M.T

NON-TILL TRIPLE DISCS
SEED DRILLS

SOLA

THE WELL DONE SOWING
WWW.SOLAGRUPO.COM


SOLA

Precision, efficiency and versatility

Our innovative triple-disc seed drill for no-till farming combines state-of-the-art technology with a robust design to maximise productivity across all soil types. Equipped with double opening discs and a front turbo disc, this system guarantees precise, efficient, and environmentally friendly sowing. Key advantages include:

1. Optimal soil preparation

The front turbo disc cuts through and clears crop residues with ease, minimising compaction and facilitating smooth penetration of the opening discs. It is particularly effective in fields with high stubble levels.

2. Accurate and uniform sowing

The double opening discs create a clean, well-defined furrow, ensuring consistent sowing depth and excellent seed-to-soil contact. This promotes uniform germination and vigorous crop development.

Double disc opening discs, compact design with less soil disturbance

Our unique 16" and 15" double-disc furrow opener features an exceptionally narrow 8° angle between the discs.

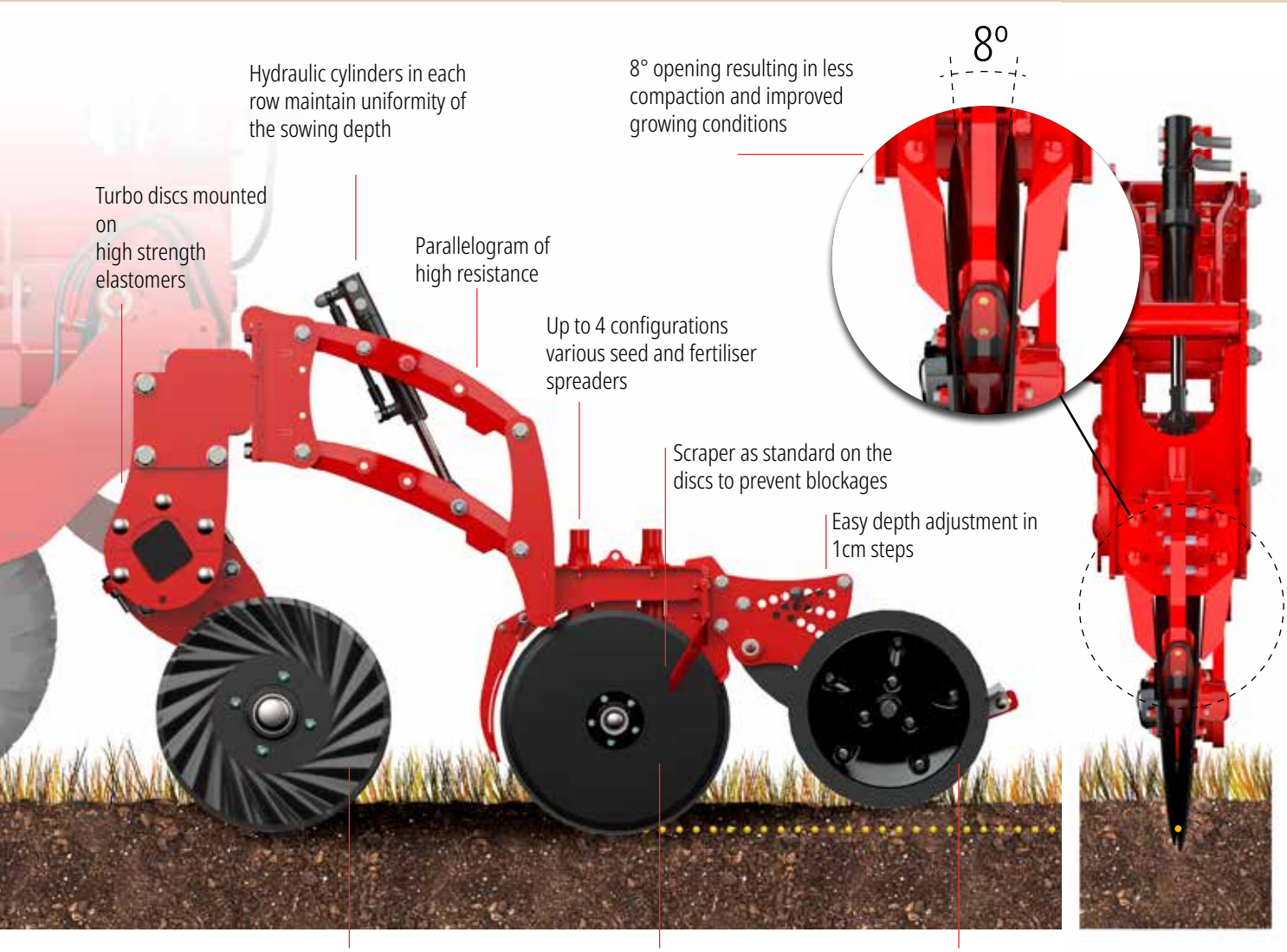
This low penetration angle reduces the row unit's power, fuel, and downforce requirements, minimises sidewall compaction, and contributes to superior seedbed formation.

