



GRÉGOIRE
BESSON



40 50 **60 70** 80 90

Ploughing



Soil restructuring



Stubble tillage



Soil preparation



gregoire-besson.com



Soil preparation equipment & services for farmers

Preparing the soil and the future

«Above all else, the GB Group is committed to combining resources and methods to serve not only the customers of the group's various brands, but also dealers and suppliers around the world. We also want to bring together the teams from our many production sites and subsidiaries around a single corporate project.

Throughout the GB Group, we want to support everyone who is working towards efficient and sustainable agriculture by offering a wide range of product solutions and an increasing number of services.

We are mindful of the challenges facing humanity in the decades to come and we are convinced that they will require smarter, more efficient and more sustainable soil preparation.»

Patrick Besson, CEO of the GB Group



GB Group

Grégoire Besson and Agriway are the two brands of the GB Group. Our experience and ambitions are the same for all our brands, even if each name has been shaped by its own particular approach.

Grégoire Besson, the founding brand of the group, continually strives to strengthen its partnership of trust with agricultural professionals.

A global presence

5 Plants & 7 Subsidiaries



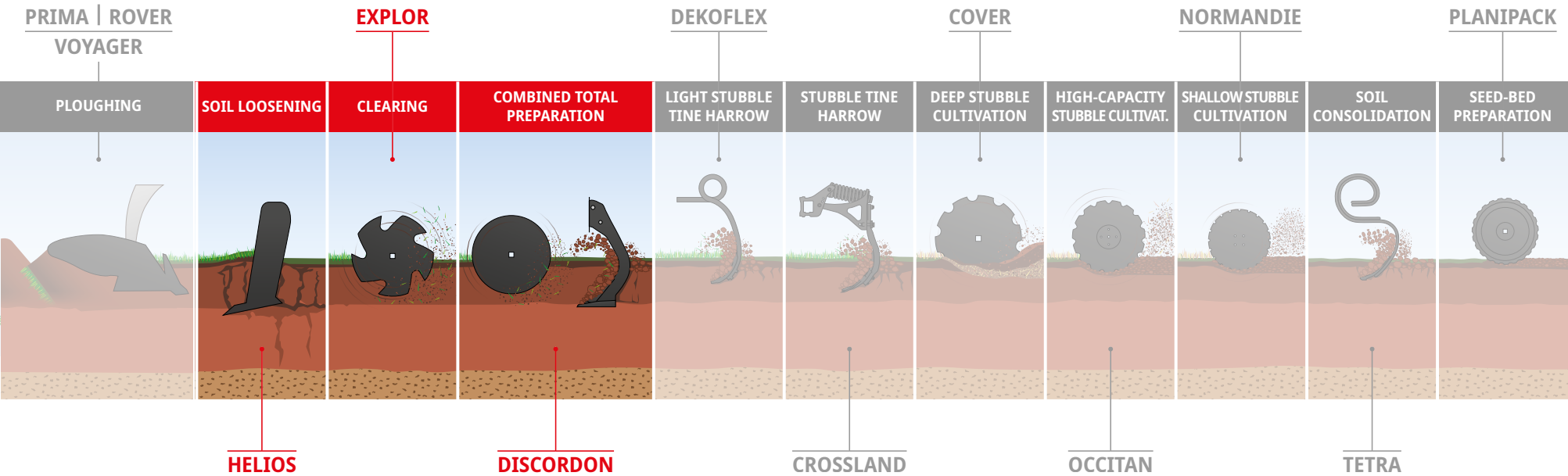
With our employees, 1 objective: customer satisfaction

Whether we are in our factories, at an agricultural show or out in the fields, we always keep in mind that our task is to help our customers improve their soil productivity.

Grégoire Besson and soil tillage



1 NEED > 1 NAME



3 RANGES TO MEET YOUR NEEDS

HELIOS

Make root exploration easier in one pass.

EXPLOR

Take control of the field in one pass.

DISCORDON

Remove the stubble, decompact, mulch and reconsolidate in one pass.

A simple range



Index	40	50	60	70	80	90
Sub-Soilers	●	●	●	●	●	●
Disc Harrows	●	●	●	●	●	●
One-Pass Finishers	●	●	●	●	●	●
Farm size						
Tractor power	 50 to 85 HP 37 to 62 kW	 85 to 125 HP 62 to 92 kW	 125 to 210 HP 92 to 154 kW	 210 to 310 HP 154 to 228 kW	 310 to 400 HP 228 to 294 kW	 400 to 600 HP 294 to 441 kW
Cylinders	 3	 4	 4/6	 6	 6	 6
Lifting capacity	 3.5T	 5T/6.5T	 6.5T/9T	 10.5T	 11.5T	 10.5T

Better soil preparation for tomorrow

We are convinced that the food challenges of the 21st century can only be solved through more efficient and intelligent soil preparation. Grégoire Besson designs, produces and distributes soil preparation equipment for farmers who are growing for the future.





SUMMARY

HELIOS

Sub-Soilers



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Helios Cracker 70 _____ p.24

EXPLOR

Disc Harrows



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DISCORDON

One-Pass Finishers



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Accessories

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Taking into account agronomic realities leads us to develop specific tools for each application.

Whether it is due to climatic accidents, complicated harvests or the cultivation of wooded land, the restructuring of a soil goes through different stages. We have developed a range adapted to each use to meet these issues.



Surface loosening (10 to 25 cm)

Under 25 cm deep, the Helios enables preparation for root implantation. The Michel blade performs this task without disrupting the surface and without pushing fine soil down. The Cracker or straight tine vigorously mixes the surface horizon.



Loosening of intermediate layers (25 to 35 cm)

From 25 to 35 cm deep, it eliminates poor soil preparation due to the same tool being used too often at the same depth (base effect). Plots where tubers are intensively grown can be very uneven in terms of compaction. They are made worse by areas of difficult grubbing-up and in the presence of heavy machines.



Deep loosening (35 to 60 cm)

Deep loosening allows the soil to be restructured up to 60 cm. It eliminates the consequences of climatic accidents or mistreatment that would have compacted the soil.

Water and air circulate more easily, life in the soil can breathe. A living soil is an essential condition for the proper development of the plant growth.



Re-cultivation, clearing

Very large diameter disc tools are suitable for recultivation of virgin, wooded or post-harvest areas, such as sugar cane.

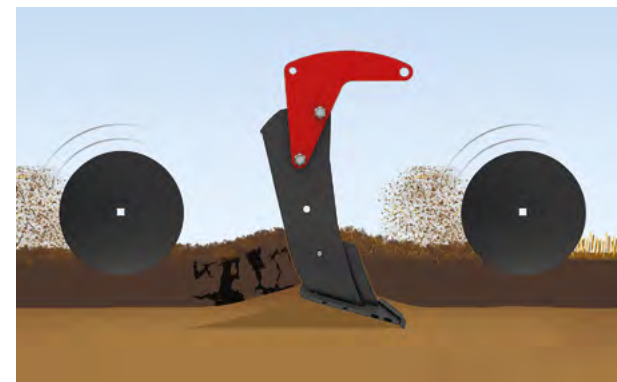
The combination of a large curve and the mounting on a square shaft for the drive ensures an intensive restructuring work. Aggressiveness on the residues is high and their decomposition is improved.



Tines and discs combination for shallow work

The combination of tines and discs provides many advantages in stubble cultivation. The passage of the discs creates a quality mulch and cuts the residues to improve their decomposition. The passage of the tines below the working depth of the discs will allow water and air to properly infiltrate the upper and intermediate layers of the soil. The mulch is once again improved and the entire worked area is well mixed.

The operating cost of this tool is low compared to the many benefits it provides. You stubble, loosen and consolidate in one pass



Tines and discs combination for deep work

The aim is to loosen and limit the disturbances of the soil structure deeply with the tines in order not to have any limit in the plant development. The rooting depth must be at its most for the roots to exploit the soil's potential.

In the upper part of the soil, the aim is to prepare a seedbed with finer soil.





HELIOS
SUB-SOILERS

Restructuring

Two soil loosening solutions to match your agronomic needs. A loosening with or without disturbing the soil horizon, that you can combine or not.

HELIOS MONO 60

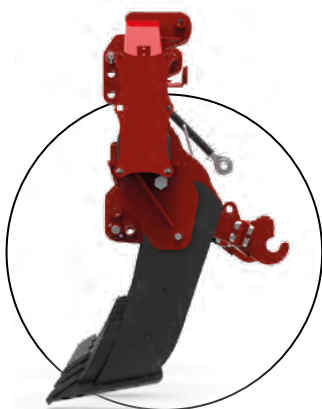
MOUNTED SUB-SOILER

4, 6 or 8 tines - Tractors: 125 to 310 hp - Working width: 3.00 to 4.00 m



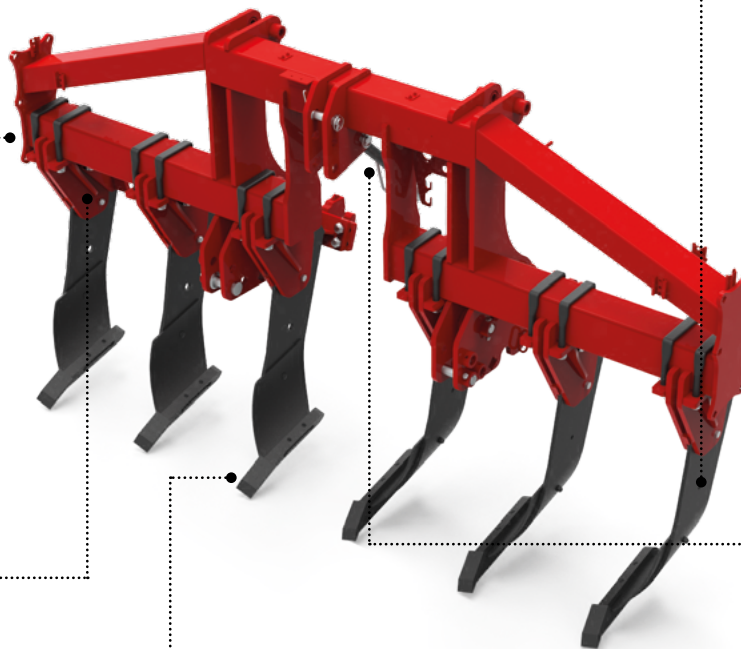
Proven chassis

The single frame has been designed to be equipped with a rear hitch and combine it with a power harrow and a seed drill for minimum tillage.



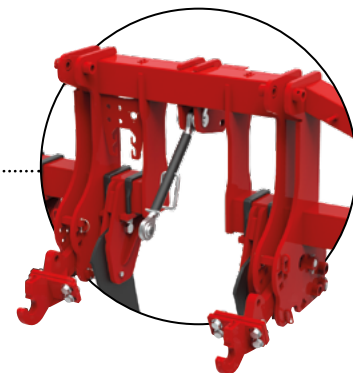
Compact dimensions

The frame overhang is reduced to limit the entire length when the Helios is combined with another tool. The centre of gravity is thus closer to the tractor, which limits the required lifting power.



