

# Gaining ground: the perfect soilution



**Novag**



Next Generation  
Farming

# Less gets more

It has always been like this: For success showing at the surface you have to go deeply to the bottom. Even more in agronomy. The key for outstanding yields is right under your feet: healthy soils.

Novag no tillage and zero soil disturbance lead to healthy soils. Bacteria and fungi can thrive. They form a symbiosis with the roots of the crops. Water and soil nutrients support and protect your plants. This is how they become more effective, stronger and resistant.

All you need is Novag – and the power of nature. It's as easy as this: With Novag direct drills you're able to activate the soils microbiology. **The worms start working for you.** The results are simply astonishing.

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**Less machinery**

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**less fuel consumption**

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**less fertilizer**

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**less working hours**

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**less erosion**

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**but greater crop yields!**

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**Let's get down to  
the point. Healthy  
soils are the key  
for healthy profits.**



## Next generation farming

In 2011, we began to turn our ideas about modern, sustainable agriculture into reality in the départements of Charente-Maritime and Deux-Sèvres in south-west France. It therefore comes as no surprise that Novag is unparalleled in Europe when it comes to direct drills.

Our company founders *Ramzi Frikha, Lotfi Frikha and Antoine Bertin* have strong connections with agriculture. They are also united in their shared pursuit of improvement in all areas, be it innovative technologies or the development of environmental, economical and

social excellence. The result is machinery which is unique in terms of quality, reliability and value retention, and which pays off in the long term – both for the people that operate it and for the environment around it.

**When can we persuade you of the benefits? Let's get in touch.**

→ Novag takes farmers into the future: modern no-tillage seed drills ensure greater yields coupled with reduced costs and less soil damage.

## Direct drilling – direct yields

With Novag no-tillage seed drills, you sow the seeds directly below the stubble of the previous crop without first having to till the soil and with only minimal soil mixing. This makes sense for many reasons and is in fact highly advisable for a lot of soils.

Drying out of the soil is limited because it is left untilled and because crop residues remain on the soil surface. Erosion is likewise reduced, and this has a positive impact on the level of nutrients in the soil.

What's more, the absence of tilling and the lower fertiliser needs reduce the time spent on a crop and therefore considerably cut costs per hectare. The result is a significantly more sustainable way of operating that benefits everyone: the agricultural business, people and the environment.

→ Save a lot of time and money: Novag no-tillage seed drills cut your costs thanks to reduced machining time and lower fertiliser needs.



## It's T-time

No-tillage drilling isn't something invented by Novag - it's a method which has been experimented with for decades and which unequivocally makes sense.

But what's new is the way in which Novag no-tillage seed drills work the soil both gently and in a way that delivers high yields. While with conventional seeders the residues of the previous year's crop have a negative impact on seed germination, Novag draws on the more effective T-SlotPlus method.

Rather than a vertical slot being created in the soil, Novag drills create an upside-down "T" shape in the soil. Seeds and fertilizer are placed in the two side bars - separate from one another by the central disc.

→ Direct drilling is good. Direct drilling with Novag is better. The innovative technology delivers impressive results.



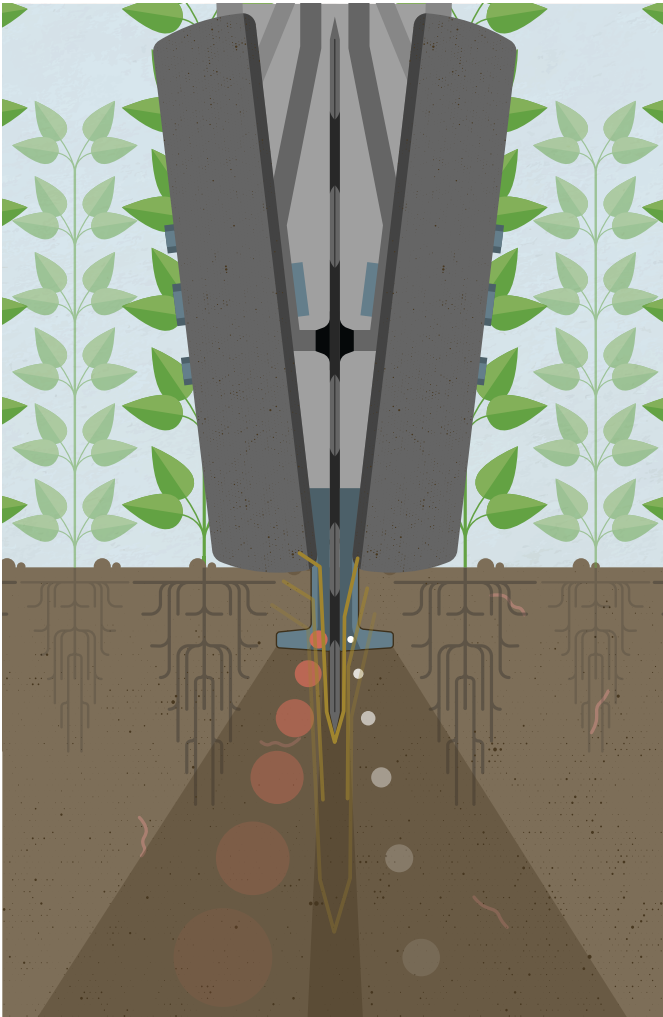
## No-tillage? No problem!

With the unique **T-SlotPlus** you have the raw power and intelligence to take no-tillage to the next level, improving productivity while optimizing seed placement and securing your yields. Instead of a “V” or “U” shape Novag machines cut an inverted “T” into the soil.

