MIXER WAGON

SELF-PROPELLED | TRAILED | STATIONARY
FARESIN: TECHNOLOGY AND INNOVATION SERVING YOUR BUSINESS

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# Mixer Wagons Range

## Leader Pf
- **22 Models**: from 11 to 33 m³
- **2 Configurations**: Ecomix | Ecomode

## Trailed Pf
- **22 Models**: from 9 to 46 m³

## Leader Pf 2 Plus
- **10 Models**: (18–33 m³) Ecomix | Ecomode
- **Models**: 2.18, 2.20, 2.22, 2.22B, 2.24, 2.26, 2.26B, 2.28, 2.30, 2.33

## Leader Pf 1
- **6 Models**: (11–20 m³) Ecomix | Ecomode
- **Models**: 1.11, 1.13A, 1.13B, 1.15, 1.17

## Leader Pf 2 Plus Compact
- **3 Models**: (12–16 m³) Ecomix
- **Models**: 2.12C, 2.14C, 2.16C

## Leader Pf 1 Compact
- **3 Models**: (12–16 m³) Ecomix
- **Models**: 1.12C, 1.14C, 1.16C

## Trailed Pf 3 Plus
- **4 Models**: (30–46 m³)
- **Models**: 3.30, 3.36A, 3.40, 3.46

## Trailed Pf 2 Plus
- **12 Models**: (12–30 m³)
- **Models**: 2.12, 2.14, 2.16, 2.18, 2.20, 2.22, 2.24, 2.26, 2.28, 2.30

## Trailed Pf 1
- **6 Models**: (9–17 m³)
- **Models**: 1.1, 1.13A, 1.13B, 1.15, 1.17
**RAMBO**
4 MODELS
from 5 to 10.5 m³

**TWINNER**
6 MODELS
from 13 to 18 m³

**MASTER**
6 MODELS
from 7 to 17 m³

**STATIONARY PF**
7 MODELS
from 11 to 46 m³
2 CONFIGURATIONS
STANDARD | FAST

**OUR NUMBERS**

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**RAMBO (6–10.5 m³)**
4 MODELS

**TWINNER (13–18 m³)**
6 MODELS

**MASTER (7–17 m³)**
6 MODELS

**STATIONARY PF 3 PLUS (40–46 m³)**
2 MODELS
STANDARD | FAST

**STATIONARY PF 2 PLUS (18–30 m³)**
4 MODELS
STANDARD | FAST

**STATIONARY PF 1 (11 m³)**
1 MODEL
STANDARD | FAST
LEADER PF is available in the version:

ECOMIX
High quality – respect for homogeneity
Less power absorption – Cost reduction
Automatic management of diesel engine revs

TECHNOLOGIES
Self-locking differential with limited slip
4 wheel drive – 3 steering systems – 3 driving modes

TRANSMISSION
Up to 8 km/h during milling and loading of products
Up to 15 km/h during mixing and transfer operations
Fast and safe transfers on the road up to 25-30 km/h

Or in the version:

ECOMODE
All the advantages of the ecomix version
Speed up to 40 km/h – Affordability of transfers
Ideal for contractors – Suitable for large farms

TECHNOLOGIES
ASR anti-slip at departure – Hill Holder uphill start control
4 wheel drive – 3 steering systems – 3 driving modes

TRANSMISSION
Up to 8 km/h during milling and loading of products
Up to 15 km/h during mixing and transfer operations
Fast and safe transfers on the road up to 40 km/h
The PF self-propelled cabin was designed to meet the needs of an operator who spends many hours in the vehicle, thanks to an integrated driver's seat with management of primary controls via the joystick and secondary controls via a front keypad.

Control and comfort become the normality when driving a PF mixer wagon.

**CONTROL ARMREST**

Faresin has developed a new control center with a simple and intuitive instrument for the operator.

Multifunctionality thanks to:
- A helm station located on a comfortable and ergonomic side console (with object holder and 12V electric socket) linked to the seat suspension through two adjustments axes - height and depth;
- Two buttons - one on the front for the main controls and one on the side for the secondary ones;
- Two joystick management modes - Loading function and Unloading function;
- Up to three potentiometers that allow you to adjust the speed of the loading and unloading belts.

**GREATER VISIBILITY AND CLEANING OF THE CAB**

Visibility increased by 30% to control all maneuvers. Integral front glass with negative inclination for a longer lasting clean glass. Upper openable grille and upper wiper to facilitate cleaning operations.

**IMPROVED INTERNAL AIR CONDITIONING AND PRESSURIZATION**

Pressurization and climate control system for ideal temperature maintenance and greater cabin cleanliness.

**INTERNAL CURTESY STEP FOR AN EASY AND COMFORTABLE ACCESS**

Safer and comfortable access to the cabin. Standard in PF series.

**STEERING COLUMN AND RIGHT REARVIEW MIRROR**

Steering column with rapid tilting adjustable in depth and height. Right rear view mirror with electric movement.

**MULTI-FUNCTION ELECTRO-PROPORTIONAL JOYSTICK**

All the main functions are conveniently controlled by the proportional electro joystick the secondly ones are adjustable using the side keyboards.