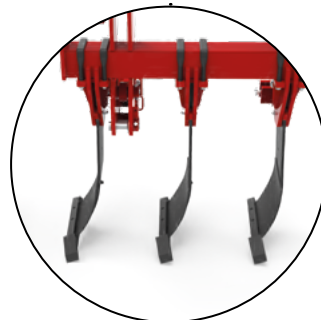
Two possible tines

You can choose the tine model depending on the expected work. If you want to loosen without any disturbance, we recommend the Michel loosening tine. If you wish to obtain a mixture of the top layer, the straight tine will be more suitable.



Rear hitch

You can choose between mechanical lifting with stops or hydraulic setting. The coupling yokes are modular to match any category. We also offer an option with hose extensions for the combined tool.



Spacing between tines

The tine spacing has been chosen to obtain a constant work quality and a good soil loosening. Moreover, it enables you to go easily through large volumes of plant residues.



Shear bolt safety

With 5 tons shear-off torque and 500 mm height clearance, this simple and economical safety device adapts to soils with low rock content. Assembled with steel washers, clean and burr-free shearing is ensured which simplifies extraction. You don't waste time changing it and it avoids play and wear around the hole.



Non-stop hydraulic safety

Adjustable and very flexible, hydraulic safety can withstand a 525 kg maximum load. By adjusting the nitrogen compression in the reservoir, you can adapt the tip resistance. Depending on the type of soil you loosen, you can adjust its activation. Hydraulic safety allows the tine to retract when it meets a foreign body.



Proven chassis

The frame has been designed to drive a transmission shaft, power a PTO shaft, combine an animated rear implement. The change in working depth does not interfere with the transmission passage.



Wide underbeam clearance

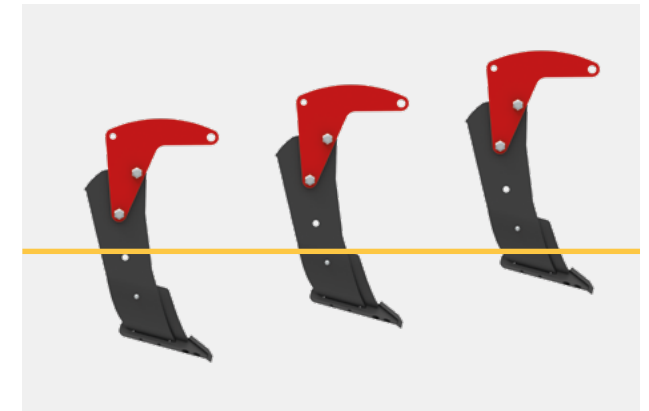
Always in order to ease the way through large volumes of plant residues, the Helios underbeam clearance is 900 mm to allow you to work at various working depths without any clogging.

You can be confident of being productive with all crop types.



Rear equipments

On top of the rear hitch, we also offer 3 different rollers. The square bar roller consolidates slightly and cracks some clods on light soils. The twin roller, with a double row of wavy discs, breaks up clods. The double notched disc roller is used to slice clods on the upper layer and consolidate the soil.



10 to 45 cm

Under 25 cm deep, the Helios prepares for root development. The Michel loosening tine performs this task without disrupting the surface and without pushing fine soil down, unlike the straight tine. From 25 to 35 cm deep, it eliminates poor soil preparation due to the same tool being used too often at the same depth.



HELIOS MONO 60 TECHNICAL SPECIFICATIONS

Working width (m)	3.00	3.50	4.00	3.00	3.50	4.00
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 190 92 / 140	150 / 210 110 / 155	210 / 310 155 / 228	125 / 190 92 / 140	150 / 210 110 / 155	210 / 310 155 / 228
Transport width (m)	3.00	3.50	4.00	3.00	3.50	4.00
Transport height (m)	1.80					
Indicative weight without roller (kg)	800	850	1 100	800	850	1 100
Yoke hitch type (Cat.)	3N - 3					
Chassis version	Rigid mounted frame					
Number of tines	4	6				8
Tine model	Straight tine			Michel loosening tine		
Leg protection	Standard with carbide / Option carbide					
Tip	Standard with carbide			Standard with bolt-on tip / Option with carbide bolt-on tip or reversible tip		
Spoiler (mm)	Standard 280 / Option 280 carbide or 440 standard			Not available		
Spacing between tines (mm)	750	583	666	500	583	500
Spacing between tine rows (mm)	-					
Under frame clearance (mm)	880			900		
Tine safety system	Standard shear bolt / Option hydraulic non-stop					
Rear power lift	Standard mechanical with 3-point hitch / Option hydraulic with 3-point hitch					
Rear equipment (mm)	Square bar roller Ø 500 / Option Double twin with wavy discs Ø 510 / Double with notched discs Ø 510					
Depth control	Roller					
Stabilising wheels	Not available					
Max. working depth (mm)	450					
Road traffic lights	As standard					

HELIOS DUO 60

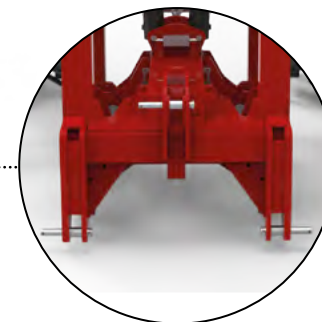
MOUNTED SUB-SOILER

4 to 8 tines - Tractors: 125 to 210 hp - Working width: 3.00 to 4.00 m



A high robustness

Helios has been recognized for more than 10 years for its solidity. He has travelled the world and cracked a large number of different soils with very harsh climatic conditions.



Several coupling categories

To suit all tractors, several coupling categories are compatible. The front of the machine has even been designed to be possibly equipped with a Quick Coupler.



Two possible safety devices

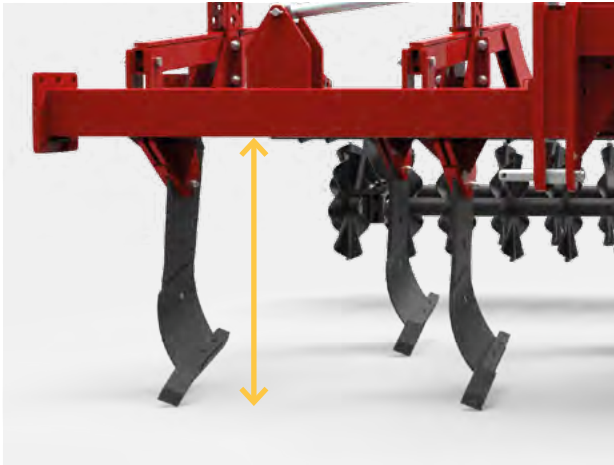
For hard and stone-free soils, we recommend the shear bolt safety with a high shear-off torque.

For stony soils, the hydraulic non-stop safety will be more adapted. It allows you to work safely.



Easy depth adjustment

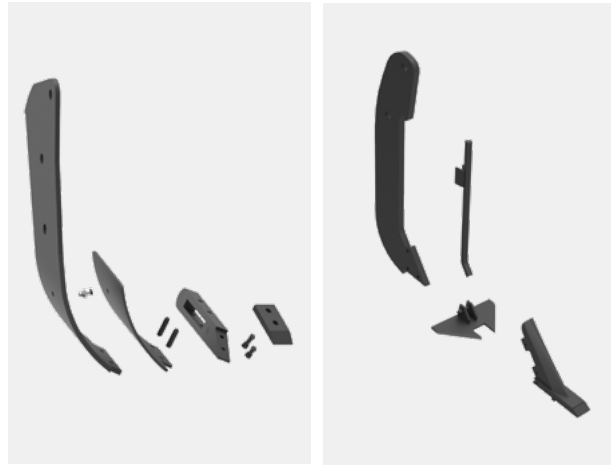
The working depth is set through the roller and/or the stabilisation wheels. The roller has high and low stops which enable to master properly the requested loosening depth.



Wide underbeam clearance

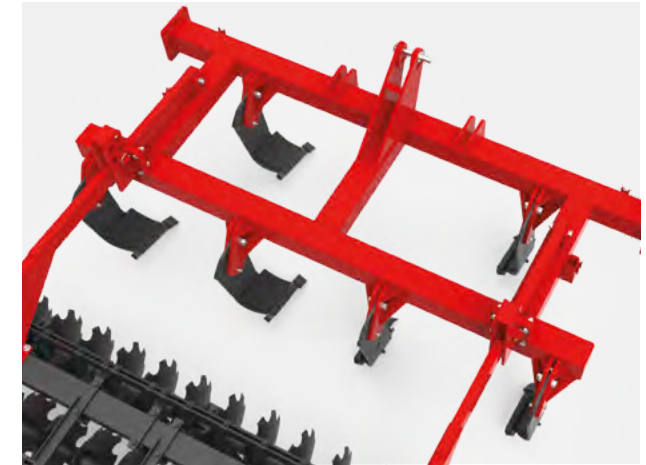
Always in order to ease the way through large volumes of plant residues, the Helios underbeam clearance is 850 mm to allow you to work at various working depths without any clogging.

You can be confident of being productive with all crop types.



Two possible tines

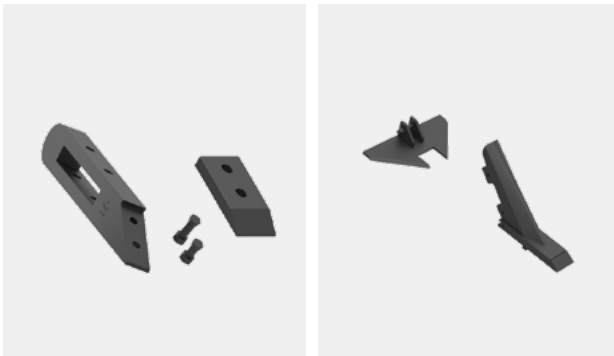
You can choose the tine model depending on the expected work. If you want to loosen without any disturbance, we recommend the Michel loosening tine. If you wish to obtain a mixture of the top layer, the straight tine will be more suitable.



Twin beam frame

The clearance between rows is 960 mm, to avoid clogging while limiting the machine overhang. Your soil is thus loosened with or without vegetation.

The Helios Duo helps you increase your crop yields thanks to a proper root development of plants.



Carbide parts

The original part improves your performance as it has been studied to have good penetration, reduced fuel consumption, but also proper wear of the working parts. Depending on your soil, we offer different types of parts. For clayish or chalky soils, forged parts will be suitable. To increase the operating life of your parts when you work on sandy or abrasive soils, we offer a range of carbide points and wings.



