



# BCA GRAIN & FEED COMPANY LIMITED

Your vital link to agricultural equipment in the pre- & post-harvest value chain



**Agricultural Instruments, Devices,  
Equipments & Machinery**





## BCA GRAIN AND FEED COMPANY LIMITED

BCA Grain and Feed Company Limited is a diverse, agri-business company headquartered in Arusha, Tanzania. Its principal business activity is the distribution of agricultural machinery, equipment, instruments and devices as well as trading in cereals, grains, dairy products, fertilizer and animal feed. Our Agricultural Services segment uses our grain elevator, regional transportation network, and port operations to buy, store, clean, and export agricultural commodities, such as maize, wheat, sorghum, beans, rice, soya, groundnuts and sunflower seeds, and resell these commodities primarily as food and feed ingredients and as raw materials for the agricultural processing industry in the East African region. We are proud members of Agricultural Council of Tanzania (ACT), The Eastern Africa Grain Council (EAGC) and The Tanzania Chamber of Commerce, Industry & Agriculture (TCCIA).

We have exclusive distributorship arrangements and we are the sole distributor of an array of economical, non destructive, microprocessor based, automatic, portable, digital agricultural measurement equipments, instruments and devices for soil, grains, seeds, cereals and livestock in Tanzanian from world's leading manufacturers. These agricultural instruments are extremely fast, compact, light in weight and are easy to operate. They include grain moisture meters, irrigation systems design & installation, grain cleaning and grading machines, grain dryers, color sorting machines, soil tension meters, soil pH testers, weighing & packing machines, grain elevators, grain storage silos and bins, vacuum bags & pouches, thermo-hygrometers & weather stations, beekeeping equipments, fish farming equipments, poultry equipments, animal breeding devices, veterinary ultrasound scanners, greenhouses & insect netting, drip irrigation equipments, tractors & tractor loaders, precision weighing scales, etc. We offer very competitive prices for these instruments.

## AGRICULTURAL EQUIPMENT & MACHINERY FINANCING

Through partnership with some of the country's most experienced agricultural finance providers, we can assist farmers/agribusinesses in the acquisition of our products. This will be tailored to fit your cash flow and operational needs. You can rely on the talent and teamwork of BCA Grain and Feed Company employees to help you take the right steps in agricultural equipment financing. We'll work with you to help you acquire the equipment, parts, and service you need. We build long-term partnerships based on trust and a deep understanding of your needs. We understand agriculture and the needs of all types of producers. We know the equipment, how it's used, and what it means to your operation and livelihood.

***Please see below for more information of these agricultural machinery, equipments, devices, and instruments:***

## GRAIN MOISTURE METERS



Portable moisture meter for seeds, grains and cereals. An absolute must wherever cereals and other seeds are

stored or processed. Testing procedures are followed according to the command prompts shown on the 16-character display, thus, no memorization of procedures is needed in performing everyday tests. The meters also come with a "Data Modification Mode" which enables the user to make adjustments of the moisture curve to suit the local conditions and specie varieties.



### ESTROUS DETECTOR FOR COWS/ MARES

Electronic estrous detector enables the breeder to determine an exact time during the ovarian cycle when ovulation occurs



### MASTITIS DETECTOR

A device for detecting sub-clinical mastitis in its earliest, visually undetectable stage.



### VETERINARY ULTRASOUND SCANNERS

A veterinarian ultrasound scanners with a touch screen and colour Doppler. Designed for veterinary clinics and surgeries for complex diagnostics of both small and large animals. Requirements with regard to ultrasound scanners placed by veterinary practitioners inspired the manufacturer to create a device with an exceptional image quality with a colour Doppler function. These veterinary ultrasound scanners are small devices equipped in a touch screen, resistant casing and dual power source.



