

# **GASPARDO**



***IN-LINE CEREAL  
SEED DRILLS***

# IN-LINE CEREAL SEED DRILL RANGE

## **SOWING FIRST OF ALL**

The MASCHIO GASPARDO range of cereal seed drills offers the highest seeding quality and high performance in any conditions of use. A complete offer with fixed and folding models can meet the needs of small farmers, the most demanding contractors and large cereal companies.

The precise and reliable metering units allow you to distribute different types of seeds, such as cereals, alfalfa, rapeseed and soy, always guaranteeing a homogeneous investment. Furthermore, thanks to a wide range of sowing units, it is possible to sow in any type of soil, even in the presence of abundant crop residue.



## **BENEFITS**

- *multiple solutions for soils with different degrees of tillage*
- *easy adjustment*
- *adaptability to different types of seeds*
- *low maintenance*
- *great loading autonomy*

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## ***PINTA SC ISOTRONIC 600***



# MASCHIO GASPARDO

## seeding units

### UNITY MEANS QUALITY

Depending on the type of soil and seeding conditions, the choice of the most suitable seeding unit is essential to maximize quality and ensure a homogeneous depth of seed placement. The pressure exerted by the elements allows for perfect furrowing of the ground, creating the ideal environment for germination.



#### **SUFFOLK**

Seeding unit particularly suitable for conventional seeding or with low crop residues. It expresses its maximum effectiveness in conditions of strong presence of stones.



#### **"VORTEX" SINGLE DISC**

It adapts to seeding in any soil type and humidity, even in the presence of crop residues. The rotation of the disc avoids the dragging of the straw, while the special rotating rubber scraper keeps the disc always clean. The "VORTEX" single disc is available with a depth wheel.

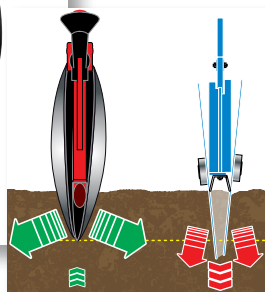


#### **"COREX" DOUBLE DISC**

Particularly effective on loose, sandy or peaty soils even in the presence of crop residue.

The characteristic camber of the disc allows the deposition of the seed at a constant depth, avoiding excessive sinking or displacement of the soil.

The double "COREX" disc is available with a depth wheel.





### **TINE COULTER**

Specialized seeding unit for coarse, tough and stony soils. The movement of the double coil spring allows precise and safe seeding even on particularly uneven ground.



### **SPRING COULTER**

Seeding unit particularly suitable on coarse, tough and stony soils with little presence of crop residue. The adjustable load spring allows the element to adapt to different bed conditions by optimizing the sowing depth.



### **DOUBLE DISC COULTER**

The double disc is suitable for minimally tilled soils even with abundant crop residue. Very incisive on tough soils, it can be equipped with a special double rubber wheel to facilitate seed coverage and germination.



# Mechanical distribution

## **MAXIMUM METERING ACCURACY**

The MASCHIO GASPARDO mechanical distribution system ensures correct, even product metering along the full seeding width.

The special series of metering rollers makes it possible to sow a wide range of seeds: from small sizes like rapeseed, clover and grass to larger diameters like cereals, soybeans, peas and tic beans without compromising the uniformity of the seeding. The MASCHIO GASPARDO mechanical distribution models, such as NINA, S-SC MARIA, MEGA and METRO MEGA, can distribute a quantity of product ranging from 2 to 500 kg/ha.



## **FAST AND SIMPLE ADJUSTMENT**

The continuous 3-cam gearbox in oil bath with inspection window ensures constant and uniform motion transmission. Thanks to it, it is possible to set the speed of the seed distributing units in a simple and precise way. The use of ball bearings ensures greater wear resistance of the transmission shafts.

# Four steps to a winning adjustment

## **SIMPLE AND FAST CALIBRATION**

The MASCHIO GASPARDO mechanical distribution system allows for accurate metering of different types of seeds. Its adjustment is simple and intuitive, allowing you to calibrate the seed drill according to the different agronomic needs required in the areas all over the world.

Depending on the seed, the quantity to be distributed and the distance between the rows, the adjustment is supported by the supplied user manual and by the tables displayed on the seed drill. In this way it is really simple and quick to switch from one type of seeding to another.

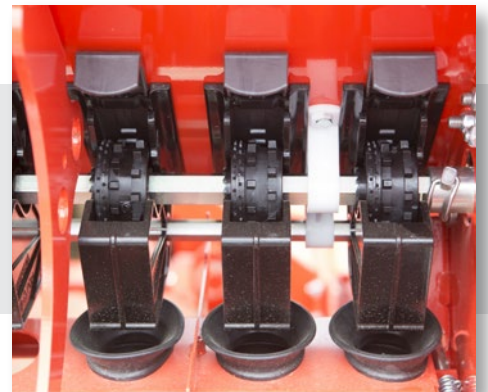


## **1 - CONTINUOUSLY VARIABLE TRANSMISSION**

The three-cam oil bath gearbox situated on the side of the machine transfers movement from the drive wheel to the distribution line. The seeding population can be varied from the transmission acting on the adjustment lever calibrated on a continuous scale from 1 to 55.

## **2 - SHUTTER SLIDES**

The outlet shutter slides have three positions for adjusting the quantity of seed exiting the hopper.