**INTERACTIVE 7” COLOR DISPLAY WITH INTEGRATED DIAGNOSTICS**

7” interactive color display with integrated diagnostics. Quick consultation of machine parameters. Direct setting of some functions. USB port. Display of NIR data.
THE MOST EFFICIENT CUTTER

The solid S355 steel structure, developed and built by Faresin, guarantees the effectiveness and durability of the machine. In particular, it increases the resistance of the parts that are more usable thanks to the stainless steel. The three speeds of rotation of the cutter allows the operator to choose the best solution in relation to the food to be loaded and with the utmost respect for the qualitative properties of the fiber up to a load of 10 m³ per minute, thanks to the electronic management system.

AUTOMATIC REVERSAL

Cutter equipped with an automatic reversing system. Direction of rotation and ascent in the event of flooding.

DIFFERENT DIAMETER

Different diameters for different types of products: 600mm recommended for fibrous products for greater cutting performance and constancy in the load and 700mm suggested for silages with a greater regard to food.

CUSTOMIZED SPEED

3 rotation speeds to better work with each type of product: from flours (150 rpm) to silage and fiber (250/315 rpm). Respect for the fiber at low speed.

CLEANING AND PROTECTION

The special geometry of the lower part of the cutter allows an excellent cleaning of the surfaces where the milling operations take place, avoiding product waste and dirt in the surrounding environment. The cutter roller is covered by a hydraulic safety protection managed by the operator via the joystick or managed automatically.

KNIVES ADJUSTMENT

There are two types of cutter knives (straight and curved) and depending on the product decided, they can be set in 2 different positions to make the cut more or less aggressive.

CUTTER ROLLER

The spiral shape from the outside towards the inside of the milling roller allows optimizing and facilitating the loading phase of the product while maintaining its integrity.

CUTTER CONTROLLERS

When working with long or particularly hard and compact fiber products, counter knives are available to help loading performance by facilitating a precise cut. The operator can easily activate this function through the electric control positioned in the cabin.

CUTTER IN FARNOX

Stainless steel cutter entry to improve product flow and greater durability over time.
SHREDDER: RESPECT FOR THE FIBER AND CLEAN CUT

The mill allows to shred straw and hay without the help of other machinery and to optimize the use of a single machine. The PF Line range provides – on request – a mill with unique efficiency: thanks to a new system of fixed knives and counter-knives, which can be adjusted manually, the feed enters the mixing tank already perfectly cut, in full respect for the fiber and guaranteeing great work performance.

The milling cutter of the mill, applied on the Leaders, is an optional designed to meet the need to have an optimal cutting and mixing times and, consequently, reducing total consumption.

INNOVATIVE DUSTPROOF SYSTEM

Faresin has equipped the mixer wagon with a special water-based dust collector. Placed behind the cutter channel, the device also allows you to add anti-fermentatives.

HIGHER WORKING SPEED

Reduction of cutting times (~80%) compared to a system without a mill.

BIGGER SHREDDER

The Faresin mill, with its 800 mm width and its 128 reversible knives, is the largest on the market.

EXCEPTIONAL CUT

Exceptional cutting capacity thanks to 128 reversible knives and 3 series of counter-blades (2 adjustable and 1 fixed).

UNBEATABLE POWER

Unsurpassed cutting power of 80kW with two-way mill and mill rotation direction.

THE MOST EFFICIENT LOADING CHANNEL ON THE MARKET

The 800mm loading channel arrives from Faresin experience which, thanks to larger dimensions than the standard available on the market, offers a unique load capacity in full respect for the fibre.

ADVANTAGES

- Significant reduction in loading times due to its large size.
- Suitable for the front of high silage combs (up to 61m).
- Greater visibility for the operator.
- Automatic break up system.
- Loading channel suspension system to facilitate kickback.
- Easy to access hopper positioned on the loading channel.

LOADING ALT

The new Loading Alt system, available on both Ecomix / Ecomode versions, is an automatic locking system for the cutter and the loading belt that allows the tank to be filled with the exact amount of ration according to the recipe while maintaining the original characteristics.
GEOMETRY AT THE SERVICE OF HOMOGENEITY

The Faresin wagons, faithful to the Precision Feeding (PF) concept, are equipped with a particular auger and tank geometry that allows to obtain perfectly homogeneous mixes in a very short time, with a considerable reduction in running and consumption costs thanks to relationship between the different components depending on the volume.

In particular, the mixing tank is made of high quality S355 steel with 8mm thick walls and 15-20 mm bottom, with the possibility of covering in stainless steel, for greater durability over time of the parts that are most likely to be worn and subject to daily wear.

EFFICIENT INTERNAL GEOMETRY

The characteristic geometric shape of the internal components of the tank guarantees a constant flow of the product from the bottom upwards and an excellent exchange between the augers with the characteristic “8” cycle.

Conical profile of the tank with a reduced bottom diameter to reduce power absorption and consequently improve performance in the presence of long fiber fodder.

INTERIOR ANGLES

Internal angles specially designed to optimize and speed up mixing and exchange between the two augers.

