

# CULTILOW®



# 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.

**Our main goal is to help the farmer get the most out of his most important tool: the soil.**



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**.

# CULTIPLow®



## THE INTEREST OF SOIL CRACKING

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 ).



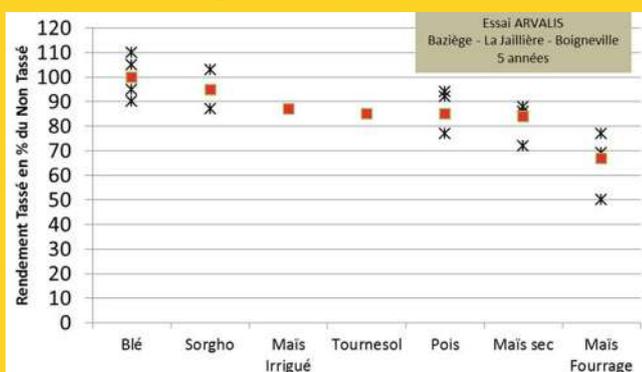
The structure and vertical circulation of the elements in the soil can also be blocked by the smoothing caused in depth by repeated tillage such as plowing. The sole will thus create an impermeable barrier which will prevent infiltrations and capillary rises, but also the development of the roots.



However, it can happen that the soil structure is disturbed during certain harvesting sites, for example with the repeated passage of increasingly heavy equipment in increasingly frequent complicated climatic conditions



### 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 (see Arvalis test).

## 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.
- 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.

# CULTIPLOW®



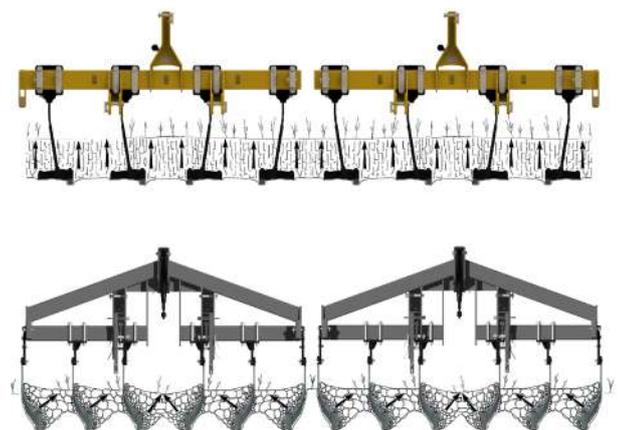
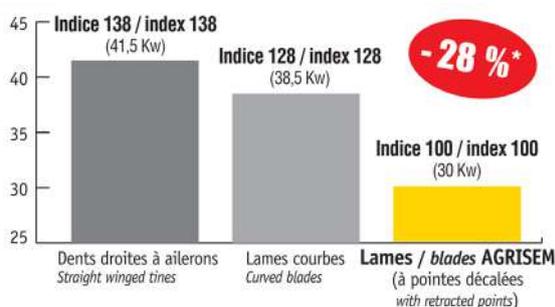
## PERFORMANCES

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 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.



## **NON-STOP SECURITY**

During the development of Non-Stop Security system (spring or hydraulic), AGRISEM has chosen some kinematics offering a total clearing of the blade, ensuring the passage of obstacles while protecting the frame and the working parts.

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## Blades / security



### FOR EACH USE HIS CULTIFLOW



	Smartplow	Cultiflow Silver	Cultiflow Gold	Cultiflow Platinum	Cultiflow Platinum HD
<b>Blades</b>	Agroplow 20x590	TCS 15x550	TCS 20x650 TCS 20x740	TCS 20x750	TCS 30x750 HD
<b>Working depth (cm)</b>	15 à 25	10 à 25	15 à 35	15 à 45	
<b>Security</b>	Hydraulic non-stop	Shear bolt Non-stop security		Shear bolt Non-stop security Non-stop hydraulic	
<b>Under frame clearance (mm)</b>	750	650	810	975	
<b>Frame section (mm)</b>	100x100	120x120	200x200		

## SMOOTH AND LEVEL FINISH WITHOUT OVERTURNING

The addition of disc coupler in front of the blade improves the regularity of the wave of lifted soil. It is also an extra equipment to use when there are large quantities of residues.

Thank to the Flexi-Sem rubber roller that levels and completely tampers the soil, the Cultiplow is the ally of the breeder for the restoration of meadows after intensive grazing, or degradation by voles and wild boars. It is then possible to correct the soil structure without harming the regrowth of grass.



## CRACKING AND SCALPING WITH COMBIMULCH

It is possible to equip the rigid Cultiplow with the Combimulch that combined a row of stubbing disks at the rear of the roller. These independent disks allow to mulch the soil surface to destroy the weeds by letting them to dry in the open air without risk of transplanting.