## **3 - METERING ROLLERS**

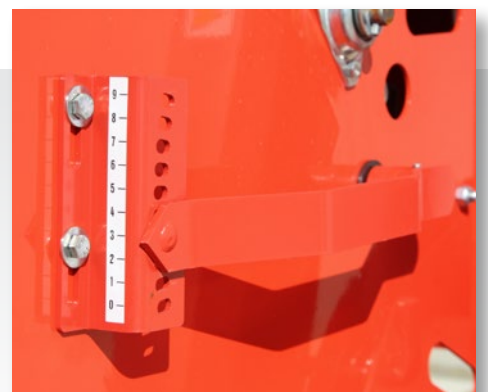
Depending on the size of the seed it is necessary to choose the most suitable type of metering roller.

The large-toothed roller is suitable for large seeds. For small-sized seeds, it is instead necessary to use the small-tooth roller, which can be activated by inserting the supplied key into the hole of the roller and then pushing the drag stop outside.

## **4 - PROBES**

The correct positioning of the probes ensures a delicate treatment of the seed in order to avoid breakage and to maintain a fluid, constant distribution.

The probe adjustment lever is situated on the left side of the machine and can be set from 0 to 9. Depending on the type of seed used, it is necessary to position the lever according to the number found in the seeding table.



# NINA

starting from 60 HP - mechanical seed drill for cereals

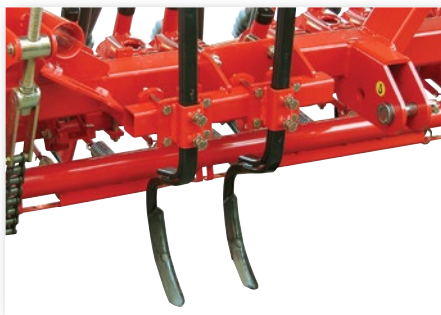


## **COMPACT BUT PRECISE**

NINA is a mechanical seed drill for in-line seeding, suitable for small and medium-sized farms that need a light, reliable and low maintenance machine.

Thanks to the particular structure of the frame and the sowing elements it is possible to sow on all soils prepared with conventional techniques. Equipped with a comfortable platform for inspection and loading, the large hopper can be further extended through an optional extension.

The machine can be combined with low and medium power tractors and is also suitable for hilly terrain.



## **PAIR OF TRACK ERADICATORS**

On request, two pairs of track eradicators with elastic tool can be installed in the front part of the machine with manual adjustment of the working depth. The seedbed will be soft, also thanks to the elimination of tractor traces to guarantee homogeneous germination.

## **FAST AND SIMPLE ADJUSTMENT**

It is possible to vary the pressure of the seed-covering harrow easily using the rotation of the spring located on the upper parallel arm. On request it is also available with hydraulic control.

It is also possible to change the inclination of the seed-covering harrow using a special adjustment handle.





## NINA 300



### HOPPER DIVIDERS

To obtain the maximum uniformity of sowing even in hilly areas or with steep slopes, the hopper can be divided into several compartments thanks to dividers (optional). The hopper is easy to inspect and easy to load thanks to a convenient platform.



	NINA		
Model	250	300	400
Working width (cm)	250	300	400
Transport width (cm)	250	300	400
Seed hopper capacity (l)	410	500	650
Hopper capacity with extension (l)	640	780	1050
Seeding elements (no.)	17-19-21	23-25	29-31
Row spacing (cm)	15-13-12	13-12	14-13
Weight (kg)*	620	660	1015
Wheels	6.50 - 15	6.50 - 15	10.0/75 - 15.3

\*weight with standard SUFFOLK coulter, 13 cm row spacing

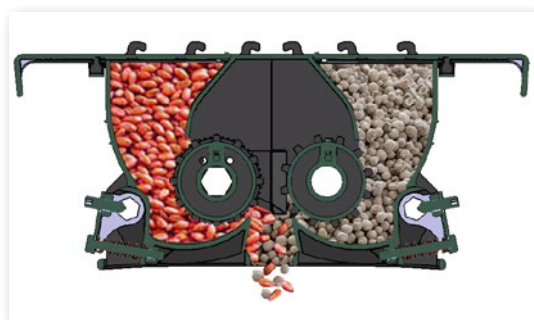
# S-SC MARIA

starting from 70 HP - mechanical seed drill for cereals



## **ROBUST AND PRECISE**

S-SC MARIA is the in-line mechanical seed drill to sow on minimally tilled soil or soil of any texture. The units are arranged in three rows in order to minimize the clogging of soil and possible crop residues. The sturdy frame and the well-spaced units make it a HEAVY DUTY machine, suitable for operating in harsh conditions and with minimal maintenance requirements.



## **SC VERSION: seed and fertilizer**

The SC version allows to distribute seed and fertilizer at the same time, favouring a better development of the plant. In particular, the hopper is divided into two compartments: 55% for the seed and 45% for the fertilizer, with levels that can be controlled by mechanical indicators.

## **WELL SPACED ROWS: facilitated flow**

With the arrangement of the units on three rows, S-SC MARIA is very agile and efficient in the presence of crop residue, improving its flow with the soil and avoiding any clogged or dragged material.





**SC MARIA 300**



**SEED-COVERING HARROW WITH PLATFORM**

The seed-covering harrow ensures the levelling, slight soil preparation, coverage of the open seeding furrows and perfect surface compaction. The platform facilitates the loading operation and inspection of the hopper.