COUNTER KNIVES

Hydraulic or manual counter knives are one of the many optional features of the Faresin mixer wagon. Located in the lower part of the tank, where the product is closer to the walls, they allow up to 4 units to be set up, which can be activated through two adjustment modes:
- the first one during the cutting phase, through a button placed in the side console, to help cut the ingredients;
- the second one during the mixing phase through the display positioned in the cabin to set a time interval in which they automatically enter and exit the tank so as to facilitate the cutting and mixing phase.

SIDE HOPPER NIR PREPARATION

The side hopper, equipped with a horizontal auger and operated by the control in the cabin, is a very useful optional for loading bulk materials.

Faresin mixer wagons can be equipped with the PolispecNIR ration analysis tool. This is because, later, the customer can decide to buy it and apply it in the appropriate space.

PF AUGER: LOW CONSUMPTION POWER AND EFFECTIVENESS

The auger is the beating heart of the Faresin unified wagon and depends on it the power absorption, mixing times, cutting efficiency, fiber quality, mixing, homogeneity among the ingredients, cleaning of the tank and the uniformity of the exhaust flow depend on the auger.

The experience gained in 45 years of activity has allowed Faresin to design and produce a modern design auger capable of ensuring unique performance.

POWER BLADE

The innovative Power Blade system in Durostat (HB400) increases the durability of the most important part of the auger, the blade. The blade, due to daily wear and tear, tends to wear out slowly thus loosening its specific food processing near the wall of the tank. The new system allows a manual repositioning of the blade itself in the original position ensuring at the same time an always homogeneous mixing and a complete discharge.

UNLOADING BLADE

Durostat adjustable blades that favors complete and homogeneous discharge maintaining the maximum level of cleaning of the tank.

The auger is equipped with a series of knives (from 8 to 13) which can be mounted in two different positions, depending on the composition of the product to be mixed. For particularly long foods, there is the option to add additional knives with the tungsten variant.

FAST CLEANING

With Fast Cleaning the augers rotate at a speed of 45 rpm eliminating the risk of product stagnation and increasing the wholesomeness of the mix.

The hydraulic transmission of the augers, supported by powerful and reliable gearboxes, allows for up to 7 functional speed variations and maximum homogeneity independently of the diesel engine revs.

HYDRAULIC TRANSMISSION

The auger is the beating heart of the Faresin unified wagon and depends on it the power absorption, mixing times, cutting efficiency, fiber quality, mixing, homogeneity among the ingredients, cleaning of the tank and the uniformity of the exhaust flow depend on the auger.
With the entry on the market of the Leader PF range, Faresin Industries increases its options to respond more and more precisely to the needs of the market. The new coverage of the mixing tank allows to contain, in the different processing phases, all the protein substances and the most important nutritional part of the ration that generally tend to disperse in the air. Thanks to this system the maintenance of the solar panels is considerably reduced if present.

**DUST PROTECTION**

The use of the cover becomes of primary importance in all the farms located in areas where the windy climate is prolonged for very long periods. This accessory comes in support to curb the problem and respond in a more structured way to this need.

Large side hatch, with control from the driver’s seat, for loading flour from silos and for loading water.

**PF DISCHARGE: UNPARALLELED LINEARITY AND EASY TO DISCHARGE**

The combination of the shapes of the augers, the geometry of the mixing tank and the exclusive Unloading Blade allows an unsurpassed cleaning of the bottom of the tank and an exceptional linearity of discharge, thanks to the considerable dimensions of the door and of the honeycomb-like mat in PVC.

**TRANSIBLE DISCHARGE BELT**

Available on request the hydraulically movable belt up to 400mm.

**WIDER DISCHARGE BELT**

Unloading belt with increased width of 900mm to speed up and facilitate the unloading even in the presence of long and fibrous products.

**EXTREME FLEXIBILITY**

The different types of exhaust available allow the wagon to distribute the ration in the different types of stables according to the positions: up to 4 in the self-propelled wagon with two augers and 6 in the wagon with 1 auger.

**EXHAUST MANAGEMENT**

All operations are managed automatically and under the operator’s direct control from the cab.
AN ENGINE AT HIGH PERFORMANCE

RELIABILITY
The self-propelled Leader PF is managed by an integrated, reliable and efficient electronics that manages the power delivered by the FPT engine from 4 to 6 cylinders with powers from 125 to 191 kW all in Stage IV and Stage V version. The new engines allow long maintenance intervals: every 500 hours, or with the use of Long Life Faresin lubricants up to 750-1000 hours of work. Specific choices with a view to offering Faresin customers a high level of quality and reliability.

MOTOR POSITION
Faresin’s choice, for mixer wagons, to position the engine at the rear of the frame is a winner choice. This solution allows greater operator comfort in terms of noise and visibility as well as better weight distribution and greater accessibility to maintenance.

FRAME, STEP SHORTER
20 cm shorter frame, to reduce the turning radius. The Leader PF line is composed of machines equipped with 3 steering systems and 4 drive wheels that allow great maneuverability and agility thanks to the reduction of the steering radius and the wheelbase of the frame. This allows the vehicle to move easily inside stalls with limited dimensions or reduced maneuvering space.

INDEPENDENT SUSPENSION
The particular conformation of this height adjustable suspension system allows, with a wide steering angle and large tires, the safe and comfortable progression in all situations, in the presence of rough terrain and in road transfers.

