

**Far Beyond
the Ordinary**



ERKAYA
INSTRUMENTS

1

2



ERKAYA is one of the leading and outstanding manufacturers of Turkey in the field of Wheat and Flour Analysing Instruments & Ingredients for flour mills and bakeries.

Erkaya exports 80% of its production to many countries worldwide by the contribution of its professional work force and very competitive quality and price. We have many valuable references on every continents in many countries including Belgium, Germany, Italy, France, Spain, Serbia, Greece, Romania, Croatia, Bulgaria, Macedonia, Austria, Canada, Brazil, Uruguay, Bolivia, Colombia, Haiti, Jamaica, Argentina, Equator, Kazakhstan, Mongolia, Paraguay, Ukraine, Azerbaijan, Uzbekistan, Kirgizstan, Russia, Moldova, Iran, Iraq, Egypt, Sudan, Vietnam, Israel, Jordan, Yemen, Lebanon, Tunisia, South Africa, Mozambique, Zimbabwe, Tanzania, Madagascar, Nigeria, Zambia, Algeria, Saudi Arabia, Syria, Yemen, Dubai, Iran, Afghanistan, Pakistan, Philippines, Indonesia, China, India, Taiwan and many others...

What we have been proudly manufacturing and marketing are as follows;

Laboratory Equipment for grain, flour and feed industry ;

Touch Screen Falling Numbers (FN 7100, FN 7200, FN 8100, FN 8200), Gluten Washing System (GW 2200, GI 2030), Touch Screen Gluten Washing System (GW 3200, GI 2040) Laboratory Mills (Roller Type Mill, Hammer Type Mill), Sieve Shaker, Truck Sampler, Ash Oven, Hectoliter, Protein Analyzer, Dosing Machines, Sedimentation Device, Vacuum Sampler, Shakematic FN7, Cooling Unit CL5, Dockage Sieve Shaker, Moisture Meter, NIT Flour Analyser, NIT Grain Analyser

- Flour improvers, enzyme systems, premixes, flour bleaching, bread crust aroma, biscuit and pasta improvers
- Vitamin and mineral premixes for flour fortification

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and outstanding
manufacturers of Turkey**



Roller Type Laboratory Mill RM 1300



- CE certified.
- 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 HM310

4

- CE certified.
- 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.
- 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.
- Cyclone design minimizes cleaning between samples.
- Door switch provides safe operation.
- Long mill life.
- Convenient and rapid sample preparation.
- It is built on a metal construction.
- A steel hammer rotates at high speed and forces the sample through a stainless steel sieve.
- An adjustable vacuum feed control regulates feed rate of the sample into the metallic grinding chamber. 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.
- Standart 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.
- Provides high sample homogeneity and repeatability.
- Robust construction.



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Hammer Type Laboratory Mill HM 210



- CE certified.
- A hammer type laboratory mill which is used for sample preparation for Gluten washing and 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.
- A steel hammer rotates at high speed and forces the sample through a stainless steel sieve.
- An adjustable vacuum feed control regulates feed rate of the sample into the metallic grinding chamber. 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.
- The sample is collected in a filter bag after passing through the sieve.
- Standart 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.
- Provides high sample homogeneity and repetability.
- Robust construction.
- Perfect durability.

Gluten Washer GW 2200

- CE Certified.
- Conforms to Official World Standards (AACC No:38-52, ICC No: 155&158, 137/1).
- Automatic Dual Chamber System.
- 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 means of dip-switches
- Possibility to adjust mixing time from 5 up to 75 seconds and washing time from 60 to 900 seconds.
- Robust Design. For use in difficult grain intake environments.
- Specially designed holes at the bottom panel enabling device to discharge the water, in case of water pump tubes deterioration.
- Easy of Use. Non technical operators can use the system confidently. No chemicals required.
- Segregation of grain and flour in terms of quality.
- Complete with all accessories.