	<b>S-SC MARIA</b>			
<b>Model</b>	250	300	350	400
<b>Working width (cm)</b>	250	300	350	400
<b>Transport width (cm)</b>	255	310	350	400
<b>Seed hopper capacity (l)</b>	475	595	880	1020
<b>Seed-fertilizer hopper capacity (l)</b>	265-210	330-265	490-390	570-450
<b>Seeding elements (no.)</b>	17	22	25-28	28
<b>Row spacing (cm)</b>	14.7	13.6	14-12.5	14.3
<b>Weight (kg)*</b>	820	860	1180-1196	1300
<b>Wheels</b>	6.00-16	6.00-17	10.00/75 - 15.3	10.00/75 - 15.3

\*weight with DOUBLE DISC, SEED version

# MEGA – METRO MEGA

starting from 120 HP - mechanical seed drill for cereals



## FOR LARGE AREAS

The MEGA and METRO MEGA models were made for large cereal farms. These seed drills have a robust structure, so that they can operate in critical conditions and on minimally tilled soils. The double disc coulters is a winning weapon and a universal solution for all types of soils, even those prepared in a rough way and with abundant crop residue.

The hopper is divided into two compartments, respectively for seed and fertilizer: the two products are adjusted independently and distributed in the same seeding furrow. These seed drills can boast high autonomy and large seeding capacity.

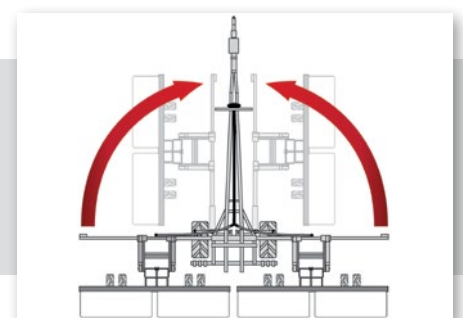


## SEEDING UNIT ARRANGEMENT

The seeding units are arranged on two rows, in order to allow a good flow of soil in the presence of crop residues. The sowing depth and the pressure of the units on the ground are easily managed by a special crank.

## TRANSPORT

Thanks to the folding frame, the METRO MEGA model can be folded from 12 to 6 meters in width to ensure transport.



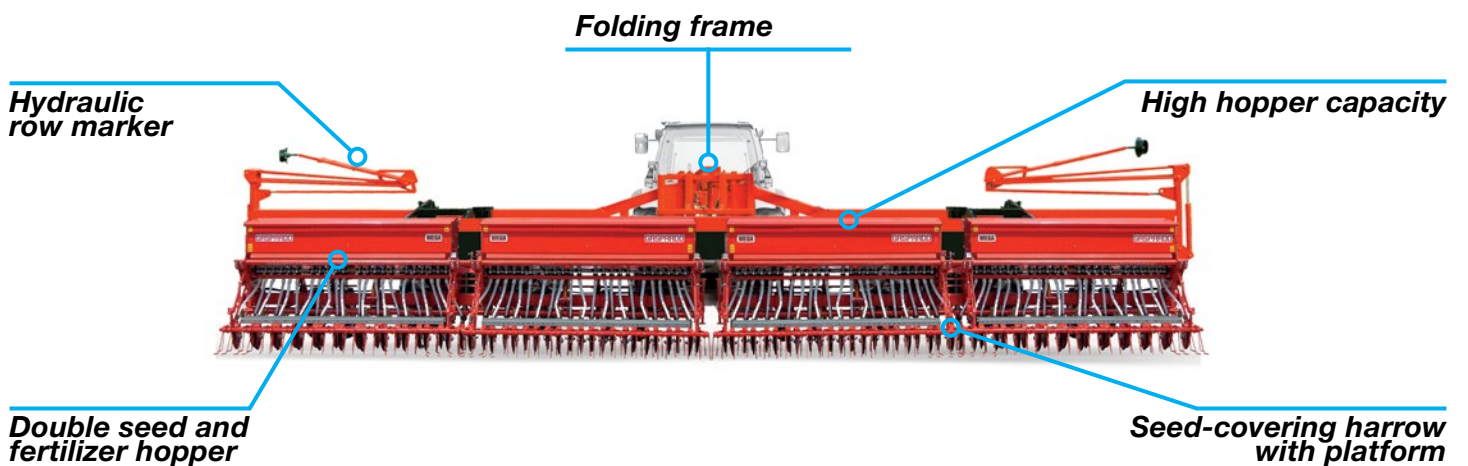


## METRO MEGA



### SC VERSION: seed and fertilizer

The metering devices for the combined distribution of seed and fertilizer are double chamber in stainless steel. Unlike the seed metering roller, the fertilizer roller is a constant pitch roller mounted on the hexagonal axis. The seed and fertilizer are deposited inside the same drop tube and subsequently in the same seeding furrow.



	MEGA		METRO MEGA
Model	500	600	1200
Working width (cm)	500	600	1200
Transport width (cm)	500	600	600
Seed-fertilizer hopper capacity (l)	540-420	660-540	1320-1080
Seeding elements (no.)	36	44	88
Row spacing (cm)	13.9	13.6	13.6
Weight (kg)*	1880	2600	10310
Wheels	6.50-15	6.50-15	560/60 22.5