REDUCED STEERING RADIUS

STEERING SYSTEMS AND ALL-WHEEL DRIVE
The 3 steering systems and the 4 drive wheels allow you to have full control in all working conditions and to drastically shorten the machine’s turning radius.

COMPACT VERSION
The Leader PF Compact series, born for stables with reduced passages, is a line of mixer wagons that keeps all the strengths of the series unchanged, offering in addition a height and / or width of the resized medium.
TRAILED PF

UNIQUE PERFORMANCES

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2. GEAR
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3. FRAME
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4. CVMIX CONTINUOUSLY VARIABLE MIXING
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5. PF DISCHARGE BELT
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6. TWINNER
   P.29

7. STROW THROWER
   P.30

8. MASTER
   P.31

9. RAMBO
   P.31
GEOMETRY AT THE SERVICE OF HOMOGENEITY

The Faresin wagons, faithful to the Precision Feeding (PF) concept, are equipped with a particular geometry of the auger and the tank that allows to obtain perfect and homogeneous mixes in a very short time, with a noticeable reduction in management and consumption costs thanks to the relationship between the different components depending on the volume. In particular, the mixing tank is made of high-quality S355 steel with 8mm thick walls and 15-20 mm bottom, with the possibility of covering in stainless steel, for a greater durability over time of the parts that are most likely to be worn and subject to daily wear.

EFFICIENT INTERNAL GEOMETRY

The characteristic geometric shape of the internal components of the tank guarantees a constant flow of the product from the bottom upwards and an excellent exchange between the augers with the characteristic “8” cycle.

CONICAL PROFILE

Conical profile of the tank with reduced bottom diameter to reduce power absorption and consequently improve performance in the presence of long fiber fodder.

INTERIOR ANGLES

Internal angles specially designed to optimize and speed up mixing and exchange between the two augers.

COUNTER KNIVES

The hydraulic counter-knives are one of the many optional features of the Faresin mixer wagon, located in the lower part of the tank, where the product is closer to the walls, they allow up to 4 units to be set up, which can be activated through two adjustment modes:

- the first one during the cutting phase, through the display of the weighing system, to help cut the ingredients;
- the second one during the mixing phase, through the display of the weighing system, to set a time interval in which they automatically enter and exit the tank so as to facilitate the cutting and mixing phase.

LONG LIFE OPTION

The Long Life option, installed on the towed mixing wagons, significantly increases the durability of the parts of the mixing tank that are more subject to wear, i.e. the spirals and the side walls, guaranteeing a long life.

SIDE HOPPER

The side hopper, placed on the side of the tube and equipped with a horizontal auger, is a very useful optional for loading flour.

NIR PREPARATION

Faresin mixer wagons can be equipped with the PolispecNIR ration analysis tool of the Itphotonics sister company. This is because, later, the customer can decide to buy it and apply it in the appropriate space.
A fundamental role in towed mixer wagons is played by the gearbox, due to the multiple possibilities of varying the speed of rotation of the auger in the mixing, cutting and unloading phases.

**GEARBOX WITH 2 SPEEDS**

The two-speed gearbox allows the operator to choose between two auger rotation options depending on the type of processing; managing power draw from the tractor. The ratios are from 33 to 18 rpm of the auger and to 540 rpm PTO.

**HI-MIX GEARBOX**

High performance gear with rotation speed of the augers of 41-19 rpm; 750 rpm PTO auger for rations composed by many ingredients.

**HI-SAVING GEARBOX**

Type of gearbox ideal for recipes with few ingredients and reduced power consumption thanks to a lower ratio: 23 – 13 rpm auger at 540 rpm PTO.

**FRAME**

The high maneuverability of the PF line allows rapid movements of the machine even within stables of reduced dimensions and spaces. Fundamental characteristics of the frame are the axles and the load cells, in addition to the material of which it is composed, S355 steel.

**AXLES**

The type of axle is chosen based on the volume of the mixing tank. The possible configurations, designed for optimal driving comfort, greater maneuverability and maximum safety, are:

- with a single axle
- with two axles, with the second self-steering
- with three axles, with the first and third self-steering

**BRAKING SYSTEM**

The braking system has two variants: air and hydraulic.

**SUSPENSION SYSTEM**

The suspension system is optional. It can be equipped with leaf springs to make towing more comfortable.

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**CV MIX**

**COUNTINUOUSLY VARIABLE MIXING**

The CV MIX transmission by Faresin Industries represents an absolute innovation in the field of trailed mixer wagons. The continuous variation of the augers’ revolutions allows an important reduction of the consumptions, a considerable reduction of the absorbed power and a significant decrease of the mixing times.

The vehicle, suitable for large dairy farms, allows unparalleled extreme ease of use for the operator who no longer has to worry about choosing the right gear or the most suitable engine revs for the different phases of load.

**PATENTED BY FAESIN**

**GREATER PRACTICAL USE**

**20% CONSUMPTION REDUCTION**

**REDUCTION OF MIXING TIMES**
PF UNLOADING BELT

The entire line of PF trailed mixing wagons has a front-mounted discharge with a very large honeycomb door that allows rapid product flow from the mixing tank to the feeder.