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Touch Screen Gluten Washer GW 3200



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- CE Certified.
- New design, Touch Screen Gluten Washer. First ever in the World.
- New Design with no buttons.
- All commands can be given on screen.
- 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.
- Complete with all accessories.

Touch Screen Gluten Index GI 2040

- CE certified.
- New design with 5 inch Touch Screen Display, First ever in the World!
- Displays real rotation rate on display, First ever in the World!
- 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.



Dry Gluten DG 2020



- CE certified.
- Heater and control units are separate.
- Possibility to see the test time on digital display.
- Dries gluten of wheat and flour samples.
- Operating temperature is 150°C.
- Temperature is kept stable by means of a thermostat.
- Teflon coating provides effective drying and easy removal of sample being tested.
- Stops automatically warning with a beep signal.
- 220 V 50 Hz electricity.



Falling Number FN 8100

10

- CE certified.
- 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 standarts (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.
- Correction of sample weight both for 15 % and 14 % moisture basis and FFN test.
- Moisture FN, Moisture GR, Mean Value, Liquefaction Number.
- Calculation of Blends, Sample ID.
- LAN connection.
- Optional Print Out.
- Arshive.



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Falling Number FN 8200



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 - 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
- Correction of sample weight both for 15 % and 14 % moisture basis and FFN test.
- Moisture FN, Moisture GR, Mean Value, Liquefaction Number.
- Calculation of Blends, Sample ID.
- LAN connection.
- Optional Print Out.
- Archive.

Falling Number FN 7100

- CE certified.
- Large Color Touch Screen Display.
- All function buttons are one touch away. Easy to use.
- Measures FN conforming to international standarts (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.
- Print Out.
- Arshive.



Falling Number FN 7200



- CE certified.
- Large Color Touch Screen 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.
- Print Out.
- Arshive.

Shakematic FN 7

- Used for preparing homogenous samples for Falling Number Test.
- Automatic shaking.
- Reduces operator influence on results.
- Reduces total analysis time.



Cooling Unit CL5

- A Falling Number accessory.
- Reduces water consumption to practically zero and makes it possible to place FN units almost everywhere.
- Water re-circulation prevents water consumption and protects environment.



Sedimentation Device ZL 120



- The system is used for determining gluten quality and hazardous insects damage.
- LCD display with 6 lines.
- 6 timers
- 40 rpm induced motor enables system to perform the tests with standard 40 rpm rate, regardless of the load on the device.
- Every timer has a led being active when it is operated.
- The device enables operator to run only the timer without operating the motor.
- It stops automatically warning with a signal.
- It operates the test with standard angle.
- Possibility to measure both sedimentation and modified sedimentation value.

Sieve Shaker S200

16

- Adjustable timer 0-99 minute.
- Polyamide frames, durable, long lasting, easy replacement.
- Possibility to check the sieving system in the mill and the production.
- Possibility to adjust the roll distances.
- Possibility to use requested mesh sizes of sieves according to milling diagram.
- Delivering 6 frames and 1 collecting container.
- Polyamide frames, durable, long lasting, easy replacement.
- Orbital movement, eccentric system.
- Digital control unit displays test time.
- Test ends warning with a beep signal.
- Start, Stop and Timer options.
- Frames are of 30 cm diameter.
- The collecting container can be mounted under any pulley to be able to research requested analysis.
- No need to fix the machine. It is not moving during test.



