

# COMBIFLOW®



 **AGRISEM®**

# Agrisem Spirit

AGRISEM is a company born in France in the mid-90s, specializing in **the design, manufacture and sale of TCS tools for tillage, fertilization and sowing.**

Moreover, the STRIPCAT striptill and BOSS direct seed drills, developed in South-West of France by a farmer to meet his economic, agronomic and ecological needs, are now marketed by AGRISEM.

To maintain this spirit of customer-developed solutions, the company has set up a dedicated support team, ensuring that products evolve to meet the challenges of the sector.



The main innovations of AGRISEM revolve around the main objectives:

- **Surface work** to manage organic matter, soil fertility and seedbed preparation, we have designed a range of machines with this in mind: it's the MULCH range.
- **Deeper loosening** to obtain the best soil structure, without mineral loss, in order to give the plant the right growing conditions: it's the PLOW range.
- **Precision sowing** to plant crops in the best conditions, fertilize as accurately as possible using versatile tools: it's the SEM range.
- **Minimum tillage and conservation farming**, in the search for more sustainable solutions that respect resources : it's the range Conservation Farming.
- the adaptation of AGRISEM's agricultural expertise in tillage and seeding to viticulture: it's the vine range.

## A team at your service

**The AGRISEM service means being close to you!**

Every day, we work to **better support you, anticipate your needs and simplify your work** thanks to ever more innovative machines.

From design to marketing, our teams continually strive to **develop tailor-made tools** for its customers.

**Mutual trust and common values**, this is how we see our collaboration.

**Listening, advice and availability**, the AGRISEM service means benefiting at all times from the expertise of a dense network and competent technicians.



## The Agriculture of Tomorrow ...

**Let nature have the power to do the job!**

Composed of a team of enthusiasts, AGRISEM is committed to more responsible agriculture that respects the environment.

Our vocation is to improve your daily life by **developing ever more efficient and economical machines**.

**Nature is our best ally for thinking, creating, nourishing and succeeding.**

Together, let us look to the future and anticipate the challenges to be taken up in order **to build the world of Tomorrow**.

# COMBIFLOW®



It is essential to maintain a soil structure conducive to root development, to the vertical circulation of water and air to ensure rapid growth of the plants, allowing them a strong resistance to external aggressions (climatic hazards, pests and weeds ).

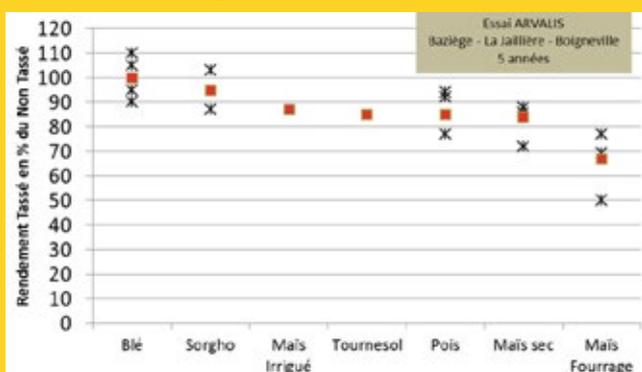


The soil structure can be disturbed during certain harvesting operations, particularly with climate change.

The structure and vertical circulation of the elements in the soil can also be blocked by the smoothing caused in depth by repeated tillage such as plowing. The sole will thus create an impermeable barrier which will prevent infiltrations and capillary rises, but also the development of the roots.



### Up to 30% yield loss



This deterioration of the structure caused by compaction will systematically lead, whatever the crop, to a yield loss of up to 30% in packed areas

## Loosening the soil without upsetting horizons, the secret of the TCS blade

The succession of vertical water circulation in the soil on the one hand, the slow alteration of the bedrock and, in particular, the accumulation and degradation of the organic matter brought in by the various crops, have made it possible to organise the soil into horizontal layers called horizons.



Regardless of the type of soil, the majority of humus and nutrients are stored in the first few centimetres of the soil. This is why it is important not to disturb these horizons in order to ensure the availability of nutrients for the plant, while at the same time giving the roots the freedom to develop in order to search for water resources and certain minerals from the bedrock at depth.

Root development - Water supply



The thin tip positioned at the front: penetration in hard and compacted soil + breaking the plough pan.