Numerous rollers

Depending on your growing itinerary, but also on your soil type, we have four possible rollers. To have a slightly closed soil, two single square bar rollers with different diameters are available. Two slicing rollers are designed to chop up residues and clods. This accelerates mineralization and feeds the plant more quickly.



Optional stabilising wheels

On light soils, the roller may not be sufficient to maintain the correct depth of the Helios. For this purpose, we offer, as an option, two 200/60x14.5 stabilising wheels at the front of the machine. They are essential if you want to work without a roller.



HELIOS DUO 60 TECHNICAL SPECIFICATIONS

Working width (m)	3.00	3.50	4.00	3.00		3.50	4.00	
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 180 <i>92 / 132</i>	150 / 190 <i>110 / 140</i>	160 / 210 <i>117 / 154</i>	125 / 180 <i>92 / 132</i>		150 / 190 <i>110 / 140</i>	160 / 210 <i>117 / 154</i>	
Transport height (m)	1.80							
Transport width (m)	3.00	3.50	4.00	3.00		3.50	4.00	
Indicative weight without roller (kg)	980	1080	1240	830	980	1080	1130	1240
Yoke hitch type (Cat.)	3N - 3							
Chassis version	Rigid mounted frame							
Number of tines	5		7	4	6			8
Tine model	Straight tine			Michel loosening tine				
Leg protection	Standard without carbide / Option carbide							
Tip	Standard with carbide			Standard with bolt-on tip / Option with carbide bolt-on tip or reversible tip				
Spoiler (mm)	Standard 280 / Option 280 carbide or 440 standard			Not available				
Spacing between tines (mm)	600	700	571	750	500	583	666	500
Spacing between tine rows (mm)	960							
Under frame clearance (mm)	880			900				
Tine safety system	Standard shear bolt / Non-stop hydraulic option							
Roller adjustment	Mechanical							
Rear equipment (mm)	Standard without / Option: single bar roller Ø 600 - Double Twin with wavy discs Ø 510 - Double with notched discs Ø 510 - Double spike roller							
Depth control	Roller or stabilising wheel							
Stabilising wheels	Standard without / Option two wheels 200/60 x 14.5							
Max. working depth (mm)	450							
Road traffic lights	As standard							

HELIOS DUO 70

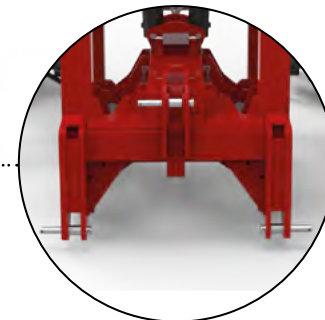
MOUNTED SUB-SOILER

8 or 10 tines - Tractors : 210 to 310 hp - Working width: 4.00 to 5.00 m



A high robustness

Helios has been recognized for more than 10 years for its solidity. He has travelled the world and cracked a large number of different soils with very harsh climatic conditions.



Several coupling categories

To suit all tractors, several coupling categories are compatible. The front of the machine has even been designed to be possibly equipped with a Quick Coupler.



Two possible safety devices

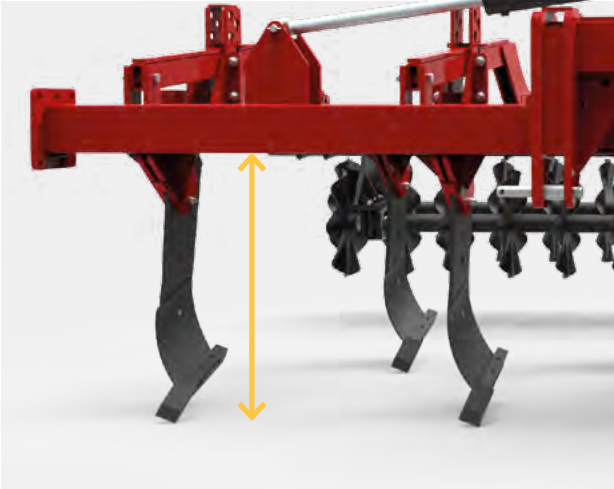
For hard and stone-free soils, we recommend the shear bolt safety with a high shear-off torque.

For stony soils, the hydraulic non-stop safety will be more adapted. It allows you to work safely.



Easy depth adjustment

The working depth is set through the roller and/or the stabilisation wheels. The roller has high and low stops which enable to master properly the requested loosening depth.



Wide underbeam clearance

Always in order to ease the way through large volumes of plant residues, the Helios underbeam clearance is 850 mm to allow you to work at various working depths without any clogging.

You can be confident of being productive with all crop types.



Michel tine

The Michel tine is designed to crack the soil without disturbing the surface, but while creating a vague effect on the surface layer. It allows good water and air infiltration into the soil to promote root development of the crop to be planted. In addition, for abrasive soils, we have a carbide solution.



Optional stabilising wheels

On light soils, the roller may not be sufficient to maintain the correct depth of the Helios. For this purpose, we offer, as an option, two 200/60x14.5 stabilising wheels at the front of the machine. They are essential if you want to work without a roller.



Carbide parts

The original part improves your performance as it has been studied to have good penetration, reduced fuel consumption, but also proper wear of the working parts. Depending on your soil, we offer different types of parts. For clayish or chalky soils, forged parts will be suitable. To increase the operating life of your parts when you work on sandy or abrasive soils, we offer a range of carbide points and wings.



Numerous rollers

Depending on your growing itinerary, but also on your soil type, we have four possible rollers. To have a slightly closed soil, two single square bar rollers with different diameters are available. Two slicing rollers are designed to chop up residues and clods. This accelerates mineralization and feeds the plant more quickly.



Optimized template

The machine folded in two parts is 3.00 m wide. This means you can move around safely. The two-section kinematics enable the folded machine to be unhooked and thus optimise storage space.



GRÉGOIRE BESSON

HELIOS DUO 70 TECHNICAL SPECIFICATIONS

Working width (m)	4.00	5.00
Tractor power (HP) <i>Tractor power (kW)</i>	210 / 270 155 / 199	250 / 310 184 / 228
Transport height (m)	2.20	2.80
Transport width (m)	2.90	
Indicative weight without roller (kg)	1 800	1 980
Yoke hitch type (Cat.)	3 - 4N	
Chassis version	Mounted foldable	
Number of tines	8	10
Tine model	Michel loosening tine	
Leg protection	Standard without carbide / Option carbide	
Tip	Standard with bolt-on tip / Option with carbide bolt-on tip or reversible tip	
Spoiler (mm)	Not available	
Spacing between tines (mm)	500	
Spacing between tine rows (mm)	960	
Under frame clearance (mm)	880	
Tine safety system	Standard shear bolt / Option hydraulic non-stop	
Rear power lift	Mechanical standard with 3-point linkage / Hydraulic option with 3-point linkage	
Rear equipment (mm)	Standard without / Option: sigle bar roller Ø 600 - Double Twin with wavy discs Ø510 - Double with notched discs Ø 510 - Double pics	
Depth control	Roller / Option stabilising wheels	
Stabilising wheels	Standard without / Option two wheels 10/75 x 15.3	
Max. working depth (mm)	450	
Road traffic lights	As standard	

HELIOS CRACKER 70

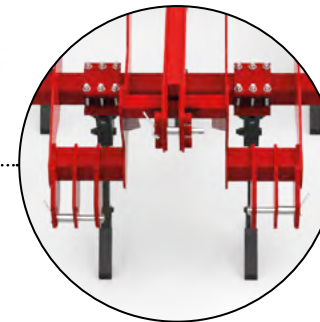
MOUNTED SUB-SOILER

5 to 7 tines - Tractors: 210 to 310 hp - Working width: 2.50 to 4.00 m



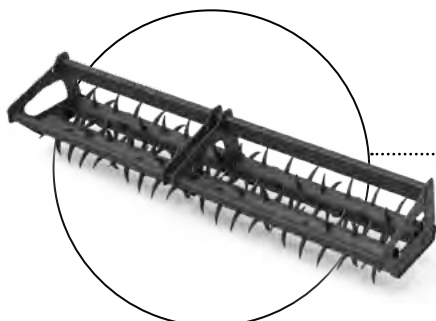
A machine-welded frame

The machine-welded frame is extremely resistant. It has been designed to cope with the difficult conditions that the Cracker can undergo.



A fitted hitch

The hitch is extremely strong and is designed to withstand the tractors' tractive power and the shocks that the machine can undergo. Several categories are compatible to suit all tractors.



Double spike roller

The double spike roller, with its 340 mm diameter, enables an important surface work because it breaks clods, increases the burial of plant residues and, above all, levels after the passage of tines. This roller has bearing protections to protect the bearings from soil flow and long plants that could be entangled in them.



Side deflectors

Deflectors are optional on each side of the machine, in order to channel the soil flow that the tine can bring. These sheets mounted on two pendulums allow you to have a well levelled field.



Stabilising wheels

For better stability, it is possible to have a pair of wheels (optional) at the front of the machine. These 10.0/75x15.3 wheels help to control depth and compensate for the high suction of the tines towards the ground.



Cracker tine

The Helios Cracker is the machine the most suitable to loosen the soil on the whole working depth. The surface disturbance is similar to a deep ploughing that mixes the plant residues with the soil. This accelerates humification. Your soil reappropriates nitrogen without having to provide inputs.



Shear bolt safety

Further to an intense test campaign in Russia, the shear bolt safety has proved its worth. The shear bolt shears off when the peak load exceeds 10 700 kg. In the event of a breakage, the bolt head falls off, as well as the rest of the bolt. The tine can then retract and then return to its place by its own weight. It is suitable for slightly rocky and very compacted soils.



Wide clearance

A 820 mm underbeam clearance. The working depth and plant residues on the soil request a wide clearance in order to avoid clogging. Deep work lifts up the soil and breaks it. For a trouble-free quality work, it is necessary to have some distance between the frame and the tines.



Modular tine

You can adapt the Cracker tine depending on the requested agronomic work. To work deeply, only the point is required, with a 20° angle, to control the tensile stress and consumption. To cut the strips of soil, a knife deflector is available to make smaller clods. However, for more superficial work, wings can be mounted to cut the root systems of the plant cover.



Hydraulic non-stop safety

Essential for stony soils, the hydraulic non-stop safety enables the tine to retract to protect the frame and work safely. This technology, well known within Grégoire Besson, is adjustable according to the type of soil. The tine can lift up to 40 cm to work on extremely difficult soils.