### PH/TEMP/CONDUCTIVITY/TDS/ SALINITY TESTERS

Combine measurement capabilities of three testers in one convenient pocket-sized unit. Great for water, laboratory or plant use, these multiparameter Testers feature single-junction pH electrodes for longer life and wider range of sample compatibility. Pin-style conductivity sensors feature stainless steel electrodes for chemical resistance and durability. Replaceable sensor module saves you money by reusing the meter body. Advanced features include auto-shutoff, user-adjustable temperature coefficient, self-adjusting TDS and salinity factor, and low-battery indicator.



### SOIL TENSION METER & TDR KITS

**Soil tension meters** are unique sensors that measure both soil moisture and soil temperature. They are the standard in accurate soil moisture measurement, and offer growers an inexpensive and reliable means of measuring soil moisture for irrigation scheduling. The soil tension meters will measure the actual soil water tension, which indicates the effort required by root systems to extract water from the soil. **The Time-Domain-Reflectometry (TDR)** measures the soil moisture content, the soil conductivity EC, and the level of salt contamination.





## UTILITY TRACTORS, TRAILERS & LOADERS

The tractors are strong, lightweight and agile. Their compact size and good maneuverability makes them ideal for crop and cattle farms, fruit farms and orchards, forest and municipal applications. The work efficiency, user-friendliness and easy serviceability make these tractors true allrounders. We also have loaders, combined harvesters, farm trailers, cultivators, walking tractors, disc ploughs, etc.



## SILOS & BINS

Our storage facilities are designed for the long-term storage of all kind of grains. Due to the wide variety of models they find application in individual farms as well as in grain storage facilities, grain mills, feed production plants, oil and fat production/processing plants and other industrial plants. They include silos and bins.



## LAWN, TURF & GARDENING EQUIPMENT

**Rotary & Reel Mowers:** Has the ability to cut a wide variety of grass. Its improved mowing efficiency, low maintenance, superior operator storage and comfort and reduced noise and vibration are all features of this outstanding out-front rotary.

**Lawn Tractors:** The sturdy and reliable cutting machinery with its various cutting widths leaves behind a clean-cut lawn surface, even on uneven ground or in thick grass. The wide tyres of the lawn tractors protect the lawn and ensure optimum traction and driving comfort.

**Rotary Tillers,** are used in cultivation of wood bottoms, nuts bonds, gaps, gardens, and vegetable gardens, soil preparation, seedling and sapling flowers, weed control, etc. they are used on all types of terrain and soil structure.

**Scythe Mower:** Versatile and extremely manoeuvrable. For medium sized meadows and areas of long grass.

**Cultivator:** Manoeuvrable tillers for loosening the soil and preparing the ground for planting. Ideal for incorporation of shredded material, fertiliser, or compost into the ground.

**Secateurs:** They are distinguished by their clean and easy cuts as well as their good ergonomics for cutting.



## GRAIN, FRUITS & VEGETABLE DRYERS

We are a leading supplier of a broad spectrum of superior quality Grain, Fruits and Vegetables Dryer products. Our multi-purpose dryers are adaptable to many types of fruits,vegetables, grains and seeds, for instance wheat, rice,maize, sunflower seed, mustard seed, sesame seed, kidney beans, soybeans, peas, apple, banana, pineapple, mango, kiwi, peanut,honeysuckle, mushrooms, plum, fish, meat, etc.







### COFFEE MACHINERY

**Coffee Roaster:** We can offer you with coffee roasters with capacities of between 250g for small roasts and up to 6 kg for larger productions.

**Coffee Grinder:** This coffee machine is specifically designed for roasted coffee bean. The capacity is 15 Kg/hour to 250 kg/hour.

**Coffee Huller:** The Coffee Huller is extremely efficient in hulling dry cherry coffee. Reduced friction between beans prevents generation of dust and results in minimum loss of good product due to breakage of the beans.

**Coffee Grader:** coffee graders are used to grade food grains by virtue of their size. Used in a variety of grading applications including coffee, the grader is available in single and deck versions depending on the number of graders required and capacity.

**Peeler Polisher:** The Peeler polisher is made of cast iron and is a single compartment cylinder, a cone arrangement for hulling parchment coffee. The fraction created between the cone and cylinder ensures the hulling of parchment coffee and also polishing of hulled bean in one single operation.