## ROLLERS ADAPTED FOR HEAVY SOILS

With the Double-Spike roller, the soil is firmly tamped while pressing stones or any blocks.

The Steel-Pack Ø600 Roller is also available and liked for its versatility and its ability to be used in harsh conditions.



# CULTIFLOW®

## Rigid

Thanks to its single-beam frame, the still Cultiflow is a very sturdy single soil loosener that can withstand a high traction torque. Available from 2.50 to 4.00 working widths, it is suitable for tractors from 90 to 250 HP.



Cultiflow Gold 3 m - 4 blades  
Shear bolt - Double-Spike roller



Cultiflow Platinum 3 m - 4 blades  
Non-stop security - Cage roller

- Single-beam frame section 200x200 mm
- Reinforced coupler Cat.3
- Depth adjustment by Multistops

# CULTIFLOW®

## Folding

The 4.50 m and 6.00 m folding Cultiflow have been designed to the harshest conditions of use, based on a 3-part frames, and built on the basis of a dual beam.



Cultiflow Gold 6 m - 8 blades  
Non-stop security - Cage roller

- Dual beam section 160x160 mm + 200x200 mm
- Reinforced coupler Cat.3
- Folding at 180° in 3 parts with a still central base
- Depth adjustment by Multistops



# CULTILOW®

## Trailed

Available in trailed version with widths of 4.50 - 6.00 and 8.00 m, the Cultiplow is intended for big farms and to the most powerful tractors. Its sturdy frame with dual beams and its sturdy central base ensure a great reliability even during intensive use.



The Cultiplow stands out by its simplicity of use and handling, with a quick adjustment of the depth by Multistop position stop axles and an articulated boom to optimise the tractor-tool connection.



Cultiplow Gold 4,5 m - 6 blades  
Shear bolt - Cage roller



Cultiplow Platinum 8 m - 11 blades  
Shear bolt - Cage roller - coulter discs



- Dual beam section 160x160 mm + 200x200 mm
- Reinforced coupler Cat.3
- Folding at 180° in 3 parts on the versions 4.500 m & 6.00 m and in 5 parts on the 8.00 m version.
- Front control wheels (optional)
- Depth adjustment by Multistops

During the design phase, AGRISEM has chosen to place the machine axle between the blades and the roller.

The wheels are thus advanced and the manoeuvrability is better for impoundments and road transport.

Also, to lift the machine at the end of the field, the axle is articulated with a short amplitude, allowing an optimal reactivity for the manoeuvres on the transport wheels of large dimensions (500/45-22.5).



The machine equipment, such as LED road lighting can be supplemented by radial profile tyres for a safe road traffic.

Also, there is a large choice of coupling systems meeting the preferences of each user.



# CULTIFLOW® Silver

Simple and light, the Silver Cultiflow offers the AGRISEM blade technology with bolt security or with Non-Stop spring, for a tractor power of 70 to 150 HP.



Cultiflow Silver 2,5 m - 4 blades  
Non stop security - Cage roller

Sturdy and maintenance-free, the Non-Stop Spring Security system provides a big clearing for an optimal protection against stones and obstacles.



- Single-beam compact frame section 120x120 mm
- Coupler Cat.2
- Support stand
- Depth adjustment by Multistops



Combined with a roller or a Combimulch, the Silver Cultiflow ensures a cracking on a depth from 10 to 25 cm.



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## Platinum HD

Intended to be used in the harshest conditions with the need to loosen the hardest and most compacted soils, the Platinum Cultiplow has all the features of the range, with proven frame and components for traction powers up to 400 HP.



- Single-beam reinforced frame section 200x2020 mm
- Coupling Cat.3-4N-4
- Support stand
- Depth adjustment by Multistops

Cultiplow Platinum HD 3 m - 4 blades  
Shear bolt - Combimulch Steel-Pack roller



# To discover...



## Combiplow

Also equipped with the TCS blade to loosen without overturning these horizons, the Combiplow gives the possibility to be combined with a roller, and also with a soil tillage tool such as a power harrow for more versatility.



## Smartplow

With the Agroplo 20x590 blade arranged in 3 rows, the Smartplow cracks the soil on a depth from 15 to 25 cm. It is interesting for the maintenance of the soil structure in TCS or in Conservation Agriculture, while improving the economic performances thanks to a high work output and a reduced fuel need.



## Cultivigne

AGRISEM has also deployed its experience and know-how about cracking market gardening and vineyards with the Cultivigne range.



### **Maximulch**

When saving time and reducing the number of passages become a priority, the Maximulch combines stubbing disks and the work of the blades. Depending on the needs, the number and the arrangement of the rows change between the Maximulch Serie 3 and Serie 5.



