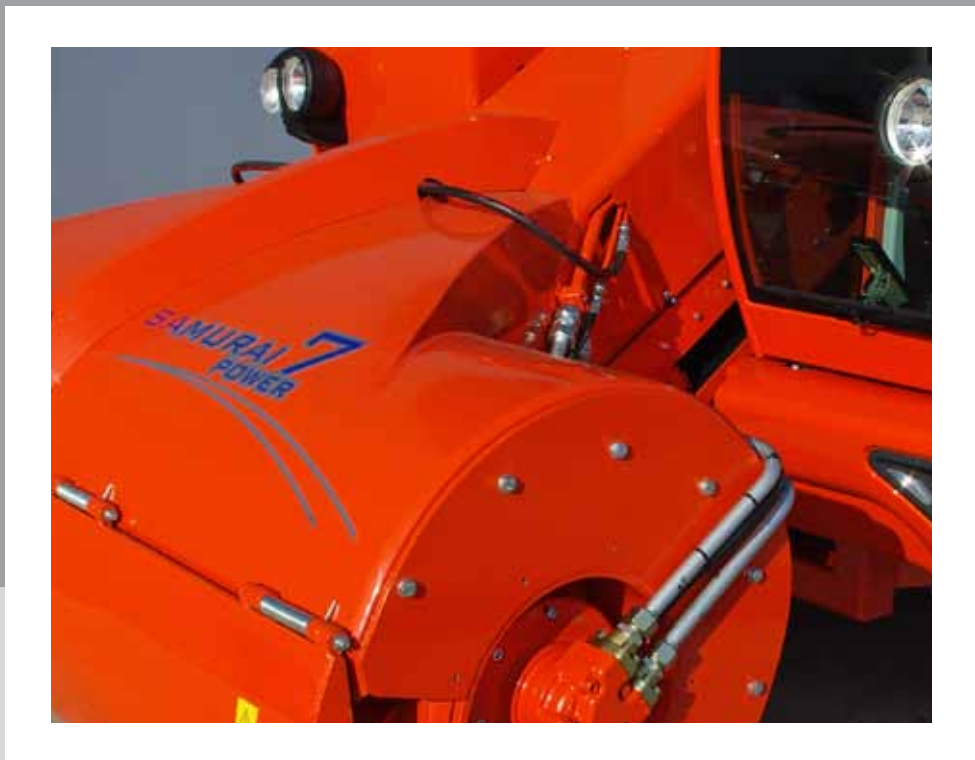


# SAMURAI 7 SELF POWER

High Performance



The new series of high performance  
Self-Propelled Chopping-Mixing Wagons



*United Division*  
Your specialist in cattle feeding

# SAMURAI 7 SELF POWER

## High Performance

We are proud to announce the birth of the new SAMURAI 7 SELF POWER series, a range of Self-Propelled Chopping-Mixing Wagons equipped in “Full Optional” version, ideal for medium and large-sized livestock farms.

These machines are the tangible result of our cutting edge design and development process and meet all the requirements of our most demanding customers, offering them maximum efficiency and dependability in their daily work.

High performance and high quality take pride of place, in line with SEKO's consolidated production philosophy which characterises all its products, ensuring technological excellence in the preparation of livestock feed.



### QUALITY

Seko has obtained the ISO 9001:2008 Quality Management System certification guaranteeing the technological excellence achieved in its new modern production departments and enabling it to offer its customers the most efficient and dependable solutions in the sector.



With the new SAMURAI 7 SELF POWER series, SEKO offers a completely new line of modern high-performing machines with important technical features and original solutions for all operating parts, designed to provide maximum safety and dependability.

In a Chopping-Mixing Wagon, the shape of the mixing box is the main element determining correct operation and the mechanical concepts we have applied on these machines represent the evolution of existing machines which are extremely reliable and already used by millions of livestock farmers all over the world.

A rational approach blends harmoniously with the latest technology in this new generation of machines produced to guarantee maximum throughput, low running costs and optimum comfort and safety levels.



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# SAMURAI 7 SELF POWER

Shorter time and lower power demand



The new SAMURAI 7 SELF POWER series Chopping-Mixing Wagons, a line of machines designed for the most demanding livestock farmers, are the result of SEKO's ability to translate the best innovations into exclusive technologies; these chopping-mixing wagons offer exceptional power and performance, obtained via numerous technical details all designed to guarantee a superior quality product.



The various structural components are built with thick high-strength steel, making the machines extremely solid and robust and ensuring long life.