The 16" disc acts as the primary opener, while the slightly smaller 15" disc complements and reinforces the furrow creation, ensuring a more consistent and efficient opening.

The difference in disc size facilitates easier soil penetration, reducing friction and resistance during sowing and thereby improving overall operational efficiency.

Extensive field testing across a wide range of soil types, climates, and tillage conditions confirms that this design encourages more uniform seed germination, translating into consistently higher yields year after year.

In combination with hydraulic pressure control, the precise opening angle guarantees consistent sowing depth and creates the ideal environment for optimal seed development and crop performance.



NT aura

3m
5m
6m
7m

NT Vesta
Vesta P

5m
6m
7m

Configuration with maximum versatility

At Solà, we understand that farmers need highly versatile solutions—where neither the working width nor tractor power should limit the choice of implement. That's why we've developed a modular NT solution that can be configured in two different versions, each adaptable to a wide range of operating scenarios and available power levels.

Configuration 1: Front hopper + rear-mounted NT unit

Designed for medium to high-power tractors, this setup features the AURA pressurised front hopper, responsible for seed metering and transport to the NT seeding unit mounted on the rear linkage.

This arrangement makes it possible to form a suspended assembly of 3 or 5m, with a contained mass and outstanding manoeuvrability, and reduced overall length. It's ideal for farms that demand precision and agility, especially with mid-power tractors or larger working widths (6–7 metres or more) while keeping the total length of the tractor-seed drill combination contained.

Configuration 2: Trailed VESTA system

The second option consists of 7000L VESTA or VESTA-P trailed hopper which carries the NT seeding unit. This setup is tailored for large-scale operations where high autonomy and continuous working capacity are essential.

Despite its large seed capacity, the system maintains moderate power requirements, making it more energy-efficient than many other no-till solutions on the market—optimising performance without compromising tractor efficiency.


SOLA
Vesta
SOLA

Front turbo discs

The 16” front turbo disc, mounted on elastomer suspensions, is a key component in no-till seed drills.

Specifically designed to optimise performance in high-residue soils and challenging field conditions, it ensures effective residue management and consistent furrow opening.

Its elastomer-mounted system provides excellent flexibility, shock absorption, and durability, contributing to higher operational efficiency and reduced maintenance needs.

Main functions

1. Efficient residue cutting

The turbo disc cuts and shreds crop residues (stubble) on the soil surface, preventing them from interfering with furrow opening and ensuring accurate seed placement.

2. Initial soil opening

It pre-opens the soil ahead of the opener discs, improving furrow formation and enabling more uniform seed placement.

This function also reduces the wear on the opener discs, helping to lower maintenance costs and minimise machine downtime.