The **T shape** enables separate location for the seeds and the fertilizer. Seed and fertilizer are close to each other, but still sufficiently separated. This is the ideal scenario for fertilizer application, which will solve the early stage nitrogen deficiency related to the decomposition of cover crops and to improve early growth of pest sensitive crops. A yield reduction during the first years like with other no-tillage systems is reliably avoided.

→ The Novag opener with hydraulic downforce regulation, cutting disc and T-SlotPlus.





On residue covered fields, other no-till technologies with discs have **hairpinning problems**. Straw tends to catch the seed in a net, and thus it will not have a good enough contact with the soil. In addition, the decomposition of the straw will then release substances that will decrease germination.

→ Instead of a “V” or “U” shape Novag machines cut an inverted “T” into the soil.

The seed placement with Novag machines is not affected by heavy residues at all. The straw still enters the furrow, but is not in contact with the seed thanks to the shape of the **T-SlotPlus**. Because the seed is dropped by the blade and does not fall directly into the disc furrow.

## Smart farming

The technology of the Novag T-ForcePlus models is unparalleled in Europe. The hydraulically regulated downforce and the hydraulically driven metering units allow large and precise rates of seeds and fertilizer to be dosed without having to reduce speed.

To offer a unique user experience, Novag has developed its entire software internally. All models feature the IntelliForcePlus depth control system as standard. This allows the drill to automatically handle changes in the soil type.

The 7" monitor provides a refreshing user experience, combining our exclusive IntelliForce depth control system, up to 4 product delivery and seed rate monitoring all in one place. Almost all the settings can be changed from the cab.

→ IntelliForcePlus Control adjusts the hydraulic pressure in the downforce cylinders on every opener.



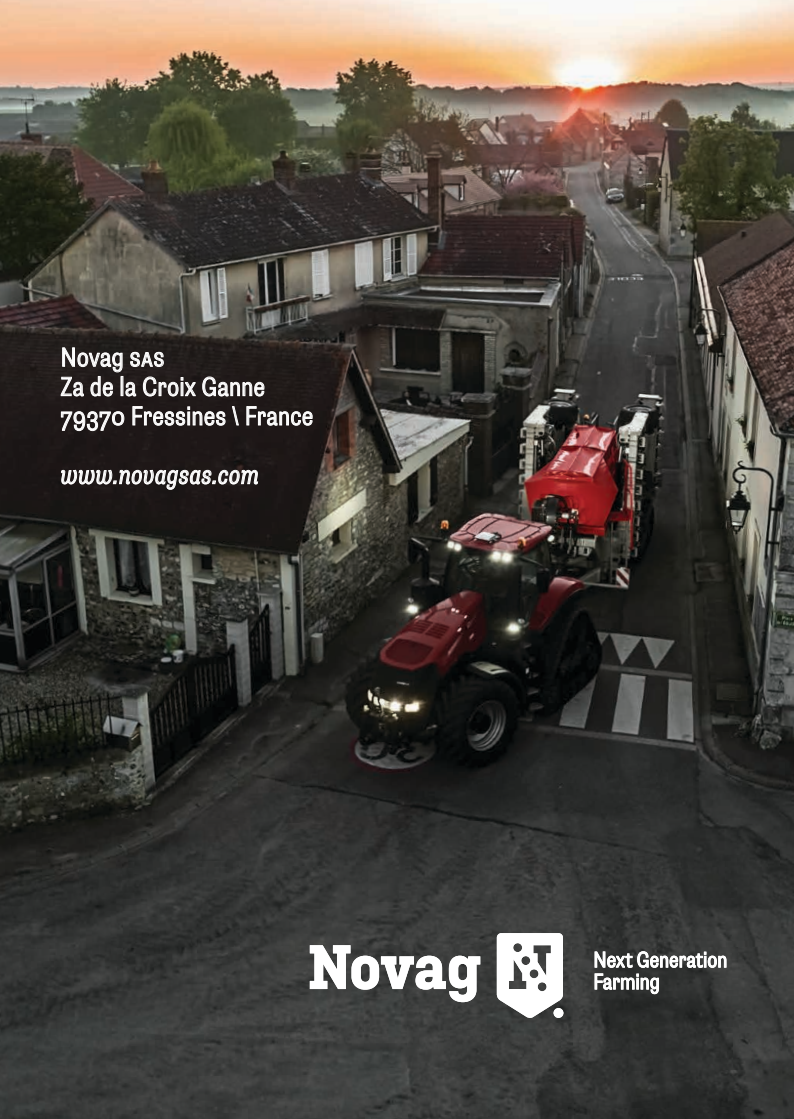
## Individual performance classes

One of the key advantages of Novag direct drills is the significant time saving – a bonus in terms of productivity or if changeable weather means there is only a short window for drilling. The drills come in an array of working widths for different uses: 3 m, 4 m, 6 m, 8 m or higher upon request.



T-Force	340	440	640	840	940
Working width	3 m 2.85 m	4 m	6 m	8 m	9 m
Transport width	3 m	3 m	3 m	3 m	3 m
Downforce	Hydraulic cylinder on each opener from 100 to 500 kg				
Road weight	11 t	11 t	11 t	20 t	20 t
Row spacing	17.5 19 cm	17.5 19 cm	19.3 25 cm	as required	as required
No. of rows	17 \ 15	21 \ 23	24 \ 31	up to 47	up to 47

→ The table features just a sample of our models. For more information, go to [www.novagsas.com](http://www.novagsas.com).

An aerial photograph of a narrow village street at sunset. A red tractor is in the foreground, and a red truck is further down the street. The street is lined with traditional European houses. The sun is low on the horizon, creating a warm orange glow.

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