



Herd Management

Complete and reliable data at a glance.

 **MILFOS** | **WestfaliaSurge**

engineering for a better world



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Overview

Today, successful milk production requires a thorough understanding of numerous critical factors: relevant information must be available and monitored, which important decisions have to be derived from, and finally they have to be implemented at the right time.

Precision livestock farming is more than just electronic animal identification. To be better equipped for the future, the use of electronics to control various working processes is essential. It's very clear that, in addition to recording, monitoring, maintaining and controlling data, the interactive exchange of information is becoming increasingly important.

GEA provides the solutions to achieve these goals.

Give yourself more time and automate tasks with herd management solutions from **GEA**.



Heat Detection and Health Management

Detection of cow's on-heat is a key performance factor in your reproduction program.

Not only does accurate detection improve conception rate, reduce insemination related costs and minimise days open leading to increased production, it also identifies non cycling cows for treatment. Healthy cows being treated for fertility related issues are as much of a problem as those with actual issues.



CowScout™

CowScout™ is the new generation in heat detection.

It is a stand-alone system which gathers and records time spent eating/grazing as well as activity, using the **CowScout™** neck tag, which indicates an animal is likely on heat.

The **CowScout™** tag works with a 'G' sensor accelerometer to gather and record the animals time spent eating or grazing as well as their activity to determine when an animal is on heat.

The simple to use collar does not require a weight and it has a quick release buckle allowing for easy handling. The system can manage up to 10,000 tags with cows being able to be divided into 100 groups. The tag has an expected battery life of about 10 years.



How does it Work?

CowScout™ can be standalone program or integrated with **DairyPlan C21** Herd Management System (activity data only) or **iIDENTITY** drafting system (alerts only). Using **CowScout™** and a herd management system allows for automatic drafting to be set in place.

Data collected is stored in 2 hour blocks with 24 hours of data being stored in the tag itself. Data is constantly transmitted to the database when in range of the antenna. Two antenna options are available: the standard antenna has up to a 500m range while the long range antenna has a range of up to 1000m.

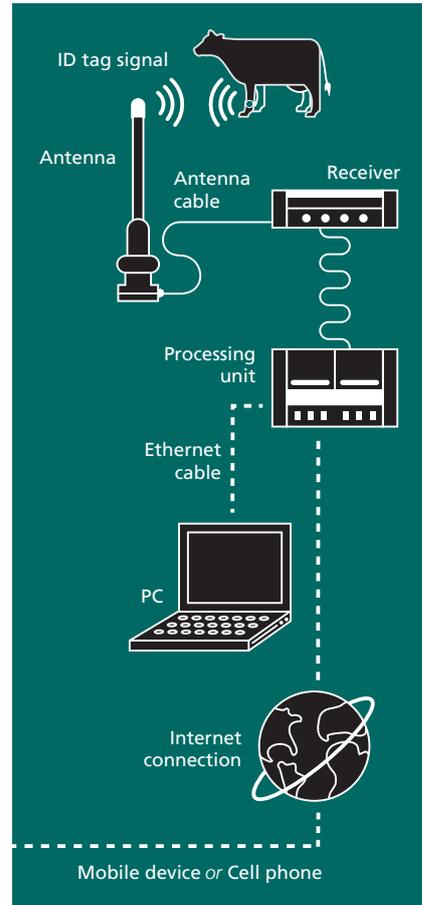
CowScout™ data can be transmitted from the antenna to a cloud based database, via an internet connection. The data can then be accessed anytime from anywhere with an internet connection.

Layouts of the screen are specifically designed for computer access or tablet/ smartphone access making the viewing of data simple and easy.

Real time alerts can be setup, and emailed to the farmer or other designated people, allowing them to know immediately when a cow is on heat, have lowered their eating pattern, or there is a system problem that needs to be addressed. They can set what times of the day they want to receive these (so they won't necessarily get an alert at 1am!).

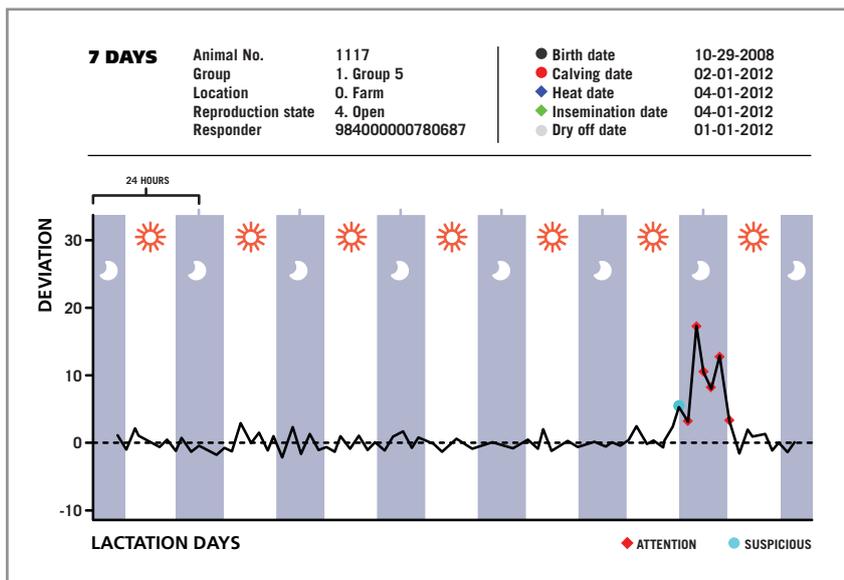
Why Choose CowScout™?