3. Residue flow management

The system channels plant debris in a controlled manner, preventing buildup that could clog the equipment and ensuring uninterrupted and efficient operation.

4. Shock absorption

Mounted on elastomer elements, the disc adapts to uneven terrain and absorbs impacts from stones or other obstacles, reducing component wear and protecting the machine’s structural integrity.

Row Unit Parallelogram

The high-strength cast steel parallelogram is a core element of our seeding technology, engineered to deliver maximum stability, precision, and durability in the most demanding field conditions.

Its advanced design eliminates the need for constant lubrication, thanks to an innovative sealing system combined with state-of-the-art anti-wear materials.

This results in reduced maintenance, extended service life, and consistently high performance season after season.

Hydraulic Downforce System: Precision and Power Control

The use of hydraulic pressure on the row unit is a cutting-edge technological solution that ensures outstanding performance across all soil conditions.

This system applies a controlled and consistent downforce to each sowing unit, enhancing sowing precision and field adaptability.

Hydraulic pressure is an essential feature for farmers seeking maximum precision, efficiency, and versatility, even in the most challenging terrain.

By ensuring that each seed is placed under optimal conditions for germination and early development, this system contributes to uniform crop emergence and maximised yield potential per hectare.

Main functions

1 - Precise and dynamic adjustment

Hydraulic pressure enables precise regulation of the downforce applied to each row unit, adapting seamlessly to varying soil types—from soft to compacted—ensuring a uniform and consistent sowing depth.

2 - Enhanced Seed-to-Soil Contact

By applying the exact pressure needed, hydraulics ensure that seeds are placed at the ideal depth, optimising contact with the soil. This improves moisture and nutrient uptake, resulting in faster and more uniform germination.

3 - Superior Terrain Adaptability

Each row unit responds independently to ground irregularities, maintaining precision and stability even on stony or uneven terrain. This ensures consistent seeding performance across the entire field.

4 - Reduced soil compaction

Unlike mechanical systems, hydraulic pressure distributes force evenly, minimising soil disturbance and reducing compaction, which is crucial for healthy root development and long-term soil structure.

5 - Improved Operational Efficiency

Hydraulic systems allow for higher working speeds without compromising sowing quality, thereby increasing productivity and reducing operating time in the field.

6 - Durability and reliability

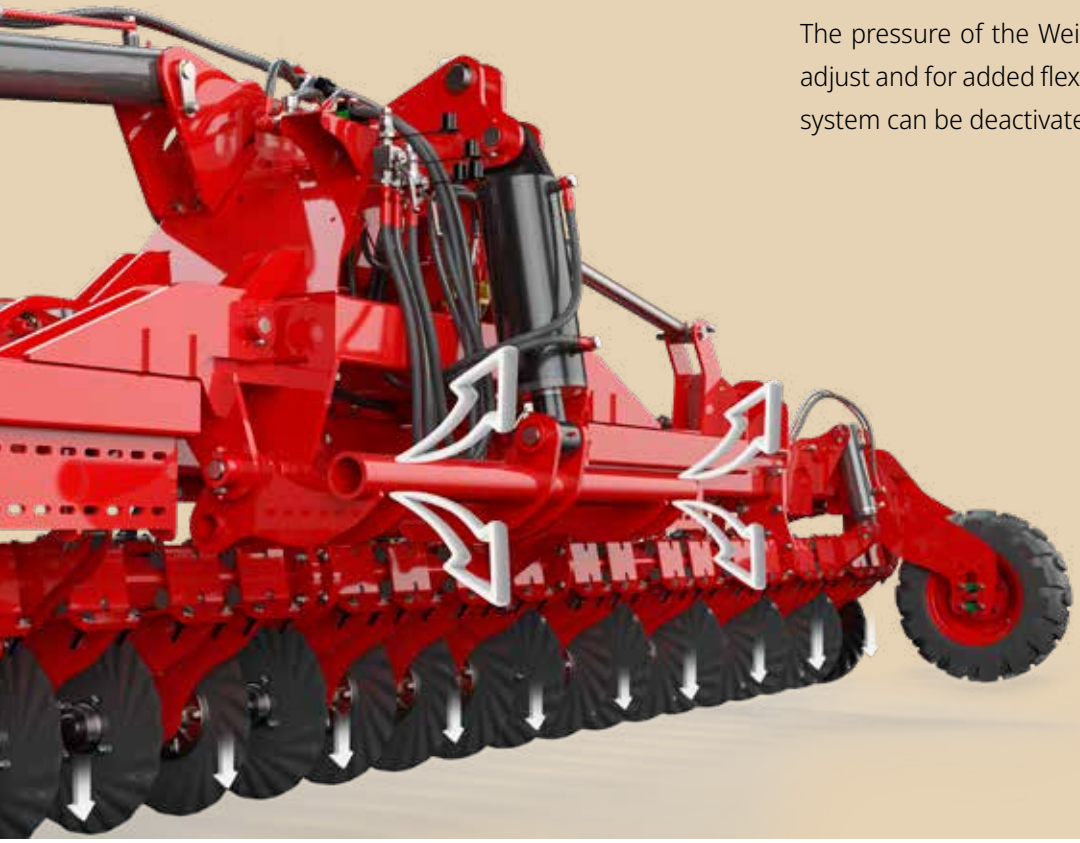
Designed to endure intensive use and harsh working conditions, hydraulic components offer long-lasting performance with minimal maintenance, ensuring reliability season after season.

