



Registered in England No 1561511

Griffith Elder and Company Ltd

1 Oaklands Park
Bury St Edmunds
Suffolk IP33 2RW
United Kingdom

Telephone: +44 1284 763616
Email: sales@griffith-elder.com

Fax: +44 1284 700822
Web: <http://www.griffith-elder.com>

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Typical Installation

Equipment	Price
A. Computer Equipment and Software	11,412.00 GBP
B. 15 Roughage Bins	85,500.00 GBP
C. 2 Meal Bins	12,618.00 GBP
Final Price of complete installation	109,530.00 GBP

Items not supplied

Mains electricity for the above system, including: Provide a main power cable from a 30 amp fused point (not provided, must be within the building) and a spur to each of the local controllers terminating with switched isolator at each position
Upright posts, to be concreted into (or bolted to) the floor in accordance with our drawings
Low level concrete or wooden wall under the tombstone barriers.

Terms of supply

Payment of 30% with order, 60% before delivery, 10% on final commissioning.
Delivery normally from 16 to 18 weeks from date of order.
VAT is not included in the prices shown and will not be charged if your registration comes within the EEC guidelines for VAT control or the equipment is invoiced outside the EEC.
Warranty on all equipment supplied and installed by us is 2 years from date of commissioning.
Prices are valid for 90 days from the date shown above.
All other term and conditions as per our standard terms, copy available on request.

Notes

Each roughage bin is suitable for a maximum of four cows to eat from giving enough feed for one complete day (24 hours). Experience shows that it is preferable to have a ratio of 3 to 3.5 cows per bin as there is always a rush for food immediately after milking and a lower ratio reduces bullying.

Concentrate Meal bin dispensers are suitable for between 12 to 20 cows each. Up to three concentrate pellets of different types can be fed via these bins.



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Detailed Prices of components

A. Computer Equipment

No.	Description	Price each	Total
1 off	MealMaster computer programme for Microsoft Windows 2000 professional or Windows XP professional operating system, for complete monitoring and control of feed intake system	7,590.00	7,590.00 GBP
1 off	RS 422 card for communication from the computer to the feed stations,	226.00	226.00 GBP
1 off	Reel of RS422 cable from computer to first feed station and on to each other station. 250 metres	412.00	412.00 GBP
1 off	Lightening protection circuit for RS422 line	415.00	415.00 GBP
1 off	Uninterruptible Power Supply for computer to protect computer in the case of power failure. This does not allow the feeders to operate, but will allow them to come back on line when the electricity returns	642.00	642.00 GBP
1 off	Computer, PC with Pentium 4 2.4 GHz processor or equivalent, 80 Gb hard drive, 512 Mhz RAM, 15" TFT display, keyboard and mouse, all configured with Windows 2000 or XP professional and software	941.00	941.00 GBP
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	Price of computer equipment		10,226.00 GBP
	Delivery Cost (typical)		280.00 GBP
	Installation and commissioning of computer equipment		570.00 GBP
	One full day for training of staff, to be given at the time of final commissioning		336.00 GBP
	<u>Total price of Computer Equipment</u>		<u>11,412.00 GBP</u>



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B. Roughage Bins

No.	Description	Price each	Total
1 off	Power Supply / local indicator Unit To operate from 240 Volt ring main supply.	858.00	858.00 GBP
1 off	Fibreglass Access Door ready to be fitted to steel tombstone. Incorporates proximity switch (door open/shut sensor), solenoid operated bolt and sprung hinge.	427.00	427.00 GBP
1 off	Electronic Identification Reader Operates from local indicator unit and identifies animals.	834.00	834.00 GBP
3 off	Loop antenna to fit to barrier for detection of ear transponders.	213.00	213.00 GBP
1 off	Galvanised Steel Tombstone Barrier for one position. To be mounted between posts bolted to the floor with mounting points for access doors and cable trays above.	450.00	450.00 GBP
1 off	Large capacity GRP bin on load cells, 550 litre capacity, with stand, and loadcells, tipping capability, nose bar included, to be bolted to the floor in front of tombstone barriers. Weighs to 0.1 kg.	1,640.00	1,640.00 GBP
1 off	Load cell controller board in housing.	418.00	418.00 GBP
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	Price of Roughage Bin		4,840.00 GBP
	Delivery Cost (typical)		260.00 GBP
	Installation of the equipment		600.00 GBP
	Total Price of One Roughage Bin installed		5,700.00 GBP



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C. Meal Bin (Concentrates)

No.	Description	Price each	Total
1 off	Power Supply / local indicator Unit To operate from 240 Vdt ring main supply	858.00	858.00 GBP
1 off	Fibreglass Access Door ready to be fitted to steel tombstone. Incorporates proximity switch (door open/shut sensor), solenoid operated bolt and sprung hinge.	427.00	427.00 GBP
1 off	Electronic Identification Reader Operates from local controller and identifies animals at 3 positions.	834.00	834.00 GBP
1 off	Loop antenna to fit to barrier for detection of TIRIS ear transponders.	213.00	213.00 GBP
1 off	Galvanised Steel Tombstone Barrier for one position. To be mounted between posts bolted to the floor with mounting points for access doors and cable trays above.	450.00	450.00 GBP
1 off	3 ingredient Meal Bin (concentrates), dispensing of each ingredient controlled from the computer. Single turn augers dispense known amounts.	2,567.00	2,567.00 GBP
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	Price of one Meal Bin		5,349.00 GBP
	Delivery Cost (typical)		260.00 GBP
	Installation of the equipment		700.00 GBP
	Total Price of One Meal Bin installed		6,309.00 GBP