The belts, with a width of 900 mm, can be placed in 8 different positions depending on the needs of the user during the forage unloading phase and their exact distribution in the feeder. Furthermore, they can be equipped with speed regulation for optimal batching of the mix.

DIRECT DISCHARGE WITH SLIDE
For the direct discharge of the product to the ground. Standard

SLIDING BILATERAL FRONT DISCHARGE
To unload the product in the right and left feeders with extension up to 40 cm per side.

SIDE DISCHARGE WITH HYDRAULIC LIFTING
For discharging the product in difficult-to-reach feeders.

BILATERAL FRONT OR REAR DISCHARGE
For unloading the product in the right and left feeders.

BILATERAL FRONTAL DISCHARGE
For unloading the product in the right and left feeders.

SIDE DISCHARGE WITH HYDRAULIC LIFTING
For discharging the product in difficult-to-reach feeders.

BILATERAL FRONTAL DISCHARGE WITH HYDRAULIC EXTENSION
For discharging the product in difficult-to-reach feeders.

TWINNER

BUTTERFLY AUGER
In the standard version of the Twiner model, the Butterfly auger has been mounted which, thanks to its geometry and the two adjustable blades placed at the base of the auger itself, guarantees a constant and effective mixing through the rotation of the product upwards and ensures cleaning of the tub even in the presence of very compact and long fiber elements.

For rations rich in hay, wrapped or long fiber products, the “Butterfly” auger guarantees excellent results thanks to:
- Direct side discharge
- 2 Augers
- Quality steel

STANDARD BILATERAL FRONTAL DISCHARGE
For unloading the product in the right and left feeders.

SLIDING BILATERAL FRONT DISCHARGE
For unloading the product in the right and left feeders with extension up to 40 cm.

SIDE DISCHARGE WITH HYDRAULIC LIFTING
For discharging the product in difficult-to-reach feeders.

BILATERAL FRONTAL DISCHARGE WITH HYDRAULIC EXTENSION
For discharging the product in difficult-to-reach feeders.
In order to provide increasingly complete and effective solutions for the breeder, Faresin Industries introduces the option of the straw thrower with a launch up to 25 m in the range of vertical trailed feed wagons, satisfying the dual purposes of food distribution and litter preparation.

Equipped with two rotation speeds and directional launching in two axes (horizontal and vertical) that can be activated and controlled directly by the control located inside the cabin of the vehicle, it allows the operator the maximum control of the distribution in the right quantities.

The Master model, suitable for companies with particular space limitations and with the need to have a fully autonomous wagon in all work phases, can be equipped with a rear cutter which, with the high developed power, guarantees the loading of any product type.

Equipped with three horizontal augers, one of which is a central cutter, and two upper augers, it guarantees excellent mixing of all the ingredients. Remote electric controls and gas damping on the axles provide greater control and comfort.

The Master model, suitable for companies with particular space limitations and with the need to have a fully autonomous wagon in all work phases, can be equipped with a rear cutter which, with the high developed power, guarantees the loading of any product type.

Equipped with three horizontal augers, one of which is a central cutter, and two upper augers, it guarantees excellent mixing of all the ingredients. Remote electric controls and gas damping on the axles provide greater control and comfort.

Compact size, ease of use, rapid mixing, and lower power absorption characterize the Rambo range. It cuts and mixes any product with extreme speed and precision. Speed in transfers up to 40 km / h thanks to the optional braking system. Discharge and doses directly in the manger, the emptying is total without product stagnation.

Simple, Easy, Efficient
The range of PF Faresin stationaries is a suitable solution for biogas plants and for farms that use feeding cycles where the mix is performed inside the tank of the wagon and then distributed through automated systems.

This series, sharing the design of the augers and the mixing tank with the one of the PF self-propelled for a perfect homogeneity, gives the possibility to configure some accessories such as the belt, the discharge, different electric motors with power up to 110kW and different transmission ratios that allow to increase performance and reduce consumption.
Today’s agriculture looks at new market opportunities, including the production of biogas from agricultural biomass. It is a complex sector, where every element of the activity, from the field to the digester, contributes to the efficiency of the system and to the increase in profitability. The quality, shape and composition of the products that feed the digester are elements that, if properly managed, can significantly influence the quality of the final result.

Backed by experience gained in this sector, Faresin offers its professionalism with a complete range of professional machines useful for plant management: mixer wagons and telescopic handlers, together with a consultation aimed at the choice of working criteria capable of enhance the incoming biomass. The strength of the company lies in having tested the numerous variables that characterize the supply of biogas plants, with the aim of making the latter a safe investment able to return value over time.

**ELECTRICAL ENGINES WITH POWER UP TO 110 KW**

All Faresin mixer wagons are equipped with engines that can be operated either by soft start systems or by inverter systems, depending on the type chosen.

**ELECTRIC MOTOR**

In stationary Faresin, the mixing auger or augers are driven by solid planetary gearboxes connected to transmission systems controlled by electric motors, whose functions are managed and regulated by control panels.

Several drain options allow its use in any biogas or breeding facility.

**SOFT START**

It allows a smooth starting ramp so as not to generate anomalous absorption during the starting phase.

