

Specification and Standard Cost

Item No.	Cattle Specific Equipment	Specification	Standard Cost
SG1	Mobile Cattle Handling Systems	Mobile system consisting of race, crush and penning for a maximum of 50 cattle on an integrated road legal trailer. The crush must have a ratchet rump bar with automatic head yoke and auto reset facility.	£10,200
SG2	Fixed Cattle Handling Systems	<p>A corral system which provides a safe and effective holding area and race-way handling facility to attach to a cattle crush.</p> <p>The system can be erected to suit the requirements of the individual site and must consist of the following minimum specification based on the Scotland Rural College (SRUC) technical note 565. This contains 2 holding pens, and gates, 1 circular forcing pen approx. 3-4m radius with galvanised metal and side covers to prevent cattle from seeing to the side, leading to a straight or a curved race 3-5m (depending upon system) side covered length with closure gate which is fitted in the race.</p> <p>https://www.sruc.ac.uk/downloads/file/1064/tn565_recommendations_for_the_design_of_new_safe_and_efficient_cattle_handling_systems</p>	£9,666
SG3	Cattle Crush (Automatic)	With an internal width of 720mm, the crush will have a fully automatic head yoke with auto reset facility, complete access to both sides, rotating rump bar. The crush will be fully galvanised.	£4,050
SG4	Cattle Crush (Manual)	With an internal width of 720mm, the crush will have a manual head yoke, complete access to both sides and a rump bar. The crush will be fully galvanised.	£2,758

Item No.	Cattle Specific Equipment	Specification	Standard Cost
SG5	Squeeze Crush	Hydraulically operated squeeze crush for cattle.	£10,360
SG6	Head Scoop (Cattle)	Restricts the side to side movement of the animal's head providing increased safety for the animal and operator and helps prevent the animal from collapsing.	£542
SG7	Electronic Weigh System	Digital weighing device with the ability to record individual animals and track the live weight gains as well as the capability for drafting. The device will have a computer or mobile device interface.	£1,700
SG8	Weigh Bars / Platforms	Load bars or a platform that is compatible with the crush in place. Capable of weighing up to 2000kg.	£1,150
SG9	Cattle Auto ID Shedding Gate	Gate linked to computer control/EID system to draft cows into two groups automatically.	£6,166
SG10	Foot Trimming add-on to Crushes	Hoof trimming attachment consisting of belly harness/support, front and rear leg winch with lifting strap and four hoof blocks.	£659
SG11	Specialist Foot Trimming Crush	The crush must be specially designed primarily for foot trimming. With an internal width of at least 720mm, the crush will have a head yoke, rotating rump bar. The crush will be fully galvanised.	£4,400
SG12	Calving Detectors	Detector system linked to phone/hand held device to alert when cow begins calving.	£199
SG13	Cluster Flush	System to back flush milking cluster to sanitise unit between cows. Cost is per cluster unit.	£1,013
SG14	Automated Footbaths	A footbath that will automatically fill, dose, flush and replenish.	£4,566
SG15	Heat Detection System - Base Unit	Automated system for the heat detection in cows.	£3,825

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SG16	Heat Detection System - Collar or Ankle Band	Automated system for the heat detection in cows. Neck collars or ankle bands to measure motion associated with oestrous behaviour. Cost is per neck collar/ankle band.	£98
SG17	Milk Analysis Based Herd Management System	Milk sensors that can produce data on conductivity and milk constituents per cow in real time. Cost is per milk point.	£1,400
SG18	Hand-held Automatic Teat Washing System	Hand-held automatic teat washing brush which can wash, disinfect, stimulate and dries all in one visit to the cow. Maximum of two per parlour.	£5,950
SG19	Visual Image Analysis of Cow Body Condition Score	Camera based system which automatically assesses body condition score linked to EID.	£13,871
SG20	Badger Proof Feed Troughs	Cattle feed trough that includes rollers or other mechanisms, which reduce or eliminate the possibility of badgers making contact with feed. Cost is per trough.	£306
SG21	Badger Proof Lick Holders	Cattle mineral/supplement holder, which by design will eliminate the possibility of badgers making contact with the mineral/supplement. Cost is per holder.	£110
SG22	Rotating Cow Brush	A purpose built pivoted rotating cow brush with auto start stop suitable for 50 - 60 cows.	£1,286
SG23	Auto Cattle Weighing Equipment	In field or in buildings (weigh platform in front of water/feed troughs). Equipment which automatically weighs cattle without human intervention, linked to EID. This comprises of a weigh platform (often with water trough), EID reader and weigh head.	£6,843
SG24	Calf Milk Pasteuriser/Dispenser	Battery operated mobile Colostrum/Waste Milk Pasteuriser and dispenser of minimum 150 litres.	£7,033