Weight transfer

SOLA's Weight Transfer system is specifically designed for seed drills with a 3-point linkage, ensuring consistent sowing depth regardless of speed or soil conditions—without the need for additional counterweights.

When activated, a hydraulic cylinder transfers weight from the tractor to the seed drill frame, allowing the required downforce to be maintained at all times. This ensures optimal seed placement without increasing soil compaction or power consumption.

The pressure of the Weight Transfer system is easy to adjust and for added flexibility and operator control, the system can be deactivated when not needed.



Internal and external scrapers of the sowing discs

The internal and external scrapers are essential components designed to ensure optimal performance by preventing the build-up of soil, mud, or crop residues on the sowing discs.

Thanks to their advanced design, made with high-strength materials and equipped with adjustment systems, they guarantee precise and efficient sowing in all soil conditions.

These scrapers help prevent blockages caused by material adherence, protecting the discs and ensuring consistent operation throughout the working day.

Depht control wheels

The 350x50 mm trapezoidal rear wheel in semi-pneumatic rubber is a key component in the sowing process, offering multiple functional advantages. It performs two essential tasks:

Furrow filling, by gently closing the seed slot to ensure proper soil coverage.

Sowing depth control, maintaining consistent seed placement across varying terrain conditions.

Thanks to its semi-pneumatic rubber construction and trapezoidal profile, it delivers excellent ground adaptation, durability, and stability, even in uneven or compacted soils.

In summary, this rear wheel is crucial for achieving accurate, efficient, and long-lasting sowing, contributing to higher yields and reduced operator effort.

Main functions

1 - Efficient furrow dosing

The trapezoidal profile enables effective closure of the furrow, ensuring that the seed is well-covered and protected. This enhances germination by maintaining seed-to-soil contact and preventing moisture loss.

2 - Precise Sowing Depth Control

Thanks to its semi-pneumatic construction—rubber combined with an internal air chamber—the wheel adapts dynamically to uneven terrain, maintaining a consistent sowing depth and ensuring uniform seed placement. It also sheds mud effectively in wet or sticky soil conditions.

3 - Increased traction and stability

The 350×50 mm format offers excellent grip, allowing the sowing unit to maintain stability and precision even in compacted or moist soils, where traction is more demanding.

