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ЗАЛЫ ДОЕНИЯ IFLOW Технические характеристики



About GEA Milfos

GEA Milfos milking parlours and equipment are manufactured in New Zealand.

Our comprehensive range consist of milking, stalling, dairy automation and herd management. We provide tailor built solutions, with each project custom built to suit your farm requirements and budget.

GEA Milfos iFLOW Rotary Platform

The iFLOW rotary platform offers you the lowest total cost of ownership, of any rotary platform on the market.

Specifically designed with high through put, seasonal pasture farming systems in mind, the iFLOW ensures a low maintenance cost effedive system and is designed to keep you running 24/7.

We offer you an integrated solution starting with the platform and stalling to suit your needs, then the milking system and automation options are customised to suit your budget, ensuring your new solution is future proofed.

Platform

iFLOW is built onto a raised plinth which means the milking machine is mounted under the platform. This provides physical protection as well as making service of the milking machine easy.

A robust concrete deck ensures for smooth and quiet operation and provides a non-slip surface for cow comfort. The reinforced concrete gives you peace of mind that you will be getting a superior long lasting performance.

Manufactured in a kit set configuration, the iFLOW rotary equipment is shipped to site ready for installation.

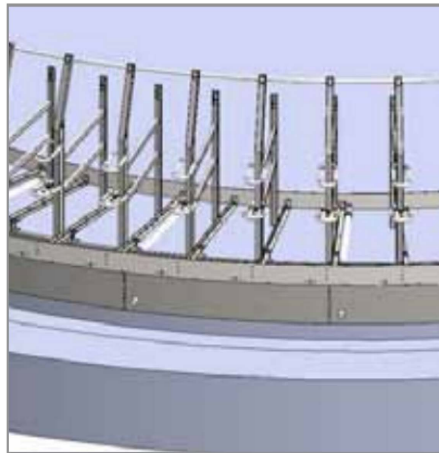
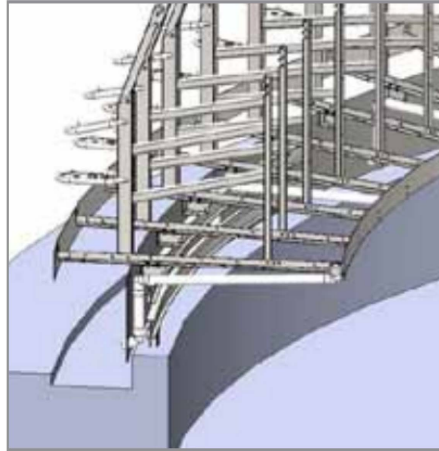
Both fall to inside and fall to outside options available.

iFLOW		NUMBER OF CLUSTERS	28-100
		NO. OF OPERATORS	29-4
		EXPECTED MILKING PERFORMANCE	168-857 cows / hr
		TYPICAL HERD SIZE	More than 400
		AUTOMATION	Basic plant automation through to full Herd Management
		FARMING OPERATION	Pasture Based, Partial Mixed Ration, Total Mixed Ration
		LEVEL OF INVESTMENT	CONVEYER
		MILKING SYSTEM SUITABILITY	

Milking Performance Cows / Hour

	7	7.5	8	8.5	9	9.5	10
28	240	224	210	198	187	177	168
30	240	240	225	212	200	190	180
32	275	256	240	226	214	203	192
36	309	288	270	255	240	228	216
40	343	320	300	283	267	253	240
44	378	352	330	311	294	278	264
48	412	384	360	339	320	304	288
50	429	400	375	353	334	316	300
54	463	432	405	382	360	342	324
56	480	448	420	396	374	354	336
	515	480	450	424	400	379	360
64	549	512	480	452	427	405	384
70	600	560	525	495	467	443	420
80	686	640	600	565	534	506	480
90	772	720	675	636	600	569	540
100	858	800	750	706	667	632	600

Platform Components:



Concrete deck

- Quiet non slip surface - no matting required
- Special 40MPa concrete formulation with structural and conditioning additives for long life
- Increased concrete coverage using tapered slab typically 100-125mm thick
- Lined with mesh and deformed radial and circumference reinforcing rods