The fin: progressive lifting of the soil = «**wave effect**».

- Network of vertical cracks restructuring the soil.
- Capillary infiltration and ascent.
- Warming of the soil.
- Roots development.
- **No disturbance of the soil horizons.**
- **All the fertility and organic matter are kept at the surface.**

The fact of not upsetting during cracking, also offers many advantages:

- Possibility of use on meadows **without destruction** for regeneration to correct the structure after trampling, passage of gear in wet conditions, degradation by voles..
- Can be used on young cover crop to structure the soil in autumn.
- Possible use on young plant cover **to structure the soil** in the fall. No clod creation or raising of plastic blocks that are difficult to refine when preparing the seedbed.
- No blown soil phenomenon and **conservation of the mulch on the surface** allowing the conservation of the freshness of the soil even in summer.
- The worked surface remains flat and level, which allows **use before direct sowing** without any surface preparation.
- The soil **is loosened homogeneously and at identical depth** over the entire width of the machine.

# COMBIPLOW®



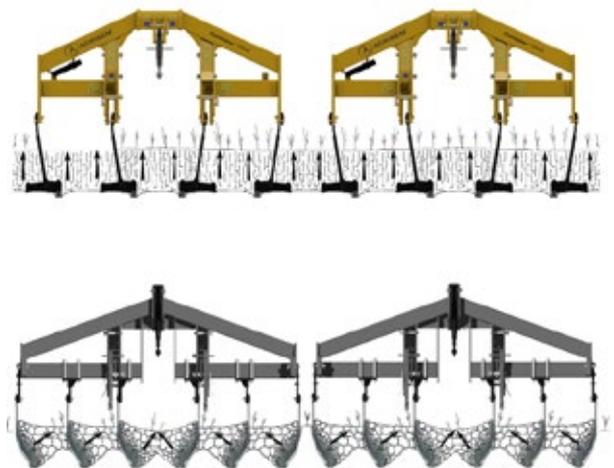
## PERFORMANCES

The use of the TCS blade recreates an optimal soil structure and porosity for a quick and deep development of the plants' root system, which is essential for the success of the crop, and even more for plants with pivoting root system or when the water supply will be one of the limiting factors of the yield.



## TIME AND FUEL SAVINGS

The operation of the TCS blade leads to a **homogeneous and regular work** even when the blades are positioned with a large gap (for example 75 cm on a 3 m Combiplow against 50 cm for a soil loosener with straight or curved blades).



This brings several advantages:

- A bigger clearing (+50%) **to improve the passage through residues.**
- A regular working profile that does not require double-row mounting or crossovers between the passages.
- A work by lifting rather than by percussion which is **more efficient in terms of power and fuel.**
- A reduced number of blades for a limited **cost in terms of fuels and wear parts.**



## **BOLTED WEAR PARTS**

The blade, made of the strongest and most resilient steel (type Hardox® 500) is protected by replaceable cutting edges at the front. They can be equipped with carbide inserts.

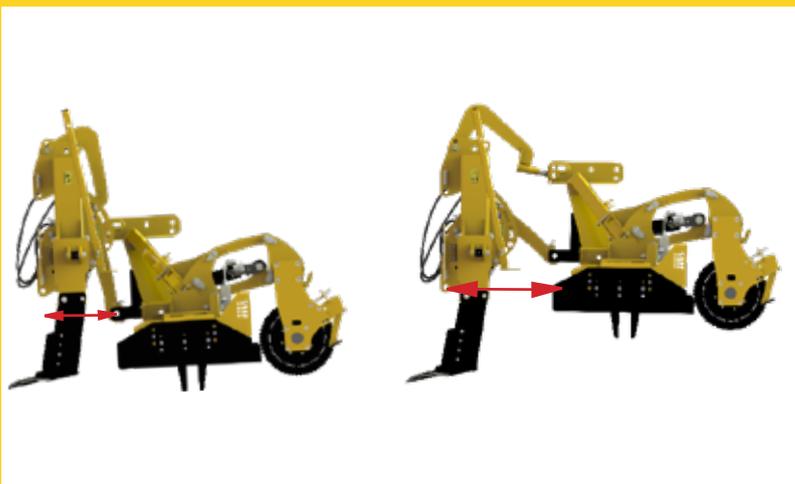
For extreme conditions in particularly harsh soils, the blade can be recharged on the sides. The ploughshare made in foundry piece is inserted on the blade foot in a self-locking manner and then held by a bolt at the rear. Thus, the blade foot and the locking bolt are fully protected from the risk of wear and tear.