Hydraulic roller adjustment

The working depth is flexible and can be adjusted by setting hydraulically the roller depth. Adjustment is carried out from the cab in complete simplicity and safety for the driver



HELIOS CRACKER 70 TECHNICAL SPECIFICATIONS

	2.50	3.00	4.00
Working width (m)	2.50	3.00	4.00
Tractor power (HP)	210 / 280	220 / 290	240 / 310
Tractor power (kW)	154 / 206	147 / 206	176 / 228
Transport width (m)	2.50	3.00	4.00
Transport height (m)	2.20		
Indicative weight without roller (kg)	2 010	2 343	3 143
Yoke hitch type (Cat.)	3		3 - 4N
Chassis version	Rigid mounted frame		
Number of tines	5	7	7
Tine model	Cracker tine		
Leg protection	Standard		
Tip	Standard reversible point / Option non reversible		
Spoiler (mm)	Standard without / Option wings		
Spacing between tines (mm)	500	428	571
Spacing between tine rows (mm)	960		
Under frame clearance (mm)	920		
Tine safety system	Shear bolt	Standard Shear bolt / Option Hydraulic	Shear bolt
Roller adjustment	Mechanical		
Rear equipment (mm)	Standard double spike roller Ø340		
Depth control	Roller		
Stabilising wheels	Standard without / Option two wheels 10.0/75x15.3		
Max. working depth (mm)	600		
Road traffic lights	Standard		





EXPLOR

DISC HARROW

Outstanding capacities

Specifically designed for clearing rhizome crops such as sugar cane, miscanthus or small new growth forests, Explor can also be used for deep ploughing in extreme conditions: heavy soils or very dry soils.

EXPLOR T70

DISC HARROW

Tractors: 210 to 310 hp - Working width: 2.00 to 5.60 m



Drawbar suspension

On the drawbar cylinder, the elastomer provides comfort both on the roads and on the field. An accumulator generates flexibility on the carrier frame, to preserve your machine and your operating comfort.



Drawbar angle

For optimum pulling force, the drawbar angle is adjustable with a hydraulic cylinder. This assembly allows you to operate the cylinder as you wish.



Robust disc gangs

The disc gangs have been designed to accommodate stones, holes and plants. Square in shape and 50 or 60 mm wide, the shafts drive all the discs at the same time.



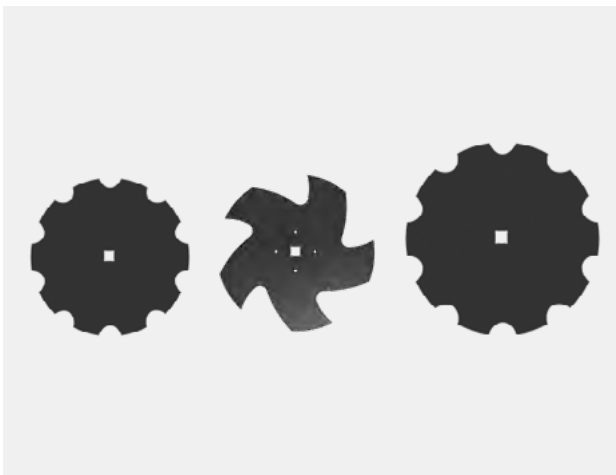
Suspended wheel axle

In order to improve comfort in the cabin, on roads or on pathways, we have added nitrogen accumulators. They provide suspension to the wheel axle and limit the forces on the tractor hitch. This equipment extends the life of your machine.



Centre-wheel axle

The positioning of the axle in the centre of the machine is there to ensure good load transfer and precise control of the working depth.



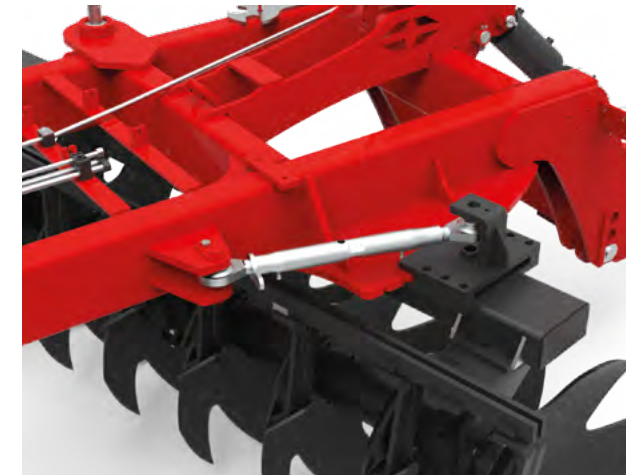
Several disc types

Two models are available, notched (in Ø 810 mm and Ø 910 mm) and flailed (in Ø 810 mm) to increase the drive of the disc gang and the chopping of plants. The two diameters enable to adapt best to your gang depth and to the existing volume of plants and forest root system.



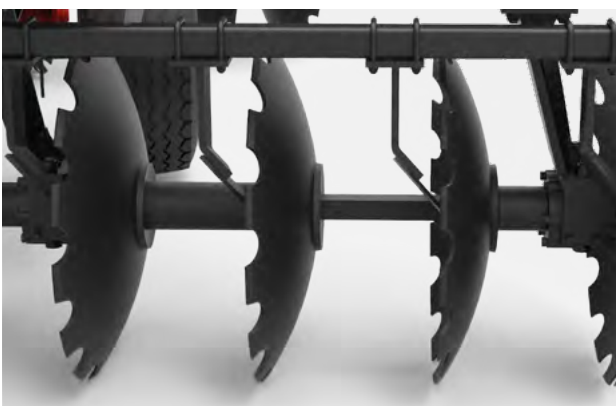
Tailor-made bearings

The bearings are machined from a steel block. They range from 50 mm to 60 mm and have a double tapered bearing and 6 seals. This guarantees you a long service life despite major shocks.



Disc angling adjustment

The disc angling adjustment is mechanical as standard. As an option, you can have the hydraulic setting of the rear disc gang or of both front and rear disc gangs for more comfort. The advantage of the V-shaped disc gang is to be more stable on hilly land and more aggressive to destroy tree roots.



Several spacings

Four different disc spacings available depending on your needs. We recommend 270 mm and 350 mm for fine work and shallow depth. 400 mm and 500 mm are suitable for a more versatile use, for the destruction of complex root system.



Bearing protection

The bearing protection are recommended in case of very stony grounds. The aim is to prevent the bearing from the wear due to the friction of the earth on the bearing, but also to shocks when the Explor comes accross foreign objects in the fields.



Key for disc gangs

If you need to change the discs, the key is accessible on the machine. As it is a hexagonal nut of 91 mm width, we have chosen to insert it into the frame. Thanks to its long length, you benefit from a high tightening torque. You don't waste time, and quickly become operational again.

EXPLOR T70 TECHNICAL SPECIFICATIONS

	2.20	2.55	2.90	3.25	4.25	4.95	5.60
Working width (m)							
Tractor power (HP) <i>Tractor power (kW)</i>	210 / 225 154 / 165	220 / 235 162 / 173	230 / 265 169 / 195	240 / 280 176 / 206	250 / 290 184 / 213	260 / 300 191 / 221	270 / 310 198 / 228
Transport width (m)	2.20	2.55	2.90	3.25	4.25	4.95	5.60
Transport height (m)	1.60						
Indicative weight (kg)	3 300	3 450	3 700	4 150	5 700	6 280	6 860
Hitch (Cat.)	Forged ball ring: Ø 35 mm - Ø 45 mm - Ø 55 mm - Ø 65 mm						
Chassis version	Fixed						
Disc number	14	16	18	20	26	30	34
Shaft diameter (mm)	50						
Disc diameter (mm)	Standard Ø810 notched / Option Ø810 flailed						
Disc thickness (mm)	10						
Disc spacing (mm)	350						
Underbeam clearance (mm)	900						
Max. working depth (mm)	400						
Safety of the working element	Rigid bearing support						
Disc angling adjustment	Standard: mechanical / Option: hydraulique arrière / hydraulique avant et arrière						
Stabilising wheels	Non disponible						
Tyres	Standard 400/55x22.5 (Ø 1011 mm) / Option 400/70x20(Ø 1 068 mm) / 17.5x24 (Ø 1 250 mm)						
Braking system	Standard hydraulic / Option tyre or without braking						
Footbridge for seed drill	Not available						
Hectare counter	Option						
Roller adjustment	-						
Rear equipment (mm)	Without						
Road traffic lights	As standard						

EXPLOR T70 TECHNICAL SPECIFICATIONS

Working width (m)	2.00	2.40	2.80	2.00	2.50
Tractor power (HP) <i>Tractor power (kW)</i>	210 / 225 <i>154 / 165</i>	220 / 235 <i>162 / 173</i>	230 / 265 <i>169 / 195</i>	240 / 280 <i>176 / 206</i>	250 / 290 <i>184 / 213</i>
Transport width (m)	2.00	2.40	2.80	2.00	2.50
Transport height (m)	1.60				
Indicative weight (kg)	3 400	3 750	4 100	3 950	4 250
Hitch (Cat.)	Forged ball ring: Ø 35 mm - Ø 45 mm - Ø 55 mm - Ø 65 mm				
Chassis version	Fixed				
Disc number	12	14	16	10	12
Shaft diameter (mm)	50				
Disc diameter (mm)	Standard Ø 810 notched / Option Ø 810 flailed				
Disc thickness (mm)	10				
Disc spacing (mm)	400			500	
Underbeam clearance (mm)	900				
Max. working depth (mm)	400				
Safety of the working element	Rigid bearing support				
Disc angling adjustment	Standard mechanical / Option hydraulic rear / hydraulic front and rear				
Stabilising wheels	Not available				
Tyres	Standard 400/55x22.5 (Ø 1011 mm) / Option 400/70x20(Ø 1068 mm) / 17.5x24 (Ø 1250 mm)				
Braking system	Standard hydraulic / Option tyre or without braking				
Footbridge for seed drill	Not available				
Hectare counter	Option				
Roller adjustment	-				
Rear equipment (mm)	Without				
Road traffic lights	As standard				





DISCORDON

ONE-PASS FINISHER

All in a single pass

Combined tool to stubble, loosen and consolidate in a single pass. Combination of efficiency and agronomic work.