- Activity monitoring to increase in-calf rates
- Data collected 24/7 and sent in Real Time
- Expected battery life approx. 10 years
- Eating monitoring to better monitor herd health
- Read on a tablet or smart phone with alerts sent to email



How can CowScout™ benefit your herd?

- CowScout™ helps increase the in calf rates through accurate and timely heat detection.
- The average oestrus cycle lasts up to 32 hours with the optimal insemination time being 10 hours after the onset of oestrus. Utilising CowScout™ will help detect the optimal insemination time allowing for increased conception rates through accurate AI timing.
- In year round calving herds it can increase the 80 day submission rates, while in split or seasonal herds it can increase the 3 week submission rates.
- Reduce the number of days open.
- Increase in the number of replacement heifers.
- Early detection of cows with fertility problems.
- Decrease the cost of labour and time spent on detecting heat.
- Reduce the need for hormone therapies in many cows.
- Improving herd fertility improves the overall herd profitability.
- Metabolic disorders especially in newly calved cows can be detected early on with eating monitoring. This allows for a shorter recovery time with minimal treatment costs and helps to avoid a drop in milk production.



CowScout™ Software - An example of an easy to read graph generated by the CowScout™ software running on a Windows PC.

Installation options:

A typical installation of the CowScout™ system allows for multiple options to suit your current setup.

Option 1: CowScout™ can be installed in a stand-alone situation with an active internet connection. In this situation, the data is available to be viewed from any device (computer, phone, tablet) that can connect to the internet and real-time email alerts are available.

Option 2: CowScout™ is able to be installed on a local area network (LAN) for farms without an active internet connection. In this situation, data is only stored on the users PC, therefore the software is unable to send real time alerts.

Option 3: Can provide activity data directly into a current installation of DairyPlan. Whilst this method removes the eating time data and web portal from the system it enables the system to be integrated without the purchase of a VPU.

Option 4: CowScout™ is able to provide activity alert information directly to iDENTITY software & drafting gate. This method sends the optimum time for mating from CowScout™ to allow drafts to be set accordingly. The activity and eating data do not transfer to iDENTITY.

As well as software system integration options, CowScout™ offers multiple tags to enable the system to integrate with your current setup.

1. The I-tag is a tag that has the capability to ID with GEA ID systems as well as transmits the data to the remote antenna. These tags would be ideal in situations where collar ID is already being utilised in a GEA setup.
2. The S-tag is a tag with no ID function and not designed to be used for milking place ID or ID at a drafting gate. These collars can go on cows already using eartag ID for their milking and drafting equipment.



Rescounter III

Heat detection is an important and time consuming part of the seasonal management of your cows.

Reduce time spent detecting heats with the **Rescounter III**! The **Rescounter III** works directly with **DairyPlan C21** to record and monitor the cow's activity data, alerting the user when the cow is likely on heat, as well as indicating the cows that have not cycled.

The **Rescounter III** has a G-sensor located inside, allowing the device to detect which position the cow's head is in and alerting the farmer of more true positives. The device stores up to 24 hours' of data which is downloaded to the **DairyPlan** program through the ID loops located at the entrance to the shed, or in an exit lane. The rescouters double as the ID for the cows for bail ID and/or for drafting.

All of the activity data is stored and recorded in 2 hour blocks of time. **DairyPlan** looks for several consecutive higher than the cow's normal values to trigger activity alerts for the cows that are likely on heat. Having the data detailed in small blocks, allows the user to determine the optimal time to inseminate the cows for greater conception. Users can set their own limits of sensitivity to allow for maximum success on their farm. Cows with elevated activity can be automatically drafted and be waiting for the AB technician on a daily or twice daily basis.

As the data is gathered, cows with unusual cycles, or those not cycling at all can be identified. Drafting them can be done automatically, allowing intervention to happen easily and earlier resulting in getting more cows in calf earlier.

- **Rescounters** are worn on the cow's neck for easy fitting and removal
- **Rescounters** can be moved to a new cow when a cow is being culled from the herd
- Works with herds milked once per day
- Changes in distances to different paddocks do not create false alarms



Herd Management Software

Herd management made easy - complete and reliable data at a glance: From feed consumption and milk yield totals up to results for each individual animal, up-to-the-minute and all year round. You'll always have reliable data to base your decisions on.

GEA offers two valuable solutions for effective animal management, **DairyPlan C21** and **iIDENTITY**. You can write new reports or customise existing information to suit your cow, herd or management practices.

Options for advanced analysis of cow health, reproduction, nutrition and milk composition, ensure that you have the best information available to manage your operation effectively and profitably.



DairyPlan Herd Management Software

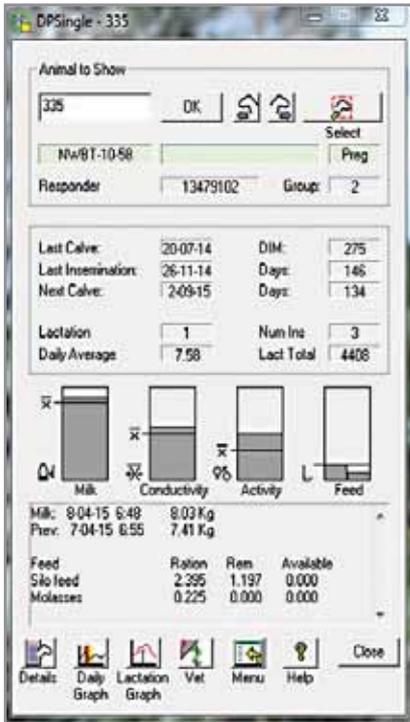
DairyPlan has been designed to be a fully-functioning herd management software package combined with the process control functions needed to run the equipment connected such as milk meters, drafting gates, feeding and weigh scales.