Coffee Pulper pulps the mature coffee cherry using only 2% of water, a demucilage removes the mucilage, washes and cleans the beans, just ready for soak or drying; a circular rods sieve screen with cleaning brush to classify the coffee that is going to be processed.



### IRRIGATION KITS, WATER REELS

We assist farmers in evaluating, selecting and installing cutting-edge irrigation to increase yields and produce more at lower cost.

The Complete Irrigation Kit ready to set up and start irrigating from your pond, reservoir, or stream in minutes! This kit includes Sprinkler Cart, 15 ft. of 2" suction hose with strainer, 100 ft. of heavy 1.5" discharge hose with quick connects, and a heavy duty high pressure pump.

Our water reel offers a cost effective, portable method for effective crop irrigation. These machines are designed to be extremely user friendly, have unparalleled performance, and operate completely unattended. They are a great alternative to in-ground irrigation systems which are typically more expensive, higher maintenance, and have sprinkler heads that often need to be repaired, causing damage to the crop field.



### WATER DIONIZER FILTER SYSTEM

Water Dionizers are an economical and convenient choice for producing high quality DI water. These units are ideal for small to mid-size applications. A PVC housing contains a pack of ion exchange resin or other filter media based on your water specifications. Uses include labs, critical spot free rinsing, polishing RO product water for ultra-pure requirements, chemical dilution and mixing, humidification, etc.





### **COLOR SORTER FOR CEREALS & RICE**

This equipment of color separators offers fast and convenient operation. The color sorter is equipped with a very precise pair of high resolution CCD cameras capable of identifying even minor impurities. The color sorter can recognize and separate glass, plastic, stone and even pin points of rice.



### **WEIGHING & PACKING MACHINES**

The machines can be used to dispense a variety of dry, free-flowing products, including granular, seeds, rice, popcorn, beans, gravel or candles. They are designed for low cycle applications or higher packaging speeds, versatility and accuracies. The volume and running capacity can be customized in relation to package options to enhance production for your specific needs.



### **GRAIN CLEANING & GRADING MACHINES, MAIZE SHELLER**

Our pre-cleaning and grading can be used for all cleaning and grading tasks from pre-cleaning to fine cleaning. These machines are ideally suited for cleaning and grading of variety of seeds including wheat, paddy, barely, maize, millets, sunflower, soybean, oil seeds, vegetable seeds, pulses, coffee seeds, etc. various designs and sizes for different purposes are available. The machines are available with or without recycling air systems and can consequently be adapted to local requirements for exchange of air, recovery of heat, etc.

Engine-driven Maize Shellers are widely used to remove corn from the cob easily.



### **SEED TREATING & COATING MACHINES**

The seed coating machine is a great machine for coating vegetable seeds and grain seeds, such as wheat seeds, barley seeds, maize seeds, sorghum seeds, soybeans seeds, cotton seeds, chili seeds, grass seeds, etc.

To work efficiently, the seed coating machine needs to work with the Seed Cleaner & Grader, Gravity Separator and Bagging Scale System for packing the seeds into 10Kg to 50Kg plastic or sisal bags to create a Seed Processing Line.





### COLLAPSIBLE DRYER (CDC II)

The Collapsible Dryer is a low-cost solution for safe, effective and convenient drying of a vast range of agricultural commodities. It eliminates the need for fuel and electricity as it uses solar energy, which is the simplest and most economical drying method. In case of anticipated rain or during the night, the CDC II can be covered instantly using the pulling straps.



### THE SOLAR BUBBLE DRYER (SBD)

The SBD is a state-of-the-art drying technology engineered to mitigate the negative effects of unpredictable weather patterns. Able to simulate sun drying even under rainy conditions, the SBD's design allows it to dry grains such as rice, maize, coffee, beans and other agricultural commodities and prevent post-harvest losses. Made of durable UV-resistant and water-repelling plastic materials, the commodities being dried are enclosed in an inflatable bubble equipped with small ventilators to drive out grain moisture while keeping the bubble inflated. The SBD is run using readily available power sources and can dry in both sunny and rainy days.