## **CARBIDE PROTECTION**

The ploughshare, which tip is reinforced as standard, can also be equipped with tungsten carbide inserts either only on the tip, or on the tip and on the fin with the replaceable Easy-Protect tip version.

AGRISEM has made the choice of using carbide inserts with exclusive return, ensuring the best resistance to wear and to impact against stones. With the Easy-Protect ploughshare, the lifespan of the parts is optimised by independently replacing the fin or the tip.



## **RETRACTABLE COUPLER**

The Combiplow is equipped with a rear coupler with an articulated arm with position stops. This system offers an excellent compact design when the machine is lifted, thus reducing the cantilever and stresses on the tractor lift.

While in operation, the coupling arm is articulated in a parallelogram to provide the maximum clearance.

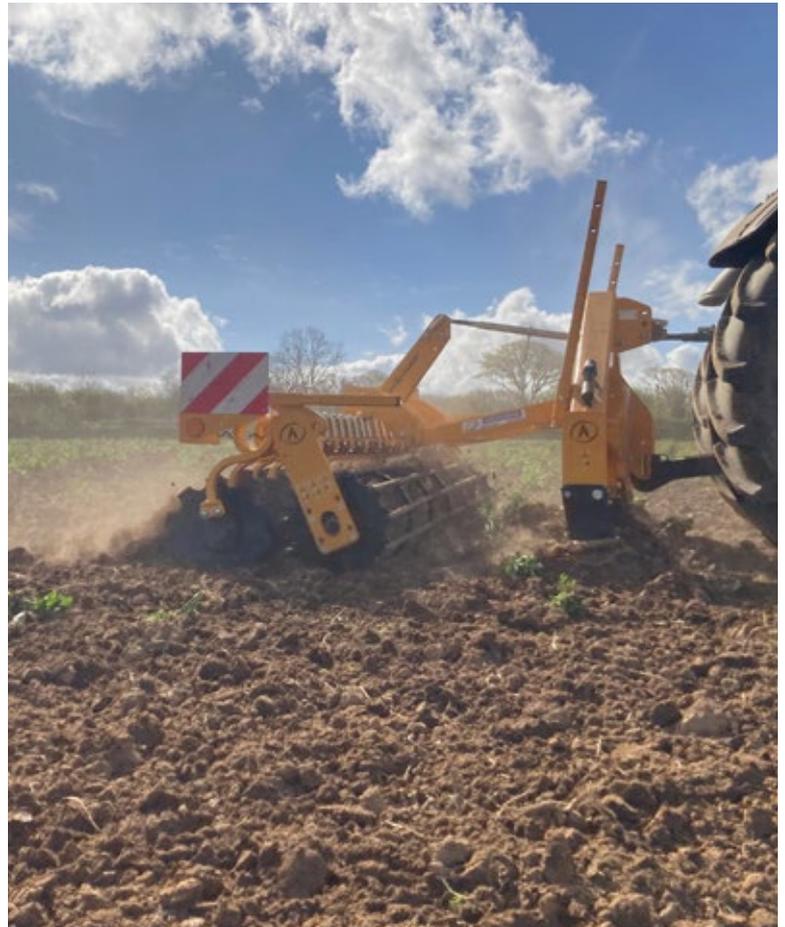
# COMBIFLOW®

Silver

Simple and light, the Silver Combiplow offers the AGRISEM blade technology for a combination of tools suitable for a tractor power of 80 to 140 HP.



Maxi compactness : 37,5 cm



# COMBIFLOW®

## Gold

The Gold Combiplow, available with 4 or 6 blades, with a working width of 3 to 4 m, is intended for a use with heavy tools and a power between 90 and 210 HP.



Maxi compactness : 29 cm



# COMBIFLOW®

## Platinum BC

For intensive uses, the Platinum Combiplow has a sturdy frame that adapts to the highest power levels.

Available with working width of 3 to 4.5 m, some retractable telescopic versions (manual or hydraulic) allow for transportation with a compact size.

