- You will be able to control moisture of your grain before selling it
- You will save time and money connected with deductions when selling your grain
- You will be able to store your grain safely for a long time
- You will decrease risk of heating the grain in silos and appearance of mould
- 3 Years warranty



**3 YEARS
WARRANTY**



FLOUR QUALITY CONTROL INSTRUMENTS

Roller Type Laboratory Mill - RM 1300

- Rolls are to grind the wheat, a specially designed sieve to separate the standard flour and the bran.
- 2 different collectors stocking flour and the bran separately.
- Performs the test with the flour efficiency of %55-70 depending on the wheat variety and the moisture content.
- Possibility to grind dampened wheat up to %16-17 moisture content.
- Possibility to see grinding by the glass front panel.
- Possibility to adjust the feeding rate according the moisture content or particle size of the wheat.
- 380 Volt 50 Hz. Electricity



Hammer Type Laboratory Mill - HM 210

- A hammer type laboratory mill which is used for sample preparation for Gluten washing,
- Falling Number ,Protein and NIR applications.
- Grinds grains, pellets, meals,spices, oilseeds feeds and forages
- Reduced clogging by high performance motor
- Reduces sampling error
- Long mill life
- Convenient and rapid sample preparation
- It is built on a metal construction.



Hammer Type Laboratory Mill - HM 310

- A hammer type laboratory mill which is used for sample preparation for Gluten washing, Falling Number ,Protein and NIR applications.
- Grinds grains, pellets, meals,spices, oilseeds,feeds and forages
- Reduced clogging by high performance motor
- Motor is inside the box,thus Low noise level.
- Long lasting,durable,
- Cyclone outlet with filter bag to minimize dust
- Airflow feeder regulates feeding and facilitates grinding of large samples .
- Specific production for corn.
- Door switch provides safe operation
- Convenient and rapid sample preparation
- It provides possibility to grind samples up to 25% moisture content.
- 300 gr in 30-50 seconds depending on sample type and the moisture content.
- Standard sieve is 0.8 mm for Falling Number,Gluten washing system and NIR analyses. Other sieves are also available upon request. (0.5-1-2 mm)
- By selecting different sieves the particle size distribution in the sample can be varied.





Touch Screen Gluten Washer - GW 3200

NEW

- New design, Touch Screen Gluten Washer.
- Conforms to Official World Standards (AACC No:38-52, ICC No: 155&158, 137/1).
- Automatic Dual Chamber System, Ease of Use.
- Stainless steel box. No corrosion!
- Measures wet gluten quantity of the wheat meal, wheat flour, durum, semolina and wheat gluten.
- Measures both ground grain and flour at breeders, grain traders, flour mills, flour users, wheat gluten manufacturers, pasta manufacturers and bakeries.
- Two different test methods in the same system.
- Rapid analysis. A complete test takes less than 7 minutes.
- Adjustable mixing and washing time by setting menu on Touch Screen Display.
- Possibility to adjust mixing time from 5 up to 75 seconds and washing time from 60 to 900 seconds.
- Robust Design.
- Specially designed holes at the bottom panel enabling device to discharge the water, in case of water pump tubes deterioration.
- Segregation of grain and flour in terms of wet gluten amount



Touch Screen Gluten Index - GW GI 3030

NEW

- New design with 5 inch Touch Screen Display,
- Displays real rotation rate on display,
- Ease of use, thanks to Touch Screen Function
- Centrifuges the wet gluten using prepared standardized method (ICC and AACC Standard methods).
- Gluten is centrifuged to force wet gluten through a specially constructed sieve under standardized conditions.
- The special sieve allows for the collection of both the part of the gluten that remains on the sieve and the part passes through the sieve.
- Performs the test for 1 minutes rotating at 6000 rpm.
- Stops automatically with a warning signal.
- Locking safety lid provides safe operation.



