



 **Kariotakis**

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G7CUT-300

SUBSOILERS



Rugged construction, Reliable with Quality Excellence

Subsoilers are designed for deep tillage and loosening of the soil to a depth of up to 55cm. This cultivation method achieves an ideal loosening of the soil structure to ensure optimal penetration of water, air and nutrients into the soil.

In many cases, cultivating the soil with subsoilers can completely replace conventional plowing, because with subsoilers you have less traction requirements, lower fuel consumption and higher machine efficiency.



For maximum deep loosening effect, it is recommended to supplement this operation with fertilization, which promotes the development of the root system and increases the efficiency of nutrients.

Kariotakis subsoilers provide deep soil cultivation, thanks to the design of the frame, the ideal placement of the tine arms, their reliable protection system and, above all, the robust construction of the main frame and the tine arms made of high-strength steel, thus allowing for intensive loosening of the soil profile,

the breakdown of compacted layers and the effective incorporation of plant residues in a single operation.

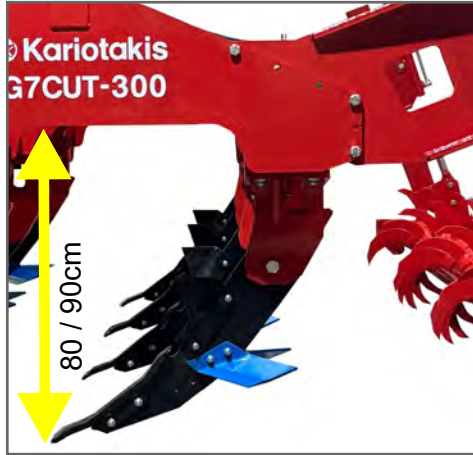
Kariotakis subsoilers are available in 3 different categories suitable for tractors from 110-390Hp with a working width of 2.50 - 5.00m. You can choose depending on the type of soil and working conditions the protection system if you want it to be mechanical (with safety bolt) or NO-STOP (Hydraulic system with nitrogen) standard all models have Hydraulic working depth adjustment.





Main Frame & Traction

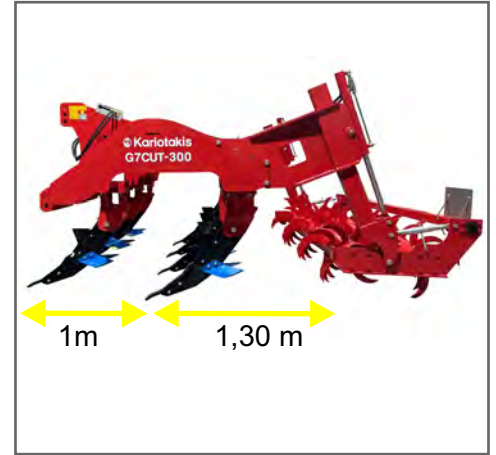
For maximum deep loosening results, the subsoilers have a reinforced Main Frame & Traction. The subsoilers are built to work in difficult working conditions and depending on the model, the main frame in the subsoilers is particularly reinforced.



Large under frame clearance

The great ground clearance of the Kariotakis subsoilers allows the machine to work continuously in difficult and demanding conditions for deep tillage without the possibility of getting stuck by crop residues.

Depending on the model:
 -In the **G series** and **N HYDRO** models, they have a ground clearance of 80cm.
 - In the **T series** and **N HYDRO** models, they have a ground clearance of 90cm.



Ideal distance

There is a **large distance of 1m** between the 2 rows of tines, and the distance of **1.30m** between the last row of tines and the rear rollers is equally large.

This ideal distance guarantees excellent performance of the machine even in the most demanding conditions as there is enough space for tillage and proper soil treatment between the treatment rows without the risk of blockage by any residues.



Hydraulic working depth adjustment up to 55cm

The working depth in all subsoilers is adjusted hydraulically and can reach 55cm.

Having the advantage of hydraulic adjustment of the working depth, the subsoils can easily be adapted to the specific working conditions and ensure a stable working course of the machine.



CUT Double roller

The double CUT roller is the last stage of subsoil processing. With one pass, the soil is loosened deeply and the soil surface is strongly leveled.

The large diameter at 550mm, the arrangement and density of the teeth and the ability to adjust the working angle mechanically help break up any soil residue.



Reinforced restraint system

The special shape and working angle of the tines provide easy penetration into the soil and excellent soil loosening and mixing results.

The tines are made of **HARDOX 30mm** and have the ideal distance between them depending on the model. While the particularly **reinforced 6-bolt** retaining system allows the tines to be moved to the desired position.