### GRAIN STORAGE COVERS & TARPS

We can meet all of your agricultural storage needs with our outstanding custom built cover tarps, hay bale covers, round bale covers, silage covers, hay covers and grain covers. We can provide many custom options for your tarps and covers, such as reinforced hems, grommets, D-rings, and the boxing of your tarp to fit your needs. Our heavy duty reinforced poly tarps will last for years under normal conditions, and are available in a variety of popular colors for all your tarps and covers needs. Whether you need bale covers, a hay cover, silage covers, a straw cover, trailer tarps or a truck tarp, hay tarps or grain covers, BCA Grain and Feed Company can meet all of your agricultural storage needs. Save money and your inventory by using our heavy duty polyethylene tarps (poly tarps)!



### PRECISION WEIGHING SCALES

BCA Grain and Feed Company is a leading supplier of precision digital and mechanical weighing scales providing weighing solutions for a host of applications and markets. We offer floor scales, pallet jack scales, kitchen scales, retail scales, hanging scales, tabletop portable and platform scales, weighbridges and Portable Electronic Axle Scales and pads.







## VACUUM SEAL BAGS & POUCHES

BCA Grain & Feed Company offers vacuum seal bags which can be used to package a wide range of items for storage and/or resale. Whether you are planning to package food products for sale or distribution. These vacuum bags have various applications ranging all the way from microprocessors to bulk food exporters of nuts and green coffee. They can also be used by the snack food industry to package everything from candy bars, dried fruit, drink mixes, food bars, and a host of other snack food products. Others are ideal for single-serving beverage mixes, such as coffees, teas and fruit drinks; condiments like mustard, ketchup, mayonnaise.



## SUPER GRAIN STORAGE BAGS

The SuperGrainbag is a water-resistant and gastight storage solution for a vast range of dry agricultural commodities. It is used as an inner liner for jute bags and ordinary sacks. The SuperGrainbag is made of multilayer polyethylene (PE), has a two-track zipper and sealed using a zipper slider. It can store commodities for prolonged periods without the risks of moisture ingress, pest infestation and fungal growth. This eco-friendly and pesticide-free product preserves the quality and germination capacity of stored grains. Applicable for commodities as:

- Coee (green, parchment)
- Corn, (including moist corn-maize)
- Paddy
- Milled rice (brown and white)
- Sorghum
- Millet
- Soybeans
- All types of Seeds
- Wheat
- Cocoa
- Beans, Peas, Lentils





### PORTABLE BAG SEWING MACHINES

The machine is widely used for closing container bags, such as plastic woven bag, gunny bag, cloth bag and paper bag, etc, which are filled with flour and grains. It is fit for industry of grain, chemical, feed, mine, coal, port & dock.



#### Sewing Effect



### WEATHER STATION & CLIMATE CONTROL

The weather stations are used for measuring wind speed, wind direction, UV, rainfall, pressure, temperature and humidity. They are used in labs, farms, storage rooms, warehouse, etc. we also offer rain gauges, thermohygrometers, infrared thermometers, laser distance meters, etc.



### HAND-HELD MEASURING DEVICE



High-precision hand-held device for PT100 temperature sensors. Suitable for measuring tasks requiring a high degree of precision.

### SMART WEATHER SENSOR | WIND/ FLOW



The Smart Weather Sensor for measuring of wind direction and wind speed.

Ultrasonic sensor technology is used to take wind measurements. Measurement output can be accessed by the following protocols: UMB-Binary, UMB-ASCII, SDI-12, MODBUS

### PRECIPITATION SENSOR



The Precipitation Sensor measures double accurate and is 100% UMB compatible! Latest weighing technology combined with a self-emptying monolithic manufactured precision tipping bucket allows the

Precipitation Sensor a high resolution and high precision at a very small construction volume. The Precipitation Sensor is ideal to setup new measurement network as well as addition to an existing measurement network with tipping bucket or weighing precipitation sensors.