DISCORDON 60

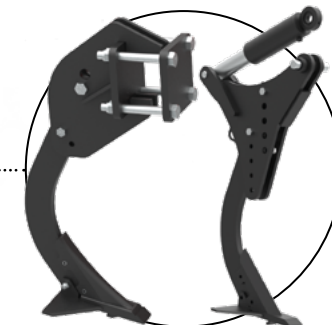
MOUNTED ONE-PASS FINISHER

24 or 28 discs, 5 tines Tractors: 125 to 210 hp - Working width: 3.00 to 3.50 m



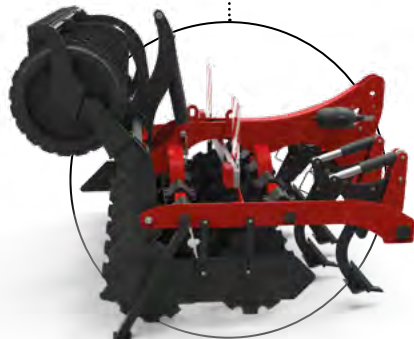
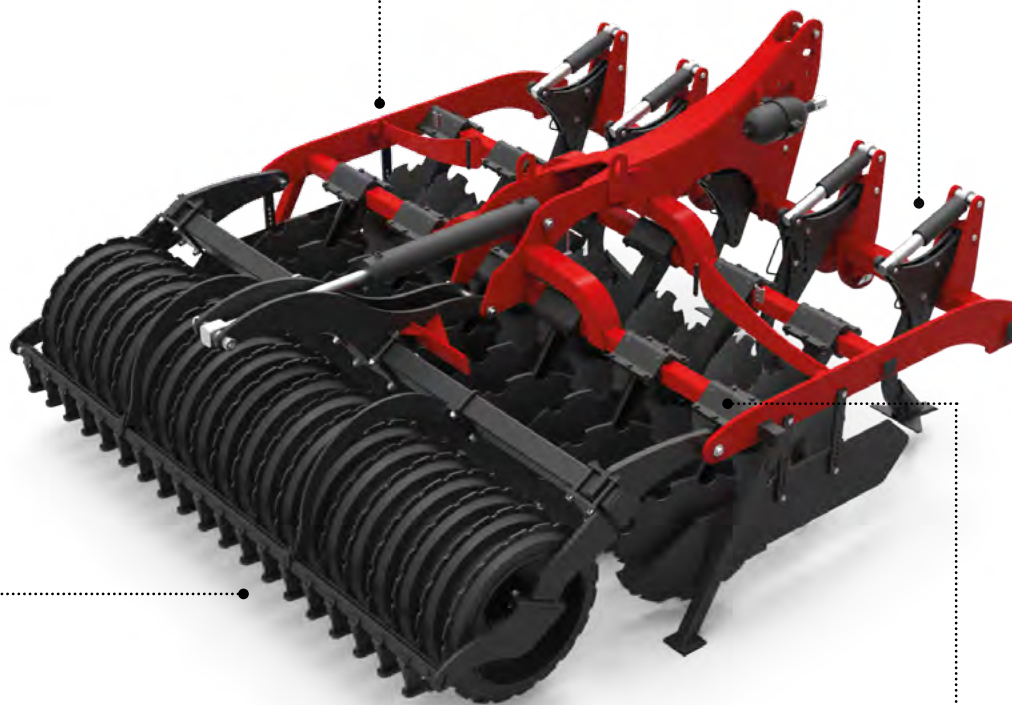
A frame adapted to high power ratings

The central chassis of the Discordon 60 is equipped with a 3-point linkage compatible with categories 3, 4 and quick coupler. This chassis is designed for high-power tractors. The disc and tine holding tubes are embedded in the oxycuttings to maximise the strength of the assembly.



Two possible safety devices for the tines

Tines that are positioned in aggressive mode can be equipped with a bolt safety device, for stone-free conditions, which increases up to 4 895 kg of tip resistance, or with a hydraulic safety device, for stony conditions with tip resistance up to 2 310 kg. The tine depth adjustment is independent from the rest of the machine.



A foldable roller on the machine

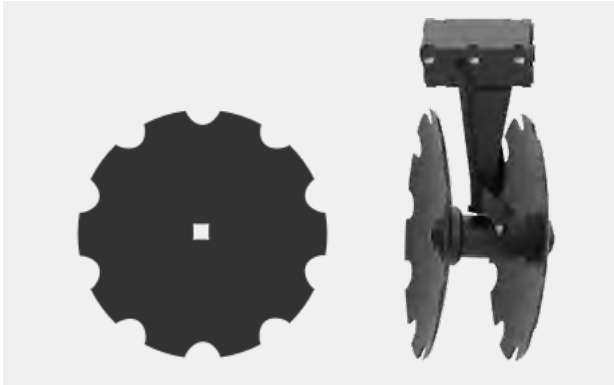
The roller is retractable, so it can be folded back onto the machine to increase the tool's penetration capacity in difficult conditions.

During road transport, folding the machine back makes it more compact and therefore reduces the load on the tractor's lifting arms.



Non-stop elastomeric safety for discs

The disc arms are fixed to the frame by means of 4 triangular elastomers which act as a safety device in case of contact with a foreign body or a stone. These elastomers are equipped with 3 flat faces for a better support on the frame. The complete element is well held in position and does not risk moving on the tube. Each safety is maintained by 6 bolts for optimal tightening.



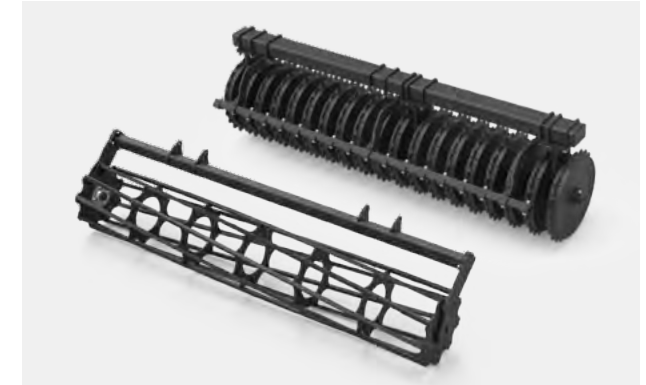
Two discs per bearing

We have chosen discs with 575 mm diameter and large notches. These discs have a high aggressiveness and ensure a quality mulch. They are mounted on a double bearing with a central shaft for a common drive. Having two discs per arm allowed us to increase the clearance in the machine and save weight. The efforts are better distributed on safety, so its operation is optimised. The tool's penetration capacity is maximum, even in dry conditions.



Straight tines on grip

5 straight tines are positioned at the front of the machine. The distance between each tine is 560 mm for 3 m tools and 680 mm for 3.5 m tools. Each tine has an independent manual adjustment that allows you to adjust the working depth up to 40 cm below the soil surface. These tines are equipped with carbide tips as standard and you have the possibility to work with standard or carbide wings or without wings.



Two rollers available

You have two types of rollers available on this range. The single square bar roller Ø 600 mm, suitable for good depth control and used for its aggressiveness on plant residues, and the Emopak profile V roller Ø 740 mm which is a heavy roller for in-line finishing and deep soil consolidation. The heavy roller allows you to push the machine's operating limits in wet conditions thanks to its scrapers.



Side deflectors to direct the earth flow

Two deflector plates are positioned on each side of the machine to limit the projection of earth and residues. The aim is to keep the flow from the working tools in the machine width. You do not have any marking between two passes, you leave an even and quality ground for the next work to be done.



Parking legs

For greater safety when storing the machine, we have parking legs on both sides of the tool. They ensure stability, they are removable and easy to install.



Configure your soil
preparation equipment on
gregoire-besson.com



DISCORDON 60 TECHNICAL SPECIFICATIONS

Working width (m)	3.00	3.50
Tractor power (HP) Tractor power (kW)	125 / 175 92 / 129	160 / 210 118 / 155
Transport width (m)	3.00	3.50
Transport height (m)	2.45	
Indicative weight with Emopak roller (kg)	2 850	3 500
Hitch (Cat.)	3 - 4	
Chassis version	Fixe	
Disc number	24	28
Tine number	5	
Disc diameter (mm)	Ø 575	
Disc thickness (mm)	6	
Disc spacing (mm)	230	
Tine spacing (mm)	560	680
Spacing between 2 disc rows (mm)	700	
Underbeam clearance (mm)	750	
Max. working depth (mm)	Disques : 200 / Dents : 400	
Safety of the working element	Discs: Non stop elastomeric / Tines: Shear bolt - Non stop Hydraulic	
Roller adjustment	Hydraulic	
Rollers (mm)	Single bar Ø 600 / Emopak V Ø 740	
Road traffic lights	Standard	

DISCORDON T70

SEMI-MOUNTED ONE-PASS FINISHER

32, 36 or 40 discs, 7 or 9 tines Tractors: 210 to 310 hp - Working width: 4.20 to 5.20 m



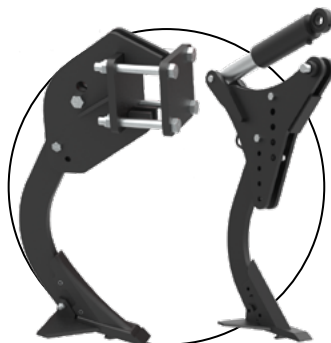
Stability on roads and for headlands

We have decided to offer only one tyre on the Discordon T70 range. Wheel 400/55R22.5 is mounted as standard to ensure a maximum stability on roads and for headlands. This type of low-pressure technology protects your headlands from compaction.



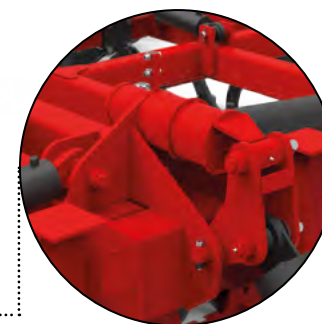
Disc gangs angling adjustment

Angling adjustment allows you to adjust the aggressiveness of the discs and thus increase or decrease the penetration capacity of the tool. The adjustment is mechanical by changing the length of the tie rod.



Two possible safety devices for the tines

Tines that are positioned after the first disc gang can be equipped with a bolt safety device, for stone-free conditions, which increases up to 4 895 kg of tip resistance, or with a hydraulic safety device, for stony conditions with tip resistance up to 2 310 kg.



Elastomeric suspension and hydraulic compensation

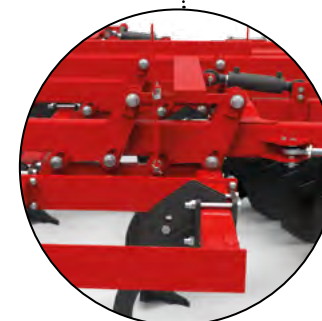
The drawbar is equipped with a hydraulic compensation cylinder in order to lift the machine always parallel to the ground. This cylinder is connected as standard to the lifting or lowering system of the carrier frame. In addition, we have equipped the upper part of the cylinder with an elastomer block that acts as protection during transport or at the headland. This suspension also ensures the stability of the tool at work and helps to monitor the ground on slopes.



Proven bearings

Its cast steel housing allows it to keep compact dimensions so as not to obstruct the passage of residues. Thanks to the triple barrier of the braid and the two outward facing seals, excess grease can escape but dust and debris do not enter. This system ensures a long service life and reduces maintenance times.

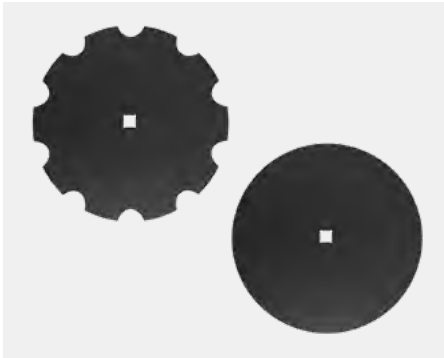
An optional bearing protection is available for worn or stony soils.



