DINAMICA GENERALE SOLUTIONS





RANGE OF SCALES

DG400



DG500



DG600



DG8000-IC



COMPLETE RANGE OF SCALES TO MEET ALL FARMERS NEEDS



SCALE SPECIFICATIONS







- Connectors: SPM military standard
- Protection rate: IP68
- Working Temperature: -30 / +65°C
- Case material: Specific Nylon with Glass Fiber VO
- Double/large display for a better ux



WiNET port for plug & play connection of ALL accessories as standard. With just one code of indicator you can connect accessories (remote control, remote display, modem 4g, etc) as well in after market.



USB standard in all model of scales to exchange data with the cloud feeding SW (with DG500 it is also possible to download feeding data in excel).

DG400 ENTRY LEVEL INDICATOR



- Digital weight indicator
- Overload control for improved operator security
- Working mode: total/partial and net/gross weight
- WiNET port for plug & play connection of ALL accessories
- All models of load cells can be connected
- Modbus CAN J1939 protocols for automation (on request)
- IP 68 protection rate
- RS 232 port for serial comunication



DG500 & DG600 PROGRAMABLE INDICATORS



- 24 Recipes
- 24 Distribution programs
- Double LCD display improves user interface with clear messages
- Intuite keyboard for Quick & Easy programming
- Service function with overload recorder & working time count
- Compatible with the DTM Advanced cloud feeding sw
- Component consumption counter
- Download executions report in excel
- FarmCHEF DinaTEL 3 APP compatibility
- RS232 Port for external systems connections



- Same features of DG500 plus:
- 99 Recipes, 24 Components each (from a list of 99 components)
- 48 Distribution programs
- Compatible with the DTM Advanced cloud feeding sw
- Wireless data exchange via 4G modem with DTM sw
- Multi language including ideograms (chinese, japanese, etc)
- FarmCHEF DinaTEL3 APP compatibility

DG500



ALL features of DG400 plus:

- Programable weight indicator
- 2 LCD displays for a better UX
- APPs compatibility
- Exchange feeding data with DTM advanced sw or download loading data in csv

accessories

REMOTE DISPLAYS





REMOTE CONTROL







FARMCHEF











DG600



All feautures of DG500 plus:

- Wireless data exchange via 4G modem with DTM advanced SW
- Multi language including ideograms (chinese, japanese, etc) with dedicated graphic large display

REMOTE DISPLAYS





REMOTE CONTROL











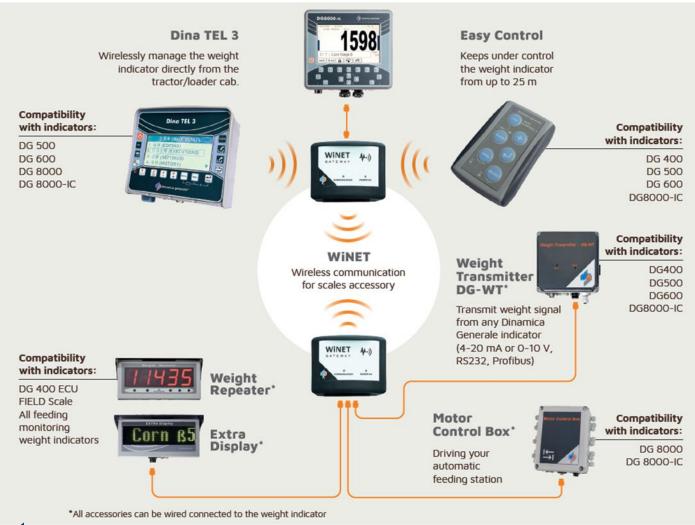


Modem 4G





ACCESORIES



WIDE RANGE OF ACCESSORIES TO AUTOMATE AND INCREASE FEEDING PROCESS EFFICIENCY

- ✓ Remote Control
- **✓** Remote display
- ✓ NIR
- **✓** Automation
- Distribution Tracking
- ✓ App's
- **Y** ...

Discover all accessories compatibility





REMOTE DISPLAY

EXTRA DISPLAY



Weight + name of component to be loaded

WEIGHT REPEATER



Weight to be loaded

Both Extra Display and Weight repeater can be cnnected wire or wireless to the scale

REMOTE CONTROL

EASY CONTROL



DINA TEL3



APPs







DG Wi-Fi Gateway



Connecting DG Wi-Fi gateway to Dinamica Generale's weight indicators you can use FarmChef or DinaTEL 3 APPs.

With the same accessory the farmer can choose the APP that best fit his needs

APPs COMPATIBILITY







DinaTEL 3 APP



DinaTEL 3 APP is a mobile APP that brings the control of the weight indicator to your mobile device.

