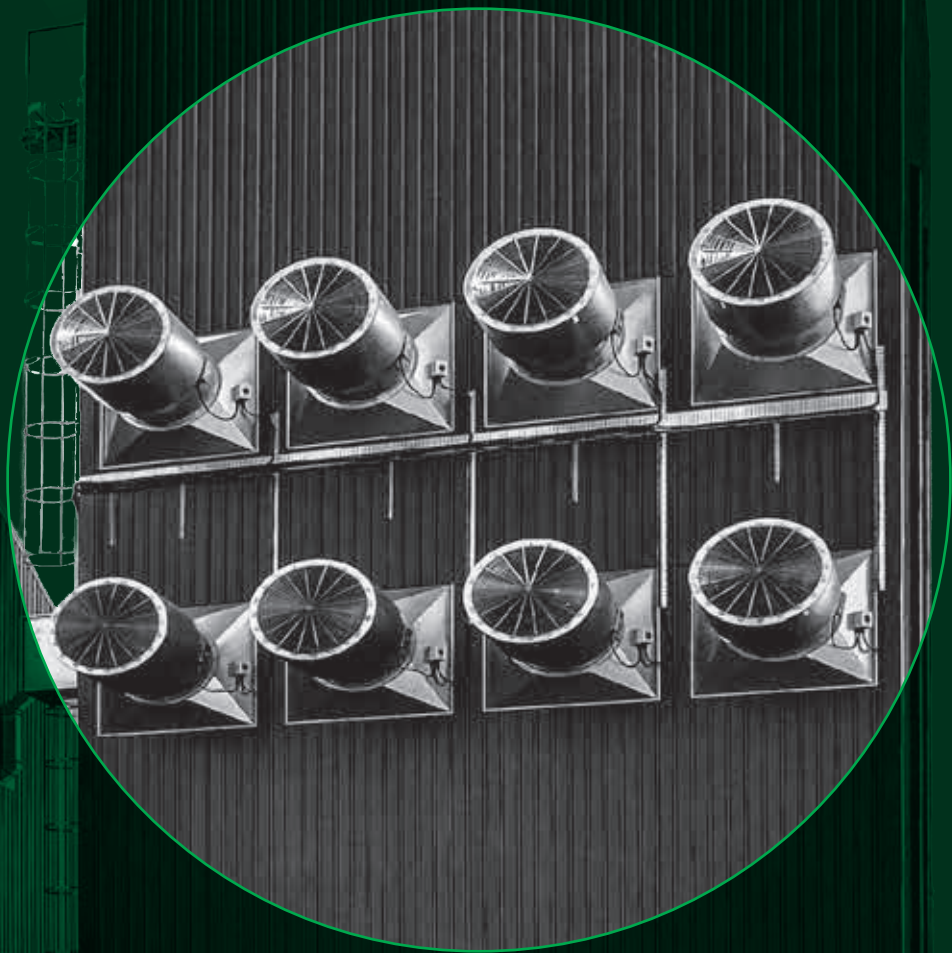




GRAINTEK UK

Grain Drying & Handling Equipment Specialists

DESIGN | MANUFACTURE | INSTALL
SERVICING AND REPAIRS



THE GRAINTEK
TORNADO
GRAIN DRYERS

A FORCE TO BE REKONED WITH!

Our Story

Graintek is a company that is always looking towards the future and constantly evolving our products to offer our clients the best product and solution possible and staying true to the companies' mottoes which are innovation without limit and a force to be reckoned with.

Our company is always envisaging new products that are currently not available on the market or taking existing products on the market and improving them with our ideas.

Graintek employs a strong team that are passionate and take pride in what we offer as a company and every team member's experience is utilised fully to benefit both our company and clients. The vast majority of the team are the original team members that have been with the company since our formation in 2009.

Our dedication and innovation in the field have not only been recognised by our clients but have received 10 awards from both the Lamma Show and the Royal Highland Show.

In addition to our products in the UK, we have several products in Estonia and the EU also.

Whatever your requirement Graintek would like the opportunity to work with you to achieve a fully bespoke solution tailored to individual requirements and offering 24/7 support.

Model 14-20
Aberdeen grain/
open field



Products

Grain Dryers

Micro Grain Dryer

Tray Drying Stirring Unit

Floor Drying Stirrer System

Grain Samplers

Control Systems & Automation



Grain Dryers

Our superior range of Tornado Grain Dryers are designed for optimum economy and greener by design. Graintek dryers use proven principles with improved design to ensure ease of installation and operation.