ADVANTAGES THAT LEAD TO SAVINGS AND GREATER RETURNS

– Quality deep plowing with one pass

A pass with the subsoiler means faster loosening of the soil deeper than the plowing point and simultaneous uprooting of plant residues.

– More water and air

With subsoiler and deep tillage, air and water enter the soil and the impermeable layers are broken down, allowing the root system to have a greater reach, the maximum working depth reaches up to 55cm, resulting plant roots have access to more moisture and air which is necessary for creating a better soil climate.

– Less tillage time

Using the subsoiler, you significantly reduce the time required compared to traditional plows. The subsoiler can prepare the soil in a way that minimizes the need for further soil preparation work. By using the subsoiler, the soil remains free of lumps and loose.



– Deeper plowing at low cost

Thanks to the geometry of the subsoil, it is easy to plow deeper into the soil with low fuel consumption costs.

– No intensive mixing

With subsoil and deep tillage the lower soil layers do not rise to the higher soil layers. Mixing takes place in the upper part of the soil layers.

– Leveling the soil surface

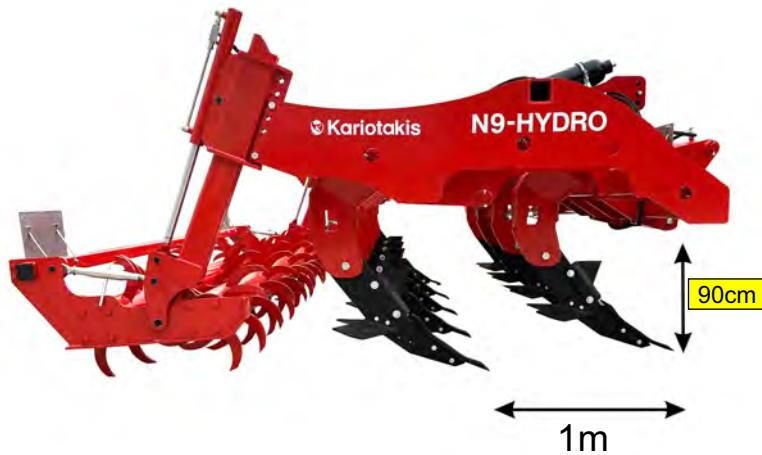
The use of subsoil helps in better leveling after previous field work or paths created by heavy machinery.

– Increased rainwater absorption

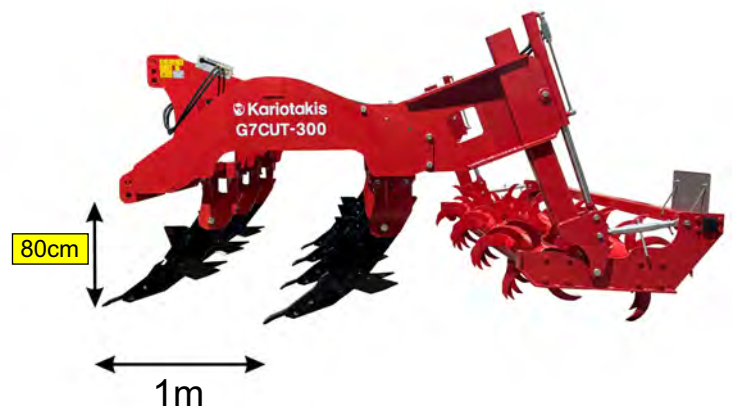
With subsoil and deep tillage and simultaneous leveling, puddles and long-term uneven areas are eliminated.



N-HYDRO & T series



G series



3 categories

Kariotakis subsoilers are available in 3 categories depending on the soil conditions and the tractor horsepower, you can choose the appropriate model.

All subsoilers allow a maximum working depth of 55cm.

The **G series** subsoilers have a free height (80cm). The high free height and the large distance between the counterweights and the rear rollers allow high performance in the machine and the ability to work in very demanding conditions with lower horsepower.

The **T series** subsoilers have a free height (90cm) and have an even greater free height compared to the G series, they are more robust in construction, suitable for tractors with greater horsepower.

The **T series** models are available in 2 versions, the **T CUT** model with 2 rows of rear CUT rollers and the **T MN** model with 2 rows of rear CUT rollers and 2 rows of wave discs for even better soil treatment and compaction.

The **N HYDRO** series has a free height (80 / 90cm) and the advantage of Hydraulic protection with the help of nitrogen, the NO-STOP system, where with the help of the rear rollers, uninterrupted work in extremely difficult working conditions due to drought or rocky soils becomes easier, safer and better!



Work Intensive and Effective

Intensive soil tillage where the top soil layer is intensively mixed with plant residues is achieved with the subsoiler.