Skirt & Drain System (Inward sloping platforms)

- Stainless steel and stabilised PVC skirts provided
- Upper skirt provides barrier so effluent and wash water is directed into the external deck drain leaving centre of the rotary clean
- Lower skirt protects rollers and drives and makes wash down easy using external ring drain

Controls

- Stainless steel control consoles with waterproof switches
- Forward with adjustable speed
- 1 inch reverse
- Cow crush switch at entry
- Rope stop / start switch around full perimeter of rotary



Double Beam Carriage Roller System

Designed with a double beam carriage roller system under the platform, the well thought-out system offers reduced point loading and an extremely low maintenance cost.

Heavy duty nylon rollers sit between the upper and lower beams of the platform, with tensioners distributed evenly to maintain correct roller alignment. The use of nylon rollers means no wear strip is required because there will be no wear from steel to steel contact.

Reduced Point Loading

Point loading is the weight applied to the load bearing surface of the roller ie. total weight of the loaded platform divided by the number of rollers. A high point loading is what causes damage to rollers and beams.

The roller system of the iFLOW platform has been designed with rollers every 600mm to reduce the point loading and evenly distribute the weight of a fully loaded platform. This is how we reduce stress on the roller system which makes this an extremely hard wearing and long lasting solution.

The system is fitted with an automatic lubrication system means there is no messy oil lubrication and ensures a long life and trouble free operation.

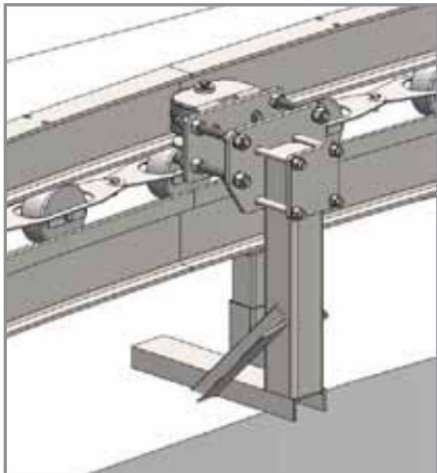
Roller Components:

Double Beam Carriage rollers

- Heavy duty nylon rollers
- One roller every 600mm
- Self-aligning roller design
- No wear strip required - no wear from steel on steel
- No bearings or bushes to replace



Drive System Components:



Side Thrust Rollers

- Horizontal roller assembly ensures rotary remains central and running true and accurate
- Eliminates need for centre hub or bearing allowing the centre of the rotary to remain uncluttered and free from support arms
- Positioned evenly around the platform providing lateral guidance to ensure that platform stays true



- Automatic annual service required
- Refillable grease cartridge
- Clean efficient dispensing - no oily mess

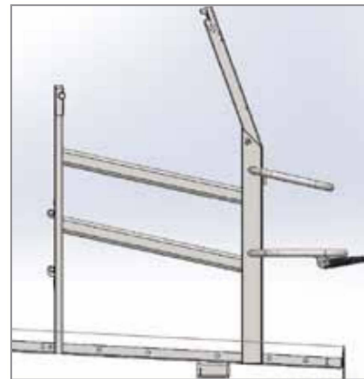
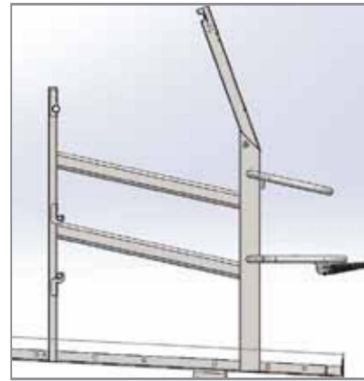
Auto Greasers



- Heavy duty hydraulic drive motor
- Tensioned rubber coated drive wheel delivers constant torque to the drive beam
- Soft start system reduces stress on drives for maximum component life
- No electrical noise to interfere with cow identification systems (RFID)
- Electric drive option is also available if required

Hydraulic Drive

Bail Design Features:



Streamlined Bail Design

- No vertical posts on sides of dummy bail which allows more room for cows hips
- Low profile modern design
- Ultra heavy duty 125 x 75 main post with cattle rail for cow comfort