DairyPlan Menu

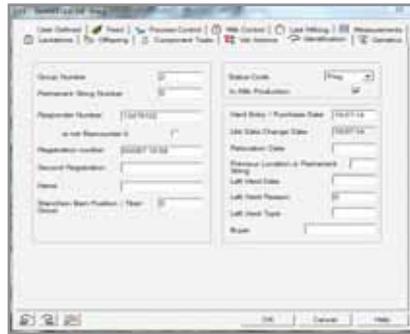
The **DairyPlan** menu has been upgraded to include a customised menu specifically developed for the grazing farms of New Zealand and Australia. Easy to navigate for the new user and complete enough for the seasoned user, the new menu incorporates all the reports and graphs into the menu bar and all the data entry into the working area.



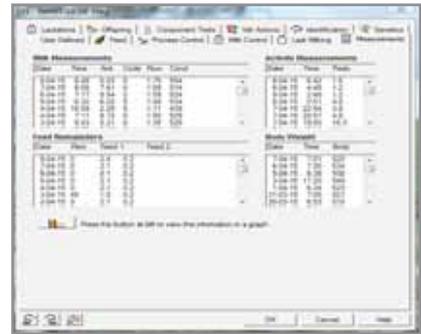
Above: Upgraded DairyPlan Menu



Individual cow lookup tool



Reproductive status of specific cow



Drying off

Potential Cull List (enter limits in boxes to left)													
	Cow Number	Age in years	Expected Calving date	Status Word	Lact Total Milk	Lactation Total Solids	Average SCC Testthis Lactation	Most Recent SCC	Previous SCC	2nd Previous SCC	3rd Previous SCC	Count of Mastitis	Count of Lamene..
Mastitis Count													
2													
Lameness Count													
2													
Average SCC	2	10.5*	9-09-15	Insem	3835	340	131	217	45	0	0	0	0
250	4	3.5	14-09-15	Insem	2827	241	402*	579*	225	0	0	0	0
2 Individual SCCs	20	11.5*	16-08-15	Insem	2795	245	39	31	47	0	0	0	0
400	21	5.5	6-09-15	Insem	1800*	147	68	61	75	0	0	0	0
Lactation Total Milk	24	3.6	24-08-15	Insem	1845*	133	74	74	0	0	0	0	0
2000	25	8.5*	18-09-15	Insem	2800	151	751*	751*	0	0	0	2*	0
Cows over X years	27	6.5	4-09-15	Insem	2559	193	449*	43	855*	0	0	0	1
80	29	4.5	26-09-15	Insem	2494	199	16	16	29	6	0	0	2*
Due after	32	8.5*	7-09-15	Insem	3020	240	34	52	16	0	0	0	0
1-10-15	41	6.5	2-09-15	Insem	3107	233	43	26	60	0	0	0	3*
OK	45	2.5	15-09-15	Insem	1445*	130	138	28	248	0	0	0	0
	47	3.5	27-09-15	Insem	1838*	132	1799*	3562*	95	0	0	1	1
	54	5.5	16-08-15	Insem	2973	224	479*	22	936*	0	0	1	0
	61	10.5*	17-08-15	Insem	1879*	162	263	15	511*	0	0	0	1
	77	6.5	14-09-15	Insem	2612	189	703*	703*	0	0	0	0	0
	79	3.6	1-03-15	Insem	1880*	118	20	20	0	0	0	0	0

Potential Cull List

Cow Management

DPSingle

DairyPlan's individual cow lookup tool, gives you all the animal's data stored within the software. It is easily accessed from the DairyPlan menu, as well as any reports and various other locations throughout the software. The front screen gives a general overview of basic information for the animal, but by clicking the 'Details' button, 12 more screens of information with further specifics are also available. These areas include lactation/season total data for lifetime, offspring information, herd testing results, weekly averages, recorded vet and health records, identification, genetic/ancestry, feed, milk withholding, details on the last milking and a history of individual measurements recorded.

Reproductive Status

The animal's reproductive status is recorded and kept in the software. Some status changes happen automatically in the software based upon days since an event - the number of days is defined by the user. Other status changes happen due to events recorded on farm towards a specific animal.

Drying Off

Reports to help making drying off easier are included in DairyPlan. Whether you dry off all animals on a specific day, or want to dry off pregnant animals as they start producing below a specific threshold, DairyPlan's reports can assist you. Users need to record that an animal has been dried off, which then allows alerts to be presented in the shed if a dry cow enters to be milked.

Culling

Using all the data stored and entered into DairyPlan, DairyPlan can give the user a list of potential cull animals based on criteria that the user sets. Cows meeting one or more of the criteria are listed and users are able to make further culling decisions from this data.

Production

Milk production can be closely monitored with the DairyPlan software when used in conjunction with the milk meters. Milk weights are automatically transferred into the individual cow's records via the milk meters and ID system.

These individual milk weights are stored in each animal's records, and daily totals, weekly averages and deviations are available to be viewed individual in DPSingle, or in reports and graphs. Lactation and season totals are tallied and kept for the lifetime of the animal.

Total herd production can be displayed in standard reports and graphs, or you can customise your own. Cows with sudden and unexpected deviations from their expected production can be displayed on reports allowing the user to manage and make decisions regarding these animals accordingly. Getting lists of the top percentage or bottom cows according to milk production is just one of the many ways you are able to view the milk data in DairyPlan.