Falling Number - FN 8100

- New design Falling Number, 7 inch Touch Screen Display on the side.
- 3 different themes of display
- All function buttons are one touch away. Easy to use.
- Measures FN conforming to international standard (ICC and AACC Standard methods).
- Single Analysis System
- Segregation of sound and sprouted grain to save money and ensure quality
- Possibility to perform;
 - Classical Falling Number Test in wheat flour and meal.
 - Falling Number Test in wheat flour with Altitude Correction,
 - Falling Number Test in meal of wheat,durum,rye and barley with Altitude Correction,
 - Fungal Falling Number Test to detect alpha amylase enzyme activity which is added to flour
- Automatic altitude correction and automatic recalculation of FN results
- Moisture FN,Moisture GR,Mean Value ,Liquefaction Number
- Calculation of Blends, Sample ID, LAN connection, Optional Print Out and Arshive



Falling Number - FN 8200

- New design Falling Number, 7 inch Touch Screen Display on the side.
- 3 different themes of display
- All function buttons are one touch away. Easy to use.
- Measures FN conforming to international standards (ICC and AACC Standard methods).
- Dual Analysis System
- Segregation of sound and sprouted grain to save money and ensure quality
- Possibility to perform;
 - Classical Falling Number Test in wheat flour and meal.
 - Falling Number Test in wheat flour with Altitude Correction,
 - Falling Number Test in meal of wheat,durum,rye and barley with Altitude Correction,
 - Fungal Falling Number Test to detect alpha amylase enzyme activity which is added to flour
- Automatic altitude correction and automatic recalculation of FN results
- Moisture FN,Moisture GR,Mean Value ,Liquefaction Number
- Calculation of Blends, Sample ID, LAN connection, Optional Print Out and Arshive.



Gluten Washer - GW 2200

- Measures wet gluten quantity of the wheat meal, wheat flour, durum, semolina and vital wheat gluten.
- Measures the wet gluten amount conforming to international standards (ICC and AACC Standard methods).
- Dual chamber system
- Conforms to Official World Standards (AACC No:38-52, ICC No: 155&158, 137/1)
- Stainless steel box. No corrosion!
- Measures both ground grain and flour at breeders, grain traders, flour mills, flour users, wheat gluten manufacturers, pasta manufacturers and bakeries.
- Completely automatic .
- Two different test methods in the same system.
- Rapid analysis.



Gluten Index - GI 2030

- Blue Color LCD Display
- Measures Gluten Strength
- Possibility to see the test time, company name, ambient temperature on the color display.
- Centrifuges the wet gluten amount using prepared standardized method (ICC and AACC Standard methods).
- Performs the test during 1 minutes rotating at 6000 rpm.
- Stops automatically with a warning signal.
- Locking safety lid provides safe operation
- Two test cassettes are provided.
- Indicates protein quality and gluten strength



Dry Gluten - DG 2020

- Dries gluten of wheat and flour samples
- Operating temperature is 150 C .
- Temperature is kept stable by means of a thermostat.
- Teflon coating provides easy removal of sample being tested.
- Possibility to see the result in 4 min.
- Microprocessor controlled
- 220 V 50 Hz electricity.
- Stops automatically warning with a bip signal



Falling Number - FN 7100

- Large color TOUCH PANEL display with 140*180 mm dimensions (No other FN has touch panel display in the World!).
- Touch Panel facilitates to see all test functions on the same display and prevent user from going through many submenus to pass another test mode.
- Measures FN conforming to international standards (ICC and AACC Standard methods). Single Analysis System
- Segregation of sound and sprouted grain to save money and ensure quality
- Possibility to perform;
- Classical Falling Number Test in wheat flour and meal.
- Falling Number Test in wheat flour with Altitude Correction,
- Falling Number Test in meal of wheat, durum, rye and barley with Altitude Correction,
- Fungal Falling Number Test to measure alpha amylase activity of the flour which was improved by alpha amylase.
- The information regarding the Fungal Falling Number is for optimizing use of additives and calculation of malt or fungal additives.