Dockage Sieve Shaker S310

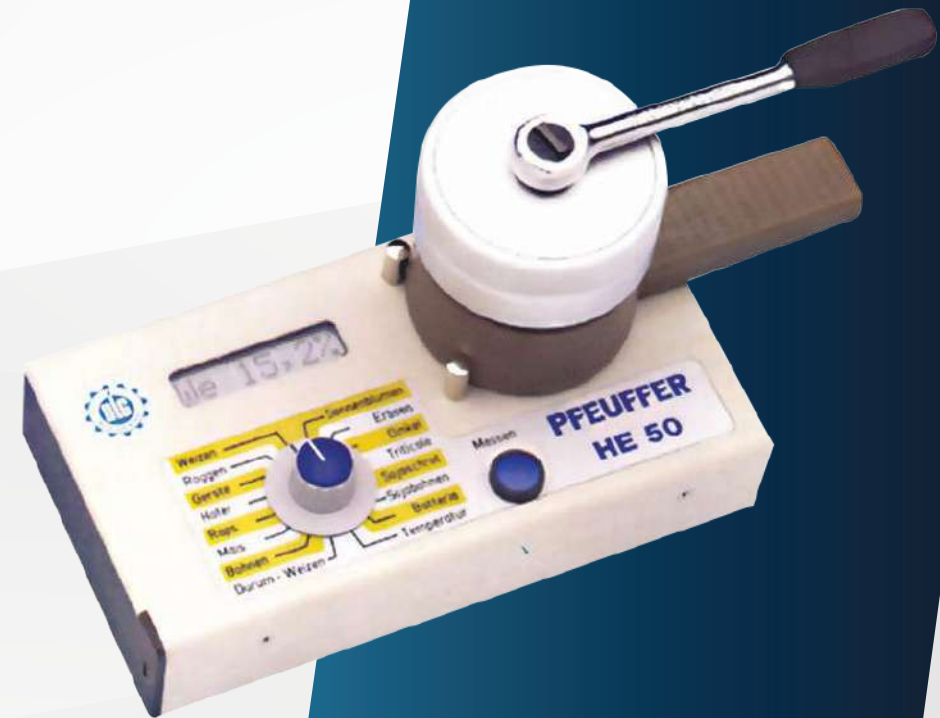


- Used for screening and classifying grain
- Providing 1 test sieve frame and 1 collecting container followed.
- Frames have 20-30 cm diameter.
- The sieves are tightened by this part from one side and other side is tightened by a spring-like system.
- The sieving motion is horizontal.
- The amplitude of the motion stroke is between 25 and 35 cm.
- 0-60 seconds timer.
- Number of strokes are displayed on LCD Screen.
- Speed controlled/frequency adjustment.

Moisture Meter HE 50

18

- Easy handling.
- Measures wheat, wheat flour, barley, corn, rye, sunflower, as well as other grains.
- Exact measuring results.
- Automatic temperature correction.
- High measuring range up to 30 % moisture.
- 14 calibrations
- Four of the fourteen product programs can be selected from over 180 available products for your HE 50, e.g. cargo, peanuts, milo corn, green coffee etc.
- This allows a universal application of the HE 50 for grain, grass, vegetable and flower seeds, etc.



Furnace PLF 100-3



- Temperature range is up to 1000 °C.
- 3 liters of inner volume
- Easy operation and double skin construction to maintain a cooler outer case.
- 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
- 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.



Protein Analyzer P110

KJELDAHL NITROGEN DISTILLATION UNIT

- Kjeldahl nitrogen protein determination device is programmable microprocessor controlled. The display of the device is LCD and the display is alphanumeric and the keys are touch sensitive.
- Kjeldahl nitrogen protein identification device alerts users by giving warning messages.
- The Kjeldahl nitrogen analyzer tube reservoir is suitable for working with 100 ml, 300 ml and 800 ml tubes.
- It informs the user of whether or not there is water in the steam generator.
- Distillation time can be set between 0-200 minutes.
- Adjustable amount of alkalis to add.
- Steam generator is 1100 Watt power.
- The front of the device is made of transparent plexyglass material.
- The water consumption of the Kjeldahl nitrogen protein determination device is 3 liters / minute. 220 V operates at 50 Hz.

KJELDAHL NITROGEN DIGESTION UNIT

- The outer shell of the device is made of stainless steel and is heat insulated.
- The Kjeldahl nitrogen protein determination device can be run at the same time with 8 different samples.
- The device has electronic thermostat. Working temperature can be adjusted up to 450°C.
- There are integral gas discharge systems on the combustion tubes.
- The work area temperature can be monitored via the digital display and the program recording feature is available. The Kjeldahl nitrogen protein determination device is working with 100.300 and 800 ml incinerators at a diameter of 50 mm.
- The operating voltage of the device is 220 Volts and the speed is 50 Hz.