Farmers can make tare, enter in feeding programs, etc. directly from the loader. DinaTEL 3 APP is available for Android and iOS and compatible with DG500, DG600 and DG8000-IC indicators

FarmCHEF

FARMCHEF is a cloud based precision feed management system. The smart and simple design lets you easily build and manage rations, pens, and feed groups directly with your smartphone/tablet. Compatible with DTM FarmCHEF



1 SELECT THE RECIPE



RESUME OF RECIPE TO BE



LOAD COMPONENTS AND DISTRIBUTE TMR











https://farmchef.dinamicagenerale.com/en/



https://www.youtube.com/watch?v=-IETIaf0yb4



DG8000 IC –TOP LEVEL SOLUTION



- Recipe formulation based on daily dry matter intake for each pen
- Premix management
- Monitoring operators' labor effectiveness
- Suitable for automatic feeding & stationary applications
- Compatible with the DTM IC Cloud feeding sw
- Wireless data exchange via 4G modem or WiFi with DTM sw
- Multi ration management
- Specifically designed for integrating NIR Analyzers
- Compatibility with Distribution tracking
- Modbus protocol built in









DG8000 IC



All features of DG600 plus:

- WIFI data exchange
- DTM IC sw compatibility
- NIR compatibility
- Motor control box for automation
- Distribution tracking
- Modbus and CANJ1939 protocol built in
- Big display for clear operator's messages



REMOTE DISPLAYS





REMOTE CONTROL



DISTRIBUTION TRACK



NIR ANALYZER



MC BOX

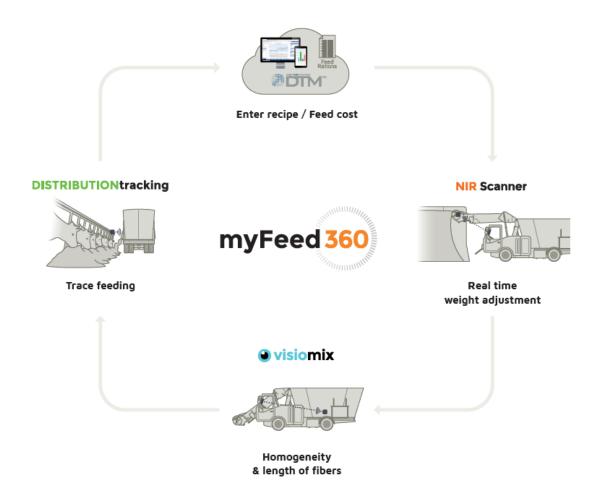








myFEED 360



VALUE-ADDED SOLUTIONS FOR DAIRY AND BEEF FARMS THAT MAXIMISE PRODUCTION AND REVENUE

Consistent and predictable feed quality is top of mind for today's dairy and beef farmers. The project we called myfeed360 is aimed at providing farmers with the most advanced technology for monitoring, measuring and ensuring the quality of feed within each phase of animal nutrition process. Here is what we manage:

- 1. Input feed ration into the DTM Feed Management Software and track feed costs
- 2. Apply real time adjustment of each loaded ingredient based on dry matter and nutrients
- 3. Control TMR homogeneity and fiber lenghts during mixing process in the TMR mixer
- 4. Measure the real quantity of feed distributed to each pen
- 5. Track milk production based on real dry matter intake
- 6. Control farm performance in real time from any location
- 7. Share feeding information online with nutritionists to improve the process efficiency

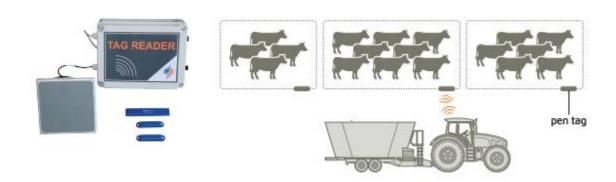


DISTRIBUTION TRACKING

Electronic device based on RFID technology that allows to control the exact quantity unloaded for each single pen. Distribution tracking allows to keep under control the distribution phase; in fact is possible to control the operators performances. Delivering the right quantity of TMR means decreasing feed refusal thus reducing feeding costs. On DTM IC software are available all the reports generated by the distribution tracking system.

MAIN BENEFIT:

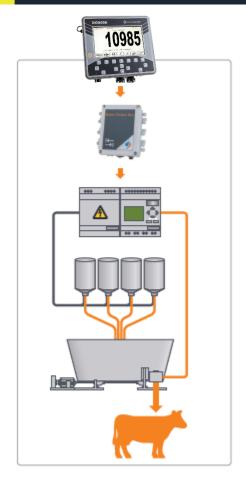
- Track delivered TMR for each pen and keep distribution under control
- Operator accuracy monitoring for continuous process improvement
- Delivering the right quantity of TMR means decreasing feed refusal thus reducing feeding costs.