Falling Number - FN 7200

- Large color TOUCH PANEL display with 140*180 mm dimensions (First ever in the World!). Touch Panel facilitates to see all test functions on the same display and prevent user from going through many submenus to pass another test mode.
- Measures FN conforming to international standards (ICC and AACC Standard methods).
- Automatic Dual Analysis System
- Segregation of sound and sprouted grain to save money and ensure quality
- Possibility to perform;
- Classical Falling Number Test in wheat flour and meal.
- Falling Number Test in wheat flour with Altitude Correction,
- Falling Number Test in meal of wheat, durum, rye and barley with Altitude Correction,
- Fungal Falling Number Test to measure alpha amylase activity of the flour which was improved by alpha amylase. The information regarding the Fungal Falling Number is for optimizing use of additives and calculation of malt or fungal additives.



Shakematic - FN 7

Remove operator influence on results and reduce total analysis time by using the Shakematic FN7 sample mixer



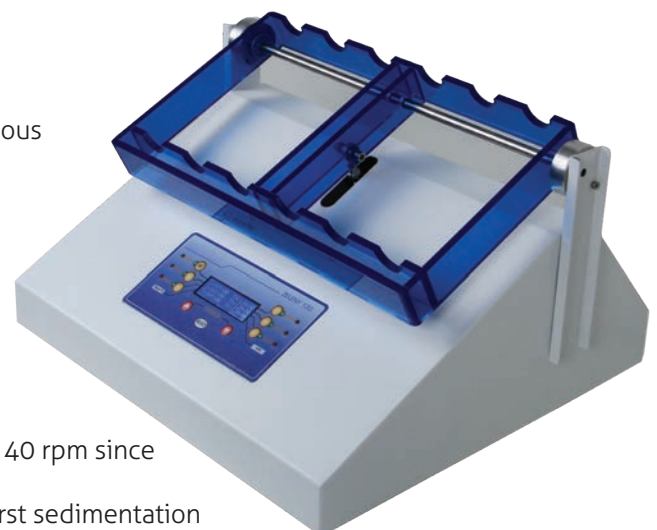
Sieve Shaking Device - S 100

- It is for controlling the sieving system in the mill and it also helps us to adjust the rolls. This you can check the last production.
- It is adjustable to put different numbers of sieves according to those in the mill.
- It also gives us the opinion about particle size and the colour of the flour.
- The device has 6 frames and a collecting container .Number of pulleys can be increased upon request.
- Frames may be of wooden or stainless steel.
- Possibility to determine particle size and their ratio to others
- Orbital movement, eccentric system
- Digital control unit displays test time.
- Test ends warning with a bip signal.
- Start, Stop, Timer options. Easy to set any requested size of silk sieves and wire sieves
- Diameter of frames is 30 cm, The height of frames is 3 cm
- The collecting container can be mounted under any pulley in order to be able to research requested analysis
- Net weight is 52 kg and there is no need to fix the machine.



Sedimentation Device - ZL 120

- The system is used for determining gluten quality and hazardous insects-bug damage.
- It has a digital graphic LCD display which has 6 lines.
- It has 6 timers which are available to set any duration
- Every timer has a led being active when it is operated.
- The device also gives us opportunity to run only the timer without operating the engine. The ambient temperature can be seen during the test
- When the test duration is over, it stops automatically warning with a signal.
- It operates the test with standart angle and with the rate of 40 rpm since device has 40rpm induced motor.
- There are two steps following each other. After measuring first sedimentation value, you go for the delayed one. If delayed one is smaller than the first one, that means the wheat is affected by insects or has weak protein quality.
- Including all accessories such as 25,50 ml. automatic pipets, 2 glass flasks each 1 lt, 6 tubes each 100 ml. Diemnsions are 440*220*360mm



Furnace - PLF 100/3

- Temperature range is up to 1100°C
- They are front loading for easy operation and double skin construction to maintain a cooler outer case.
- Up to 1300°C, open wire based models are produced.
- Important advantage of these models is that element change is very easy and economic.
- Low thermal mass insulation leads to a very impressive heat up rate as well as efficient insulation.
- Temperature control provided either by PID or Programmable controls depending on customer requirements.
- Chamber exhaust vent is a standart till 1300°C and should be specially required for furnaces over 1400°C.
- A vertical counter balanced door, keeps the hot insulation away from operator, while opening upwards.
- There is always a safety switch which isolates power when door is opened.