**INVERTER**

Inverter mode, in addition to allowing a smooth starting ramp to avoid generating anomalous absorption at start-up such as the Soft Start, also allows the management of different auger rotation speeds depending on the operator’s needs. In addition, it is possible to activate the cleaning function for the total discharge of the mixture and the cleaning of the tank.

**CONTROL PANEL**

The control panel developed by Faresin makes it possible to safely manage all the functions and controls of the stationary mixer wagon.

**TWO SPEED GEARBOX**

Depending on the needs of the operator and the different processes, the mixer wagon can be equipped with a two-speed mechanical gearbox limiting power absorption.

**UNLOADING BELT**

Stationary mixer wagons can be equipped with different unloading systems according to customer needs.

**DIRECT DOOR AND DISCHARGE CHUTE**

Ideal for unloading the product directly on automatic systems or other distribution systems.

**CHAIN RUG AND RUBBER BAND**

This solution allows the discharge of the product up to a height of over 4 meters and the loading of other material directly into the mixer wagons.
### LEADER PF 1

#### CONFIGURATION

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<th>ECOMIX</th>
<th>ECOMODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission</td>
<td>hydrostatic (auto)</td>
</tr>
<tr>
<td>Fuel treatment system</td>
<td>DOC + SCR</td>
</tr>
<tr>
<td>Adjustable seat with air suspension</td>
<td>standard</td>
</tr>
<tr>
<td>Joystick</td>
<td>multi-function electro-proportional</td>
</tr>
<tr>
<td>Cabin</td>
<td>PF Cab</td>
</tr>
<tr>
<td>Air conditioning</td>
<td>optional</td>
</tr>
<tr>
<td>Steering column with three adjustment points</td>
<td>standard</td>
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<tr>
<td>E-work LED lights</td>
<td>standard</td>
</tr>
<tr>
<td>Front axle</td>
<td>320</td>
</tr>
<tr>
<td>Electronic weighing system with four sensors between mixing tank and frame</td>
<td>standard</td>
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<tr>
<td>Rear axle</td>
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<tr>
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</tr>
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<td>Ventilation system</td>
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### LEADER PF 2 PLUS

#### CONFIGURATION

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<td>multi-function electro-proportional</td>
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### Ecomix | Ecomode

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<th>TOTAL LENGTH (mm)</th>
<th>MACHINING HEIGHT (mm)</th>
<th>UNLOADING HEIGHT (mm)</th>
<th>STANDARD TYRES</th>
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### Leader PF 1 Compact

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### LEADER PF 2 PLUS COMPACT

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### TRAILED PF 1

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<th>1700</th>
<th>1800</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAPACITY m³</td>
<td>12</td>
<td>14</td>
<td>15</td>
<td>16</td>
<td>17</td>
</tr>
<tr>
<td>UNLADEN WEIGHT kg</td>
<td>4400</td>
<td>4450</td>
<td>4500</td>
<td>4550</td>
<td>4600</td>
</tr>
<tr>
<td>MAXIMUM CAPACITY AT 8 KM/H kg</td>
<td>4650</td>
<td>5000</td>
<td>5250</td>
<td>5500</td>
<td>5800</td>
</tr>
<tr>
<td>POWER TAKE-OFF rpm</td>
<td>540</td>
<td>540</td>
<td>540</td>
<td>540</td>
<td>540</td>
</tr>
<tr>
<td>REQUIRED POWER kW/hp</td>
<td>60 - 80</td>
<td>60 - 80</td>
<td>65 - 85</td>
<td>70 - 90</td>
<td>70 - 90</td>
</tr>
<tr>
<td>(A) TOTAL LENGTH mm</td>
<td>6600</td>
<td>6600</td>
<td>6600</td>
<td>6600</td>
<td>6600</td>
</tr>
<tr>
<td>(B) HEIGHT mm</td>
<td>2530</td>
<td>2540</td>
<td>2540</td>
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<tr>
<td>(C) WIDTH mm</td>
<td>2380</td>
<td>2380</td>
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<tr>
<td>(D) OUTSIDE WHEELS mm</td>
<td>2700</td>
<td>2700</td>
<td>2700</td>
<td>2700</td>
<td>2700</td>
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<tr>
<td>(E) UNLOADING HEIGHT mm</td>
<td>630</td>
<td>630</td>
<td>630</td>
<td>630</td>
<td>630</td>
</tr>
<tr>
<td>(F) DRAWBAR AXLE LENGTH mm</td>
<td>480</td>
<td>480</td>
<td>480</td>
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<td>480</td>
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<tr>
<td>MAX. UNIT NUMBER qty</td>
<td>42 - 65</td>
<td>55 - 85</td>
<td>70 - 100</td>
<td>70 - 100</td>
<td>80 - 120</td>
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### RAMBO