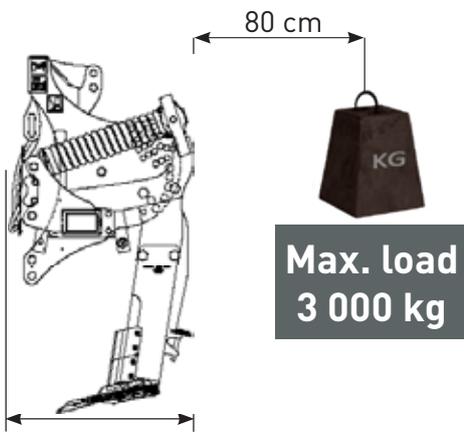


Maxi compactness : 35 cm



# COMBIFLOW®

## Platinum SR



Maxi compactness : 70 cm

### Non-Stop Spring Security:

- Efficient and quick clearing
- Maintenance-free pivots and rings
- Trigger force of 1000 Kg at the tip



# COMBIFLOW®

## UTILISATIONS



With seeding combined with cereals.



With the preparation of the seed bed and single-seed planting.



With a roller to control the depth and the tamping.



With a rotary cutter for the preparation of potatoes.



With the Combimulch or the cultivator to include a superficial mulching.



By interchanging in front of a tool to correct the compaction of high-power tractors.



By itself to leave an open soil during a fall cracking in heavy soil.

# Specifications

	Silver	Gold			
	Rigid	Rigid			Rigid
Working width (m)	3	3	3,5	4	3
Transport width (m)	2,57	2,65	3,42	3,92	2,3
Maxi compactness (cm)	37,5	29			
Number of blades	4	4	6	6	4
Blades	TCS 20x650	TCS 20x650			
Frame section	160x160 mm	160x160 mm			
Coupling	CAT. 2	CAT. 3			
Power req. min-max with power harrow (HP)	80 - 140	90 - 210	120 - 210	140 - 210	100 - 210
Weight with rear coupling (kg)	512	680	835	862	776
Rollers	Cage, Combimulch	Cage, Steel-Pack, Combimulch, Combimulch Steel-Pack	Cage, Steel-Pack, Combimulch		Cage, Steel-Pack, Combimulch, Combimulch Steel-Pack

## Wearing part

TCS blade 650



TCS blade 740



Hardfacing TCS blades

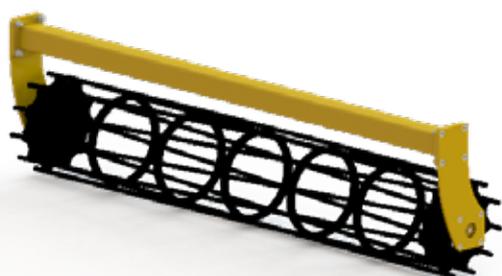


Standard leading edge

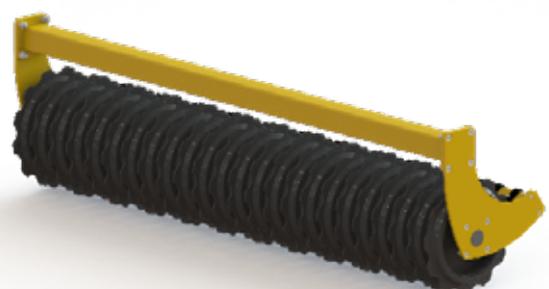


## Rollers

Cage Ø450 et 526



Steel-Pack Ø600



Platinum BC				Platinum SR			
Manual retractable		Hydraulic retractable		Rigid		Hydraulic retractable	
3,5	4	4	4,5	3	3,5	3,5	4
3	3	3	3,2	2,3	3,9	3	3
35				70			
6	6	6	6	4	6	6	6
TCS 20x650				TCS 20x740			
200x200 mm				120x200 mm			
CAT. 3				CAT. 3			
110 - 225	140 - 265	140 - 265	180 - 300	100 - 210	140 - 265	120 - 240	140 - 265
970	970	1011	1011	1350	1830	1895	1875
Cage, Steel-Pack, Combimulch		Cage		Cage, Steel-Pack, Combimulch, Combimulch Steel-Pack	Cage, Steel-Pack, Combimulch		Cage

Leading edge with carbide faceplate



Standard share



Carbide share on the tip



Easy-Protect share



Combimulch Cage roller



Combimulch Steel-Pack





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