Disease and Treatment Records												
Animal Number	VetAction Reason	Start Date of Disease/ Treatment	Time of Quarter Treatm.. Treat..	VetAction Name	No of Doses	Per Dos Amount	Unit of Medicine Dosage	LastTreatment Date	VetAction Worker	Mik Withholding Periods	Clear by	Milk Returned to Vat
346	LAMENESS	1-12-14	AM	0	Bovipen	3	25 ml	3-12-14		12	7-12-14 PM	8-12-14 AM
373	MASTITIS	3-12-14	AM	0	Clavulox	2	3 Syri	4-12-14		8	7-12-14 PM	8-12-14 AM
1501	MASTITIS	3-12-14	AM	0	Clavulox	2	3 Syri	4-12-14		8	7-12-14 PM	8-12-14 AM
1259	LAMENESS	5-12-14	AM	0	Ketofen	1	12 ml	5-12-14		0	5-12-14 PM	6-12-14 AM
487	LAMENESS	6-12-14	AM	0	Ketofen	1	12 ml	6-12-14		0	6-12-14 PM	7-12-14 AM
784	MASTITIS	6-12-14	AM	0	Clavulox	2	3 Syri	7-12-14		8	10-12-14 PM	11-12-14 AM
153	LAMENESS	7-12-14	AM	0	Betamox	1	50 ml	7-12-14		8	11-12-14 PM	12-12-14 AM
345	LAMENESS	7-12-14	AM	0	Bovipen	3	25 ml	9-12-14		12	13-12-14 PM	14-12-14 AM
487	LAMENESS	7-12-14	AM	0	Bovipen	3	25 ml	9-12-14		12	13-12-14 PM	14-12-14 AM
1201	LAMENESS	7-12-14	AM	0	Betamox	1	50 ml	7-12-14		8	11-12-14 PM	12-12-14 AM
1632	LAMENESS	9-12-14	AM	0	Bovipen	3	25 ml	11-12-14		12	15-12-14 PM	16-12-14 AM
182	MASTITIS	10-12-14	AM	0	Clavulox	2	3 Syri	11-12-14		8	14-12-14 PM	15-12-14 AM
1340	LAMENESS	10-12-14	AM	0	Bovipen	3	25 ml	12-12-14		12	16-12-14 PM	17-12-14 AM
1520	LAMENESS	11-12-14	AM	0	Bovipen	3	25 ml	13-12-14		12	17-12-14 PM	18-12-14 AM
1663	LAMENESS	16-12-14	AM	0	Ketofen	1	12 ml	16-12-14		0	16-12-14 PM	17-12-14 AM
345	LAMENESS	20-12-14	AM	0	Betamox	1	50 ml	20-12-14		8	24-12-14 PM	25-12-14 AM
1616	LAMENESS	22-12-14	AM	0	Betamox	1	50 ml	22-12-14		8	26-12-14 PM	27-12-14 AM
459	MASTITIS	28-12-14	AM	0	Clavulox	2	3 Syri	29-12-14		8	1-01-15 PM	2-01-15 AM
813	LAMENESS	31-12-14	AM	0	Bovipen	3	25 ml	2-01-15		12	6-01-15 PM	7-01-15 AM
19			AM			38	426			156	PM	AM

Disease and treatment records

Body Live Weight Summary					
	# of Cows	Body Wt @ Calving	Body Wt @ 90 DIM	Body Wt @ 180 DIM	Body Wt @ 270 DIM
2 Year Olds	400	422	406	440	472
3 Year Olds	305	455	449	481	469
4 Year Olds	215	489	479	501	525
5 Year Olds	174	498	472	482	543
6 Year Olds	306	516	510	521	542
7 Year Olds	266	513	505	513	541
8 Year Olds	142	549	537	549	572
9+ Year Olds	239	523	517	528	535
	2047	487	477	496	527

Body weight summary

This report lists all the required information recorded in your dairy diary for shed inspection and meets the recording requirements. Entering this information directly into DairyPlan can save you time from manually recording information already recorded electronically in the software.

Report Generator

DairyPlan comes pre-loaded with over 100 standard reports. While these reports will meet many farmers’ needs, the reports can also be customised to suit individual farms. Quick access to DPSingle, DPVet, and graph views are available from all the reports throughout DairyPlan.

DPList, the report generator tool in DairyPlan, is one of the most powerful report generating tools available to farmers today within a herd management program. Over 1200 codes are available to be used when creating reports and lists, and mathematical calculations can be done within the report generator too allowing users to calculate values that DairyPlan might not store by default.

Reports, either standard or custom, can be automatically printed or exported into electronic files at various different schedules determined by the user.

Body Weights

Live weights can be automatically collected from a walkover weigh scale located in conjunction with a drafting gate. Each cow has the potential to be weighed at every milking, allowing multiple body weights to be recorded into DairyPlan to generate weekly averages. Cows showing more than acceptable weight loss can be added to reports allowing them to be checked and attended to quicker.

Body weights for the herd can be tracked by age group allowing the manager to see how the cows have changed weights throughout the season. This data can also be graphed over the season and seasons past. Body weights can also be tracked in DairyPlan’s herd statistic tool, allowing the user to see average weights from previous years.



Body Condition Scores

DairyPlan can store body condition scores - either by manually inputting them into the software or by importing them from another source (i.e. if your vet scores your cows in their own software package.) These scores can be used with the automatic feeding functions in **DairyPlan**, allowing the software to automatically add some feed to cows that are too skinny or below a BCS that the user defines.

Component Test Results

Herd Test results can easily be imported into **DairyPlan**. This allows the software to calculate the amount of milk solids the cows are producing. Somatic cell counts can also be imported allowing changes and trends in SCC per cow or per group to be monitored. SCC can also be used in the Culling Report as a criterion for determining voluntary culls.