Dosing Machine

ED: 110/120/130/140



- Completely Stainless Steel Body.
- Protects food hygiene.
- Suitable for dosing enzymes, ascorbic acid, wheat gluten, soy flour and other ingredients added in large quantities.
- 1,70-270 dm³/h accurate dosing capacity.
- High performance induced motor.
- ABB-ACS150 Speed Control Device.
- 60 kg capacity of dosing cell.
- 2 carrier screws for each machine.
- Level control window.

Models	Min.Dosing Capacity	Max. Dosing Capacity
ED 110	1.70 dm ³ /hr	47.71 dm ³ /hr
ED 120	3.40 dm ³ /hr	91.45 dm ³ /hr
ED 130	6.44 dm ³ /hr	168.65 dm ³ /hr
ED 140	9.60 dm ³ /hr	270 dm ³ /hr
ED 102	0.68 dm ³ /hr	19.86 dm ³ /hr
ES 102	2.28 dm ³ /hr	11.40 dm ³ /hr
ES 103	3.65 dm ³ /hr	18.24 dm ³ /hr
ES 104	9.45 dm ³ /hr	46.02 dm ³ /hr

Truck Sampler G2-G3-G4

22

- The pneumatic grain sampler is an industrial sampler for a wide variety of materials, including wheat, barley, corn, pellets, chips, flakes, granules and powders.
- It provides representative and repeatable samples from ships, rail cars, trucks, tubs, bulk-bags or other vessels.
- Sample probe is mounted on the swivel stand and boom which are powdered in three axes.
- The system can operate in 2 different modes which are automatic and manual mode.
- Pressure sensor adjustment at bottom of the truck . Vacuum is provided by a very functional blower (3 kw)
- Telemechanique PLC provides ease of use.
- Remote control is optional.
- In the manual mode, it is possible to choose the depth where you can start sampling.
- The grain amount which system takes depend on density and the moisture.
- The system can move 120° right to left and 120° left to right (totally 240°).
- It can move upwards and downwards.
- The probe strand has 240 cm length and by means of telescopic arms it is possible to extend the probe strand up to 500 cm.
- The probe has 220 cm length.
- High performance vacuum systems can take sample from different depths and transfers to the collector in laboratory.



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Hectoliter H1

- Hectoliter is the weight of a one liter of kernel such as wheat, corn, etc.
- A very important quality parameter at purchasing points.
- The result depends on the particle size, density and the kernel quality .
- The system is composed of a digital balance, a knife and a float.
- Conforms to standards having an exact 1 liter of volume.
- Short analysis time.

Sample Divider DV2

- 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 divides the grain into two equal parts homogeneously

Vacuum Sampler e-Vac

- It the samples from the storages, trucks and ships
- The hazelnut, wheat and other grain can be transferred from storages automatically by vacuum and stored into the sample container.
- For wheat and other grain samples, the device can be operated by mounting a grain accessories to the device.
- The samples can be taken from a depth of 5-25 meters by vacuum.
- 5 aluminium pipes, 1 aluminium bend, 1 pushing-pulling material, 1 pipe expanding wrench and 1 bag are supplied with it.
- The length of the pipes are 1 m.
- It can be used even in the storages having a low ceiling height.
- It is portable.
- Capacity of collecting is 110 kg of grain sample



Phosmatic E01 - Fumigator



- Used for spraying grains with fumigants during purchase of grain to silo or grain transportation from one silo to another. Possibility to adjust the number 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 environment.
- 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