4 - Reduced soil compaction

Its semi-pneumatic structure allows the wheel to distribute pressure evenly, minimising soil compaction. This promotes better root development, improved soil aeration, and overall healthier crop establishment.

5 - Durability and low maintenance

Made from highly wear-resistant rubber, the wheel ensures long service life with minimal maintenance, especially compared to metal alternatives—leading to lower operating costs over time.

6 - Operational efficiency

By simultaneously performing both furrow closing and depth control, the wheel streamlines the sowing process, increasing field productivity.

Its rear-mounted position also enhances residue flow between row units, making it ideal for working in heavy mulch or high-residue environments.

Product application tubes: Maximum Flexibility for Seed and Fertiliser Application

Installation of two application tubes—one for seed and one for fertiliser—provides a versatile and efficient solution, adaptable to the specific requirements of each crop and field condition.

This design offers two application modes for greater agronomic flexibility and yield optimisation:

Single Shot: Seed and fertiliser are delivered together at the same point, making it ideal for low-fertility soils or crops that benefit from a quick, uniform start.

Double Shot: Seed and fertiliser are applied through separate outlets, depositing each product independently. This reduces the risk of direct contact, protecting the seed and supporting safer, more efficient nutrient uptake.

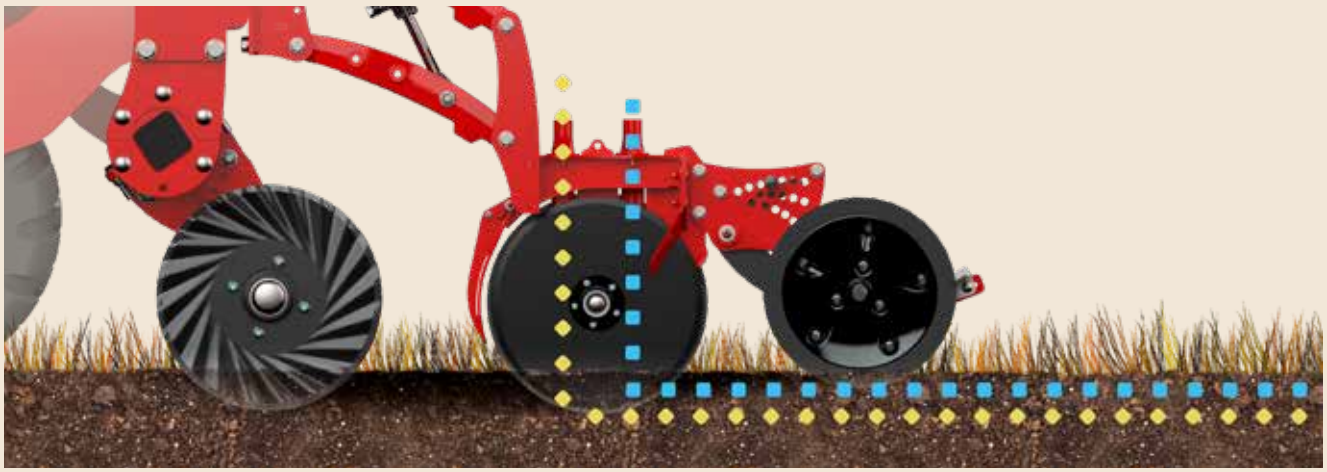
This system allows the operator to tailor application strategies, ensuring maximum efficiency, crop safety, and performance.

Sowing configurations Maximum versatility

The NT seed drill offers up to six different application configurations, allowing full adaptation to a wide range of agronomic strategies and ensuring optimal crop establishment.

Its total flexibility enables the integration of features such as half-width shut-off, which prevents overlapping and improves sowing efficiency—especially in irregularly shaped plots or when using GPS-guided systems.

This level of versatility allows the NT seed drill to adapt to various field conditions and management practices, helping farmers to maximise the productive potential of every hectare with precision and efficiency.