MOTOR CONTROL BOX



The Motor Control Box is the one-stop solution to control **animal feed AUTOMATION plants**. With the Motor Control Box, driving functions like open the doors, start belts and control material discharge from silos to name but a few, become easier and quicker.

1) AUTOMATIC LOADING PROCESS

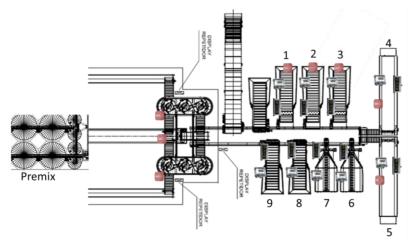
The system is designed to control and automatically manage ingredients stocked in silos to get the best possible TMR quality.

2) AUTOMATIC DISTRIBUTION PROCESS

The Motor Control Box sets the control of the TMR distribution from the feed mixer right in front of cows. Thanks to the DTM Feeding Management Software, programs can be set directly from the office

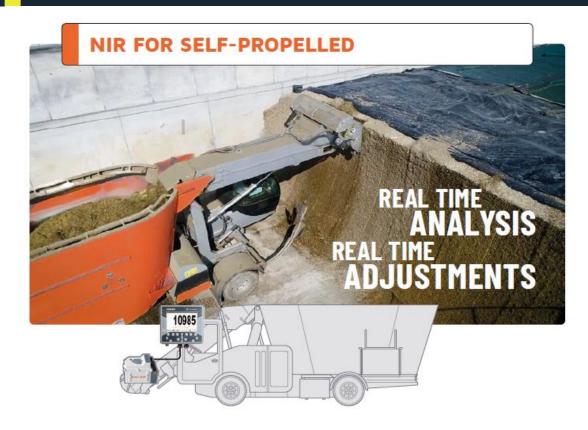






Each motor control box can control up to 16 relè. It is possible to connect more motor control box in sequence

NIR - REAL TIME ANALYSIS



EvoNIR measures **in real time** dry matter and key nutrients (protein, ADF, NDF, ash, crude fat, starch, etc). The system recalculates in real time the weight to be loaded to ensure a **consistent ration**. All data are stored in the DTM cloud feeding software.

- Increasing milk production thanks to a correct management of feeding process
- Managment of forages variability (weather conditions)
- · Managment of the refused level
- Improvment of cows health-behaviour



EvoNIR installed on the tub of the feed mixer can continuously monitor the quality of the mixture. Real time analysis with adjustment guarantees an **homogenous** and **constant** TMR in line with consultants formulation.

- · Homogeneity index
- · Define the correct time to stop mixing
- TMR Analysis
- H₂O adjustment







FORAGE VARIABILITY

DRY MATTER IN A CORN SILAGE BUNKER



IF YOU KNOW IT YOU CAN MANEAGE IT

IDEAL RECIPE set by nutritionist: 1000 kg of corn silage with DM 34%. It means 340 kg of DM.

If I am loading from point A I am loading 387 kg of DM

If I am loading from point B I am loding 304 kg of DM

....quite a BIG DIFFERENCE...



Final comments

The system has allowed to:

- rationalize of rations and dietary management: greater constancy of the dry matter distributed, greater constancy of the nutrients content,
 - analytic values for feed in order to rework the recipes if the variations in feed suggest a control or a revised version.
- Improve health and welfare, especially for fresh cows;
- Improve the health status of breast (lower number of cells);
- increase the productive response on a equal quantity of ingested foods, and therefore to improve the efficiency;

These results contributed to improving the economic performances; this improvement is obtained thanks to effect on the difference between the feed cost and the profits.

Other profits are:

- Ongoing monitoring of feed and better tradeoff of the recipes
- Health (medicines cost, manpower,...) and welfare
- Environment



Total Monthly Margin Increase

Istituto di Zootecnica

€ 7,282

	Ration Cost						
Herd	20	00					
	Without dg precisionFEEDING™	With dg precisionFEEDING™					
Cost Ration/day	€ 7.04	€ 6.96					
Daily Ration Cost	€ 1,408	€ 1,392					
Monthly Ration Cost	€ 42,803	€ 42,316.8					
Monthly Savings	€ 4	87					
	Milk Sales Revenues						
Milk Price (€/kg)	€0	.44					
	Without dg precisionFEEDING™	With dg precisionFEEDING™					
Average daily milk production per head*	29.96 Kg	32.5 Kg					
Daily milk production per herd	5992 Kg	6500 Kg					
Daily revenue	€ 2,636.48	€ 2,860					
Increase Revenue/Day	€ 223.52						
	€ 6,795						