Item No.	Cattle Specific Equipment	Specification	Standard Cost
SG25	Auto Calf Feeder with Washing Facility	Programmable milk feeder for calves, capable of individually feeding and monitoring calf intake. Able to alert if calf is not drinking or drinking less than normal. Must automatically self-clean feeding tube and teat between each feeding. Cost is one feed station and 25-30 collars.	£8,116
SG26	Additional Feed Station	Purchase of additional feed station for programmable milk feed for calves including 25 -30 collars per station. Up to maximum of 3 additional feed stations.	£2,179

Item No.	Sheep Specific Equipment	Specification	Standard Cost
SG27	Mobile Sheep Handling Systems	Suitable for a minimum of 250 sheep with the aim to allow farmers to handle sheep on blocks of ground away from the main holding. Must include a gathering pen, forcing pen, drafting race, dosing race, side pens, the ability to fit plastic footbath and an integrated road legal trailer. Requirements taken from technical note 606 SAC. https://www.sruc.ac.uk/downloads/file/1219/tn606_sheep_handling_facilities	£7,487
SG28	Fixed Sheep Handling Systems	Fixed sheep handling system consisting of a gathering pen, forcing pen, drafting race, dosing race, side pens and the ability to fit plastic footbath. Suitable for 80 - 100 sheep. The farmer will integrate this into a shed or a larger penning area to allow them to handle as many sheep as the farm requires. Requirements taken from technical note 606 SAC https://www.sruc.ac.uk/downloads/file/1219/tn606_sheep_handling_facilities	£3,337

Item No.	Sheep Specific Equipment	Specification	Standard Cost
SG29	Electronic Weigh Scales	Electronic weigh crate with EID compatibility to be used in conjunction with Electronic Weigh System. The weigh system will be a digital weighing device with the ability to record individual animals and track the live weight gains as well as the capability for drafting. The device will have a computer or mobile device interface.	£4,832
SG30	Sheep Handler	Crate or clamp style sheep handler for efficiently dagging, dosing and sorting sheep.	£3,273

Item No.	Pig Specific Equipment	Specification	Standard Cost
SG31	Fixed Handling System for Pigs	<p>Suitable for adaptation in either indoor or outdoor production systems.</p> <p>Pig race consisting of sheeted hurdles and gates. This must be a system which provides a safe and effective race-way handling facility capable of being connected to a weighing facility; either an individual crate or a weighing platform.</p> <p>The system can be erected to suit the requirements of the individual site and must consist of the following minimum specification: 2m x 1m hurdles lined with 9mm Stokbord sheeting or similar recycled sheeted material capable of cleaning and disinfection (Qty:10), 2m wide drafting gate in frame 50mm x 50mm, also Stokbord sheeted, race joiner, coupling pins (Qty:20). All items should be constructed as a minimum from galvanised but preferably in stainless steel, which is lighter, significantly stronger and resistant to corrosive attack from acidic disinfectants.</p>	£2,100

Item No.	Pig Specific Equipment	Specification	Standard Cost
SG32	Electronic Pig Weighing Facility	<p>To be used in conjunction with an integral Electronic Data Management System.</p> <p>Digitally-based weighing facility with the ability to record live weights for individual pigs or potentially batches of pigs as well as the capability for manual or auto drafting. Suitable for use in both indoor and outdoor production systems. The facility will have a computer or mobile device interface to an integral electronic data management system. Capable of weighing pigs from 7kg to 125kg.</p>	£2,900
SG33	Enclosed Piglet Creeps and Heat Pads	<p>Both capable of thermostatic control to optimise energy efficiency.</p> <p>Made from GRP (glass-reinforced plastic) insulated panels, suitable for effective cleaning and disinfection. They feature purpose built elements to ensure even heat distribution over the whole surface area thus allowing all piglets access to warmth. The power cable is protected from animal damage by a flexible stainless-steel tube. Pads are available with or without a sensor along with a temperature controller capable of running up to 1800 watts.</p>	£387

Item No.	General Livestock Equipment	Specification	Standard Cost
SG34	EID Hand-held Devices	Hand-held reader with RFID technology for individual reading and recording of animals that must be capable of exporting data to a computer based software package for the active monitoring of livestock.	£1,222

Item No.	General Livestock Equipment	Specification	Standard Cost
SG35	EID (Stick) and Panel Readers	Stick reader with RFID technology for individual reading of animals. Must be capable of scanning tags and storing data, with the ability to connect wirelessly to phones or other devices. Must be able to read HDX and FDX B tags.	£550
SG36	Auto EID Drench Gun	A drenching gun that wirelessly communicates with a weigh head to automatically adjust the dosage of drench or pour on, depending on the animal's weight.	£850
SG37	Pasture Plate Meter (Hand-held)	A hand-held device to assess grass cover by measuring total height and the number of measures. The device must have the capability of storing separate paddocks and for the data to be downloaded to a computer.	£550
SG38	Pasture Plate Meter (Trailed)	A trailed device to assess grass cover by measuring total height and the number of measures. The device must have the capability of storing separate paddocks and for the data to be downloaded to a computer.	£2,650
SG39	Electric Fencer Energiser	Solar powered Electric Fencing Energiser providing at least 0.15 joules with integrated battery	£240