\*weight with DOUBLE DISC

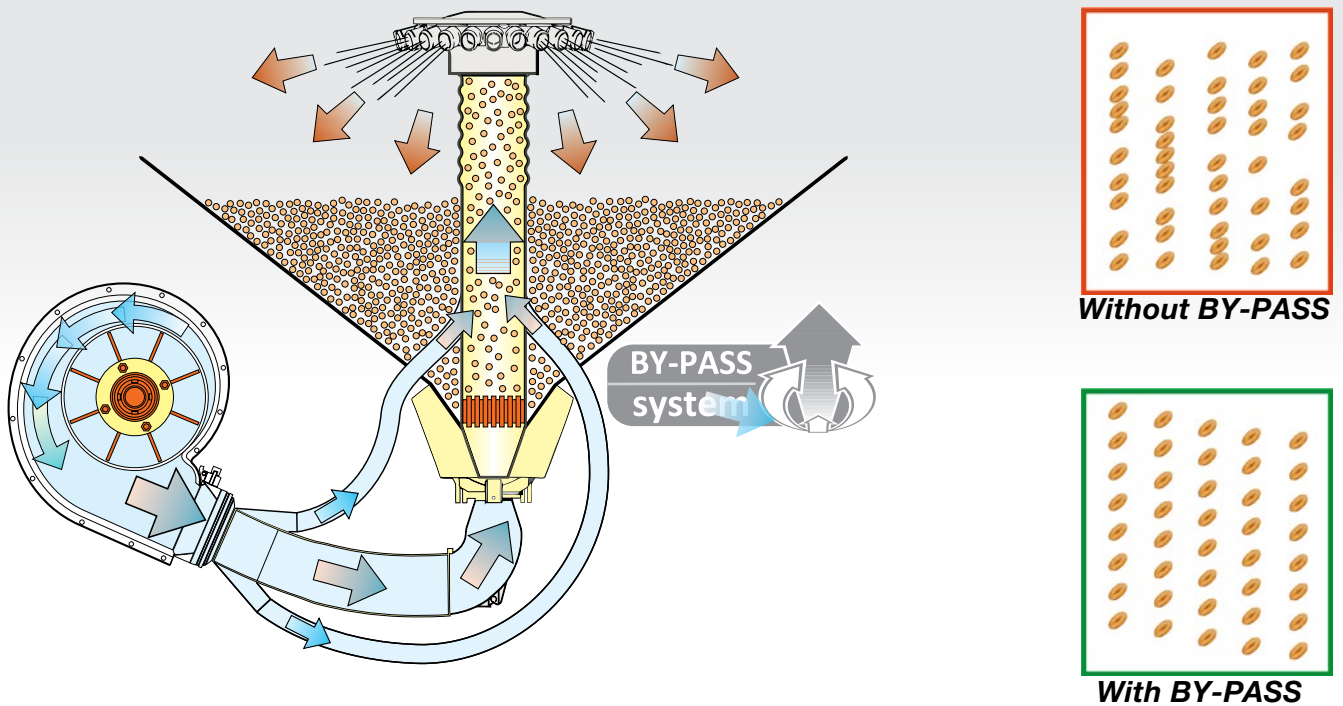
# Pneumatic distribution

## UNIFORMITY IN ALL CONDITIONS

MASCHIO GASPARDO's reliable volumetric distributor and pneumatic conveying system ensure seeding that is always precise and uniform. By changing the type of metering rollers it is possible to sow different types of seeds such as cereals, rice, soybeans, alfalfa, rapeseed and tic beans. The aluminium casing of the metering unit and the plastic used for the rollers ensure long service life and corrosion resistance.

## BY-PASS SYSTEM: guaranteed patent

The MASCHIO GASPARDO BY-PASS system maximises the uniformity and consistency of the product's pneumatic transport along the entire working width of the seed drill, guaranteeing perfect sowing even on steep slopes.



## FOR ALL SEEDS AND FERTILIZER

Depending on the type and shape of the seed to be sown, three different metering rollers and a specific roller for fertilizer are available. They have a large diameter to reduce the number of revolutions and to avoid load loss. A large number of cells offset from one another ensures continuous, uniform metering.



### G1000 - Roller for high seeding density

Can be used to distribute large quantities per hectare of large seeds (up to 400 kg/ha).



### N500 - Roller for medium sowing density

Suitable for sowing fall and winter cereals with medium quantities sown per hectare (200 kg/ha).



### G626 - Fertilizer metering roller

Suitable for localized fertilizer distribution during sowing.



### F25 - 125 - Roller for small seeds

Ideal for the distribution of small quantities per hectare, even less than 3 kg/ha. To ensure an even more homogeneous distribution it is possible to exclude some sectors of the roller.

