

## Animal Husbandry Machinery and Equipment

Milking System

Herd Management Systems

Barn Equipment

Manure Management Equipment

Feed Mixing and Distribution Wagons (TMR)







Rapid Exit  
Herringbone Milking Parlor

Technical Details

All demountable hot dip galvanized rapid exit herringbone parlor stalls
Double zig-zag pipes at each side to direct the cows for standing 30° to the pit
Support posts at every stall with back plate
Pneumatic entry gate, 50x700 mm cylinders
Pneumatic swing up exit gates, 100x600 mm cylinders
Telescopically adjustable chess bar
Hotdip galvanized kerb with 1/2" pipe on top edge, stainless steel sliding hose holders
100x80 mm profile connectio between main support posts
120x80 mm main support posts
All construciton installation by cast and steel clamps, no welding required during installation
Two operator ladders
Benefit: Milker can see four teats of each milking cow during cluster attachment



Milking System



Rapid Exit  
Parallel Milking Parlor

Technical Details

All demountable hot dip galvanized rapid exit parallel parlor stalls
Stainless steel backpan with slurry chanel and automatic flushing at every exit
Index gates, with out spring- problem free
Pneumatic entry gate, 50x900 mm cylinders
Pneumatic swing up exit gates with tandem cylinders for easy load and push back cows for milking
Tandem exit gate cylinders 125x375+75 mm
In concrete, durable stainless steel kerb with 1/2" pipe on top edge, stainless steel sliding hose holders
100x80 mm profile connectio between main support posts
120x80 mm in concrete main support posts
Three pool style stainless steel operator ladders.
Optional stainless steel cabinet





Classical Herringbone  
Milking Parlor

Technical Details

All demountable and hot dip galvanized herringbone parlor stalls
Double zig-zag pipes at each sides to direct the cows for standing 30° to the pit
Support post at every stall with back pan
Entry and exit gates
Scissor type lock at exit gates and sliding lock at entry gates
Telescopically adjustable chess bar
Hotdip galvanized kerb with ½" pipe on top edge, stainless steel freely sliding hose holder
Wall to wall pipes connected to support posts
All construction installation by cast and steel clamps, no welding required during installation
Two operator ladders
All parts are hot dip galvanized
Benefit: Milker can see four teats of each milking cow during cluster attachment



Milking System



Electronic Pulsator and  
Automatic Cluster Remover

Technical Details

Enables excellent pulsation for milking with a limping value of less than 0,5
Cares for teat-health, results with less mastitis cases
NARAS-PULS electronic pulsator, 24 VDC
Naras OCS600 SS, double stroke remover cylinder
24 VDC remover and vacuum shut valve manipulator valve (Naras-Puls-24 VDC)
Stainless steel vacuum shut valve bracket
Looped PVC pulsator line
51 mm PVC pulsator clean air line, changable air filters with large surface



# ANIMAL HUSBANDRY MACHINERY AND EQUIPMENT

## Milking System



## Milking Clusters and Jetters

Technical Details

Patented, monoblock teat liner from teat top to milking claw
Just like the calf suckling the cow's teat, squeezes the udder from top to down
490 cc NARAS-AK claw. Stainless steel lower lid and transparent upper lid
4 pcs stainless steel shells
27x16 mm milk hose, 13,5x7 mm NBR dual pulsation hose
Stainless steel looped milk line, fittings and milk cocks, brackets
Stainless steel looped wash line, fittings and wash cocks, brackets
Stainless steel NARAS-PAK 2 bending washing jetters



## Milking System



## CIP Automatic Washing System

Technical Details

Controls the milking and performs the necessary washing program automatically after milking
Two seperate peristaltic dosage pumps for alkaline and acidic detergents
3-way diverter valve
Two pieces of 1" intake valves and a water filter
Water level floater
Controls nearly every function in parlor (reheating, plate cooling, washing and milking vacuum levels, vacuum pumps, extra run of milk pump between washing sessions, pulsators, cluster removers etc.)
Easy maintenance and service





## Herd Management Systems

Herd management system is a management and decision tool that provides accurate data to the dairy farmer to make the best decisions.