1 Sowing of a single type of seed (Single Shot): allows simple seeding or application through tube 1 or 2 according to the user's preference, ensuring uniform distribution.

2 Sowing seed and fertiliser mixed in row (Single Shot): an efficient solution that improves nutrient availability in the furrow from the start, optimising crop development.

3 Sowing two mixed seed types in a row (Single Shot): ideal for complementary crops, favouring biodiversity and the use of resources.

4 Sowing of seed and fertiliser in independent rows (Double Shot): this allows the fertiliser location to be adjusted with respect to the seed, reducing the risk of phytotoxicity and improving absorption efficiency.

5 Sowing two types of seed in the same furrow with independent drops (Double Shot): an optimal strategy for companion planting, ensuring precise distribution of both seeds.

6 Sowing two types of seed in alternating furrows: favours crop diversification, improving soil structure and reducing competition between species.

WITH AURA FRONT HOPPER - THREE POINT HITCHED

	aura				
Hopper capacity (L)	2000				
Width (mm)	2300				
Length (mm)	1690				
Height (mm)	1725				
Weight (Kg)	450				
Weight with counterweights (Kg)	900				
Weight with counterweights and with wheels (Kg)	1110				
Speed source	7 pin connector.				
Controller / Monitor	Optional: Isobus or Non-Isobus				
Hopper pressurized controller	Standard analogue pressure gauge				
Tractor requirements	Hydraulic front linkage. Front hydraulic outlet (1 SE + Free return). Front electrical socket DIN / ISO: 1724.				
					
Coupling category	Cat. III				
Type of furrow opener	Triple NT discs				
Working width (m)	3		5	6	7
Number of rows	2		2	2	2
Transport width (m)	3		3	3	3
Number of openers	12	15	20	24	28
Row spacing (cm)	25	20	25	25	25
Seed coverage and depth controller	trapezoidal swivelling wheel				
Row unit pressure	Hydraulic cylinders in each row, up to 265 kg of pressure				
Number of support wheels	2 wheels				4 wheels
Wheel sizes	18x7-8		23x8,5		
Weight of sowing equipment (Kg)	2470	2600	3250	3800	4350
Metering unit heads	Choice of 1 or 2 distribution heads				
Weight transfer from tractor	Optional		Standard		

WITH VESTA AND VESTA-P TROLLEYS - TRAILED

	Vesta		Vesta P
Seed hopper capacity (L)	7000		
Seed and fertiliser hopper capacity (L)	4380/2620		
Refill opening (cm)	196X252		2 openings of 670x2500
Doser type	With interchangeable modular rollers		
Drive of the doser	ISOBUS Electric		
Speed take-off	7 pins - Other options available		
Turbine drives	Hydraulic		
Controller / Monitor	From ISOBUS monitor		
Total sowing cut-off	Standard		
Half-width shut-off	Only available on machines with 2 metering units. Automatic when combined with GPS antenna		
3-point hitch on the hopper	Top link with mechanical adjustment or hydraulic cylinder		
	V.T		
Coupling category	Cat. III		
Type of furrow opener	Triple NT discs		
Working width (m)	5	6	7
Number of rows	2		
Transport width (m)	3		
Number of openers	20	24	28
Row spacing (cm)	25		
Seed coverage and depth controller	Trapezoidal swivelling wheel		
Row unit pressure	Hydraulic cylinders in each row, up to 265 kg of pressure		
Number of support wheels	2 wheels		4 wheels
Wheel sizes	23X8.50		
Weight hopper + sowing equipment Vesta / Vesta P	8090 / 8220	8610 / 8740	9130 / 9260
Approval for road transport	Consult approvals available by market		

Agricultural Machinery Solà, S.L.
Ctra de Igualada, s.n.
08280 CALAF (Barcelona)
Tel.: +34 93 8680060
E-mail: sola@solagrupo.com
WWW.SOLAGRUPO.COM

CERTIFIED ISO 9001

CN-822015/GB