# Metering transmission: mechanical or electrical

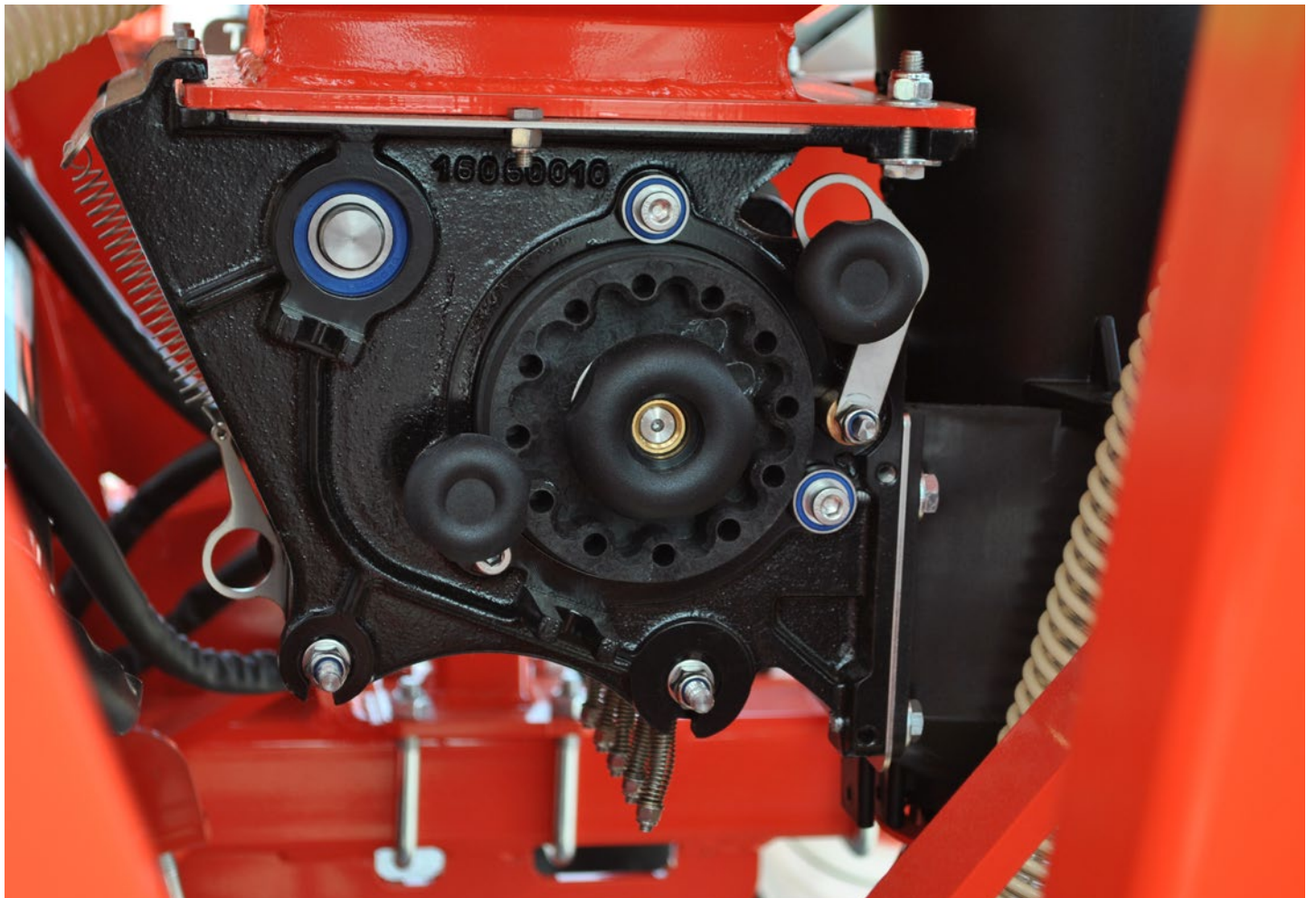
## **MECHANICAL DRIVE**

The transmission is derived from a toothed wheel and transferred to the metering dispenser by means of the three-cam continuously variable transmission. The dosage is adjusted by means of a convenient lever, a simple and cost-effective solution within everyone's reach.



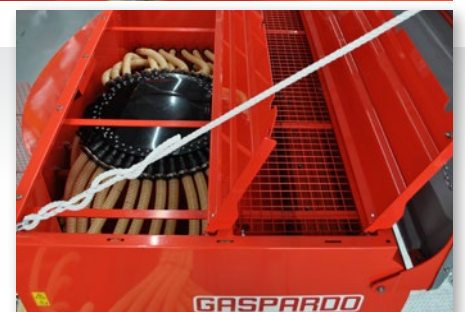
## **ELECTRIC DRIVE** **ISOTRONIC**

The dispenser is driven directly by the electric motor, with metering managed via ISOBUS from the control terminal in the tractor cab.



## **DOUBLE DISTRIBUTION, BETTER YIELD**

In the PINTA SC model, the pneumatic distribution of the seed and fertilizer is guaranteed by a blower with hydraulic tractor drive, easily adjustable from the cab. In this way the seed and fertilizer are distributed evenly and constantly to all elements.



# PINA-PINTA-PINTA ISOTRONIC

starting from 70 HP - pneumatic seed drill for cereals

## PINA 400



### **SIMPLE AND COMPACT**

PINA and PINTA are two ideal models for small and medium-sized cereal farms. The sturdy frame allows you to sow on well-tilled soil. The good spacing between the units guarantees a continuous flow even in the presence of crop residue.

PINA is the most compact model of the range, it stands out for its high performance and low maintenance, good working capacity and can be combined with medium power tractors.

PINTA has a capacity of up to six meters, is sturdy and allows you to sow even on minimally tilled soils. The size of the hopper and the seeding speed contribute to obtaining a good daily operating capacity. PINTA is also available in the ISOTRONIC version with ISOBUS communication system.



### **HYDRAULIC SYSTEM SUPPLEMENT**

The pneumatic distribution of the seed is managed by a mechanically operated blower with PDP 540 rpm (opt. 1000 rpm). Upon request, the operation of the blower can be hydraulic: depending if connected directly to the tractor system or independent by means of its own circuit and pump.

### **TRAILED VERSION**

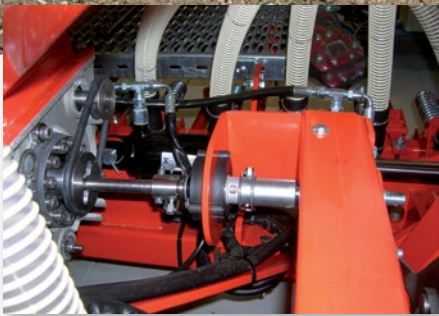
All models are available in both mounted and trailed versions. The trailed version can be combined with lower-powered tractors, including tracked ones, and is particularly suitable for hilly terrain.