Feeding from DairyPlan

DairyPlan can control in-shed feeding systems and feed each cow its own individual ration. Several different feed schedules can be setup within the software and then cows are assigned to the appropriate schedule. When feeding from **DairyPlan**, the software ensures that cows will not be fed twice if they happen to go around on a rotary a second time.

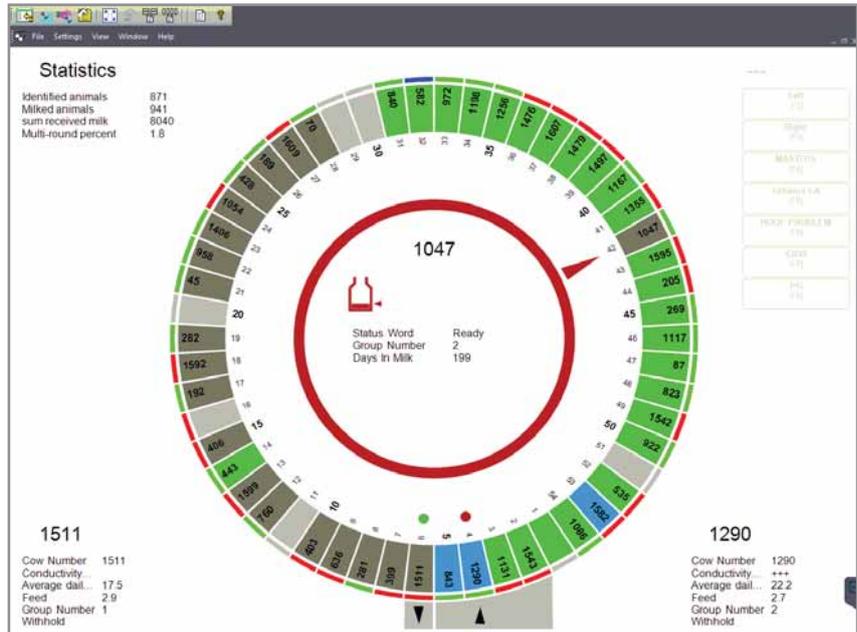
DairyPlan has several automatic feeding options available to use. Farms can choose to feed the cows by batch - where the user sets a flat amount of feed to be fed to each cow, or a specific group. Farms could also choose to feed the cows based upon their current yield. With this scenario, the user sets the benchmarks for the feed per certain amounts of production, then **DairyPlan** calculates what each cow should receive accordingly each day based upon her current 7 day milk average.

As a cow increases her production, **DairyPlan** will increase her feed appropriately and automatically. Cows just a few days since calving, can be fed according to days, to ensure that even a lower producing colostrum cow is being fed suitable amounts.

If you have imported the fat and protein values from a herd test, **DairyPlan** also has the capability to feed by fat/protein corrected milk. This method will feed cows that have higher solid production more than a cow that does not produce as many solids.

No	Status	Cow	CondShow	AvMilk	Formula	Gp	DIM
49	ID	1482	-	19.6	3.0	1	208
48	Milk	1191	--	24.7	3.2	2	190
47	Milk	956	++	23.6	3.3	1	213
46	Milk	1805	--	16.3	2.9	1	200
45	Milk	1508		19.7	3.0	1	209
44	Milk	685	++++	21.0	2.6	2	186
43	Milk	1544	+	16.4	2.9	1	200
42	Milk	1405	+++	30.3	3.8	2	175
41	Milk	1394	+++	26.0	3.4	2	209
40	Milk	1470		19.9	2.3	2	182
39	Milk	1585		16.0	2.8	1	195
38	Milk	627		17.4	2.3	2	200
37	Milk	397	---	17.3	2.9	1	214
36	Milk	611	-	18.0	3.0	1	216
35	Milk	300	---	25.7	3.4	2	202
34	Milk	1067	++	18.1	3.0	1	209
33	Milk	923	+++	24.3	3.2	2	209
32	Milk						
31	Milk	826		23.3	3.0	2	202
30	Milk	1348	-	25.7	3.5	1	193
29	Milk	1531	++	18.1	3.0	1	211
28	Milk	1489	+	23.3	3.3	1	168
27	Milk	1084	+	11.9	2.3	2	183
26	Milk	932	--	17.2	2.3	2	207
25	Milk	1329	++	26.6	3.5	2	153
24	Milk	1584	+	24.1	3.4	1	207

Shed information viewed in grid format



Information viewed in rotary format

Drafting from DairyPlan

When your drafting gate is paired with the **DairyPlan** herd management software, you have powerful combination! The connection to **DairyPlan** allows automatic drafts to be scheduled in advance and for numerous reasons, while still permitting the milking staff to draft a cow from the bail during milking.

Lists of cows needed for a one-off draft can be easily created from reports in **DairyPlan** and those cows quickly set to draft, saving data entry time and mistakes! Cows can also be auto-drafted for nearly any reason, at every milking or only at a particular milking session.

Touchscreen option

DairyPlan has a view that has been specifically designed to work on touchscreens, allowing the user to see which cow is in which bail, as well as user-defined details about the cows. Alerts such as low milk or high conductivity can be seen on the touchscreen and illnesses and treatments can be entered with the DPView HotKeys. HotKeys for sorting or drafting the cows can be added as well. The shed information can be viewed in a grid format as well as in a rotary view, when the rotary view is purchased.

Animal Announcements

When animals come into the shed, certain alerts and announcements can be pre-programmed for cows meeting certain criteria. Users can select from 13 pre-defined options to turn on or off, as well as setup limitless amounts of alerts through the user-defined area. Popular options include announcing 3 teated cows, high conductivity cows, and cows with a sudden drop in milk. There are several voices to choose from - including men's and lady's voices - with several different accents.