Ration Cost

INCREASING Precision Decreasing TMR refusal

Economic impact of reducing feed refusal

Cows	Cost Kg/DM	TMR Refusals,%	TMR refusal Kg/DM	Daily Refusals cost of 250 (US/day)	Annual cost 250cows (US/day)	Annual Cost per Cow (U\$/day)	Annual Cost 1000 Cows (U\$/day)	Saving
250	0.24	5%	337.78	81.89	29,890.87	119.56	119,563.49	
250	0.24	3%	202.67	49.14	17,934.52	71.74	71,740.00	47,825.00
250	0.24	2%	135.31	32.81	11,974.01	47.90	47,896.06	71,667.43
250	0.24	1%	67.58	16.38	5,978.17	23.91	23,912.70	95,650.79





NIR – REAL TIME ANALYSIS

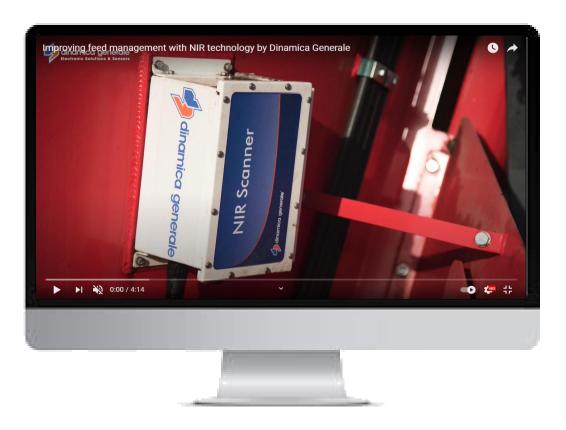
NIR ON SELF PROPELLED





NIR - REAL TIME ANALYSIS

NIR ON TANK



https://www.youtube.com/watch?v=0UGuaNfQ2io



DTM is an advanced feeding IN CLOUD management software that combined with DG scales create a professional package that drives your precision feeding system. The comprehensive program helps farmers monitor and control feed costs, inventory, ration adjustments and other critical on-farm processes like feeder performance.

DTM FEEDING SW – VERSIONS

DTM Core advanced



Software solution

developed to manage

medium farms daily

operations



Compare DTM versions



DTM Core professional



Software solution

developed to manage
large farms daily
operations
and contractors



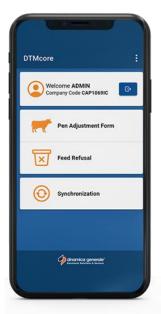
DTM Core IC



The most complete
feeding management
software solutions
designed for structured
and demanding farms



DTM Core APP















DTM Core APP allows to make quick **changes** to feeding programs directly from your mobile and check **feeding data**:

- Change DM of each components
- Change n. of cows for each pen
- Change feeding rations in %
- Refused management per pen
- Create new recipes and batches

The new programming is sent directly to the scale, without the need to go modify data in the DTM sw.



DTM Report (loading)

Batch

ld Batch	Batch	Date	Start Time	End Time	Recipe Code	Recipe	Pens # Fed	Weight / Cow
1	2/3/6 Manhã	05/12/2019	08.53.27	09.39.16	8	Produção MP	3	49,80

Loaded

ID	Date	Start Time	End Time	Customer	Feeder
2.814	05/12/2019	08.53.27	09.13.15	Barão&Barão Lda	Humberto

Ingredient Id	Ingredient	Target Weight	Target Weight on Scale	% correction (by NIR Analysis)	Target Weight (with correction)	Loaded	Error (%)	Load % Error (ABS)	Programmed Cost	Loading Cost	Overfeed Cost	Start Time	End Time
19	PRE MIX	1.693,67	1.694,00	0,00	1.694,00	1.725,00	1,83	_	414,01€	421,59€	7,58€	08.53.36	08.55.21
16	Barão 1 MP	466,37	466,46			475,00		-	144,60	147,25	2,65		
8	Milho Moído	736,38	736,52			750,00		1	128,89	131,25	2,36		
10	Semêa Arroz	122,73	122,75			125,00		1	19,03	19,38	0,35		
15	Soja 44	368,19	368,26			375,00		ı	121,53	123,75	2,22		
22	Fenosilg Azevém	613,65	614,00	-1,94	602,08	605,00	0,48	-	36,84 €	36,30€	-0,54€	08.55.26	08.59.49
21	Silagem de Milho	3.190,98	3.191,00	11,27	3.550,75	3.560,00	0,26	-	159,55€	178,00€	18,45€	08.59.54	09.06.27
5	Levedura Cerveja	490,92	491,00	0,00	491,00	510,00	3,87	-	17,19€	17,85€	0,67€	09.06.32	09.10.51
7	Melaço	122,73	123,00	0,00	123,00	125,00	1,63		25,22€	25,63€	0,41 €	09.10.56	09.13.15
		6.111,95	6.113,00	5,69	6.460,83	6.525,00	0,99	0,99	652,80	679,37	26,56		