The transport is made possible thanks to the hydraulic lifting on the wheels.



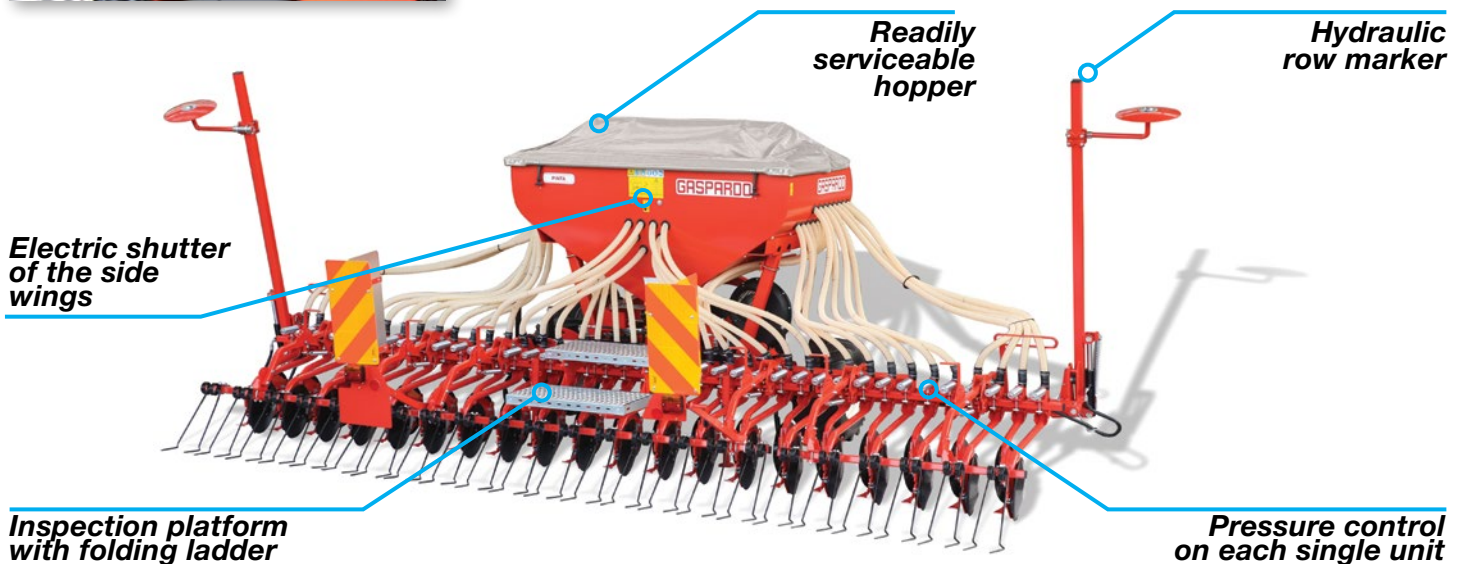


# PINTA ISOTRONIC 450



## ELECTRIC SEEDING INTERRUPTION

Thanks to a special electric motor that acts on the gate, it is possible to immediately interrupt the distribution of the seed, in order to avoid waste or overdosing near headland turns.



Inspection platform with folding ladder

Pressure control on each single unit

	PINA		PINTA-PINTA ISOTRONIC		
Model	400	450	400	450	500
Working width (cm)	400	450	400	450	500
Transport width (cm)	250	250	250	250	250
Seed hopper capacity (l)	800	800	1000	1000	1000
Seeding elements (no.)	29-32	29-32	29-32	29-32-36	32-36-40
Row spacing (cm)	14-12.5	15.5-14	14-12.5	15.5-14-12.5	15.7-14-12.5
Weight (kg)*	1140	1120	1185 **	1195**	1230**
Wheels	205/70 - 15	205/70 - 15	26x12.00-12	26x12.00-12	26x12.00-12

\*weight with SIMPLE DISC with PAD, maximum row spacing

\*\*ISOTRONIC version weight

# PINTA XL ISOTRONIC PINTA SC ISOTRONIC

starting from 120 HP - pneumatic seed drill for cereals



## GENEROUS AUTONOMY AND WORKING CAPACITY

PINTA XL and SC ISOTRONIC are characterized by high autonomy and good forward speed, representing the top of the range for cereals. The sturdy frame, good spacing and excellent pressure exerted by the units, allow the machine to be used on minimally tilled soils, even in the presence of crop residues. The pneumatic transport of the seed is even and precise along the whole seed bar.

PINTA SC ISOTRONIC has a hopper divided into two compartments, with two centralized metering units for the distribution of both seed and fertilizer. The fully electric management, with ISOBUS communication protocol, allows you to manage and control all the seeding parameters directly from the tractor cab.



## TWO PRODUCTS IN ONE STEP

The SC version (seed and fertilizer) allows both mixed products to be distributed simultaneously within the seeding furrow.

The localization of the fertilizer is very efficient: in particular, the phosphorus is immediately intercepted and absorbed by the root system.

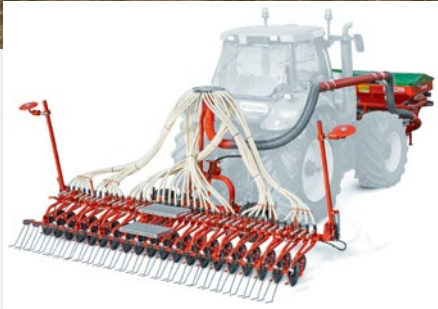
## THE SEEDING SHUTTER

The shutter allows you to exclude sowing from the bar wings in order to carry out the last step without any overlapping. Thanks to the fully electric management, the quantity to be distributed per hectare is not compromised. This device can be operated from the terminal in the cabin.