<table>
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<tr>
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<tbody>
<tr>
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<td>5</td>
<td>7</td>
<td>9</td>
<td>11.5</td>
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<tr>
<td>UNLADEN WEIGHT kg</td>
<td>5800</td>
<td>5900</td>
<td>6600</td>
<td>6900</td>
<td>7600</td>
</tr>
<tr>
<td>MAXIMUM CAPACITY AT 8 KM/H kg</td>
<td>7000</td>
<td>7450</td>
<td>8100</td>
<td>8500</td>
<td>9600</td>
</tr>
<tr>
<td>POWER TAKE-OFF rpm</td>
<td>540</td>
<td>540</td>
<td>540</td>
<td>540</td>
<td>540</td>
</tr>
<tr>
<td>REQUIRED POWER kW/hp</td>
<td>42 - 67</td>
<td>43 - 60</td>
<td>51 - 70</td>
<td>59 - 80</td>
<td>68 - 100</td>
</tr>
<tr>
<td>(A) TOTAL LENGTH mm</td>
<td>6900</td>
<td>6900</td>
<td>6900</td>
<td>6900</td>
<td>7600</td>
</tr>
<tr>
<td>(B) HEIGHT mm</td>
<td>2360</td>
<td>2380</td>
<td>2380</td>
<td>2380</td>
<td>2380</td>
</tr>
<tr>
<td>(C) WIDTH mm</td>
<td>2160</td>
<td>2200</td>
<td>2200</td>
<td>2200</td>
<td>2200</td>
</tr>
<tr>
<td>(D) OUTSIDE WHEELS mm</td>
<td>2040</td>
<td>2040</td>
<td>2040</td>
<td>2040</td>
<td>2040</td>
</tr>
<tr>
<td>(E) UNLOADING HEIGHT mm</td>
<td>500</td>
<td>550</td>
<td>550</td>
<td>550</td>
<td>550</td>
</tr>
<tr>
<td>(F) DRAWBAR AXLE LENGTH mm</td>
<td>3660</td>
<td>3660</td>
<td>3660</td>
<td>3660</td>
<td>3660</td>
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<tr>
<td>MAX. UNIT NUMBER qty</td>
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<td>45 - 69</td>
<td>55 - 85</td>
<td>55 - 85</td>
<td>65 - 100</td>
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### MASTER

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<tr>
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<tbody>
<tr>
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<td>7</td>
<td>8.5</td>
<td>10.5</td>
<td>12</td>
<td>14</td>
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<td>5800</td>
<td>5900</td>
<td>6600</td>
<td>6900</td>
<td>7600</td>
</tr>
<tr>
<td>MAXIMUM CAPACITY kg</td>
<td>7000</td>
<td>7450</td>
<td>8100</td>
<td>8500</td>
<td>9600</td>
</tr>
<tr>
<td>POWER TAKE-OFF rpm</td>
<td>540</td>
<td>540</td>
<td>540</td>
<td>540</td>
<td>540</td>
</tr>
<tr>
<td>REQUIRED POWER kW/hp</td>
<td>42 - 67</td>
<td>43 - 60</td>
<td>51 - 70</td>
<td>59 - 80</td>
<td>68 - 100</td>
</tr>
<tr>
<td>(A) TOTAL LENGTH mm</td>
<td>6900</td>
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<td>6900</td>
<td>6900</td>
<td>7600</td>
</tr>
<tr>
<td>(B) HEIGHT mm</td>
<td>2360</td>
<td>2380</td>
<td>2380</td>
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</tr>
<tr>
<td>(C) WIDTH mm</td>
<td>2160</td>
<td>2200</td>
<td>2200</td>
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<td>2200</td>
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<tr>
<td>(D) OUTSIDE WHEELS mm</td>
<td>2040</td>
<td>2040</td>
<td>2040</td>
<td>2040</td>
<td>2040</td>
</tr>
<tr>
<td>(E) UNLOADING HEIGHT mm</td>
<td>500</td>
<td>550</td>
<td>550</td>
<td>550</td>
<td>550</td>
</tr>
<tr>
<td>(F) DRAWBAR AXLE LENGTH mm</td>
<td>3660</td>
<td>3660</td>
<td>3660</td>
<td>3660</td>
<td>3660</td>
</tr>
<tr>
<td>MAX. UNIT NUMBER qty</td>
<td>36 - 53</td>
<td>45 - 69</td>
<td>55 - 85</td>
<td>55 - 85</td>
<td>65 - 100</td>
</tr>
</tbody>
</table>
In the Research and Development applied to Industry 4.0, improving efficiency and safety standards is a fundamental step.

Faresin has introduced Farmatics, the complete solution of Hardware, SIM, Software Application and Server Data Management, which allows you to remotely control the operation of telescopic handlers and mixer wagons, fitted with electronically controlled engines.

The service is structured in two levels.

At the first level, thanks to a GPS system, the customer can:
- geolocate the position
- view the condition of the machine
- control the consumption and productivity of their vehicles

At the second level, instead, the functions of the machine can be parameterized by contacting the Faresin Technical Office.
Accuracy is important to get good results and keep the costs of power under control. For this reason, Faresin mixer wagons use the I Feed Good system, which is practical to use.

The specific positioning of the weighing sensors, between the mixing tank and the frame, allows a precise and effective loading of the food.

**FEED MANAGEMENT**
The data collected can be viewed in a dedicated portal to effectively manage the company’s stocks.

The 7” display, suitably positioned for high visibility, allows the operator to accurately control the quantity of product loaded with the possibility of programming more than 200 recipes.

Repeaters of different sizes can be added to the system according to specific needs.