DTM Report (unloading)

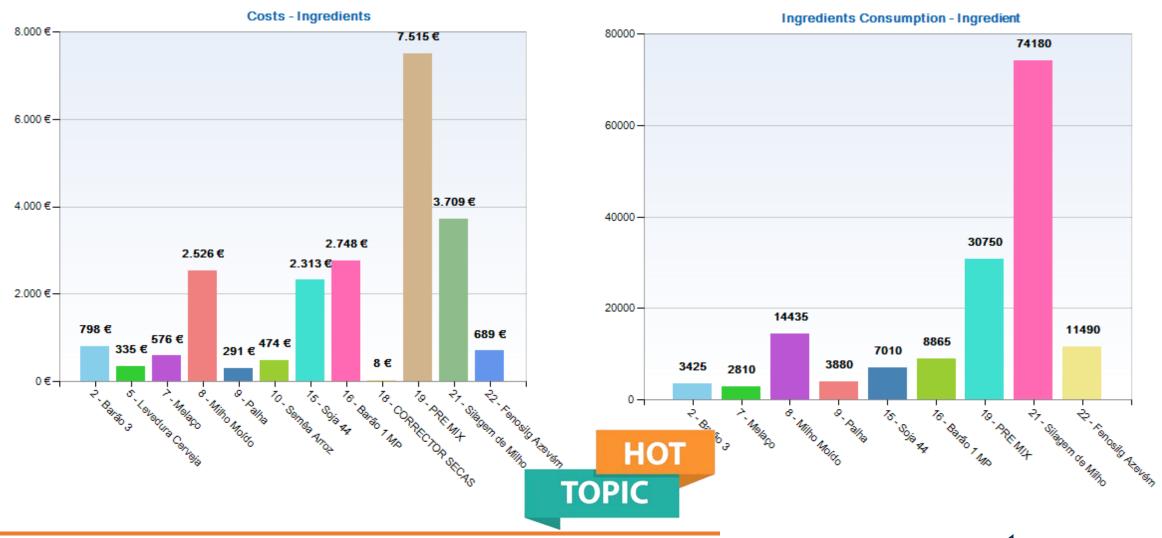
Unloaded

Unload	Date	Start Time	End Time
2.802	05/12/2019	09.13.50	09.39.16

				Load								
ld	Pen	Target Weight	Target Weight on Scale	Loaded	%	Target Weight on Scale	Unloaded	%	Cows # (Theo.)	Cows#	Start Time	End Time
2	Parque 2	2.393,39	2.393,41	2.555,13	6,76	2.555,00	2.595,00	1,57	89	89	09.32.39	09.34.03
3	Parque 3	2.598,07	2.598,09	2.773,64	6,76	2.774,00	2.755,00	-0,68	94	94	09.35.10	09.36.26
6	Parque 6	1.120,50	1.120,51	1.196,22	6,76	1.197,00	1.185,00	-1,00	60	60	09.36.59	09.39.15
		6.111,96	6.112,01	6.524,99	6,76	6.526,00	6.535,00	0,15	243	243		