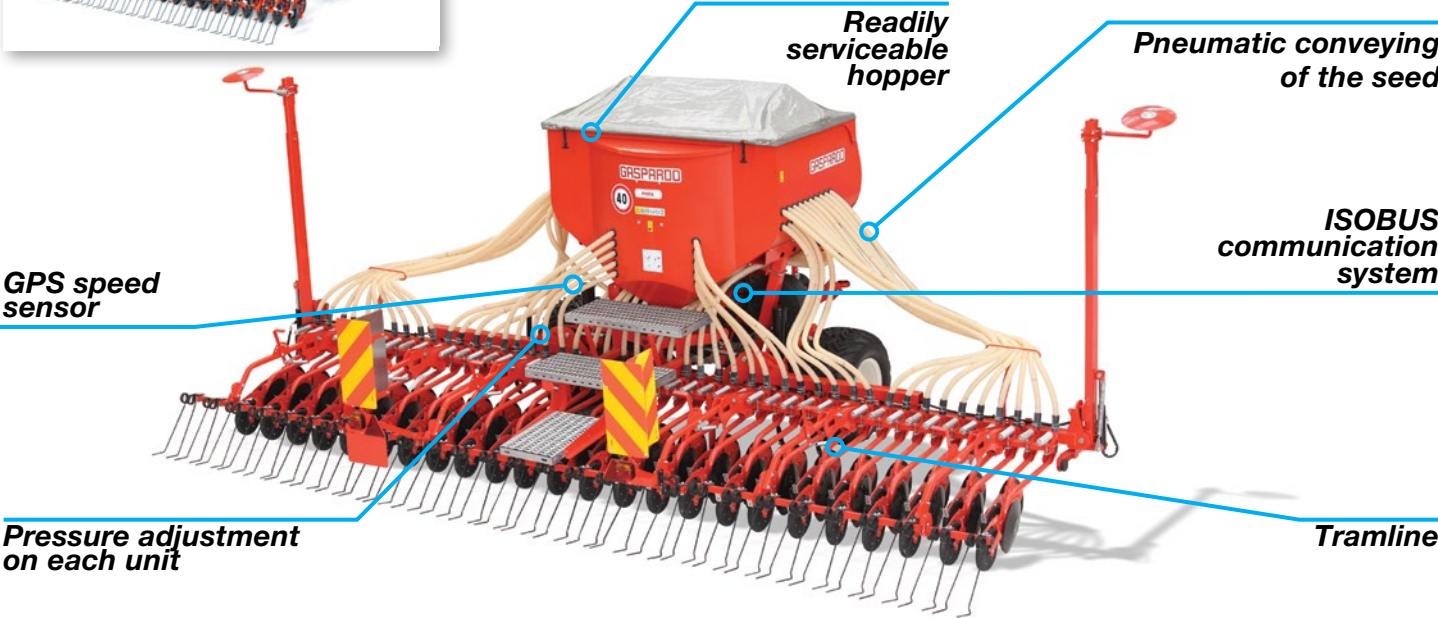


## PINTA SC ISOTRONIC 600



### SEEDING BAR AND FRONT HOPPER

Combinations with the sowing bar are available in a configuration mounted with a three-point hitch, and on a harrow. The electrically operated PA1 front hopper offers 1,100 litres of capacity with excellent weight distribution without compromising forward visibility.



	PINTA XL ISOTRONIC		PINTA SC ISOTRONIC		PA1 MOUNTED CEREAL BAR		
Model	500	600	500	600	400	500	600
Working width (cm)	500	600	500	600	400	500	600
Transport width (cm)	250	250	250	250	250	250	250
Seed hopper capacity (l)	1500	1500	1000	1000	1100	1100	1100
Hopper capacity S-C (l)	---	---	500	500	---	---	---
Seeding elements (no.)	32-36-40	40-48	32-36-40	40-48	29-32	36-40	40-48
Row spacing (cm)	15.6-14-12.5	15-12.5	15.6-14-12.5	15-12.5	14-12.5	14-12.5	15-12.5
Weight (kg)*	1640	1800	1745	1840	960	1040	1420
Wheels	31x15.5-15	31x15.5-15	31x15.5-15	31x15.5-16	26x12.00-12	26x12.00-12	31x15.5-15

\*weight with SIMPLE DISC with PAD, maximum row spacing

# PRIMAVERA PRIMAVERA ISOTRONIC

140 to 220 HP - pneumatic seed drills for cereals



## **ROBUST AND PRECISE**

PRIMAVERA ISOTRONIC is the robust pneumatic seed drill with folding wings, designed to sow on prepared or minimally tilled soil. The metering unit, precise and performing with any type of seed, is electrically operated while the distribution is pneumatic. A sturdy frame with high ground clearance, the arrangement of the sowing units with double disc or tine on four rows offer satisfactory product flow even in the presence of stones and abundant crop residue. The good seeding speed and the capacity of the 1,500 litre hopper guarantee high productivity. PRIMAVERA ISOTRONIC with ISOBUS communication protocol is available in two versions, with a working width of 5 and 6 meters.



## **DEPTH ADJUSTMENT**

Depth adjustment is easily managed through a parallelogram system. In fact, it is possible to act in a simple and precise way on two mechanical jacks of the central section and on the pin system of the wing wheels.