- All sheet metal work manufactured to the highest of standards of precision ensuring rapid on-site assembly
- No air bleed doors - simple sealed roof construction for service and inspection easy access
- Reliable proximity switched used throughout for all level sensors and controls
- Heavy duty Uniflow Pulse Discharger will handle the wettest crops
- Available in a wide range of sizes starting for 3 Tonnes per hour up to 300 Tonnes per hour and beyond



Standard Features of the Tornado Range

Fully insulated and cladded - reduces heat loss and condensation.

Weishaupt 3 stage oil burners with digital control gives optimum air to fuel ratio.

The drying laterals and lateral spacings are designed with the objective to utilise heat and air more efficiently.

Variable speed fan giving reduced air flow for drying light crops. Low fan speed options for maximum economy and high air speed for maximum output and cooling effect.

Our Superior advanced PLC Control Panel has as standard an output auto control system which reduces the risk of over drying.

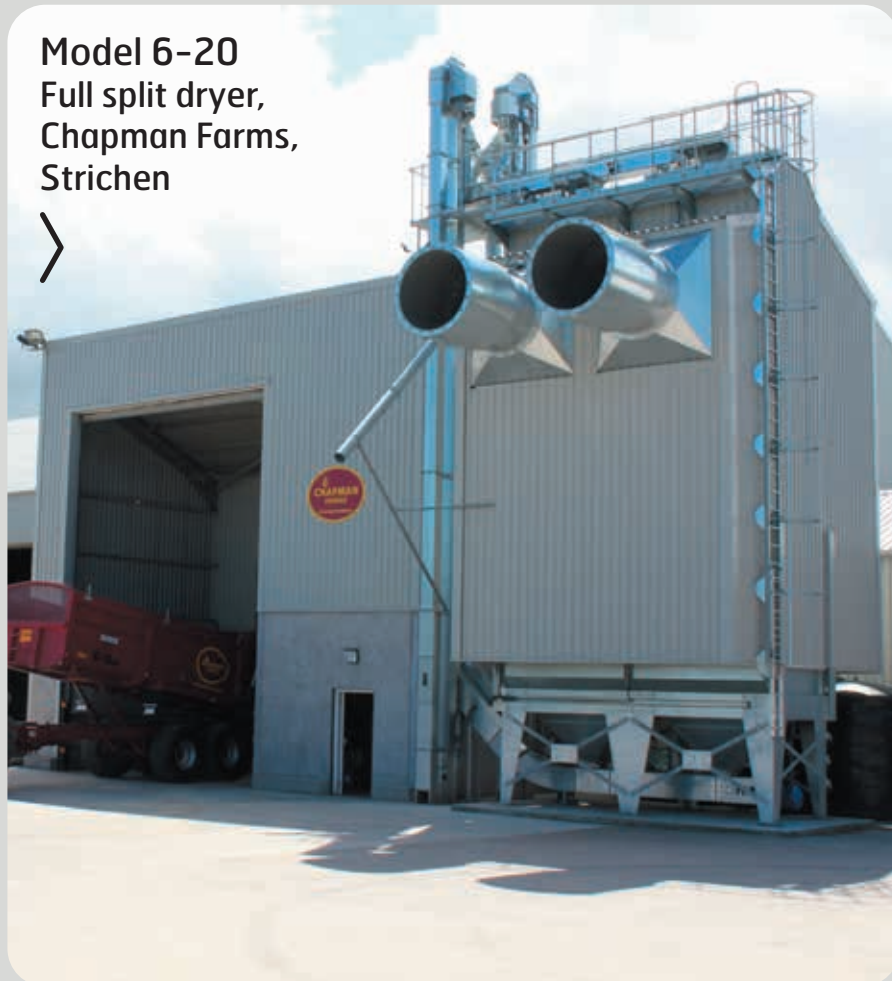
Pneumatic cooling door again controlled using our superior PLC Control Panel.

All weather roof.

20" full colour touch screen.

Access platforms with ladders and handrails at 2.2m intervals in exhaust plenum.

Model 6-20 Full split dryer, Chapman Farms, Strichen



Additional Options

- Indirect fired and biomass systems available in combinations to suit the end user
- Mains gas, LPG and steam options
- Combination fuel systems with biomass maximum economy and diesel or gas to give precise temperature control
- Crop store monitoring and ventilation control with our own range of wireless grain store, humidity and temperature sensors
- Input and output moisture sensors for constant display
- Remote computer display and control
- 6 text message alarm modem linked to a mobile phone
- Fire detection equipment
- External plant motor control
- Burner housing
- Built in weighing system



Model 6-15
Forfar



Sectors

Did you know that Graintek not only covers the agricultural sector but also covers additional sectors?