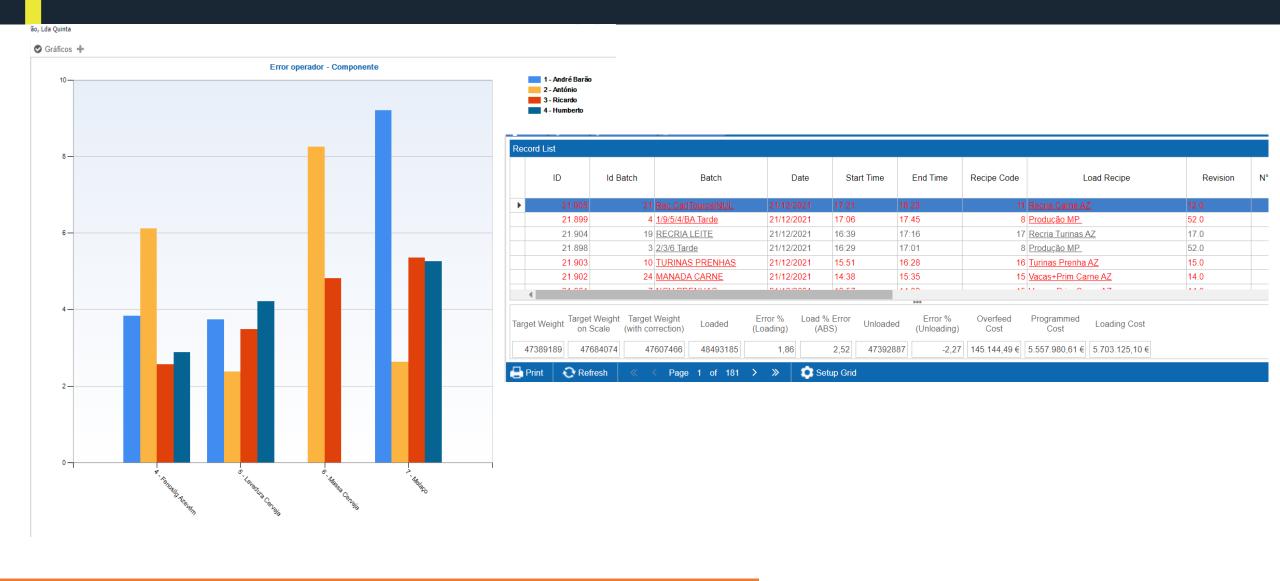


DTM Report (component consumption/costs)





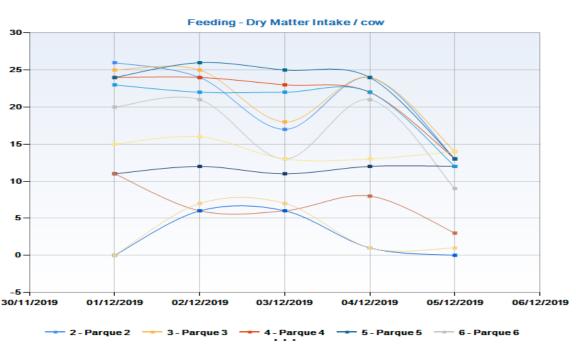
DTM Report (error operators)

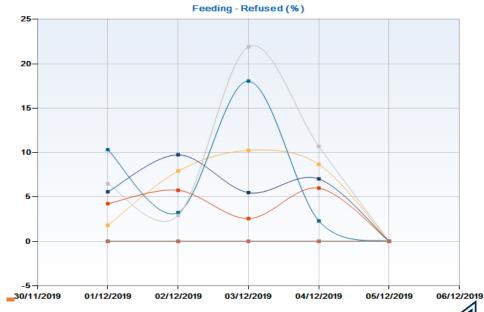


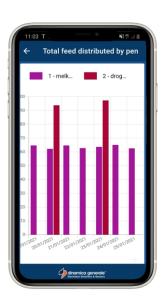


DTM Report (pen history)

Date	Cod e	Pen	Daily Feedi	Avg cows	Adj. %	Target Weight	Target Weight	Fed	Error (Weight	Error (%)	TMR D.M.	Refus ed	Refus ed (%)	Refused (cow)	Fed (Intake)	Fed (Intake	D. M. Intake
			ngs	#		Ū	on Scale)	` '	%	(Weig ht)			, ,)/cow	/ cow
25/01/2021	1	melkkoeien	2	94	100,00	5413	5853	5883	30	0,51	32,27	0	0,00	0,00	5883	62,59	20,19
24/01/2021	1	melkkoeien	2	95	100,00	5413	6111	6182	71	1,16	32,04	265	4,29	2,79	5917	62,28	19,96
23/01/2021	1	melkkoeien	2	94	100,00	5413	5942	5983	41	0,69	32,16	353	5,90	3,76	5630	59,89	19,26
23/01/2021	2	droge koeien	1	17	100,00	517	1649	1654	5	0,30	41,41	0	0,00	0,00	1654	97,29	40,29
22/01/2021	1	melkkoeien	2	94	100,00	5413	5854	5899	45	0,77	32,30	238	4,03	2,53	5661	60,22	19,45
21/01/2021	1	melkkoeien	2	94	100,00	5413	5986	6080	94	1,57	31,94	310	5,10	3,30	5770	61,38	19,61
20/01/2021	1	melkkoeien	2	94	100,00	5413	5865	5850	-15	-0,26	32,19	357	6,10	3,80	5493	58,44	18,81
20/01/2021	2	droge koeien	1	18	100,00	517	1670	1688	18	1,08	41,02	0	0,00	0,00	1688	93,78	38,47
19/01/2021	1	melkkoeien	2	94	100,00	5413	6041	6080	39	0,65	32,04	440	7,24	4,68	5640	60,00	19,22
							440=4	4=000				4000					247.22
				694		38925	44971	45299	328	0,73		1963		20,86	43336	62,44	215,26