**APPLICATIONS:**
1. **USE IN FIELD AND ON COLLECTING MACHINES (shredder, threshing machine and press)**
   - Helps accurately determine the quality status of the crops, allowing the necessary interventions to be planned and identifying the best collection window in which the product has reached an optimum degree of ripeness for harvesting
   - It allows to constantly measure the characteristics of the harvested product, offering the possibility of acting promptly to improve the destination and storage phases
   - It allows a more efficient management of fertilizers based on agronomic data collected in the field, thanks also to the analysis of livestock effluents and biogas

2. **USE IN STABLE AND ON MIXER WAGON**
   - It helps control the quality and variability of food available to the company in order to correctly manage the development of rations and to optimize results and operational processes
   - It allows to measure the feeding behavior of animals during the day, monitoring their ability to select foods and helping identify the reasons, in order to avoid costly waste.

**NIR TECHNICAL SHEET**

<table>
<thead>
<tr>
<th>NIR TECHNOLOGY</th>
<th>REFLECTANCE</th>
<th>SPECTRAL RANGE</th>
<th>900-1700 NM</th>
</tr>
</thead>
<tbody>
<tr>
<td>SENSOR</td>
<td>nGaAs PDA COOLED</td>
<td>Internal, automatic and calibrated</td>
<td></td>
</tr>
<tr>
<td>BATTERY DURATION</td>
<td>70 min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OPERATION TEMPERATURE</td>
<td>5-50°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIMENSION</td>
<td>15x18x8 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEIGHT</td>
<td>2.8 kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FARESEIN AND THE GOAL OF CERTIFIED HOMOGENEITY

Every day, the zootechnical world faces the challenge of preparing a homogeneous ration respecting the nutritional characteristics for the animals. A result that can only be achieved by controlling a process exposed to many variables. From this awareness comes Precision Feed Measurement (PFM), a Faresin exclusive based on the precision feeding technique and the integration between the mixer wagon and the PoliSPECNIR device, both portable and applicable on the machine.

The poliSPEC installation, directly on the tank, transforms the wagon into a real laboratory on wheels allowing the operator to:

- monitoring the entire process in real time
- intervene on the process based on precise indicators
- analyze all raw materials and ration through specific calibration curves
- measure, thanks to Faresin’s patented curves, the Homogeneity and Mixture Index according to the parameters defined by Penn State University (USA) and the Selection index defined according to the University of Padua (ITA)
- know the exact moment in which the discharge of the ration must take place in real time

The homogeneity of the obtained ration aims to ensure the wellbeing of the animal for a greater milk production.

ANALYSIS CURVES

- HOMOGENEITY
  - DRY MATTER
  - PROTEIN
  - FIBER
  - STARCH

MATERIAL ANALYSIS IN THE STAGE BEFORE THE COLLECTION
HARVEST MEASUREMENT IN THE FORAGE HARVESTER
INGREDIENTS ANALYSIS OF THE RECIPE
APPLICATION ON THE MIXER WAGON
ANALYSIS IN THE MANGER
STOOL ANALYSIS

We are the only ones capable of displaying data from the cabin in real time.
**AFTER SALES PROGRAM**

Faresin is close to the customers with a 24-hour support service, 7 days a week with qualified, multilingual staff able to answer all the requests.

**AFTER SALES SERVICE**

To follow the customer with a quality after-sales service, Faresin has created for its Spare Parts Management network, the system for the purchase of on-line spare parts. Here you can choose the spare part, place the order and monitor the status with delivery times within 24 hours for Europe and 48/72 hours for the rest of the world. Over 15,000 managed codes of which 10,000 through a fully automated warehouse.

**4.0 TECHNOLOGY**

Farmatics: an additional idea for good maintenance that allows you to monitor the distance traveled by the machine, plan maintenance with your dealer and develop warranty extension projects.

**ORIGINAL SPARE PARTS AND LUBRICANTS**

**MAXIMIZE THE PERFORMANCE**

Optimised performance levels thanks to Faresin original spare parts, which extend the service life and safety of the machine.

**MORE SAFETY AN BEST PROFITABILITY**

To obtain maximum performance and a guaranteed longer average service life of the machine, replace the oil and filters at the scheduled intervals.

**EXTEND THE ENGINE LIFE**

Choosing Long life oil by Faresin at each servicing is the best way to guarantee the long average service life of the machine. Controlled lubrication systems guarantee continuous performance over time.

**QUALITY**

Lubricants formulated with virgin bases of first refining, with mineral bases and with synthetic bases.

**ORIGINAL REPLACEMENTS**

Choosing original spare parts means ensuring optimal and prolonged operation of the vehicle.

**ORIGINAL LUBRICANTS**

Scheduled maintenance with original Faresin lubricants and filters maintains the machine’s optimal state of health and allows constant and prolonged efficiency at maximum performance.

**MERCHANDISING**

To support customers with a coordinated image that enhances the Faresin brand, a complete collection of gadgets and a work clothing line was created.
THE IMAGES INCLUDED IN THIS CATALOGUE ARE PURELY ILLUSTRATIVE AND THE DATA, CHARACTERISTICS, CONFIGURATIONS AND SETTINGS OF THE FARESIN INDUSTRIES S.P.A. MACHINES MAY VARY ACCORDING TO THE INDIVIDUAL MARKETS.