### SONIC RANGING SENSOR WITH TEMPERATURE COMPENSATION SENSOR

The Sonic Ranging Sensor is a new generation acoustic distance sensor that measures the elapsed time between emission and return of an ultrasonic pulse. This measurement can be used to determine snow or water depth. The Sonic Ranging Sensor will output a temperature corrected distance reading, eliminating the need for further post-processing, as well as a separate temperature reading.





### GRAIN HULLERS, GRINDING MILLS & ANIMAL FEED MACHINES

**Paddy Debearder/Deawner** is used for cleaning the bearder or awner of the paddy.

**Seed Treater:** it's specially used for coating seed. It applies for various crops, such as seed of wheat, barley, maize, sorghum, soybeans, cotton, vegetables, fruits etc.

**Maize Thresher/Peeler (Huller)** is special used for maize or corn threshing/ peeling.

**Manual Maize Shellers** is widely used to remove corn from the cob easily.

**Grinding Mills** are widely utilized for the purpose of maize, wheat and rice grinding.

**Animal feedstuff machinery:** For plant feed type animal meal processing, final product is pallet format.



### COMBINED OIL MILL

It can process different material such as sesame, peanut, vegetable seeds, sunflower seeds, etc.



### BAKERY EQUIPMENT

BCA Grain and Feed Company is able to offer a wide and growing portfolio of high quality solutions for snack foods, breads and buns, pizza, pies, pastries, and other food products. We provide complete automated bakery solutions including dough mixing, dividing, make-up, proofing, baking, cooling, packaging, basket/case loading, basket washing and product distribution that are unsurpassed in quality, innovation and value.







### HAND WALKING TRACTORS

Walking tractors are dual-function products that can be operated as towing machines as well as driving machines. They have small and compact structure, light weight, long service life, reliable performance, easy operation and good running ability, also they can be assembled with seats for the driver. The equipment is suitable for operating in paddy fields, dry fields, orchards, greenhouses, hilly fields. With matched accessories and farm implement, they can performance many operations such as ploughing, cultivating, harrowing harvesting, drilling, ditching and transporting. In addition, it can also be extensively used as a stationary power source for small scale drainage and irrigation, sprinkling, grain threshing, cotton ginning, flour milling, fodder cutting, etc.



### DISC PLOUGH & POWER TILLERS

Model	Unit	230	325	425
Working width	mm	600	750	1000
Working depth	mm	250-300		
Quantity of disc		2	3	4
Total weight	kg	300	420	490
Matched power	hp	40	50	90
Linkage Three-point suspension II type				
Items selectable Scraper or Heavier duty pull rod				



### VACUUM SEALERS

BCA Grain & Feed Company offers a large selection of high quality vacuum sealers; from small vacuum sealers for lab applications, all the way up to industrial grade vacuum sealers for the medical industry, food packaging plants, electronics, and industrial products packaging. These vacuum packaging machines are equipped with external suction devices to work both with vacuum bags and proper stiff trays.



### BEEKEEPING EQUIPMENT

BCA Grain & Feed Company offers high quality beekeeping equipments like honey processing plant, bee hives, honey extractors, smokers, protective clothing, pollen traps, wax melters, grafting needles, Wooden Hives, Inspection Kits, queen rearing tools, Pollen dryer, Pollen collection tools, Incubator, Beekeeping DVDs, books and Literature.







### FISH FARMING EQUIPMENTS

BCA Grain & Feed Company offers fishing nets, food fish and fingerling seine nets and fish farming equipment. We also offer fish feeding equipment, water treatment equipment, a range of dissolved oxygen monitoring equipment, pond liners, small boats, and fish rearing tanks. Our pond and lake liners are fish and plant safe and offer outstanding performance characteristics when used in aquaculture fish farming and fish hatchery operations. Our custom sized and shaped boxed polypropylene liners are NSF-61 potable water grade and can be made in virtually any length, width and depth required for your fish farming application. The reinforced polyethylene (RPE) liners offer an economical choice for larger ponds and lagoons, as well as for shrimp farming and Tilapia farming operations.