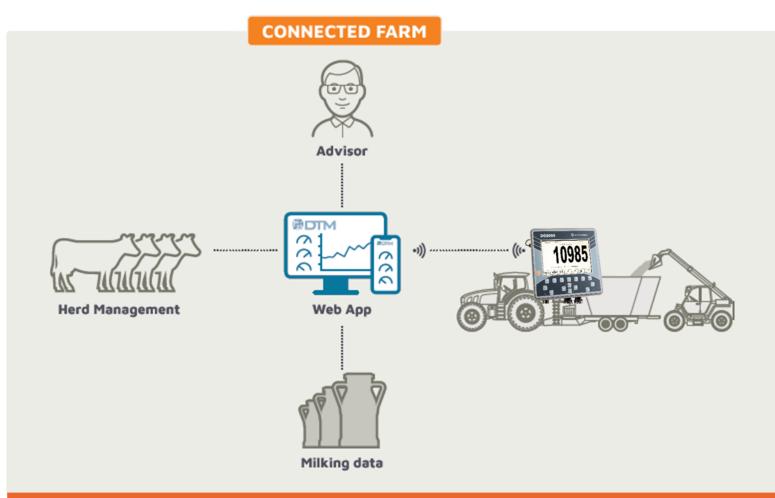






dinamica generale°

DTM FEEDING SW - INTEGRATED SOLUTION



INTEGRATE YOUR HERD MANAGEMENT SW
TO AUTOMATIC IMPORT MILK AND COWS DATA



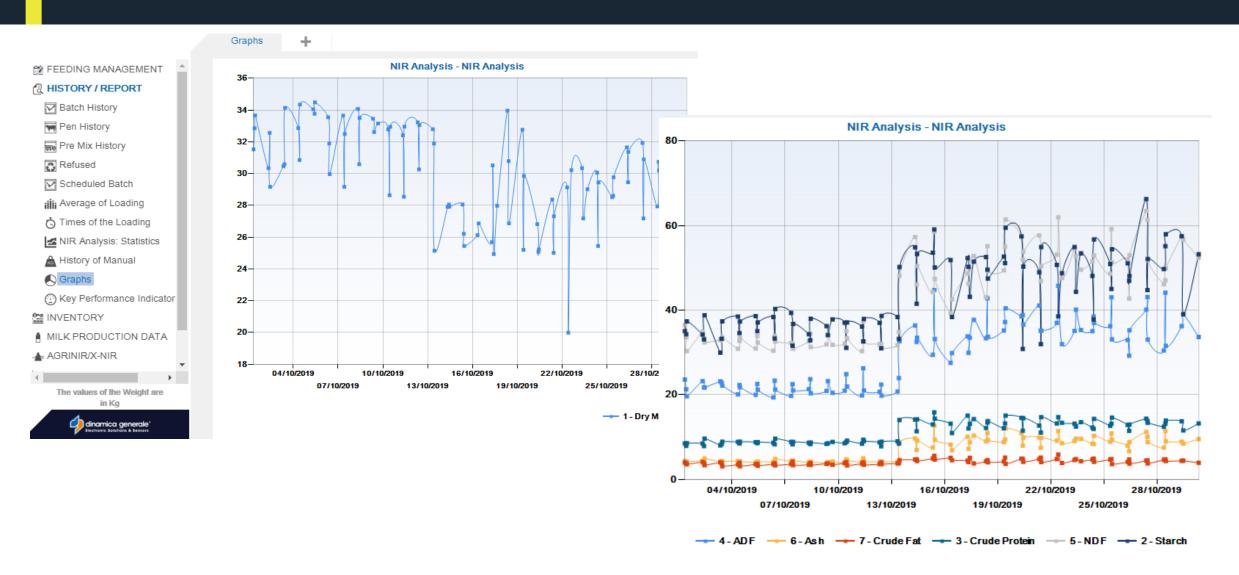
DTM Report (milk production/IOFC)

Date	Code	Pen	Pen Type	Avg cows#	Milk Quantity (Total)	Milk Quantity (cow)	Milk Price (U.o.M.)	Milk Yield (Total)	Milk Yield (cow)	Cost / Cow	Feed Efficiency (Milk Prod. / DMI)
24/02/2019	1	ROBOT	Lattazione	125	4.389,00	35,11	0,40 €	1.755,60 €	14,04 €	4,47 €	1,82
24/02/2019	2	DESTRA	Lattazione	90	3.402,00	37,80	0,40 €	1.360,80 €	15,12€	5,83 €	1,60