Automation Mounting Positions

- Integrated mounting positions for Milfos or Westfalia Surge detachers, cow restraints and drop down struts to allow for seamless automation upgrades

Adjustable Rail Positions

- Two adjustable neck rail positions for large cows to future proof for your growing herd
- A adjustable breast and shin rail positions either inside or outside of the bail post

Milking detacher Options

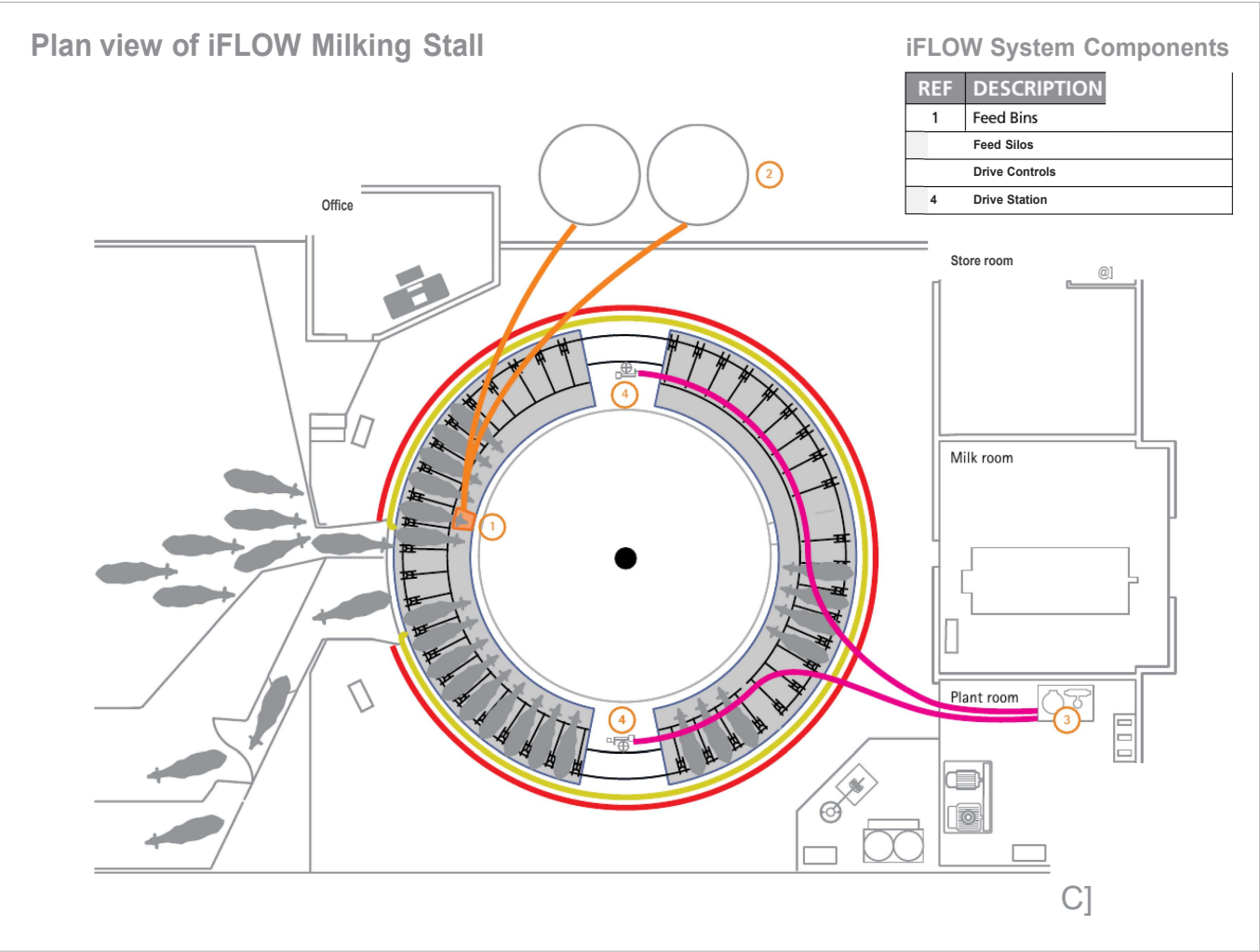
- The standard detacher has a rope guide integrated into the cluster washer plate for ideal retraction efficiency
- Drop down strut attaches to standard bail seamlessly and keeps the bridge clear of rubberware during operation