### POULTRY FARM PRODUCTS

BCA Grain and Feed Company offers a broad spectrum of poultry supplies and equipment and anything else poultry and egg producers would require, including laying hens cages, laying nests, chicken egg incubators, feeders, drinkers, gas brooders, scalders, pluckers, broiler equipment, breeding equipment, laying hens equipment, flame guns, poultry sprinklers, etc. The products can be availed at best in market prices which are highly reasonable for the clients and best in market. We ensure that these products meet highest quality standards norms.



### BIRD DETERRENT & SCARING DEVICES

BCA Grain and Feed Company is a leading distributor of some of the world's most state of the art bird deterrent and scaring products. These include electronic bird deterrent devices, wind powered birdscarer products, scarecrows, and ultrasonic deterrents which deter a wide range of birds, rats, mice and other pests. Our products are sold throughout the East African region for Crop protection, industry and conservation



### ELEVATORS, AUGERS & GRAIN VAC

Elevators are highly functional and have various applications such as vertical lifting of materials such as coffee, rice, food grains and other granular materials. Our bucket elevators are tailor-made to assure the required capacity for your products. The augers have capacities ranging from 140 tons to 330 tons per hour





## GREENHOUSES

BCA Grain and Feed Company offers Greenhouses which are perfect for storing, starting, and growing plants and vegetables. If you want to get serious about your gardening, then a greenhouse is what you need. Giving plenty of warmth all-year-round, your plants and vegetables will have all they need to grow and thrive. These greenhouses are suitable for all types of gardens and gardeners. They are available in a variety of different sizes, ranging from small for casual growers to large greenhouses for gardening enthusiasts.

Our range include useful, high-quality features such as opening vents to allow air circulation and polycarbonate windows for a durable and long-lasting construction.



## INSECT NETTING & NETHOUSES

BCA Grain and Feed Company's insect netting/nethouse protects seedlings and plants from many pests and bad weather. It allows sunlight, rain and air circulation which promotes growth. And you can use the insect netting/nethouse for years, it is UV resistant. The insect netting/nethouse is knitted from thin, but amazingly strong, high density UV stabilized polyethylene thread. They come in several widths and Lengths. Access to your plants is a breeze.

Both Insect Netting and Nethouses are permeable to air and water, it prevents overheating, excessive humidity and condensation common with the use of plastic covers and creating an ideal growing environment. Applicable for Broad beans in flower, Egg plant, Chinese cabbage, Leaf amaranth, Coriander, Egg plant flower, Tatsoi, Zucchini flowers and Leek flowers.





## PLANT SCIENCE DEVICES

### ULTRA COMPACT PHOTOSYNTHESIS SYSTEM

This Photosynthesis System features a highly accurate miniaturised infrared gas analyser and surface mount technology, it weighs only 2kg, a fraction of the weight and size of most traditional photosynthesis systems. Full functionality, flow control, graphic display and data capture is contained within the ultra compact and rugged Compact Photosynthesis System console. It is light enough to be carried and operated using a shoulder strap or even worn on a belt. It Measures Photosynthesis, Transpiration, Substomatal CO2 and Stomatal Conductance



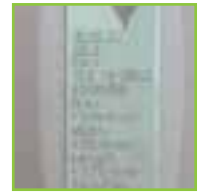
### CHLOROPHYLL CONTENT METER

The Chlorophyll Content Meter accurately determines chlorophyll content in plants and crops. Especially useful for improving Nitrogen management programs, the Chlorophyll Content Meter is an ideal instrument for both research and teaching. It provides agronomists, researchers and teachers with reliable, repeatable and easy to perform chlorophyll content determinations. The ample on-board data storage and hand-held design makes this Chlorophyll Content Meter the most field efficient and affordable chlorophyll content meter on the market.