DTM Reports (NIR)





DATA EXCHANGE

4G & WIFI DATA EXCHANGE











Modem 4G Compatibility with: DG600, DG8000-IC

4G Modem allows to transfer data from the weight indicator to DTM software without any limit of distance. Background synch allows to always have updated information for real time data-driven decisions.



o))

((°

WiFi_IP COM Kit Compatibility with:

DG8000, DG8000-IC

Transfer your data wirelessly even without a mobile network in the farm. IP COM solution gives the farmers the possibility to exchange data between the scale and the software in a range of 800 mt.





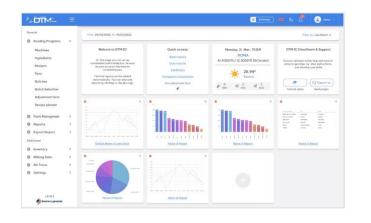
MULTI MIXER MANAGEMENT

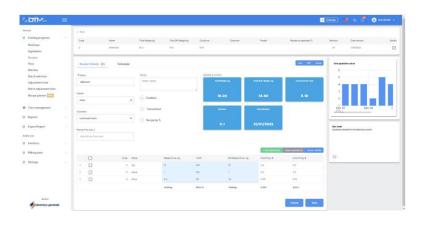


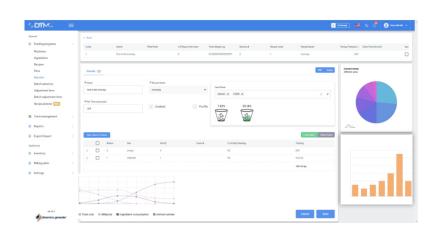


DTM 8: NEW FEEDING SW

DINAMICA GENERALE IS DEVELOPING A NEW PLATFORM OF ITS DTM SOFTWARE







increased user experience

more features

customized reports

more integrated

more powerful



Alert messages



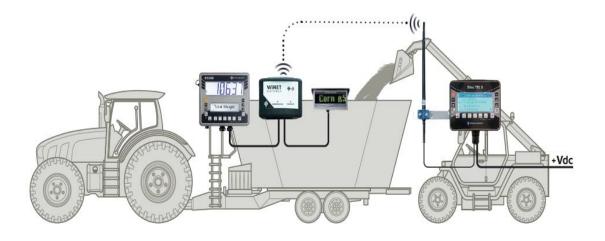




OFFICIALY LAUNCHED IN

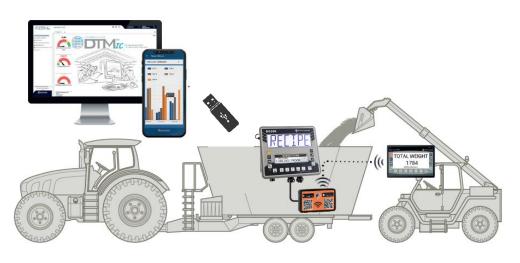
DG500: CONFIGURATION EXAMPLES

CONFIG A:



- DG500
- Extra Display
- DinaTEL3

CONFIG B:



- DG500
- DG Wifi Gateway
- DinaTEL3 APP
- DTM Advanced sw + DTM Core APP



DG 600: CONFIGURATION EXAMPLES

CONFIG A:



- DG600
- DG Wifi Gateway
- FarmCHEF

CONFIG B:



- DG600
- DG Wifi Gateway
- DinaTEL3 APP
- Modem 4G
- DTM Advanced sw + DTM Core APP



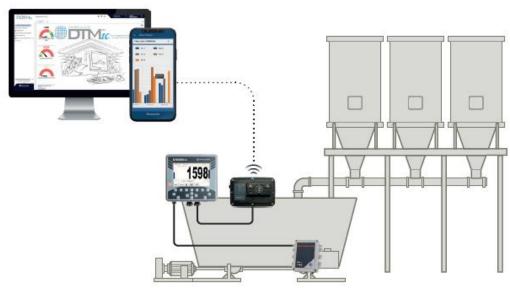
DG8000 IC: CONFIGURATION EXAMPLES

CONFIG A:



- DG8000IC
- Extra Display
- EvoNIR (real time nir analysis)
- Modem 4G
- DTM IC sw + DTM Core APP

CONFIG B:



- DG8000IC
- Motor control box for automation
- Modem 4G
- DTM IC sw + DTM Core APP



ON FARM SOLUTIONS





THANK YOU