Tines on parallelogram

The tine depth adjustment is independent of the rest of the machine. It is carried out hydraulically. The tine support frames are mounted on a parallelogram which ensures a lifting or lowering perfectly parallel to the ground. The adjustment is very precise and easy to implement.

The tines can work from 0 to 40 cm deep for shallow tillage or deep soil restructuring.



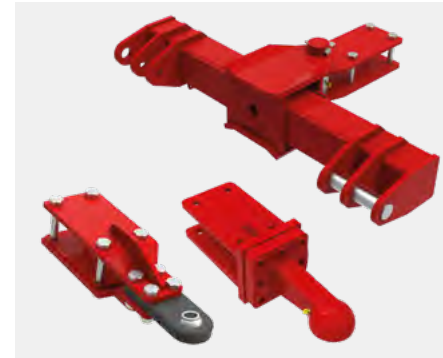
Wide choice of discs

Several disc types are available. We offer two models, one notched and one plain, to increase the drive of the disc gang. Two diameters, 660 mm and 710 mm, enable to adapt best to your working depth and to the volume of plants to bury. We guarantee you a high aggressiveness and a quality mulch for a good residue decomposition.



Two tines available

The tines are positioned in the middle of the machine between the two disc gangs. The distance between each tine is 500 mm for a good restructuring work over the entire width and to keep fluidity in the presence of residues. You have a straight tine that allows you to disturb the whole worked horizon. We also offer the Michel tine which preserves the soil structure and allows deep aeration.



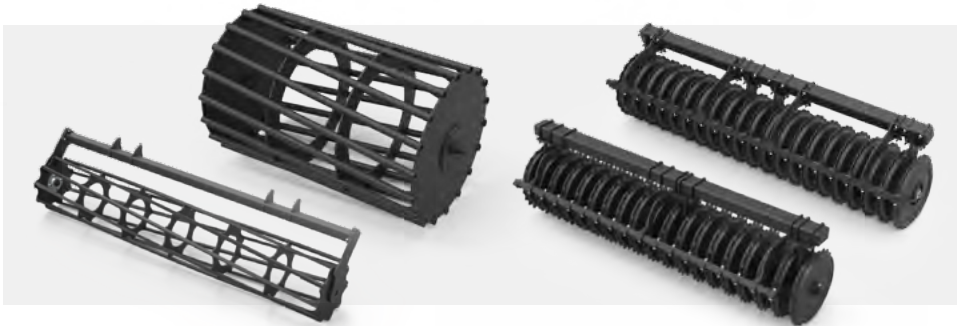
Hitches for all applications

We offer a wide choice of couplings corresponding to the tractor categories. We have a large choice: category 3 to 4 arm couplings, forged ball couplings with Ø 35, 45, 55 and 65 mm and a Scharmüller K80 coupling. We recommend the forged ball and Scharmüller K80 hitches for optimal distribution of tensile forces and maximum grip. This results in lower fuel consumption and better tractor performance.



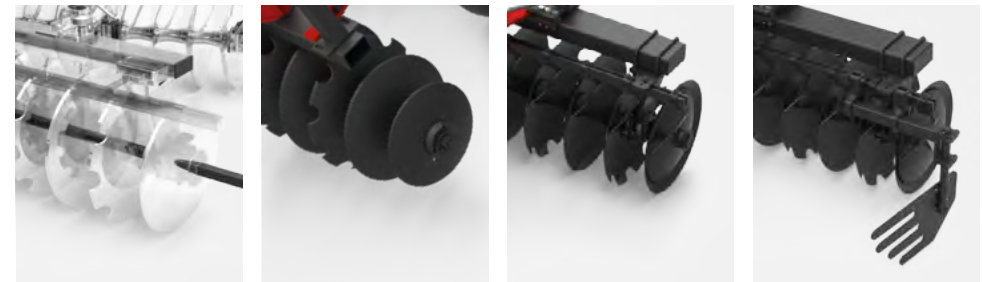
Hydraulic selector

The Discordon is equipped with a 2-function hydraulic selector as standard, 3-function in option. This control box allows you to centralise several functions on the same distributor. It is required in case you do not have enough valves available on your tractor. It allows you to limit the number of hydraulic connections and makes it easy to use in the cab.



4 rollers available

Your machine can be equipped with a single square bar roller Ø 600 mm, suitable for good depth control and used for its aggressiveness on plant residues. A single bar roller Ø 900 mm is also available; it ensures also a good depth control and an ideal finish in sandy conditions. We offer as well Emopak rollers Ø 600 mm, with V-shape for in-line finishing and deep soil consolidation, and with flat profile for soil compaction and a perfect in-line finishing.



Aggressive disc gangs

The disc gangs are stacked on 40 mm shafts for Ø 660 mm discs and 50 mm shafts for Ø 710 mm discs. These shafts are made of high-strength treated steel, they absorb shocks and stresses. To simplify access for disc replacement, the disc gangs are tightened and locked from the ends.

The front disc gangs are equipped with anti-projection discs and you can add an optional deflector. The rear disc gangs have a degressive mounting to ensure a good levelling of the ground in the machine width.



DISCORDON T70 TECHNICAL SPECIFICATIONS

	4.20	4.70	5.20
Working width (m)			
Tractor power (HP)	210 / 250	240 / 280	270 / 310
Tractor power (kW)	155 / 184	177 / 206	199 / 228
Transport width (m)	3		
Transport height (m)	3.00	3.25	3.50
Indicative weight with Emopak roller (kg)	7 770	8 050	8 330
Hitch (Cat.)	On arm: 3 - 4N - 4 - Quick coupler / Forged ball ring: Ø 35 mm - Ø 45 mm - Ø 55 mm - Ø 65 mm / Scharmuller K80		
Chassis version	Foldable in two parts		
Disc number	32	36	40
Tine number	7	9	
Disc diameter (mm)	Standard Ø 660 / Option Ø 710		Ø 660
Disc thickness (mm)	Standard 6 / Option 7		
Disc spacing (mm)	270		
Size of square shaft for disc gang (mm)	Standard 40 / Option 50		40
Tine spacing (mm)	500		
Under frame clearance (mm)	800		
Max. working depth (mm)	Discs: 200 / Tines: 400		
Safety of the working parts	Discs: rigid bearing support / Tines: shear bolt - hydraulic non-stop		
Compensation on drawbar	Hydraulic		
Hydraulic function selector	Standard: 2 functions / Option: 3 functions		
Tyres	400/55R22,5 (Ø 1010 mm)		
Braking system	Standard Hydraulic / Option pneumatic		
Seeder support	Option		
Footbridge for seed drill	Option		
Hectare counter	Option		
Roller adjustment	Hydraulic		
Rollers (mm)	Single bar Ø 600 / Single bar Ø 900 / Emopak V Ø 600 / Emopak P Ø 600		
Road traffic lights	Standard		

HELIOS WORKING PARTS



Straight tine

The straight tine provides a very good mixture and a total disruption of all soil horizons on the worked surface. It has a carbide point and you can choose between standard or carbide wings. The leg is protected by the point, which can be replaced by means of a pin. The leg is also protected by a shin.



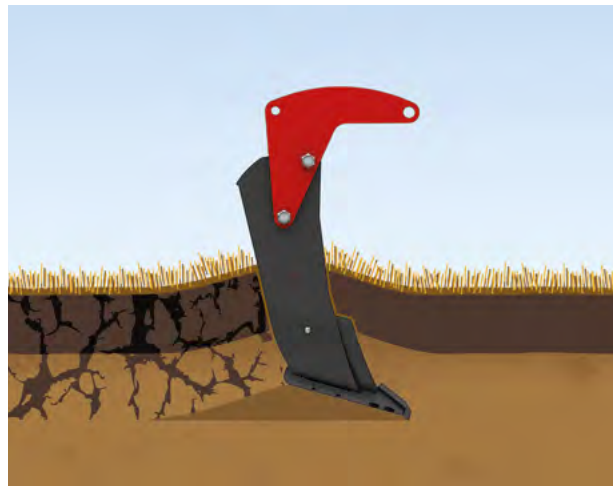
Michel loosening tine

The Michel tine provides a deep soil restructuring without disturbing the soil horizon. The leg is protected by a counter-blade. This tine can be equipped with a standard or carbide bolted point, or a reversible share.



Cracker tine

The Helios Cracker are the most suitable machines to loosen on the whole working depth. The disturbance of the surface is similar to a deep ploughing which mixes plant residues together with the earth. This accelerates humification. Your soil reappropriates nitrogen without the need for inputs.



SAFETY DEVICES

SHEAR BOLT SAFETY

For stone-free conditions, the tines can be equipped with a shear bolt safety device that goes up to 10 700 kg of tip resistance.

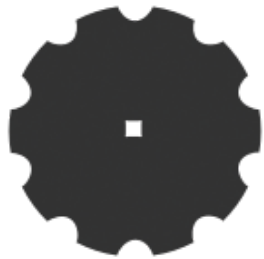


HYDRAULIC SAFETY

For stony conditions, we recommend the hydraulic safety device with an adaptable resistance at the tip.



EXPLOR WORKING PARTS



Notched

Ø 810 mm, épaisseur 10 mm.

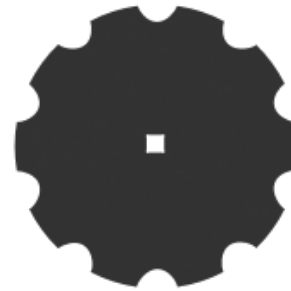
The Ø 810 mm notched disc is mainly used for deep ploughing and plot restoration after harvesting sugar cane or miscanthus for example.



Flailed

Ø 810 mm, épaisseur 10 mm.

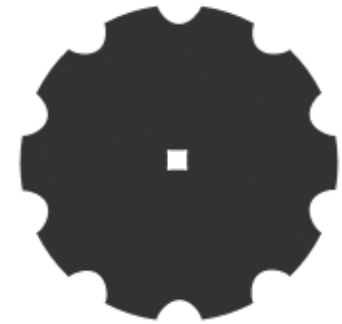
The flailed disc is more suitable for clearing and preparation in order to cultivate after a forest plantation.