### PORTABLE LEAF AREA METER

The Portable leaf area meter is a compact, user friendly, field portable instrument for the accurate nondestructive measurement of leaf area and associated parameters. It consists of a high resolution scanner and scanboard with integral data and image storage. A multi positional carrying handle is provided for ease of use and increased portability. Measurements of leaves can be made on the scanboard plate or on an independent plain surface. It is the only portable area meter that displays, stores and downloads the leaf image to a PC. Images are easily downloaded, in either bmp or tif formats, to commercially available image analysis programs.





## GRAIN TESTING & QUALITY CONTROL

### GRAIN SAMPLE SPEARS

Truck sampling spears are made in stainless steel and aluminium, and feature a double tube construction. The inner tube opens progressively from the bottom first, to ensure a representative sample from the whole load. Bag Spears: Our grain bag spears are 30cm long and thus suitable for sampling a variety of grains and seeds from storage bags/containers.



### PHOSPHINE FUMIGATION DETECTOR



The gas detection instrument for up to five gases. It reliably measures oxygen, organic vapors, combustible gases, and harmful concentrations of CO, H<sub>2</sub>S, CO<sub>2</sub>, Cl<sub>2</sub>, HCN, NH<sub>3</sub>, NO<sub>2</sub>, PH<sub>3</sub>, and SO<sub>2</sub> with high sensitivity to keep the user safe. For the detection of phosphine, it can measure

phosphine in the range of 0-2000ppm.

### FALLING NUMBER



The falling number test is the established trading parameter for detection of sprouted grain. This falling number equipment meets international standards so that you can be sure you are getting the right result to better manage your grain.

substantial weather damage which reduces milling quality. It also indicates that the grain has sprouted. During sprouting, the starch in the grain is broken down into sugars to feed the growth of the plant. Of interest to the stock feed industry, the sugar is converted to energy by animals more easily than starch – hence why grains with a very low falling number are often classified as “feed”.

## GRAIN & COFFEE LAB EQUIPMENT

The benefits of starting a professional lab is that the yield in quality development and price negotiation at all levels of the supply chain are enormous and will definitely outweigh the small initial investment! Our lab equipment are mostly suited for grain and coffee exporters, importers, traders, roasters and coffee shops. These equipment include Analytical balances, grain moisture meters, lab test sieves, sampling spears, sampling containers & bags, grain dividers, sieve shakers, spectrophotometers, microplate readers, ash furnaces, desiccators, sample coffee roasters, sample coffee grinders, sample coffee huller & shellers, spittoons, magnifying glasses, thermometers, crucibles, spatulas, forceps, metal trays, etc



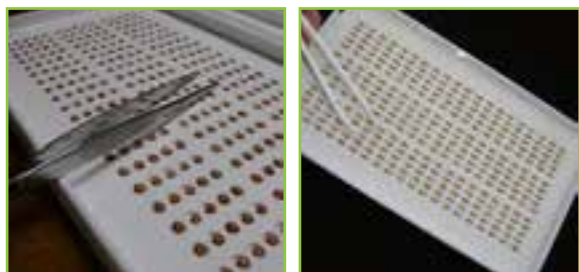




### DEFECTIVE COUNT TRAYS

This is an important tool to use when measuring defective seeds.

- The tray has 300 grain slots and comes with a pair of tweezers to enable the user to easily scan the tray for particular defects as stated by the receival standards.
- A white catch tray is included. This catch tray is divided into 3 slots. When combined with the slotted tray and tipped upside down, the seeds fall into the 3 slots (100 seeds in each slot) - thus making it much easier for analysis.
- The tray has a spouted end to make disposal of grain back into a sample bucket/tray with ease.



### INSECT PROBE TRAP

Determining the level of insect activity within storage can be difficult. The insect probe trap is designed to detect the presence of insects in storage. The insect traps are very easy to handle. Simply insert them just inside the top of a grain stack. Insects crawl through the holes in the tube and fall to the bottom of the trap where they are unable to escape.



### MAGGYLAMPS AND LIGHTBOXES

The lightbox is ideal for inspection of colour, defects, e.t.c for grains and seeds. The Lightbox allows you to conduct a visual inspection of stress cracks and endosperm.