Interfacing with other software

Information entered into **DairyPlan** can be exported and electronically transferred to the National Database in New Zealand. This can save the user hours of duplicate entry. Information can also be imported into **DairyPlan**, allowing one database to contain all information about your herd. A start-up database can be imported from various sources. Herd test results, pregnancy scanning results, and body condition scores are a few of the data commonly imported into **DairyPlan** by users.



AutoSelect 5000

The ultimate dairy sorting system

GEA can offer you various systems for automatically drafting individual animals or groups of animals efficiently, quickly and reliably.

GEA drafting gates are reliable, fully automated gates controlled by the **DairyPlan C21** software. Drafting reasons can be entered into the software to automatically separate the cows that meet the user-defined conditions, as well as allowing cows to be drafted once off that might be noticed as needing attention during milking.

The first identification antenna identifies the animal, causing the sorting gate to open to the designated sorting area. This remains open until an animal is identified that is to be diverted to a different area.

This allows for no unnecessary interruptions to cow traffic, so you have stress-free cow flow through the sorting area.

The following animal is to be sorted to a different area, so the entry gate closes behind the preceding animal. Sorting errors are avoided ensuring a high level of working efficiency. Once the light beams report that the first animal has left the sorting area the gates are reset and the entry gate opens so the animal is sorted into the new allocated area.



Key Benefits

- Minimized cow flow interruption - ID antennas are positioned well before cows reach the sort system so that only cows that need to be sorted are stopped, ensuring optimum cow flow rates.
- Guaranteed accuracy - photo eyes are incorporated into this system to watch animal movements, ensuring very high accuracy.
- Data connection to **Dairy Management System 21** - allows you to use either **DairyPlan C21** or the milk meter to control your sort gate. Endless user formulas are available for sort criteria.
- Utilizes two ID antennas - ensures confirmation of sort.



iIDENTITY HERD OVERVIEW SOFTWARE

The **i**IDENTITY herd management software has been designed as a key management tool for your rotary milking parlour.

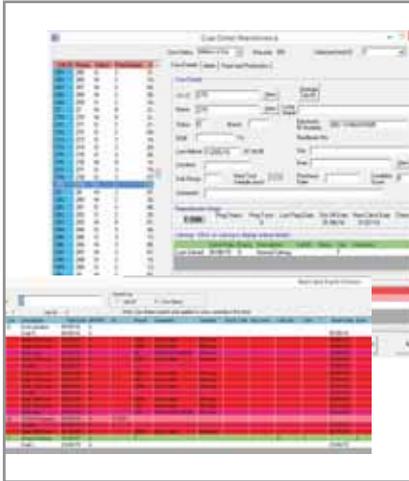
Your animal records including lifetime history are stored within the database. The operators have access to this information at milking time through the clusters on and clusters off consoles.

Cows are electronically identified on the platform and this allows a range of automation options such as audible and visual alerts, auto feeding, auto sorting, weighing and collection of valuable milk production data.

iIDENTITY offers an easy to use and cost effective automation solution for your dairy operation. **i**IDENTITY can connect to sensors to record yield, conductivity, fat, protein, lactose and somatic cell data.

Key Features

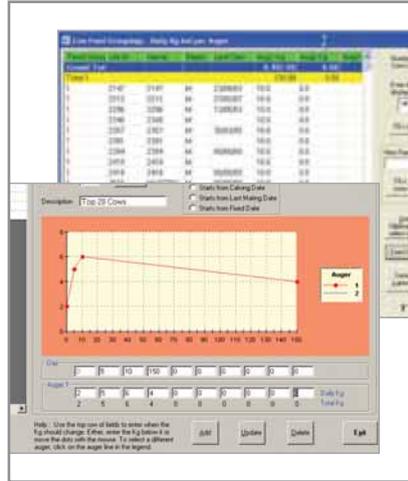
- Life time record of each cow
- Easy to use
- View and edit cow details quickly and efficiently



Cow Card

With **iDENTITY** your animal records are kept simple.

Each animal has a detailed cow card showing all events and treatments that have occurred throughout its lifetime. The cow card manages and documents the animal's reproductive and production status, and maintains this information for life.



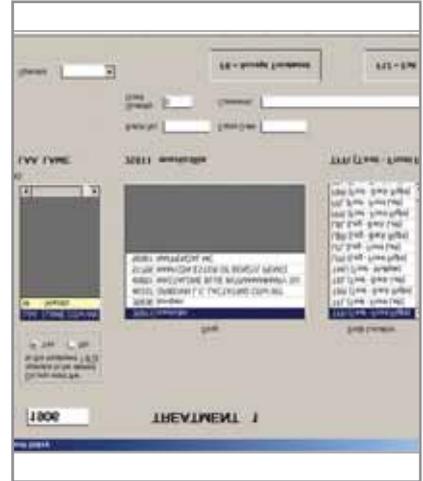
Feed Management

Dairy cows require feed nutrients for maintenance, growth, milk production and fertility.

The demands of maintenance have a higher priority for absorbed nutrients than milk production and reproductive functions. For this reason, feed programs must be in tune with the seasonal requirements of the animal, especially as production volumes increase.

iDENTITY allows you to make better informed feeding decisions. You can build customised groups based on production criteria, age or stage of lactation. Another key aspect of the **iDENTITY** software is the ability to make a customised mix using up to six feed augers to ensure the perfect blend for individual animals.

The Feeding module allows you to create a tailored feeding strategy with flexible parameters.