Notched

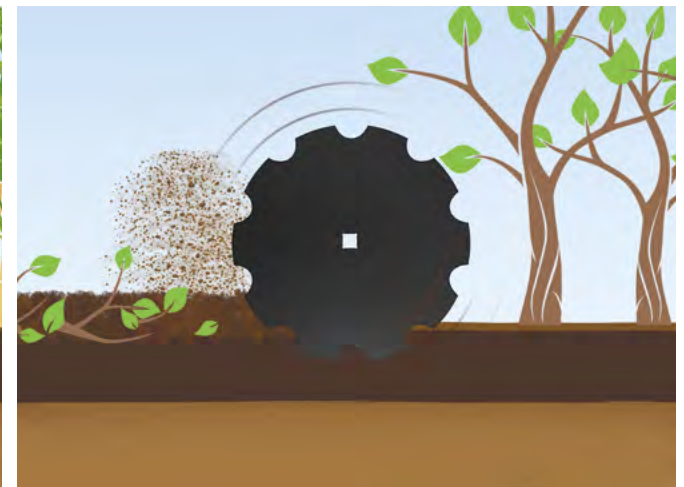
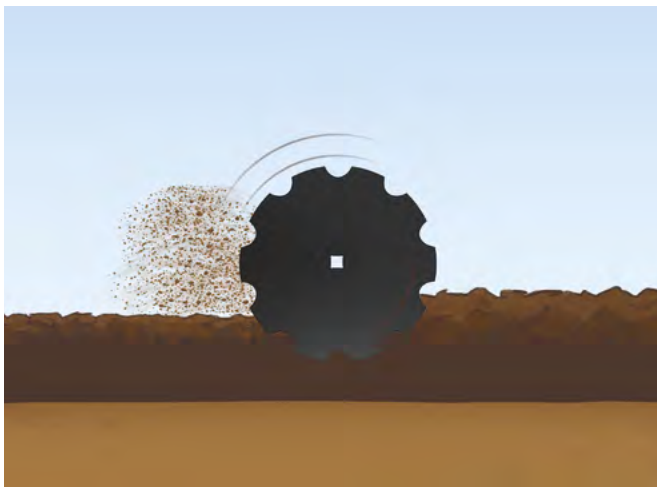
Ø 910 mm, épaisseur 12 mm.

For bigger tools that require a very high penetration capacity and work in very difficult conditions, we offer larger diameter discs with a higher thickness. They are mainly used for clearing or deep ploughing.

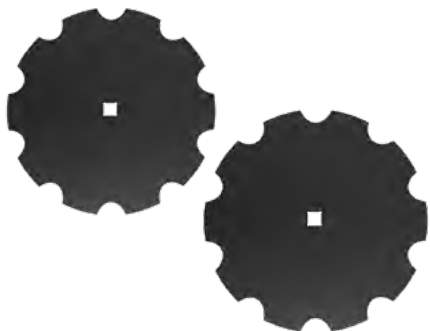


Notched

Ø 1 020, épaisseur 12 mm.

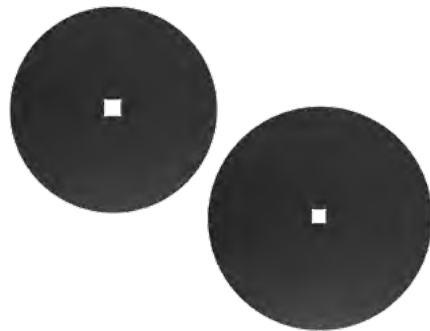


DISCORDON WORKING PARTS



Notched

Ø 660 mm, 6 mm and 7 mm.thickness
Also possible in Ø 710 mm, 7 mm.thickness.



Plain

Ø 660 mm, 6 mm and 7 mm.thickness
Also possible in Ø 710 mm, 7 mm.thickness.

The Ø 660 mm discs are suitable for stubble cultivation or coarse preparation work.

The Ø 710 mm discs are intended for deeper restructuring work and work in the presence of a large volume of plants.



Straight tine

The straight tine provides a very good mixture and a total disruption of all soil horizons on the worked surface. It has a carbide point and you can choose between standard or carbide wings. The leg is protected by the point, which can be replaced by means of a pin. The leg is also protected by a shin.



Michel loosening tine

The Michel tine provides a deep soil restructuring without disturbing the soil horizon. The leg is protected by a counter-blade. This tine can be equipped with a standard or carbide bolted point, or a reversible share.

SAFETY DEVICES

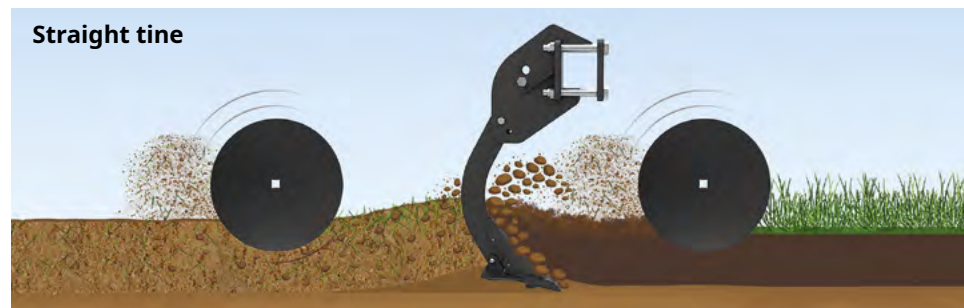


For stone-free conditions, the tines can be equipped with a shear bolt safety device that goes up to 4 895 kg of tip resistance.



For stony conditions, we recommend the hydraulic safety device with a 2310 kg resistance at the tip.

Straight tine



Michel loosening tine



REAR EQUIPMENT

Double Twin roller



Range Compatibility

Heavy soils

Medium soils

Light soils

Consolidation



Due to its wavy discs, it is driven throughout its stroke and allows the surface layer and residues to be cut to create openings to improve air circulation, water flow and break up the largest clods.

Roller with double notched discs



The roller with double notched discs slices, levels slightly and provides more lift to the ground. Inspired by the assembly of the Cover range disc gangs, it is extremely robust and leaves an impeccable finish.

Double spike roller



The double spike roller breaks up clods and mixes the top layer. Its use is a good step before preparing a seedbed. Ideal on sticky soils, the intertwinning of its peaks scraps the earth off the roller.



Helios
Sub-Soiler



Discordon
One-Pass Finisher



Suitable



No firming



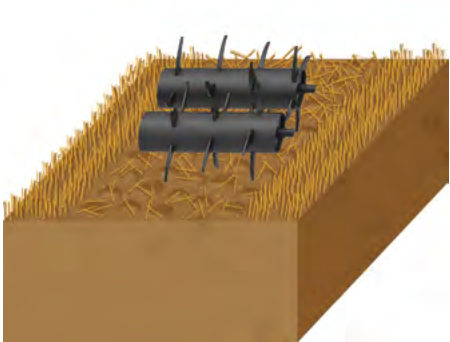
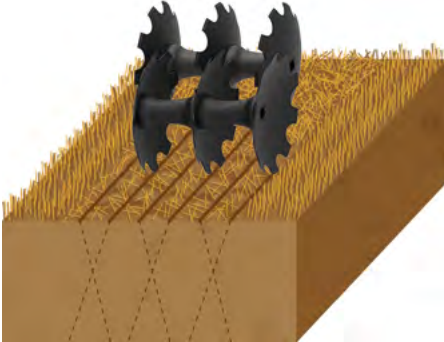
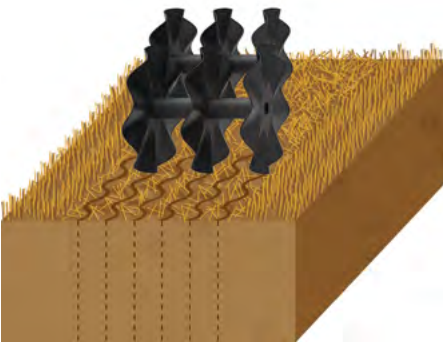
Some firming



Firming



Good firming



Ø 500 mm or Ø 900 mm single bar roller



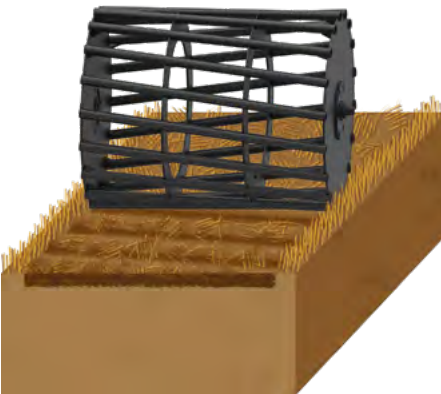
Aggressive on plant residues, this roller enables you to create a uniform mulch and accelerate stubble degradation while maintaining a good level of moisture in the soil. It is light and economical.



Ø 900 mm single bar roller



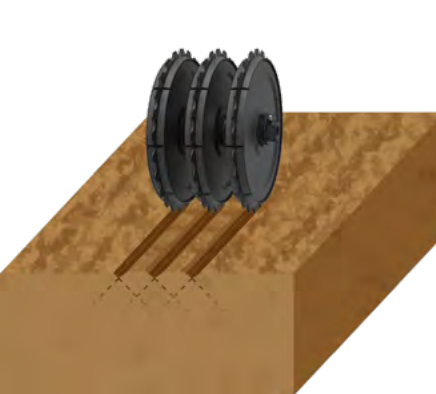
The Ø 900 single bar roller provides good depth control and an optimal finish on sandy or light soil conditions. To avoid a too fine finish on light soil, it has been designed with round bars for less aggressiveness and more lift



Ø 600 mm Emopak P Roller



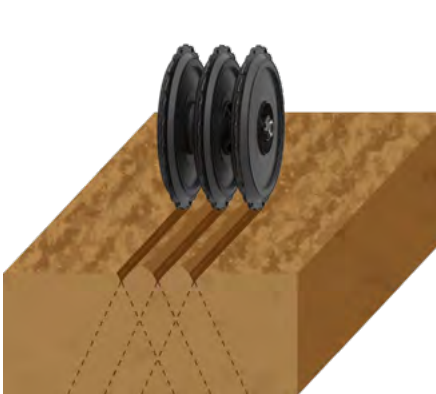
A heavy roller, the flat profile Emopak enables shallow compaction. It is ideal for self-seeding. It crushes clods and promotes seed bed preparation to germinate weeds.



Ø 600 mm or Ø 740 mm Emopak V Roller



This roller is made of flanged, V-shaped and notched wheels. The Emopak V's mass gives you good consolidation, resulting in an excellent in-line finish. For self-seeding, it offers perfect soil/seed contact. It excels on dry, stony and cloddy soils.



Service

Our commitment is to offer you a high quality and reliable service, to your satisfaction!

Training



We train our distribution network sales representatives and technicians in our GB Academy training centre.

From new ranges and innovations to the latest product developments, you can trust that your contact is trained in all aspects of the brand.

Demonstration



If an image is worth a thousand words, a demonstration is worth a thousand images.

With our demonstration service, we will guide you through each step of the buying process.

You can confirm your choice by testing the efficiency and strength of our equipment near you!

Contact our teams soon so we can guide you through your project!

Getting started



For your first start-up or for readjusting the settings, our technical team and network are nearby to help you.