Boerner Sample Divider

- Made up of brass and copper.
- No corrosion.
- The sample to be analyzed is placed in the hopper.
- It is dispersed over the cone.
- It devides the grain into two equal parts homogeneously



Dosing Machine Stainless Steel ED110

- Stainless steel body
- Protects food hygiene
- Available for dosing wheat gluten, soy flour and other ingredients to be added in large quantities .
- 9.45-46.02 dm³/hr accurate dosing capacity
- SEW brand induced motor
- ABB-ACS150 Speed Control Device
- 30 kg capacity of dosing cell
- 2 carrier screws for each machine
- Level control window



Dosing Machine Electrostatic Painting ED 110

- Electrostatic Painting
- Protects food hygiene
- Available for dosing wheat gluten, soy flour and other ingredients to be added in large quantities .
- 9.45-46.02 dm³/hr accurate dosing capacity
- SEW brand induced motor
- ABB-ACS150 Speed Control Device
- 30 kg capacity of dosing cell
- 2 carrier screws for each machine
- Level control window



Water Distillers - SS 204

- Three different distilled water capacity: 4, 8 and 12 lt/hr
- Stainless steel heaters.
- All surfaces in contact with water and steam made of stainless material.
- Electronic water level control in the boiling tank.
- Manometer for inlet water pressure.
- Magnetic water conditioner against calcification in boiling tank, condenser and in the lines where the water and steam are circulating.
- Safety system with warning leds against low inlet water pressure, water interruption and empty boiling tank.
- Warning led for heater failure.
- Wall mounted type not to occupy valuable laboratory benches.



Phosmatic Fumigator - E01

- Used for spraying grains with fumigants during purchase of grain to silo or grain transportation from one silo to another.
- Possibility to adjust the amount of tablets which will be dosed in a minute by means of GEMO on control panel.
- Possibility to adjust the rate as 1 tablet per (1-999)seconds.
- The cell contains 3000 gr of fumigant which is 1000 tablets. Larger cells are available upon request.
- The running time and the waiting time can be adjusted by speed controller.
- Tablet outlet diameter can be produced accordingly .
- Tablets are isolated from external enviroment.
- The device can be placed on the line from purchasing point to the silo, grain band or somewhere between silos.
- Power requirement is 220 V-50Hz.



▶ FLAT BOTTOM GRAIN STORAGE BINS

Flat bottom bins are suitable for storing all types of grains. Bins can be from 350 to 600 gr/m² galvanized coating in the range of 3.5 - 32 m diameters in line with customer needs. Sealants against water are used in bin sheets. ANSI / ASAE, DIN or EUROCODE bin designs can be made in line with customer requests. Wind, Snow and Seismic loads should be taken into the consideration when installing the plant.



▶ HOPPER BOTTOM GRAIN STORAGE BINS

Hopper bottom bins are suitable for storing all types of grains but they are preferred for special requirements because of its high costs.





GRAIN HANDLING EQUIPMENTS

- Bucket Elevators
- Maxilift Elevator Buckets
- Chain Conveyors
- Belt Conveyors
- Screw Conveyors
- Grain Flow Systems



▶ GRAIN COOLING SYSTEMS



▶ TEMPERATURE MONITORING SYSTEMS





▶ TECHNICAL SERVICE

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▶ Laboratory Installation

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▶ Remote Support Services

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▶ Maintenance Contract

The maintenance contract will ensure uninterrupted operation of your laboratory equipment.

Also;

- Scheduled maintenance minimizes device breakdowns.
- Provides profit by preventing possible big failures and decreases service cost.
- The device service life is extended and the total maintenance cost is reduced as the probability of failure is reduced
- Fixed maintenance fee, easy budgeting and surprise costs are avoided.
- On-site maintenance saves time in case your devices are sent for service and also prevents any possible cargo damage.



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