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## The main innovations of the new SAMURAI 7 SELF POWER series, all aimed to the highest quality and performance

- Industrial design to maximise load capacity and throughput, at the same time enhancing the machine's extraordinary manoeuvrability and comfort.
- Rounded geometry mixing box, with high load capacity for improved circulation inside the product.
- Rear auger bearing supports unit externally fitted for improved mixing and for quick easy maintenance.
- Upper edge overhangs transmission compartment for protection against water infiltration, dusts or dangerous elements.
- New designed chain discharge belt with cover for improved uniform distribution and higher operator's safety.
- Roomy comfortable ergonomic cab with maximum visibility.
- Powerful high yield tilling unit, working capacity 2 tons/min.
- "Double Mix" patented chopping and mixing system with only two lower augers.
- Dual steering axle for reduced turning radius.
- Powerful front engine.
- High quickness and accuracy in any working operations to save power absorption and timework.
- High quality mix, maintaining the products' fibre perfectly chopped and not defibred, always soft and homogeneous.
- Available with capacity 15, 21, 23, 27 m<sup>3</sup>.



## SAMURAI 7 SELF POWER

The original “Double Mix” patented chopping and mixing system



Our patented “Double Mix” chopping and mixing system is characterised by two special double spiral counter-rotating augers housed on the bottom of the box, provided with star-shaped knives and counter-blades for processing any product, offering limited power absorption and high performance.

The result is a mixture with a degree of uniformity over 99% as demonstrated by the tests performed at university laboratories both in Italy and abroad.

During processing, the product remains very soft as no mechanical conveying is performed in the upper part of the box.

It is the product itself that moves and is evenly mixed due to the soft flow created by the two lower augers in the centre of the mixing box.

This system based on a concept of simplification has obtained widespread international approval as it allows the use of a whole range of farm products and by-products, offering exceptional advantages in terms of immediate increase in milk and meat production, and in terms of drastic reduction in ration and labour costs.

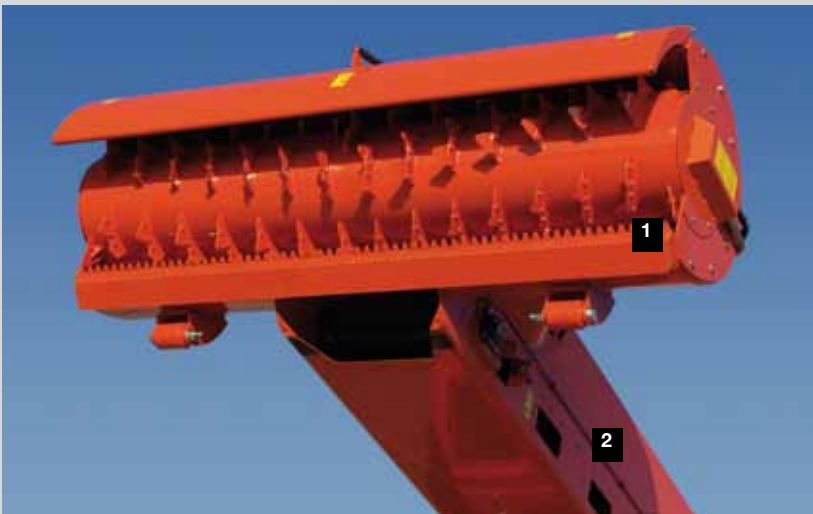


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## New high performance tillaging unit

The silage tiller is one of the main elements of these machines: it ensures maximum working efficiency and respect for the fibre, and offers the operator maximum visibility and control of the loading operations.

- The silage roller with working width of 2210 mm, equipped with suction paddles, specially shaped blades and counter-blades, tillages any product rapidly and accurately.
- The tillaging arm extends to 5200 mm developing a high throughput in the collection of both grass and maize silage (2 ton/m).
- The upper outer side of the wide loading channel is provided with a series of portholes which allow for easy cleaning and routine maintenance operations.
- The tillaging arm channel is equipped with 2 coaxial motors with cubic capacity of 80 cm<sup>3</sup> and power of 25 kW to guarantee perfect movement of the rubber belt even when conveying materials that are particularly heavy due to their high degree of humidity.



3. Tillaging roller rotation speed adjustment to variable r.p.m. according to the type of product to be tillaged.  
4. Tillaging arm descent speed adjustment by means of proportional lever (functions can be controlled by the joystick in the cab).



5. Tillaging roller diameter 400 mm, driven by 2 hydraulic motors, power 110 kW, rotation speed 0:670 rpm.



## SAMURAI 7 SELF POWER

A superbly stylish driver's cab



The machines in the SAMURAI 7 SELF POWER series are equipped with an exclusively designed cab which makes them unparalleled in terms of operator comfort and safety.

The fully glazed cab ensures maximum visibility in the upper part during tillaging operations and also in the lower part and at the side during collection of products from the ground.