Feeding

- Options for either stainless steel or heavy duty moulded plastic bins
- Feed bins have deep trough and high back to limit feed spillage
- Robber bars to stop feed being spilled or eaten by a neighbouring cow
- Drain options available

Rubberware Configuration

- Available in either a standard or integrated deck port option
- Integrated option has an angled design to promote better rubber alignment and helps to keep ACR string



iFLOW Subway Platform Dimensions - Standard Bail Platform

	28 BAIL	30 BAIL	32 BAIL	36 BAIL	40 BAIL	44 BAIL	48 BAIL	50 BAIL	54 BAIL	56 BAIL	60 BAIL	64 BAIL	70 BAIL	80 BAIL	90 BAIL	100 BAIL
RADIUSOD PLATFORM	410S	4375	4655	5215	5775	6335	6895	7175	7735	8015	8575	9135	9975	11375	12775	14175
DIAMETER PLATFORM M	8210	8750	9310	10430	11550	12670	13790	14350	15470	16030	17150	18270	19950	22750	25550	28350
WIDTH	1 10500	1 11000	1 11500	1 12500	1 14000	1 15000	1 16000	1 16500	1 17500	1 18500	1 19500	1 20500	1 22000	1 25000	1 28000	1 30500
LENGTH	12500	1 13000	1 14000	1 15000	1 16000	1 17500	1 18000	1 19000	1 19500	1 20500	1 22000	1 23500	1 26500	1 29000	1 32000	12000

iFLOW Subway Platform Dimensions - Wide Bail Platform

	28 BAIL	32 BAIL	36 BAIL	40 BAIL	44 BAIL	48 BAIL	50 BAIL	54 BAIL	56 BAIL	60 BAIL	64 BAIL	70 BAIL	80 BAIL	90 BAIL	100 BAIL
RADIUSOD PLATFORM	4455	4775	5090	5730	6365	7000	7635	7955	8590	8910	9530	10180	11090	12645	15770
DIAMETER PLATFORM M	8910	9550	10180	11460	12730	14000	15270	15910	17180	17820	19060	20360	22180	25290	31540
WIDTH	1 11000	1 12000	1 12500	1 13500	1 15000	1 16000	1 17500	1 18000	1 19500	1 20000	1 21500	1 22500	1 24500	1 27500	1 30500
LENGTH	13000	1 13500	1 15000	1 16500	1 17500	1 19000	1 19500	1 20500	1 21500	1 22500	1 24000	1 25500	1 29000	1 32000	1 35000



Our experience equipping rotary parlours of all sizes from 28 to 100 milking points ensures that you get the right solution to suit your requirements.

Key Features:

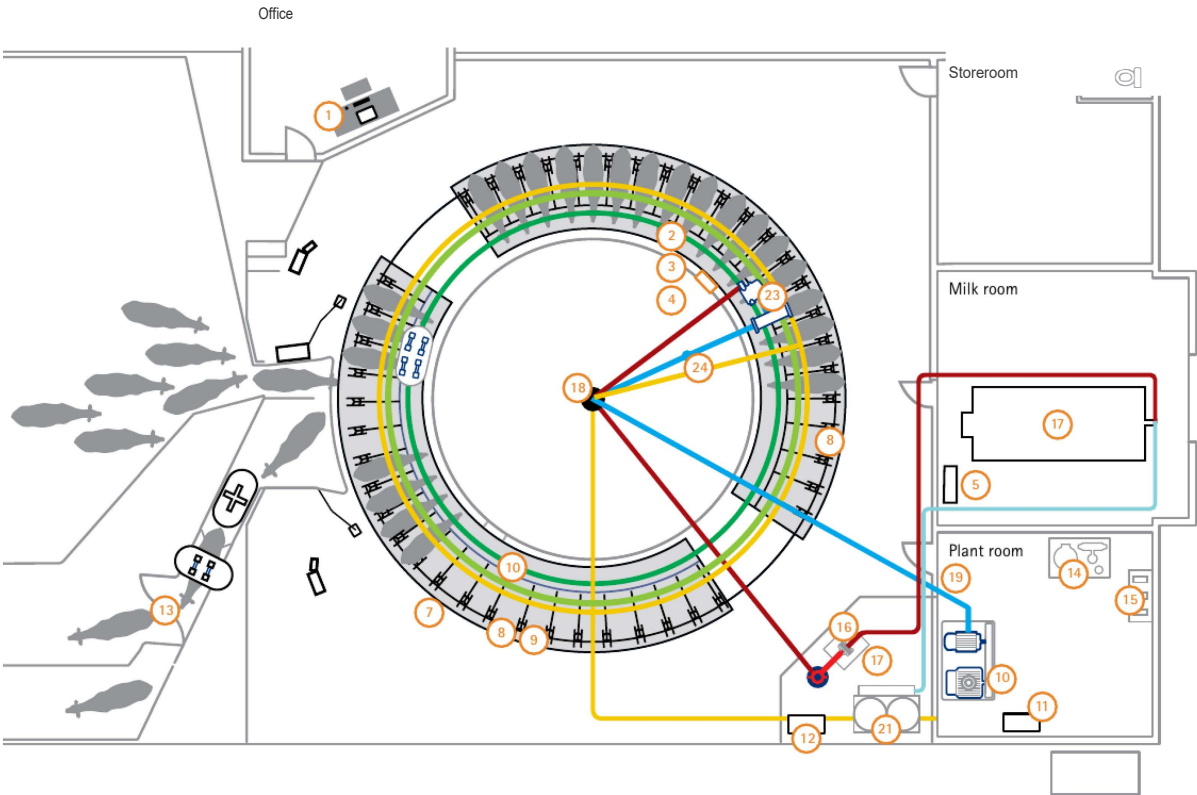
- Modular design with quick and simple installation with minimal onsite fabrication
- Extremely stable vacuum due to milk and air separation in the looped milk lines
- The loop line is cleaned with INTELJET using powerful slugs of wash water down the milk line for enhanced washing performance and superior hygiene
- Automation options; such as automatic cup removers, drop down, cow restraints and teat spraying, are easily added when required, future proofing your system



Left: Integrated solution using Milfos iFLOW platform with Westfa/iaSurge milking equipment.

This schematic drawing below shows the details and general layout of the iCONVEYER milking system.

Plan View of iCONVEYER Milking System with iFLOW Milking Stalls



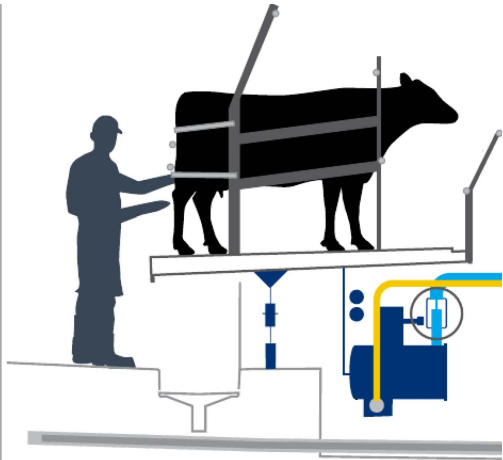
- KEY:**
- Milk line
 - Milk delivery line
 - Main airline
 - Pulsator airline
 - CIP jetter line
 - CIP recirculation line

See below chart for product descriptions and section references.

iCONVEYER System Components

WN	1.11181
1	Office
2	Pulsation Control
3	Power Supply
4	Milk Pump
5	Silo Wash Controller
6	iPUD
7	Clusters
8	Cluster Washer
9	Detacher
10	CL Blower Package
11	Vacuum on Demand (VOD) Plant
12	Wash Control Sorting Gate
13	Drive Controls WaterPump
14	
15	
16	MilkFilter
17	Plate Cooler
18	Centre Gland
19	Regulator
20	Sanitary Trap / Receiver
21	Hot Water /Wash Tub
22	Silo

Cross Section of iCONVEYER Milking System with iFLOW Milking Stall



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