### **Your Tailor-made Solution**

Looking for agronomic solutions to specific problems is the mission of AGRISEM. This is why the company listens to its customers' needs, and is always ready to develop solutions adapted to the demand.

# Specifications

	Silver		Gold							
	Rigid		Rigid				Folding		Trailer	
Working width	2,50	3,00	2,50	3,00	3,50	4,00	4,50	6,00	4,50	6,00
Transport width	2,50	3,00	2,50	3,00	3,50	4,00	3,00	3,00	3,00	3,00
Number of blades	4	5	3	4	5	6	6	8	6	8
Blades	TCS 550		TCS 650 (shear bolt) TCS 740 (non-stop security)				TCS 650 (shear bolt) TCS 740 (ressort)		TCS 650 (shear bolt) TCS 740 (ressort)	
Frame section	120x120 mm		200x200 mm				160x160 mm + 200x200 mm			
Coupling	CAT. 2		CAT. 3						Coupling Ø (Option K80 - bras)	
Power req. min-max with power harrow (HP)	70 - 120	90 - 150	90 - 180	110 - 210	150 - 230	170 - 250	200 - 280	280 - 380	200 - 280	280 - 380
Weight with Cage roller (kg) - non-stop security	1 093	1 310	1 474	1 781	2 099	2 423	4 616	5 291	5 527	5 820
Weight with Cage roller (kg) - shear bolt	743	813	973	1 113	1 264	1 421	3 614	3 955	6 529	7 162
Rollers	Cage, Combimulch, Steel-Pack		Cage, T-Sem, U-Sem, Steel-pack, Double-spike, Combimulch Steel-Pack	Cage, T-Sem, U-Sem, Steel-pack, Double-spike, Combimulch, Combimulch Steel-Pack	Cage, T-Sem, U-Sem, Steel-pack, Double-Spike, Combimulch			Cage, T-Sem, U-Sem, Steel-pack		

## Wearing part

### Cultiplow SILVER



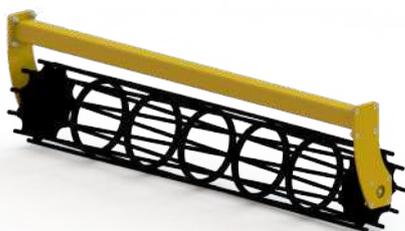
- 1 Standard
- 2 Hardfacing
- 3 Carbi-Protect
- 4 Carbide
- 5 Carbide on the tip

### Cultiplow GOLD - PLATINUM - HD



		Platinum									Platinum	
		Rigid				Folding		Trailed			HD	
	8,00	2,50	3,00	3,50	4,00	4,50	6,00	4,50	6,00	8,00	3,00	4,00
	3,50	2,50	3,00	3,50	4,00	3,00	3,00	3,00	3,00	3,50	3,00	4,00
	11	3	4	5	6	6	8	6	8	11	4	6
bolt) (t)		TCS 750						TCS 750			TCS 30 x 750	
		200x200 mm				160x160 mm + 200x200 mm					200x200 mm	
50 mm inf. CAT3-4)		CAT. 3						Coupling Ø50 mm (option K80 - bras inf. CAT3-4)			CAT.3-4N-4	
80	380 - 450	90 - 180	110 - 210	150 - 230	170 - 250	255 - 320	335 - 425	255 - 320	335 - 425	420 - 550	150 - 350	200 - 400
5	7 382	1 178	1 371	1 562	1 789	3 941	4 391	5 810	6 260	7 968	1 550	2 050
2	9 219	1 679	2 039	2 397	3 981	4 943	5 727	6 812	7 596	9 805	2 150	2 950
	Cage, U-Sem	Cage, T-Sem, U-Sem, Steel-pack, Double-Spike, Combimulch Steel-pack	Cage, T-Sem, U-Sem, Steel-pack, Double-Spike, Combimulch, Combimulch Steel-pack	Cage, T-Sem, U-Sem, Steel-pack, Double-Spike, Combimulch			Cage, T-Sem, U-Sem, Steel-pack				Cage, U-Sem,	Cage, T-Sem, U-Sem, Steel-pack, Double- Spike, Combimulch, Combimulch Steel-pack

## Rollers



Cage Ø526



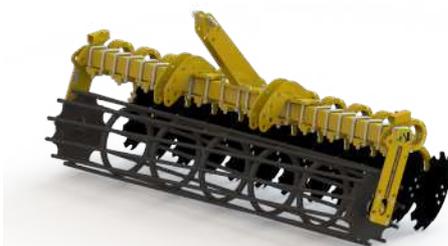
Steel-Pack Ø600



Double-Spike



Flexi-Sem



Combimulch Cage roller



Combimulch Steel-Pack



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