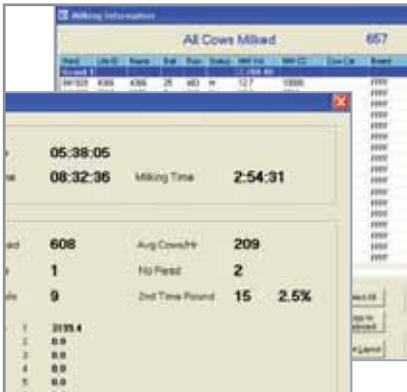


Treatments

iDENTITY takes care of recording all treatments required within your herd.

Simply record the drug treatment required against the animal concerned and **iDENTITY** will take care of alerting you to treatment times and withholding periods. This saves a lot of time when entering treatments whether it is on a per cow basis or by group.

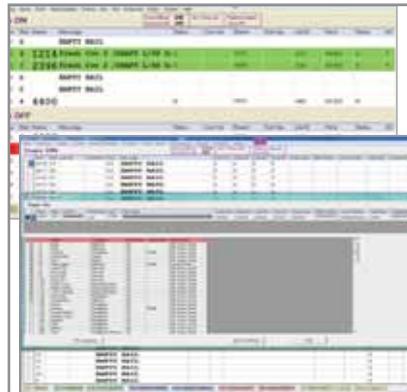
The drug that is used is recorded on the Cow Card and stays with the cow for life so that you can check treatment history



Milking Statistics

The operator can view key statistics of the milking.

This includes; cows milked, milking speed and efficiency, and sensor data from each individual cow.



Cluster On / Cluster Off - Operator Screens

The operators located at the cluster on and cluster off positions have the ability to customise screen displays.

Screens include cow / bail assignment along with alerts which can be set up both visually and audibly.

Additional Features

- Import your Herd Test results from MINDA.
- Access all cow information remotely off site.
- **IDENTITY** allows you to link to other additional sensors if required.
- Compatible with **CowScout™** activity and eating time monitoring software



Alert System

You can set up custom alerts for your milking parlour.

You choose how you want visual alerts to be displayed and the message to be communicated to the operator.

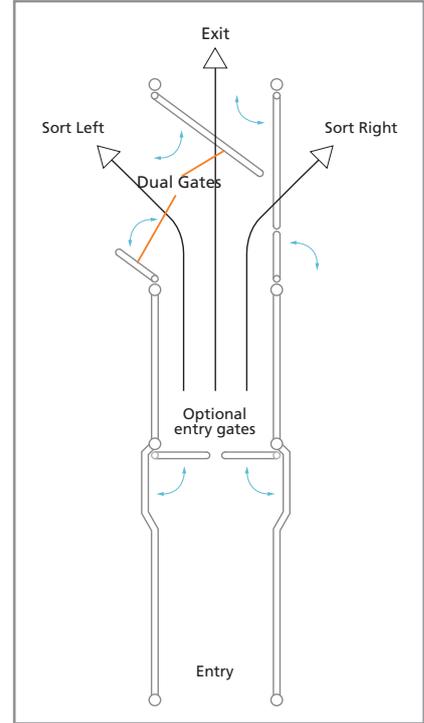
IDENTITY uses colour coding for quick visual reference for action to be taken with each animal. You also have control over the spoken message at the cluster on and cluster off locations. Alerts can be set up based on the status of the animal e.g. second rotation, colostrum, on heat and cows to dry.



Sorting

You have the option of manual or automated sorting.

Animals can be sorted automatically based on the groups they fall into or set criteria. This improves productivity at milking time.



3 Way Sorting Gate

iIDENTITY Sorting System

Automatic sorting takes the stress out of the milking process by reliably sorting those cows that have been manually identified for sorting, cows that match predetermined reports for sorting or cows that have been alerted during milking.

Intelligent sorting controls with cow positioning sensors and twin verification antenna carefully select the right cow for sorting. Robust gate hardware makes operation reliable each time. 'Cushioned end' pneumatically controlled rams ensure responsive gate action without excessive noise during operation. The 'wide opening' twin gate feature creates more room for the cow to exit when sorting. This improves cow flow.

A roof is provided for outdoor installations to keep the sensors, antennas, control and pneumatics away from the harsh environment.

Automatic sorting reduces labour and allows you to manage your herd in many new ways which are not economical with a manual system. If you want to improve your productivity, automatic sorting is at the heart of your solution.

Key Features

- 3 way sorting
- Robust kitset construction
- Fully hot dipped galvanized
- Manual pneumatic controls using **iSORTER** RFID Remote (optional)
- Quality rams with 'Soft Stop' action
- Automatic sorting of cows using Radio Frequency or Infrared identification
- Manual selection of cows to be sorted





Animal Sorting

Whether it is drafting animals for treatment or mating, sorting gates from **GEA** take the manual drafting of your herd and make it a thing of the past!

GEA offers different systems for automatically separating individual animals or groups of animals efficiently, quickly and reliably.

iSORTER REMOTE SORTING SYSTEM

The **iSORTER** is a high performance remote sorting gate solution for use with small or large herds.

iSORTER can be used with standard sorting gate solutions (such as the 3 way sorter shown below with options of left, right or exit) for total sorting control or the single sort gate option. The XGH4000 can also be used to control **iSOLATOR** Stalling Gates. It is also possible to connect the **iSORTER** to existing gates installed on the farm.

The system consists of a remote hand held controller that has a protective pouch and can be worn around the neck using the lanyard. This pouch provides excellent protection for reliable operation and long life.

The **iSORTER** controller uses a radio transmitter and receiver and can operate up to a distance of 30 metres. The operator has buttons for controlling the left and right gates along with the Texas or auxiliary gate as an option.

For improved productivity at milking time and reducing operator workload the **iSORTER** is a smart choice for any new or existing farm dairy.