These excellent results are achieved thanks to the teeth and the working angle of the subsoiler tines:

1) The first angle of the knives cuts / breaks up the substrate that is created in the soil after continuous use of the plough. The inclination of the first angle is such that it does not transfer the

lower soil layers (poor in nutrients) deeper where the seeds are sown so the soil remains free of lumps and loose.

2) The second working angle helps in intensive mixing, mixing the plant residues with the soil. This creates a homogeneous treatment.

3) The third working angle is the plowing and mixes the organic matter for its final incorporation.



T MN

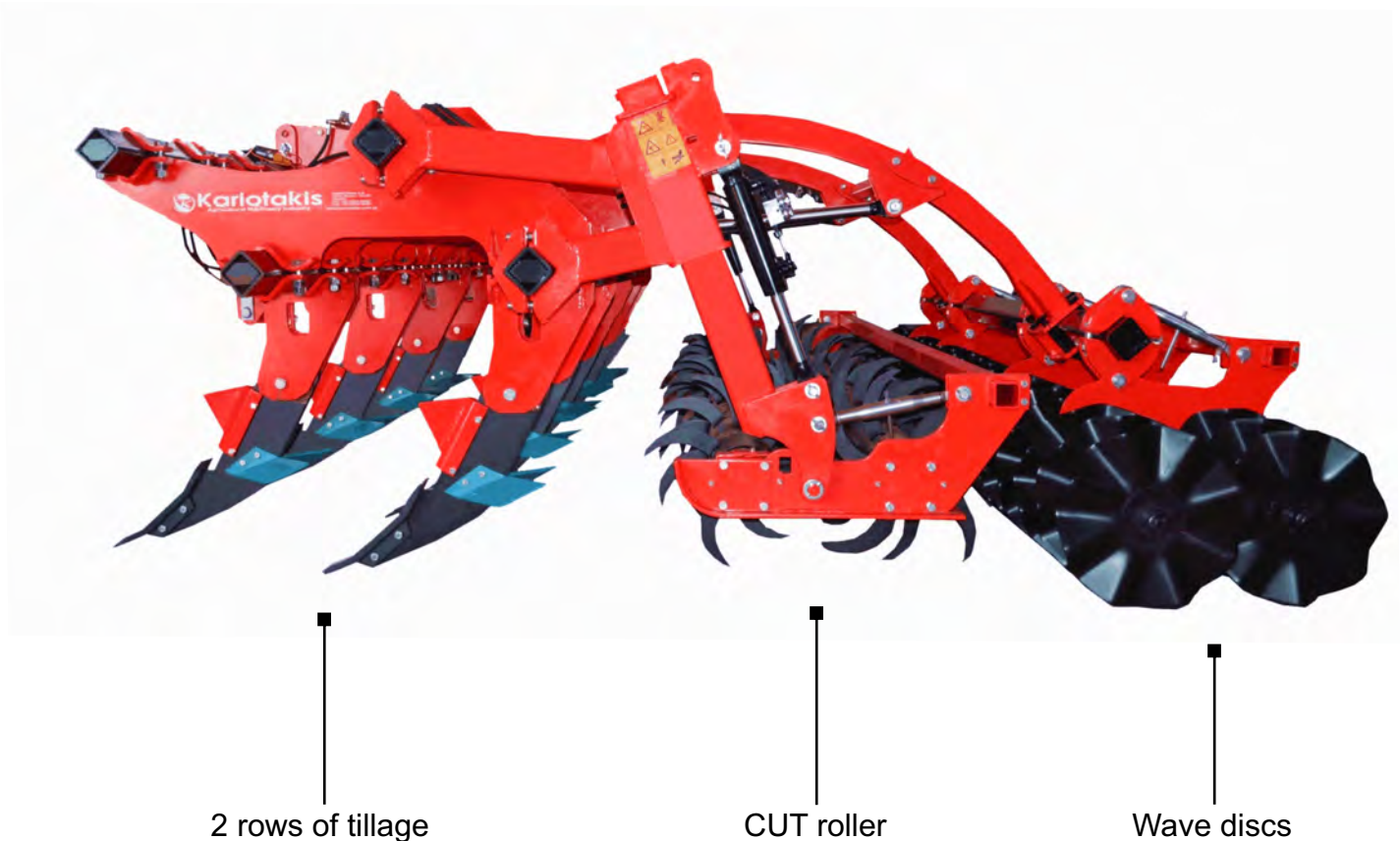
T MN

The T MN series subsoilers have an additional row of rear rollers with 2 rows of self-cleaning corrugated cutting discs.