NIT Whole Grain Analyser

26

- CropScan 3000B Near Infrared Transmission Analyser is designed to measure protein, moisture, starch, fiber and oil in whole grains of wheat, barley, canola, sorghum, oats, triticale, soybean, corn, rice, peas, beans etc.
- The built in Touch Screen PC provides a means of measuring a wide range of grain samples but also adding storage and quality information about the grains, including; Test Weight, Screening, Retention, Variety, Grade, Tonnage, Storage Location.
- The CropScan 3000B uses a pour through measuring cell that has an automatic pathlength selection for each grain type.
- Once the product has been selected, the CropScan 3000B adjusts the pathlength of the measurement cell to provide an optimum scan.
- The CropScan 3000B can be connected to a second screen where the CropNet Grain Data Management software runs in parallel to the Cr3000B operating software.
- A weighbridge monitor can be connected to the Cr3000B via a USB port and cable, so that load weights can be taken automatically.
- Alternatively, a Bar Code Reader and a Scale can be connected to the Cr3000B USB ports for recording bag weight and ample ID as used in field trial testing.
- The CropNet software posts the data to the internet where it can be viewed remotely using a Smart Phone, Tablet or PC.



NIT Flour Analyser



- The CropScan 3000F is a bench top NIR analyzer designed for rapid measurement of protein and moisture in wheat, barley and other cereal grains and powders including flour, semolina, lupin meal, soybean meal, soybean flour, corn flour and meals can be measured in a 5mm deep rotating dish that is simple to load and empty. Up to 30 sub scans can be collected for either grains or powders and averaged to provide excellent accuracy and precision.
- Protein and Moisture in Wheat
- Protein, Moisture, Ash, Water Absorption and Starch Damage in Flour and Semolina
- Specks in Flour and Semolina.
- Protein and Moisture in Meals.
- Protein, Moisture, Oil and Starch in Soybeans, Corn, Rice and other grains and oil seeds.
- Protein, Moisture and Oil in Corn Flour, Rice Flour, Soybean Meal and other processed grain products.
- Touch Screen Operation.
- Once the NIR analyser has predicted the required parameters, the software prompts a set of customised data fields. The operator enters the following information: Sample ID, Test Weight and Screening Weight, Storage Location, Variety, Grade, Source (Farm, Paddock or Supplier), Truck ID
- Once the data fields are completed, the information is stored in the on-board memory. Reports are available at the press of a button for; Tabulated results, Spectra, Trends Plots, Bin Averages for each silo, bunker or shed...

R&D Activities

R&D activities are shaped in parallel with Erkaya's strategy and growing objectives. Within this framework, the products of target markets are supported with competitive technologies, optimized design and environmentalist approaches. Erkaya make use of the advantages provided by export support projects of public institutions to perform them.

Developing its own technology and maintaining the advantages of international competition, Erkaya on R&D as a part of its strategy. The company's vision "Respects the Globe, Respected Globally" forms the essence of its R&D strategy.



A close-up photograph of a pair of tweezers holding a small, light-brown, textured seed or ingredient. The tweezers are made of polished metal and are positioned diagonally across the frame. The seed is held between the tips of the tweezers. The background is a soft, out-of-focus green and grey. An orange horizontal bar is at the top of the image, and a dark blue horizontal bar is at the bottom.

Ingredients



Flour Improvers-Premixes

Vitalex 25	Increases the dough resistance	5-15 gr / 50 kg
Vitalex 50	Enhances fermentation stability and dough tolerance	
Vitalex 75	Gives better machinability	
Vitalex 100	Prolongs shelf life	
Vitalex 75	Increases volume of baked product	5-15 gr / 50 kg
Vitalex 100	Arranges pore structure	
Vitalex S	Optimizes alpha amylase activity	
Vitalex SL	Makes doughs with good elasticity	
Vitalex DELUX	Enhances browning	5-15 gr / 50 kg
Vitalex S	Makes dough drier.	
Vitalex S	Tolerates changes in flour quality and helps for flour standardization	
Vitalex SL	Increases the dough resistance	
Vitalex DELUX	Enhances fermentation stability and dough tolerance	5-15 gr / 50 kg
Vitalex DELUX	Gives better machinability	
Vitalex DELUX	Prolongs shelf life	
Vitalex DELUX	Decreases dryness of bread crust and prolongs shelf life	
Vitalex DELUX	Increases volume of baked product	5-15 gr / 50 kg
Vitalex DELUX	Arranges pore structure	
Vitalex DELUX	Optimizes alpha amylase activity	
Vitalex DELUX	Makes doughs with good elasticity	
Vitalex DELUX	Enhances browning	5-15 gr / 50 kg
Vitalex DELUX	Makes dough drier	
Vitalex DELUX	Tolerates changes in flour quality and helps for flour standardization	
Vitalex DELUX	Increases the dough resistance	