The door is also fully glazed and provided with electrically controlled side window.

Dependable and advanced weighing and data transfer systems allow programming of different recipes according to the different types of livestock, and constant monitoring of the ration in the display and in the farm management system.







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For greater driving comfort, all the main controls (travelling transmission + silage tiller operation) have been incorporated in a practical joystick integrated in the right-hand arm of the seat, while all the manual controls of the machine are operated from the left-hand arm.

The machine is ultra-ergonomic due to the steering with central column, which ensures roominess and space for movement, and the comfort seat with double armrest, adjustable suspensions and variable backrest angle.



The rear wall, soundproofed and heat-insulated, houses the climate control system with high efficiency heat exchange batteries and ducts for optimal conditioning.



# SAMURAI 7 SELF POWER

A powerful reliable engine



Cylinders n°	6
CC engine	6600 cc
Power	129 kW
Max. Torque	695 Nm
Setting	2200 RPM
Fuel consumption	236 g/kWh
Oil tank capacity	220 lt
Safety	thermal
Electric installation	12 V
Cooling Fan	suction

The SAMURAI 7 SELF POWER machines are equipped with a Perkins Stage 3 Turbo-Intercooler engine, 175 Hp/129kW, provided with integral electronic control system which offers exceptional performance with maximum efficiency in terms of consumption.

Its frontal position allows easy access for control and maintenance operations.

The fuel tank has a capacity of 220 l thus ensuring a high working range.

The hydrostatic transmission with automatic capacity change allows a speed of 40 km/h.

The bonnet is below the driver's cab, offering the driver optimal visibility also on the right side of the machine during working and manoeuvring operations.





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Dual steering axle  
for reduced turning radius



Rapid manoeuvring and movement speed are essential characteristics in a Self-Propelled machine to reduce work times and consequent running costs.

These advantages are enhanced by the “Automotive” travelling transmission provided by the dual steering axle which makes the SAMURAI 7 SELF POWER rapid in their movements and agile even in restricted spaces where there is limited room for manoeuvre.

On request, they can be equipped with 4 drive wheels, giving them unique reliability also on muddy and uneven ground.

The application of wide radius wheels and front leaf spring suspensions, together with an efficient braking system, enable these machines to move softly and progressively over medium and long distances.



# SAMURAI 7 SELF POWER

## Equipment

### Standard

- > Turbo-Intercooler engine, 175 Hp/129 kW
- > Self-cleaning reversible fan
- > Water-oil-air cooling system with anti-clogging radiators
- > "Comfort" driver's cab, complete with ventilation, heating and cushioned seat
- > Air conditioned driver's cab
- > Large working headlights
- > Revolving warning light
- > Travelling transmission with Automotive system
- > Engine front steering axle with self-locking differential and service brakes
- > Idle rear steering axle and parking brake
- > Front leaf spring suspensions
- > Front drive wheels
- > Speed 0-25 km/h
- > Hydraulically assisted steering
- > Travelling transmission control by means of joystick, located in the cab
- > Auxiliary service controls with solenoid valves, located in cab
- > Front silage tiller with high production, dual motor, with hydraulic control, working width 2200 mm
- > Hydraulic control tiller protection
- > High-strength steel structure
- > Mixing box bottom lining made of wear-resistant steel (Hardox)
- > Chopping and mixing augers made of high-strength steel
- > Hydraulic control auger transmission, 2-speed, with automatic safety reverser
- > Automatic lubrication system, centralised
- > Revolving star-shaped chopping blades
- > Toothed counter-blades, removable and adjustable
- > Rear hopper for loading additional products
- > Electronic weighing system, Sekotronic L150
- > Left-hand side discharge with 900 x 800 mm belt chain
- > Provided with all pre-settings for second discharge side
- > Inspection ladder

### Optional

- > 4 drive wheels
- > Speed 0-40 km/h
- > Industrial rear wheels
- > Heating system for low temperature engine start
- > Reversing system with monitor and camera
- > Pneumatic seat
- > Rear-view mirror with electric defrosting
- > Chain and/or rubber discharge belts with lengths up to 2400 mm
- > Magnet for ferrous materials, applied to the discharge belt
- > High-strength steel auger blades kit
- > Galvanised tube spray system mounted on upper perimeter, complete with cock and  $\frac{3}{4}$ " BSP connector for connection to external source
- > Weighing systems up to 100 programs Printer, Data transferor, Data transferor, Radio controls, PC data transmitter
- > Customised painting



#### SAFETY

We have always been committed to guaranteeing maximum user safety in our machines. For this reason, in the wake of the latest EC regulations concerning the safety of agricultural machinery, SEKO equips all its machines with appropriate safety devices in compliance with the requirements in order to avoid all operator risks.