Well-adjusted equipment is the key to efficiency and a long service life.

Find the tutorials at:
gregoire-besson.com on our services page, start-up.

Parts



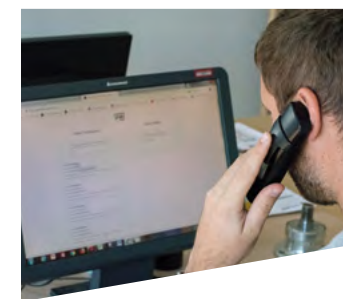
Original parts are designed together with the equipment by our engineers. The shapes, metal quality and settings are a guarantee of safety, traction optimization, economic fuel consumption and long service life of your equipment.

We provide a parts service with more than 7000 references in stock and 30 000 on the price list.

Our logistics platform enables us to ship several tons of parts every day worldwide.

You can find references, prices and weights at:
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After Sales Service



Do you have a question? Is there a problem?

Don't hesitate to get in touch with your dealer.

We will find a solution.

Under the 1-year manufacturer's warranty, we take care of the parts and labour involved.

Your equipment will be repaired quickly and you can concentrate on your work.

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GB Group FRANCE

Tél. +33 (0)2 41 64 72 67

2 rue Victor Grégoire
49230 Montfaucon Montigné
France

GB Group POLSKA & BALTICS

Tél. +48 61 297 75 30

Kowanówko ul.
Obornicka 1A
64-600 Oborniki
Polska

GB Group RUSSIA

Tél. +7 472 240-22-10

308006, г.Белгород
ул. Корочанская 132 А,
Russia

GB Group CANADA

Tél. +1 450-799-5615

5900B, rue Barré
Saint-Hyacinthe, QC J2R 1E4
Canada

GB Group EASTERN EUROPE

Tél. +36 30 373 9167

GB Group ITALIA

Tél. +39 0731 375970

Via dell'industria, 9-9/A-9/B
Monte Roberto (AN)
Italia

GB Group UKRAINE

Tél. +38 0472 712 823

18028, Україна, Черкаська обл., м.
Черкаси, вул. Рози
Люксембург, буд. 202.
Ukraine

GB Group CHINA

Tél. +86 1065 08 06 40

法国格力格尔-贝松公司 北京代表处
静里中街3号长信大厦220室
China

contact@gb-group.co

Our equipment range

Reversible mounted ploughs



Prima 50



Prima 70



Prima 80



Rover 40



Rover 50



Rover 60



Rover 70



Rover 80

Permium reversible mounted ploughs

Semi-mounted ploughs



Voyager S60



Voyager C60



Voyager S70



Voyager C80

Soil looseners



Helios Mono 60



Helios Duo 60



Helios Duo 70



Helios Duo 80



Helios Duo T80



Helios Duo T90



Helios Cracker 70



Helios Cracker 80

Clearing equipment



Explor T70



Explor T80



Explor T90

One pass finishers



Discordon 60

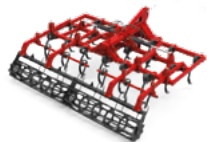


Discordon T70



Discordon T80

Light stubble tine harrows



Dekoflex 60

Stubble tine harrows



Crossland 50



Crossland 60



Crossland T60

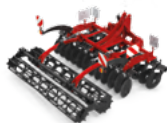


Crossland T70



Crossland T80

Disc harrows



Normandie 50



Normandie 60



Normandie T60



Normandie T70



Normandie T80

Shallow Stubble Cultivators



Occitan 50



Occitan 60



Occitan T60

Offset disc harrows



Cover V T50



Cover V T60



Cover X T60



Cover XL T60



Cover V T70



Cover X T70



Cover XL T70



Cover X T80



Cover XL T80



Cover XL T90

Soil consolidation



Planipack 50



Planipack 60



Planipack 70

Seed bed preparation equipment



Tetra 50



Tetra 60



Tetra 70



Tetra 80

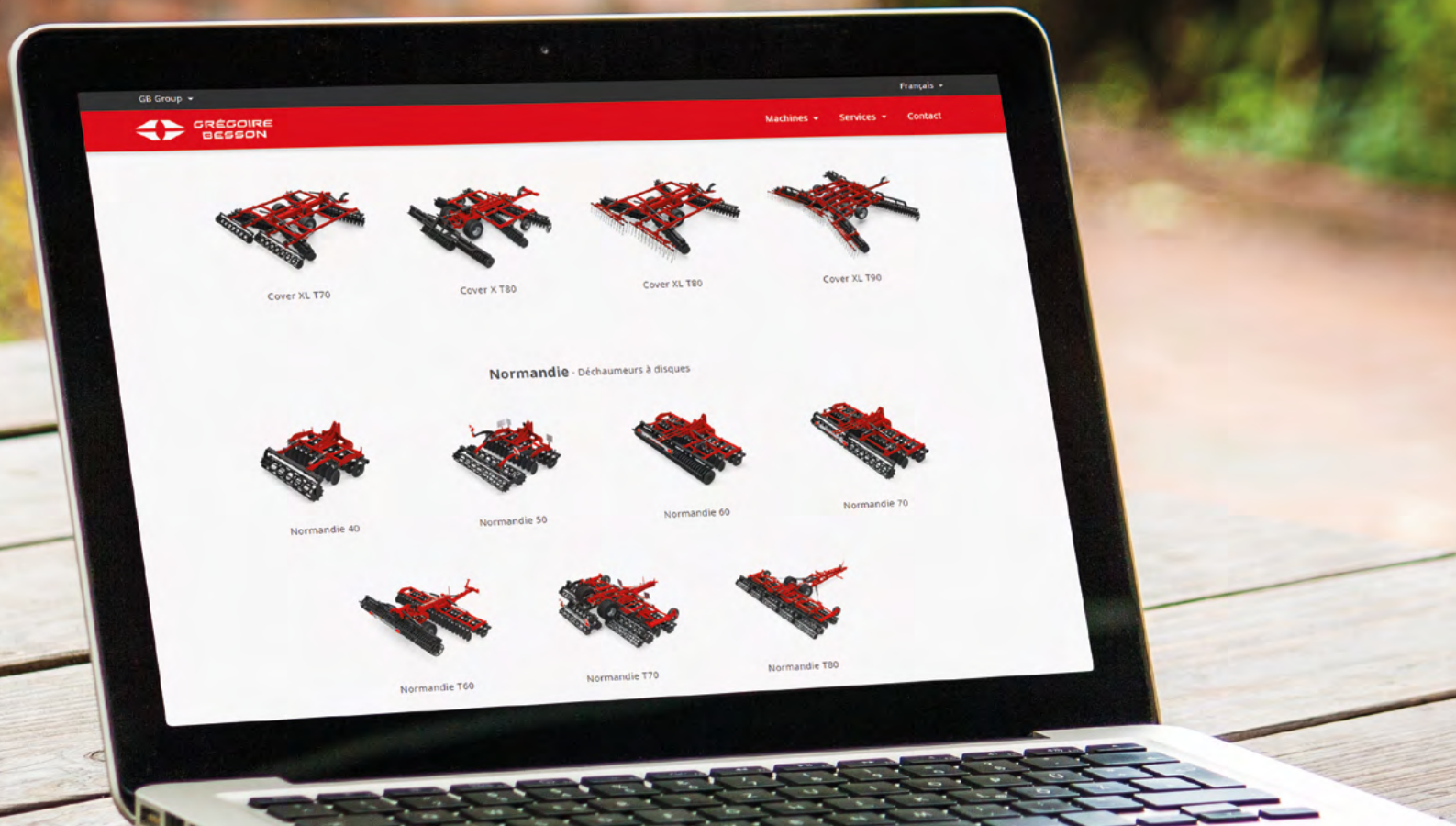


Ask for our brochures!

More than 60 machines are shown in 11 brochures.

4 functions, 6 segments

When you make your request, either online or to your sales representative, specify the type of cultivation you need and then choose your segment (40 50 - 60 70 - 80 90) according to the power of your tractor (see table p.5).



You can easily connect to gregoire-besson.com from your smartphone, tablet and computer



Specify the power of your tractor and learn about the products that are right for you



Come and browse through our ranges of Ploughs, Disc and Tine equipment



Check out our product videos



Configure your equipment with a few clicks and ask for a quote

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Configure your soil preparation equipment online!

Explore the full range of possible configurations and get a price quote with just a few clicks!

1

From the home page, choose the machine of your choice (or choose a product range from the «Machines» tab at the top right)!

2

On the product page, click on the link to access the tool configuration!

3

Start the configuration!
Begin by choosing the power of your tractor and then follow the next steps!

**START
THE CONFIGURATION**



**FOLLOW
THE
CONFIGURATION
STEPS**

YOUR CONFIGURATION IS FINISHED!

You can receive it by email, print it and ask for a quote.

	40	50	60	70	80	90
REVERSIBLE MOUNTED PLOUGHS	●	PRIMA 50	●	PRIMA 70 PRIMA P70	PRIMA 80	●
PREMIUM REVERSIBLE MOUNTED PLOUGHS	ROVER 40	ROVER 50	ROVER 60	ROVER 70	ROVER 80	●
SEMI-MOUNTED PLOUGHS	●	●	VOYAGER 560 VOYAGER C60	VOYAGER 570	VOYAGER C80	●
SUB-SOILERS	●	●	HELIOS MONO 60 HELIOS DUO 60	HELIOS DUO 70 HELIOS CRACKER 70	HELIOS DUO 80 HELIOS DUO T80 HELIOS CRACKER 80	HELIOS DUO T90
DISC HARROWS	●	●	●	EXPLOR T70	EXPLOR T80	EXPLOR T90
ONE PASS FINISHERS	●	●	DISCORDON 60	DISCORDON T70	DISCORDON T80	●
LIGHT STUBBLE TINE HARROWS	●	●	DEKOFLEX 60	●	●	●
CHISELS	●	CROSSLAND 50	CROSSLAND 60 CROSSLAND T60	CROSSLAND T70	CROSSLAND T80	●
DEEP STUBBLE CULTIVATORS	●	COVER V T50	COVER V T60 COVER X T60 COVER XL T60	COVER V T70 COVER X T70 COVER XL T70	COVER X T80 COVER XL T80	COVER XL T90
HIGH-CAPACITY STUBBLE CULTIVATORS	●	OCCITAN 50	OCCITAN 60 OCCITAN T60	●	●	●
SHALLOW STUBBLE CULTIVATORS	●	NORMANDIE 50	NORMANDIE 60 NORMANDIE T60	NORMANDIE T70	NORMANDIE T80	●
SEED-BED PREPARATORS	●	TETRA 50	TETRA 60	TETRA 70	TETRA 80	●
SOIL CONSOLIDATION	●	PLANIPACK 50	PLANIPACK 60	PLANIPACK 70	●	●

