

N. D. Jeans Engineering

Agricultural Bulk Feed Storage and Conveying Systems

Product & Service Guide

StoreWell
Livestock Bulk Feed Hoppers



spares & parts • auger systems • bulk feed hoppers

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Overview

Established over 20 years N. D. Jeans Engineering manufacture a range of hoppers to suit all livestock feeding requirements, from 5 to 25 tonnes with a range of outlet types and configurations. We also supply and install centre-less auger systems, which are suitable for conveying all types of livestock feed. Through partnerships with milking parlour suppliers we are able to provide full dairy parlour systems.

In addition to farm feed systems our versatile system can also be applied to industrial applications, recent examples include a livestock feed mill and a road marking factory.

Bulk feed hoppers

We provide a wide range of bulk feed hoppers ranging from 5 to 25 tonnes which can be supplied with either centre or side discharge cones.

Our hoppers are of a sturdy high quality fully galvanised steel construction. All hoppers are smooth-walled, of either circular or polygon cross section therefore ensuring good flow of feed without the trapping effect of corrugated sections. The hoppers are constructed from heavy gauge (1.6 to 2mm) galvanised steel sheets, with the steel support structure from heavy gauge hop-dip galvanised steel sections. All hoppers are fitted with a comprehensive set of stiffeners to prevent deformation during the load/unload cycle. This gives our hoppers a low maintenance lifespan of 25 to 30 years when correctly cared for.

All hoppers are supplied as standard with a 4" dia. blow & 6" dia. exhaust pipes, and also feed level sight glasses. Hoppers come in plain galvanized finish but for personal taste or local authority planning requirements hoppers can be sprayed in a range of landscape blending colours.

A range of extra equipment is available for the hoppers to suit almost every requirement, in addition to this, non-standard equipment can be manufactured to meet one-off individual requirements.

To provide you with the best quality and value across the range we supply two types of hopper, therefore creating a wider range.

We are the authorised dealer for Crowley hoppers in Southern England. Crowley based in the Republic of Ireland manufacture a wide range of agricultural equipment and have developed a robust, high quality range of hoppers. We import and assemble these hoppers at our works in Somerset, for delivery throughout Southern England.

We also manufacture our own StoreWell hopper range based upon Rowlands hoppers. These are polygon hoppers of a refined high quality design which have been continuously developed over 30 years. These two designs give us a wide range of diameter and height alternatives to suit almost every situation.

Hoppers are delivered, tipped upright and secured to the ground using our specialized hopper transport. We can also relocate second hand hoppers.



All hoppers in our range can be recycled.

Centre-discharge cones

Centre discharge hoppers are suitable for most applications and are available in a range of 3 diameters. Cones are at 60° to allow free flow of compound feeds. Shown near left is a StoreWell 9' 10" dia. 21 tonne hopper fitted with centre-less auger for in parlour feeding and far left is a Crowley 7'6" dia. 5.5 tonne hopper ideal for filling wheel barrows or tractor buckets.



Side-discharge cones

Side discharge cones, only available from a few manufactures. With their outlet outside of the hopper support frame, out-loading into buckets and mixers is direct and gravity fed without the need for augers or long chutes as is the case with centre discharge cones. Also for high level loading via a gravity chute the overall height of the hopper is reduced when comparing to a centre discharge, therefore increasing the likelihood of gaining planning consent.

The support frame is substantially stiffened when comparing to a similar capacity centre discharge hopper to ensure stability given its asymmetric loading and increased height.

Our virtually unique folding chute, fitted to the hopper shown, has several advantages over a traditional chute as it can be folded up and out of the way when not in use to prevent accidental damage. Control of the chute position and discharge slide is by from the ground via extended controls ensuring ease of use. The pictures right show the chute in the lowered and raised positions.

As with the centre discharge hoppers our full range of extras are available, the hopper pictured is fitted with side & roof ladder including safety cage and feed level sight glass.



Ventilation system

All hoppers are fitted as standard with an exhaust pipe to allow air to escape the hopper during filling without leaving dust on the roof. Where high moisture content feeds are to be stored roof mounted moist air ventilators to regulate the hoppers internal atmosphere are available (standard on dairy hoppers). These incorporate an anti-dust valve, which automatically shuts during filling to prevent dust venting onto the hopper roof. Once filling is complete the valve opens to allow moist air to vent therefore preventing condensation.

Hopper extras

Side and roof ladders with full safety cage are available on all new hoppers. They are 16" (40cm) wide and finish 10' (3m) above the ground, and allow access to the roof hatch for inspection and cleaning. **Never enter a hopper without a harness & lifeline and a second person in attendance.**



Bag-off chute for filling bags / buckets / wheelbarrows.

Robust construction ensures long and maintenance free life. Located on the cone of the hopper they are easily accessible, while protected from damage by passing machinery.



Sight glasses are fitted to all hoppers as standard but additional glasses are available on all hoppers for better gauging of feed levels inside the hopper. The feed is visible in this picture.



Outlet adapters to suit other makes of conveyors for both new and replacement applications. Shown here is an adaptor for one of our bins to a daltec boot.



Side access / inspection door allows easy access for cleaning. Doors are normally fitted in the body of the hopper just above the cone. They are fully water proofed and have a sight glass so that a visual check can be made of the feed level before opening. **Never enter a hopper without a harness & lifeline and a second person in attendance.**



Auger systems

We supply and install Chore-Time centre-less spiral flight auger system, which is widely believed to be one of the best available in Europe and North America. Augers can be provided in 75, 90 and 120mm diameters and used to convey all types of livestock feed over distances up to 200 feet. To connect the auger to the outlet of hoppers we custom build auger boxes to best suit each application, this improves efficiency and life-span of the system.

Centre-less spiral augers have a relatively high capacity, therefore reducing running times while their simple nature means that there is no routine maintenance required and few parts that need replacing within the systems lifespan.

Our augers have 6' (1.8m) moulded radius corners allowing them to fit into most situations. The corners have increased tube thickness on the inside of the bend allowing extra wear and so increasing their life.

All feed outlet points can have shut off valves built into the pre formed outlet unit allowing individual outlets to be switched on/off depending upon stocking levels. Feed sensors are used to automatically switch the augers off therefore allowing the system to be left unsupervised.

Drop / Batch feeders (shown right) are currently very popular as a cost effective parlour feeding system. They provide a flat level of feed for the entire herd and are released by simple easy to operate hand pull cords located in the pit. In recent years through our partnership with Dairy Farm Services Ltd we have pioneered the New Zealand style super parlour in South West England.



Second hand hopper re-location

Our specialized hopper delivery transport is also used to relocate second hand hoppers moving them throughout Southern England and South Wales. We are able to relocate most makes and sizes up to 10' (3m) diameter and 25 tonne capacity.



24 tonne 60° centre discharge StoreWell hopper with twin 90mm auger for in parlour feeding.

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