Key Features

- Waterproof handheld remote
- 30m plus operating range
- Controls left, right and entry gates
- Can be worn as pendant around operators neck for quick operation
- Auxiliary control option for extra functionality



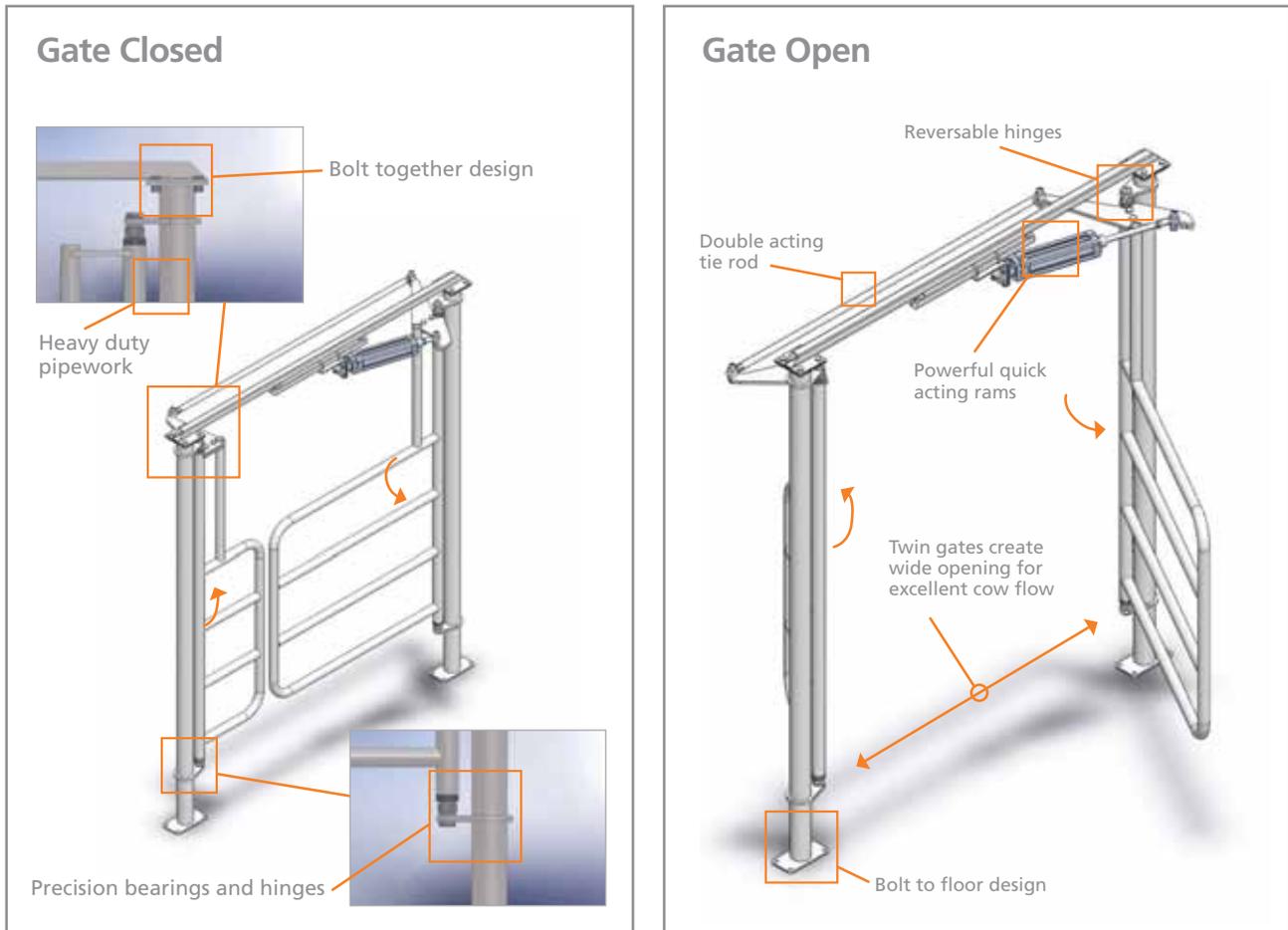
3 way sorting gate without entry gates



Remote Controller



3 way sorting gate with entry gates



Single Sorting Gate

The Stand Alone Sorting Gate is a low cost option for effective sorting of cows in raceways on entry or exit of parlours.

The gate is quick acting and features a 'wide opening' design using two gates moving in opposite directions, creating a large gap for cows to easily move through.

The gates are operated by a single pneumatic ram which features "soft stop". This allows for a very quiet yet fast gate operation.

The sorting gate is mounted directly onto the concrete floor using Excalibur bolts. Installation is quick and easy without the need to drill concrete in retrofit installations, making the product suitable for both new and existing parlours.

The gate has reversible control arms allowing it to be used in either a left or right hand configuration depending on specific installation requirements.

The gate hinges are fitted with machined nylon bush's for quiet and long life operation.

The operator can control the gate with either manual pneumatic controls or electric switches controlling solenoid valves. The controls can be remote mounted so the operator can control the gate without disturbing cow flow.

Alternately the gate can be controlled by the **iSORTER**. This allows remote operation of the gate using a hand held controller which has a range of 30 metres plus.

With effective sorting being paramount to managing large herds the sort gate solution is an essential item for all farm dairies.

Key Features

- Simple stand alone sorting option
- Easy installation for new and existing dairies
- Manual or remote control options
- Can be configured for either draft left or right



We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA Group is a global engineering company with multi-billion euro sales and operations in more than 50 countries. Founded in 1881, the company is one of the largest providers of innovative equipment and process technology. GEA Group is listed in the STOXX® Europe 600 Index.

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