The T MN series subsoilers are equipped with 2 rows of arms, with toothed CUT rollers and an additional row of corrugated cutting discs.

Thus, by using the subsoiler, the appropriate conditions for sowing can be created in a single pass. As the following operations are performed:

- The soil is cut into thin pellets using the T MN, creating the appropriate conditions for sowing.
- Plant residues are covered and mixed better with the soil, so that the soil remains with as little plant residues as possible.
- The soil is leveled using the machine, so that a perfectly flat field ready for sowing is created without furrows or other irregularities.



Wave discs

The final stage of subsoil processing of the T MN series consists of 2 rows of 520mm diameter corrugated discs.

These discs cut and cover plant residues and level the soil, preparing it for sowing. The cutting discs are placed next to each other and thus self-clean when working in wet conditions.

Hydraulic working depth adjustment

The working depth of the wave discs is adjusted hydraulically.

With the hydraulic working depth adjustment, you can also work without the wave discs, as you can lift them if you want to work without the wave discs, e.g. in conditions with a larger amount of plant residues.

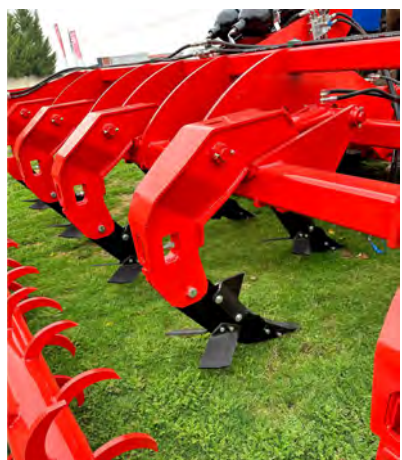


N-HYDRO



NO-STOP Hydraulic protection

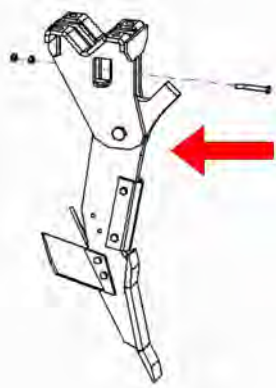
The NO-STOP automatic return hydraulic system is for difficult rocky and extremely compacted soils. Each arm can be raised separately up to 35cm, in case of hidden obstacles, thus preventing possible damage. The NO-STOP hydraulic protection system with the nitrogen accumulator ensures the operator uninterrupted work as you can adjust the pressure in the hydraulic protection system of the machine depending on the working conditions while at the same time there is a safety screw on each arm for extra protection.





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T & G series



Safety bolt


Mechanical Protection

The mechanical protection in the subsoilers is with a safety bolt. In all subsoilers there is a safety bolt, which when cuts for greater safety, the entire arm moves backwards without causing any problems to the machine.





G series

	G series		
	G5-CUT	G7-CUT	G9-CUT
Number of arms	5	7	9
Working width (m)	2.50 m	3.00 m	4.00 m
Under frame clearance (cm)	80cm	80cm	80cm
Tractor HP	110 - 150 HP	150 - 200 HP	180 - 220 HP
Working depth (cm)	55cm	55cm	55cm
Movable arms	√	√	√
Safety bolt	√	√	√
Double cut knives	√	√	√
Weight (Kgr)	1.600	1.940	2.450

T series

	T series						
	T5-CUT	T5-MN	T7-CUT	T7-MN	T9-CUT	T9-MN	T11-CUT
Number of arms	5		7		9		11
Working width (m)	2.50 m		3.00 m		4.00 m		5.00 m
Under frame clearance (cm)	90cm		90cm		90cm		90cm
Tractor HP	150 - 200 HP		190 - 250 HP		220 - 330 HP		250 - 390 HP
Working depth (cm)	55cm		55cm		55cm		55cm
Movable arms	√		√		√		√
Safety bolt	√		√		√		√
Double cut knives	√		√		√		√
Weight (Kgr)	1.850	2.200	2.230	3.050	2.850	3.600	3.300

NO-STOP



N-HYDRO



	N5-HYDRO	N7-HYDRO	N9-HYDRO
Number of arms	5	7	9
Working width (m)	2.50 m	3,00 m	3,00 m
Under frame clearance (cm)	80cm / 90cm	80cm / 90cm	80cm / 90cm
Tractor HP	150 - 250 HP	180 - 280 HP	250 - 350 HP
Working depth (cm)	55cm	55cm	55cm
NO-STOP system	√	√	√
Double cut knives	√	√	√
Weight (Kgr)	≥ 2.102	≥ 2.546	≥ 3.203



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