### Management Concept

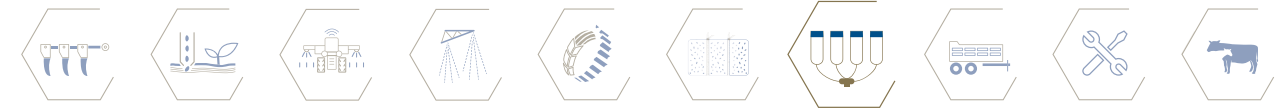
- Production, Breeding and Health Monitoring
- Heat Detection
- Body weight
- Individual Feeding
- Cow Separation
- Management Software



### What is offered?










The system comes with a software that simplifies decision making by analyzing data
Works with an SQL database which generates almost unlimited reports without limitation
Controls the equipment that is connected to the system or can be connected in the future, to collect and transmit data
Works online with all the hardware and sensors
All data, collected automatically or manually entered, is saved in the database of the corresponding animal. Keeps each individual's calendar and genealogy and pedigree records
Keeps the drug inventory
The desired data graphs of the individual, group or whole herd can be seen separately or simultaneously in the same table and makes diagnosis simple
Makes prediction about production (reproduction, herd size, etc.)
Determines heat with a succes rate over 99%
Identifies and warns about disorders such as ketosis, acidosis, lameness
With the web-based service, you can always access your data from anywhere
Provides instant observation and intervention thanks to online Monitoring Tool





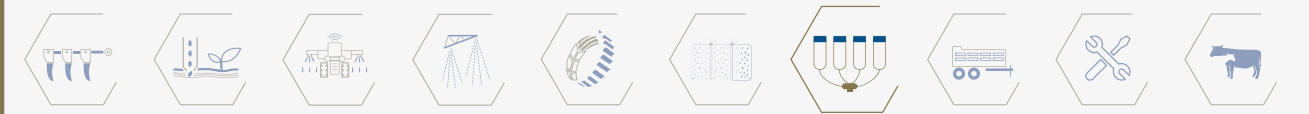
# Herd Management Systems

-  Health data
-  Milker performance measurement
-  Parlor hygiene data
-  Ketosis detection
-  Animal welfare measurement
-  Feed errors warnings
-  Live weight and body condition data

-  Animal heat data
-  Birth time and difficult calving notification
-  Individual feeding data
-  Best insemination time
-  Automatic animal separation
-  Lameness warnings
-  Milk yield and analysis
-  Group welfare measurement
-  Diagnosis of early teat disease (mastitis)







## Barn Equipment



## Animal Brush

Brush Diameter	40 cm
Brush Piece	1 Block (one piece)
Sensor	Yes
0.18 kW 220 V electric motor	
30 rpm working speed	
Metal thickness of at least 5 mm, hot dip galvanized	
It can be tilted in every direction, it works in 10-degree slope and stops in upright position	
In case of jamming, it stops and starts working in reverse mode	

Technical Details

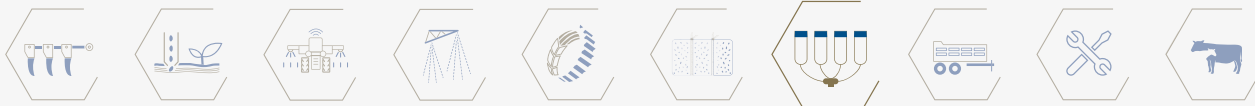
## Product Description

The Naras rotary cow brush is designed to increase the health and welfare of the cow. With its appropriate length and thickness of brushes, this unique animal-friendly brush rotates slowly in all directions on the cow, increasing blood circulation and helping to relieve the animal. It therefore helps more milk production. It does not take up much space in the stables and is quite easy to clean.





Head Locks



Barn Equipment



Free Stall Cubicles

Technical Details

Material	Hot dip galvanized steel, galvanization thickness is 0,80 microns
Size	75 cm/ head, height 90 cm
Individual Locking	Yes
Locking Mechanism	Locked with pin
Type	Safety type, when there is a problem can be opened towards the oppsite side saving the animal
Lock Lever	A lock-lever for every 16 animals (every 12 m), can be produced according to requirements

Technical Details

Design	Specially designed according to animal behaviours and welfare, long-life against corrosion
Material	Hot-dip galvanized pipe, clamp fitting, no welding required
Size	205 cm x 82 cm
Pipe Diameters	60 x 3 mm
Support Post Diameter	76 x 3 mm
Neck-line Pipe	48 x 2 mm
Adjustable	Yes