Flour Improvers – Enzymes – Hemicellulase

Vitalzyme HS	Standardized hemicellulase enzymes	6-12 gr / 50 kg
Vitalzyme HM	Shortens kneading time	1.5-6 gr / 50 kg
Vitalzyme HL	Gives fine texture	0.5 – 3 gr / 50 kg
Vitalzyme HL	Increases volume yield	
Vitalzyme HL	Prolongs shelf life	
Vitalzyme HL	Delays staling	
Vitalzyme HL	Fine crumb structure	

Flour Improvers – Enzymes – Special Enzymes

Vitalzyme EMX	Gives better machinability Prolongs shelf life Increases volume of baked product	5-10 gr / 50 kg
Vitalzyme FH	Arranges pore structure Optimizes alpha amylase activity Makes doughs with good elasticity Enhances browning	

Flour Improvers – Oxidizing Agents

Vitalex C 10	Increases the dough resistance Enhances fermentation stability and dough tolerance	10-25 gr / 50 kg
Vitalex C 25	Gives better machinability Increases volume of baked product	4-10 gr / 50 kg
Vitalex G	Arranges pore structure Enhances browning	1- 3 gr / 50 kg

Flour Improvers – Enzymes – The Amylase

Vitalzyme F1000	Standardized fungal alpha amylase enzymes Arranges alpha amylase activity	10-20 gr / 50 kg
Vitalzyme F5000	Shortens kneading time Gives fine texture	1-5 gr / 50 kg
Vitalzyme F3	Increases volume yield Prolongs shelf life	0.5 – 3 gr / 50 kg
Vitalzyme F4	Delays staling Fine crumb structure	0.1 -0.5 / 50 kg





Bakery Improvers

VITBULL 100	Enhances fermentation stability and dough tolerance Gives better machinability	0.1 %
VITBULL 200	Makes doughs with good elasticity Makes dough drier	0.2 %
VITBULL 500	Optimizes alpha amylase activity Gives thinner and better bread crust structure	0.33 %
VITBULL 20	Decreases dryness of bread crust and prolongs shelf life Increases volume of baked product Arranges pore structure Enhances browning	1 %

Pasta Improvers

VITALEX PST	Gives excellent bread crust flavor Minimizes the dough loss during pasta production Enables to use soft wheat flour and semolina Enables drying at high temperatures Prevents the over rising during cooking and provides a healthy structure Prevents softening and adhesion during cooking Provides a desirable color and shine Does not blur the cooking water, reduced starch release during cooking Cooking time extension	10 gr / 50 kg
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Enzymes for Biscuits and Wafers

VITALEX PB10	Special enzyme for waffle and biscuit production Provides an excellent change in gluten structure Cracking and Crumbing prevention Balance good color Homogeneous structure High performance protease enzyme	20 - 50 gr / 100 kg
VITALEX PB20	Good relaxation Reduced water absorption and stability Enhanced flavour and browning Balanced pore structure Shelf life extension	



Aroma

VITALZYME BCS	Gives fine flavour Prevents bad odour. Fine natural bread crust flavour and aroma	20 - 50 gr / 100 kg
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Bleaching Agents

VITALEX B27	Good bleaching effect on flour Strengthens gluten structure	20 - 30 gr / 100 kg
VITALEX B44	Possibility to see the final effect within 48 hours	



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