Item No.	Precision Farming Equipment	Specification	Standard Cost
SG40	GPS for Precision Farming	A standalone GPS unit with automatic field boundary measurement and field recognition. It must have a minimum capability of straight and curved guidance modes with the ability to print maps.	£1,366

Item No.	Precision Farming Equipment	Specification	Standard Cost
SG41	Yield Mapping	An electronic device to connect to a combine or forage harvester to monitor crop yield during harvest. It will provide information on harvesting rate, with total and partial area (field) yield of crop.	£4,730
SG42	Variable Rate Controller for sprayers and fertiliser spreaders	An electronic device to connect to an existing sprayer or fertiliser spreader for the purposes of variable rate application. The regulation system will work from either a pressure or a flow sensor and provide information on forward speed, application rate, total and partial area, total and partial volume applied, boom and section status and pressure, flow rate and tank level.	£4,625
SG43	GPS and Flow Systems	Slurry flow meter, cab display/controller and GPS system.	£4,506
SG44	Measuring nitrogen levels in crops using light reflectance	Tractor mounted sensor to determine the nitrogen status of the crop using light reflectance to enable real time variable rate Nitrogen fertiliser application. Offer includes sensor and linkage to variable control on fertiliser spreader.	£22,500

Item No.	Resource Management and Efficiency Equipment	Specification	Standard Cost
SG45	Trailing Shoe Slurry System including Macerators	Trailing shoe slurry applicator, minimum 6m working width. To fit to slurry tanker or attach to flexible pipe/umbilical system. Includes pipework, stone traps, lines, full length sight glass.	£21,500
SG46	Dribble Bar	Dribble bar applicator, minimum 6m working width. To fit to slurry tanker or attached to flexible pipe/ umbilical system.	£10,000
SG47	Shallow Injection Systems	Injection system to inject slurry into soil surface. To fit to slurry tanker or attach to flexible pipe/umbilical system.	£22,169

Item No.	Resource Management and Efficiency Equipment	Specification	Standard Cost
SG48	Umbilical Hose Reeler	Umbilical hose reeler, random or compartmentalised trailed or mounted.	£3,418
SG49	Trailed Compartmented Reeler	Trailed compartmented (minimum size of 1600m).	£11,162
SG50	Heat Recovery Unit/Plate Cooler	System to remove heat from milk before entering the bulk tank. HRU to heat water suitable for parlour/tank wash-down.	£6,950
SG51	Variable Speed Drives on vacuum pumps and/or milk pumps	Variable speed vacuum pump (saves electricity by varying the speed to only perform the work required).	£4,585
SG52	Improving efficiency of Plate Heat Exchanger (PHE), including solenoid valve	Control equipment regulates cold water flow to match the flow of warm milk, saving both electricity and water.	£3,393
SG53	Hydraulic Ram Pumps (water)	Pump working by hydraulic pressure to raise clean water. Pump plus sediment chamber, pump chamber, drive pipe, distribution pipe, 5,000l (minimum) header tank and return pipe. System assumes 20l/min flow, 3m head with 10 - 20m lift, 300m delivery pipe and two spurs.	£4,996

Item No.	Other General Equipment	Specification	Standard Cost
SG54	Seed Drills	Direct or strip till drill capable of working through cover crops. Minimum of 3m working width with pneumatic hopper and pre emergence markers.	£23,500

Item No.	Other General Equipment	Specification	Standard Cost
SG55	Robotic Silage Pusher	Robotic system with intelligent software and programmable for the intended feed passage. The equipment must have the capability to detect the distance from the feed barrier along with the amount of feed in the passage.	£12,000
SG56	Electric Scraper Systems	Slurry scraping system with electric motors. To run automatic hydraulic drive or rope / chain winch. (Replace a tractor scraping system). Excludes installation costs.	£16,000
SG57	Humidity Controls for grain drying and dehumidifiers	Control system to sense humidity and control intensity (fuel use) of drying process. Includes duplex burners for use with fan installation. SMS Text Alert System is designed to continuously monitor the running of bulk grain drying temperature controller for multiple grain cooling fans.	£6,075
SG58	Grain stirrers / thermostatic switches / automatic grain temperature (and SMS warning) monitoring.	Grain stirrers with thermostatic switches coupled to temperature monitoring. Must include SMS warning system.	£17,050
SG59	Digital Weather Station linked to computer with software.	A system/station that has the minimum functionality to record barometric pressure, temperature, humidity, rainfall, wind, solar radiation, UV and soil moisture and temperature. Most systems require additional modules to meet this specification. The system must also have GPRS transmitters. The cost includes the sensor, mounting facilities and the minimum selection of 5 sensors. Excludes installation costs, service costs and calibration.	£2,687

Item No.	Other General Equipment	Specification	Standard Cost
SG60	Wide Area Network equipment to connect devices on farm	Wireless network repeaters to extend an existing wireless network to enable devices to connect for agricultural use.	£220
SG61	Fibre Optic Networking Equipment	Fibre optic networking to enable devices to connect for agricultural use.	£610