### Barn Equipment



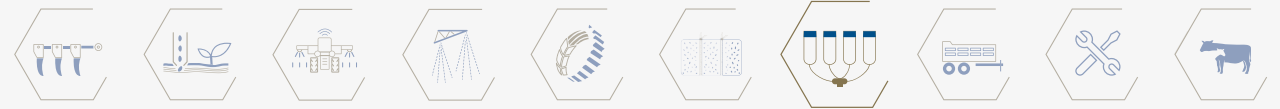
### Ventilation and Cooling Fans

Technical Details

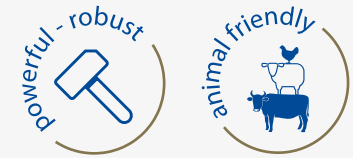
	OPTIMUS	MAXIMUS
Motor	0.55 kW 3 x 380 Volt	1,5 kW 3 x 380 Volt
Propeller Diameter	106 cm	186 cm
Capacity	31,500 m <sup>3</sup>	80,000 m <sup>3</sup>
3 m/sec Airspeed	at 12 meters	at 18 meters
2.8 m/sec Airspeed	at 16 meters	at 22 meters
Blade RPM	900	360

### Product Description

NARAS ventilation and cooling fans are ideal for cattle farms. High power is achieved with low power consumption and speed. The low speed also reduces the wing noise.



### Manure Management Equipment



### Manure Scrapper

Number of Drive Units	1 drive unit, scrapes 2 alleys
Motor Power	380 V; 0,37 kW up to 50 m barn lenght; 0,55 kW up to 100 m barn lenght; 0,75 kW for longer barns
Scrapers	15 mm iron material
Types	13 mm hardened steel chain; 10 mm steel rope; combinaton of chain and rope
Operating Speed	2.8 m - 3 m/min
Control Box	Programmable up to 25 separate times auto-scraping
Power Control	Detects resistance by animal in the alley, stops automatically and restarts, all programmable
Added Benefit	Does not require a u-profile housing for the chain or rope

Technical Details

### Product Description

NARAS manure scrapper increases hygiene, minimizes diseases and thus increases milk yield. They are user and animal-friendly, considering animal welfare, resisting corrosion, oxidation and other external factors. It can be used many years with its durable structure and is highly energy efficient.





Manure Pump

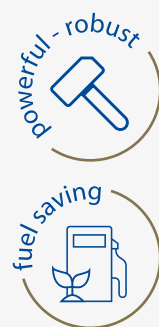
Technical Details

Type	Electric with rubber rotor		
Motor Power	11kW, 380 V		
Material	Body <b>Ductile Iron</b>	Rotors <b>Rubber</b>	Chassis <b>Hot Dip Galvanized</b>
Capacity	68 m <sup>3</sup> / hour		
Built-in Mixer	none		
Working Pressure	3 bar		
Hose Outlet Diameter	150 mm		
Cycle	540 rpm		
Stone Holder	Standard		
	It is a lobed type manure pump that can take its own air		

Product Description

Unlike the compressed type of manure pumps in the market, Naras manure pumps is a lobed type pump and is easy to clean. Through that it resists corrosion, it works for many years without performance loss in the process of transferring liquids which have high particule ratio.

Manure Management Equipment



Manure Mixer

Technical Details

Type	Diving type
Motor Power	7.5 kW
Number of Blades	2 blades
Mixer Speed	325 rpm
Mixer Diameter	610 mm
Material	Casting body
Platform	Included (hot dip galvanized steel construction pedestal and calaskal)

Product Description

- The Electric motor and special design gearbox operate completely in the liquid.
- The mixer can work at the desired depth of the manure pit.
- Special design manure mixer blades (minimum energy use - maximum mixing capability)



Feed Mixing And Distribution Wagons (TMR)



NFM-5 Series

- Discharging cover and band with hydraulic piston on all models
- Double auger system
- Standard loading scoop with hydraulic piston on all models

Product Description

Horizontal Feed Mixer

NFM-5	1	2	3	4
Capacity (m3)	4	4	6	8
Number of Blades	56	122	132	144
Number of Auger	1	2	2	2
Weight (kg)	1750	2400	3200	3500
Required Tractor Power (hp)	30	40	40	50
Length (mm)	4300	4500	4500	4600
Width (mm)	1500	1500	1750	1850
Height (mm)	1950	1950	2200	2500
Options				
Weighening system Electric system				

Technical Details





- animal friendly

powerful - robust

precise

NFM-6 Series

- Loading scoop on all models
- Special alloyed knives and vertical auger system
- Discharge cover with hydraulic piston on all model

Product Description



Vertical Feed Mixer

NFM-6	1	2	3	4
Capacity (m3)	1,5	2	3	5
Number of Blades	6	6	7	7
Number of Auger	1	1	1	1
Weight (kg)	500	1100	1500	2600
Required Tractor Power (hp)	10	25	35	40
Length(mm)	1750	4200	4600	4300
Width (mm)	1100	1150	1500	1650
Height (mm)	1600	2100	2000	2500
Options				
Weighening system Electric system				

Technical Details