## **OSCILLATING BAR**

To follow the unevenness of the ground, the bar is equipped with a floating system on the coulter holder frame. In this way it is possible to sow on uneven or hilly terrain without compromising the sowing quality and precision. A nitrogen accumulator is also available to keep the position of the side wings constant.



## PA2 SF + PRIMAVERA SEEDING BAR



### SEEDING BAR ON FOUR ROWS

To operate on poorly tilled soil, rich in crop residues or stones, the sowing units are arranged on four rows in order to avoid any type of clogging or breakage. Thanks to the sturdy frame, good seeding speeds are guaranteed even on uneven ground.

Two types of seed-covering harrows are available, with straight or curved teeth.

### PA2 SF + PRIMAVERA SEEDING BAR

For a simpler and more balanced configuration, it is possible to combine the PRIMAVERA seeding bar only (version with STRAIGHT TIP coulter) with the PA2 SF front hopper.

The latter allows for the simultaneous distribution of seed and fertilizer within the seeding furrow.



	PRIMAVERA		PRIMAVERA ISOTRONIC	
Model	500	600	500	600
Working width (cm)	500	600	500	600
Transport width (cm)	300	300	300	300
Rows (No.)	40	40	40	40
Row spacing (cm)	12.5	15	12.5	15-12.5
Hopper capacity (l)	1500	1500	1500	1500
Weight (kg)*	2180	2280	2220	2360
Wheels	13.0/55 - 16	13.0/55 - 16	13.0/55 - 16	13.0/55 - 16

\*weight with DOUBLE DISC

# Electric drive **ISOTRONIC**

## Electrically driven planters

**ISOTRONIC** is the revolutionary MASCHIO GASPARDO electric drive system with ISOBUS communication protocol.

An innovative solution that constructively simplifies the mechanics of seed drills. The tractor terminal becomes the control centre of the seed drill as there are no longer gearboxes and belts. This results in ease and speed of calibration together with significantly reduced set-up times.



### Technology that meets farmers' needs

- Fewer mechanical components requiring maintenance
- Seeding density managed from the tractor terminal
- Control and variation of the seeding functions in real time
- ISOBUS communication between seed drill and tractor
- Management via the GENIUS MASTER system
- Precision Farming: variable metering and seeding closure (with GPS)
- Remote interconnection with MG-Live (Agriculture 4.0)

## Solutions for non-ISOBUS tractors

MASCHIO GASPARDO supplies a compatibility kit, which consists of the ISOBUS terminal and cabling to enable communication between **ISOTRONIC** and non-ISOBUS tractors.



### TERA 7

- Seed spacing control
- Seeding alarms
- Manual section shut-off
- Seeding parameter display



### TOUCH 800

- TERA 7 functions
- Prescription map import
- Georeferenced seeding data export
- Automatic section shut-off
- Variable seeding rate



## GENIUS MASTER

GENIUS MASTER makes communicating with **ISOTRONIC** extremely simple through the tractor's ISOBUS terminal: a single connecting cable is used to link the seed drill/tractor to monitor and control all planting functions.



Universal connecting cable



Compatibility with MASCHIO GASPARDO ISOBUS equipment



Universal language compatible with the main tractor brands

# Precision Farming

## **ISOTRONIC**, technology at the cutting edge of Precision Farming

The GENIUS MASTER system fully harnesses Precision Farming-related ISOBUS functionality. In this sense, the terminal takes prescription maps and translates the information they give on the conformation and variable fertility of soils, relaying relevant automatic commands to **ISOTRONIC**.



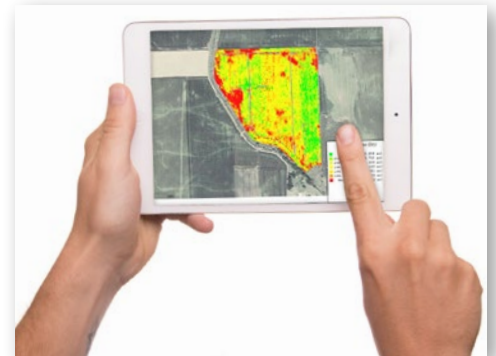
### **Universal Terminal**

Functionality enabling each ISOBUS terminal to communicate with the GENIUS MASTER system. A single terminal in the tractor cab is all that is needed to control the seed drill **ISOTRONIC**.



### **Export work data**

It allows you to import and read prescription maps as well as export to a PC the log of georeferenced planting data calculated with ISOTRONIC. **ISOTRONIC**



### **Variable seeding rate**

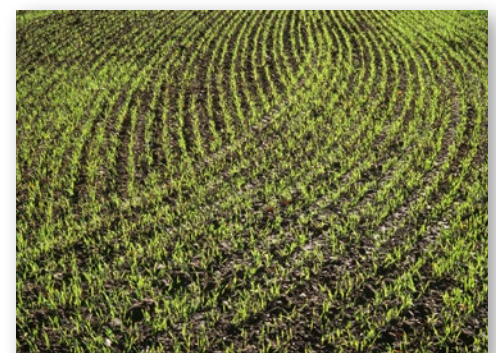
It programs variable seed density based on the different production potential of farmlands that often vary widely, making for more efficient use of your farming resources.



### **Automatic section control**

It allows switching on and off seeding sections automatically thanks to mapping of the field boundaries and recording of areas that have already been tilled.

This way there is no overlap of seeding areas, with considerable cost savings and more efficient management.



# GASPARDO

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