Graintek can also cover domestic, industrial, commercial and the construction industry sector, utilising our state-of-the-art workshop facility.

Our experienced fabrication and welding team have over 60 years of experience combined.



Model 6-15
Worthington





GRAINTEK Floor Drying Stirrer System



The Graintek Floor Drying Stirrer System is a dual beam mounted stirrer unit that can be installed to new or existing hot air floor dryers and can be supplied with fans.

The Stirrers enable more efficient airflow through the grain which allows for deeper drying depths and reduced drying times.

Robust construction and direct drive system for tray widths up to 12 metres with up to four single trolley auger heads.

One type of auger for grain and woodchip up to 4 metres deep.

Fully assembled for fast on-site installation and our superior PLC control system for auger travel speed to ensure full tray coverage.

Available as an extra is a full coloured touch screen for controlling drying for ventilation along with temperature and data logging.

Graintek UK is always striving to improve and add to our product range keeping true to our innovation without limit at the forefront of our thought process.

Tray Drying Stirring Unit

The Graintek Tray Drying Stirring Unit features robust construction and Direct Drive System without the use of chains, belts or long shafts like our competitors.

Tray width up to 15 metres in any length.

One type of heavy-duty auger (200 mm) for grain and woodchip up to 4.5 metres in depth with up to 35% increased drying efficiency compared to others on the market.

Some of our features are that each trolley unit has an all-in-one combined geared travel motor and one geared auger, each trolley can cover up to 7 metres in width and can accommodate up to four trolleys per beam.

Auto tracking system ensures that the beams are always kept parallel and can be operated on three phase 415V, double phase 480V and single phase 230V.

In addition to grain and woodchip our Tray Drying Stirring Unit can be used to dry Draff and Digestate.

Also, with the optional upgrade of being controlled via smart phone and our touch screen to control fan speed, heat source, cooking time and stirring zones.



Model 6-20 
Banffshire




Having developed a unique fully automatic batch and continuous transportable dryer using only a single leg elevator for both filling and emptying, we decided to add this single leg elevator dual mode feature to the fixed dryer range of up to 18 tonnes per hour continuous or 25 tonne batch.

To all this innovation we added our own weighing system so that whether drying in continuous or batch the user can have a record of the grain going into store.


Moreover when operating in batch mode we can use weight loss as a means of giving very precise control over the moisture to be extracted; this is accomplished by entering the moisture reading before drying along with the desired output moisture and our software calculates the weight of water to be removed and switches off the burner at the right time to start cooling.

It will then continue to do the rest of the batches you have selected and record the details of each as well as a total dried, by using this system we can save fuel by the avoidance of over-drying.



Model 14-40 
Carnegie



Model 4.5-20 
Biomass East Linton

**Model 6-15
Seed Alford**



**Model 9-20
AJ Duncan**



Graintek work with a wide range of equipment manufacturers of grain handling and processing equipment.

We can supply and install chain and flight conveyors, augers, belt conveyors, belt and bucket elevators and blower systems.

We also supply processing equipment such as dressers, rotary cleaners, aspirators, weighers, chemical applicators, mill mix equipment as well as silos.

Whatever your storage, process or handling needs are, Graintek can provide the right solution for you.





Model 5-10 complete
with generator shed
Banfshire

Little Sis

Model 5-20 Strichen





Control Screen with
 155 route selection along with
 80.265 programming steps



Grain Samplers

Our very own truck sampling probe using hydraulics controlled by our own specially designed hydraulic power pack and joystick with a 12" flush mounted colour camera monitor for directing the probe.



Estonia



Control and Automation



All Graintek Tornado grain dryers are equipped with an advanced PLC control panel featuring 3D graphics for intuitive monitoring and efficient day-to-day operation.

Graintek was an early adopter of PLC control technology for grain dryers. What was once viewed with scepticism quickly became the industry standard, reflecting our long-standing commitment to innovation.

Our product range is designed to integrate within a single control platform, providing a straightforward and user-friendly operating experience.

Graintek designs, builds and programs its control panels in-house, enabling us to deliver solutions tailored to each client's operational requirements.

Our systems can be connected to mobile devices, remote computers and Graintek online services, enabling rapid fault diagnosis, software updates and operational adjustments.

Our PLC control systems are engineered to provide the reliability, performance and automation required by modern industrial operations.

◀ Specially designed control room fitted inside a portacabin





GRAINTEK UK

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