### SAMPLE TRAYS

The grain sample and handling trays are used for analysing grain for defects and to catch the loose grain whilst preparing a test weight. They provide a large enough base to help facilitate grain quality inspection of a representative sample.



### TEST WEIGHT / HECTOLITRE



This is used for Bushel or Test weight (often referred to as hectolitre weight) measurements. It is comprised of a half-litre measure, cutter bar and filler.

### LABORATORY FREEZE DRYERS

The freeze dryers provide uncompromised sample protection for -50°C to -86°C applications. Designed for daily sample protection and dependability.





## RAPID TEST KITS

Grain traders, grain handlers and millers have to rely on fast data to help them route incoming grain deliveries. The last thing you want is to compromise your storage facility, but you also want to be fair. Early detection of mycotoxins and GMOs helps you make an objective decision on whether to segregate or reject a delivery. When transporting grains, ensuring that your product meets regulations is vital. You want confidence in your test results so you can make a fair, objective decision when routing loads of grain.

### GMO TEST STRIPS

The GMO Test strips are vital when detecting GMO traits in GMO crops including soybeans, corn, cotton and oilseeds. The rapid test method of the GMO Test strips are available for quick test results. These Lateral Flow Device (LFD) tests are on-site tests designed for field use but can be applied in laboratories, too. The quick qualitative detection of the GM proteins found in raw food and feed commodities is essential for key decision points within the food and feed supply chain. These strip tests can be analysed and result in a semi-quantitative GMO impurity level found in bulk grain samples in conjunction with a Reader.



### TOTAL AFLATOXIN RAPID TEST KIT

The occurrence of aflatoxins is related to poor harvesting, drying and storage practice. It is hard to detect, since it is invisible and has no smell or color. Agricultural commodities suspected of having aflatoxin should be tested on its occurrence.

Our Total Aflatoxin rapid test kit uses a rapid lateral flow assay test developed for the analysis of total aflatoxin analogs (B1, B2, G1, G2) in grains and grain products.

Application:

- Feed production and processing companies
- Cereals processing companies
- Governmental food safety supervision department for fast screening
- Farmers inspect the feed or grain by themselves





## AGRICULTURAL UNMANNED AERIAL VEHICLE (UAV)



Agricultural UAV products are dedicated to prevent and cure the crops and plants for delivering pesticides on farmland, trees prairies, etc. It has the following advantages:

1. Accurate operation: UAV can manage accurate pesticide delivering at the height of 1.5-2 meter above crops. Average pesticide dosage per acre is 3.0-6.0L, saving 90% water and 20% farm chemicals. The effective availability of farm chemicals is more than 35%.
2. Excellent pesticide delivering effect: the nozzles are fixed under the propellers. The downward flow caused by the rotating propellers can strengthen the penetration of pesticides into the leaves, preventing pesticides from fluttering and enhancing the delivering effect.
3. High operating efficiency: the operating efficiency is 5-34 acres/hour, 20-100 times of the manual work. But the cost except chemical is \$5.5-\$10/ha.
4. Few employees: 1-3 employees can manage all the work.
5. Unique advantage: can be used in mountain lands and hills where ground machines can't work.
6. Easy operation: comparing with oil UAV, it's easier to operate, more economical and protects the environment, training including operation, maintenance and repair can be finished in one week.
7. Battery powered which guarantees continuous work without stopping.
8. Remote Control

## AGRO GPS MAPPER Professional GPS technology for agricultural use!

Would you like to survey your land by yourself easily, quickly and affordably? Choose the GPS Mapper!

Advantages of the Agro GPS Mapper:

- No more boundary disputes with your neighbour, and you can check the actual dimensions of the seasonal works area.
- The problem of recording of landmarks and corner points is solved. It is suitable for surveying, recording different fields, and optional points as well for example: wildlife damage, bottomland area, soil sampling points, strong weed, brooding area, ditches, tree rows etc.
- You can use it for surveying your land while walking or driving too.



Rivergardens Business Park,  
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