

40 50 60 70 80 90





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

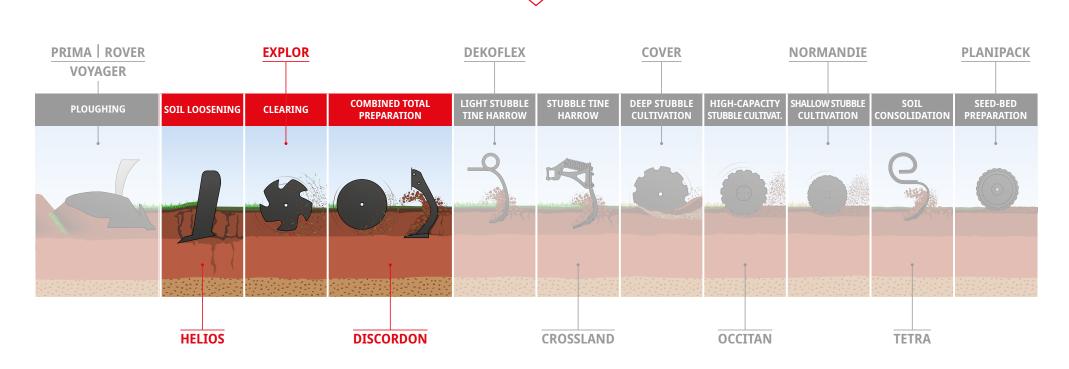


With our employees, 1 objective: customer satisfaction

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 **Sub-Soilers Disc Harrows One-Pass Finishers** Farm size **Tractor power** Cylinders Lifting capacity 50 to 85 HP





5T/6.5T

60

HELIOS MONO 60 HELIOS DUO 60

DISCORDON 60



125 to 210 HP 92 to 154 kW

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70

HELIOS DUO 70 HELIOS CRACKER 70

EXPLOR T70

DISCORDON T70







80

HELIOS DUO 80 HELIOS DUO T80 HELIOS CRACKER 80

EXPLOR T80

DISCORDON T80





310 to 400 HP 228 to 294 kW



O-EEEE

11.5T

90

HELIOS DUO T90

EXPLOR T90





400 to 600 HP 294 to 441 kW



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









EXPLOR

Disc Harrows





DISCORDON

One-Pass Finishers



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Accessories

Helios working parts	_ p.4
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Rear equipment	_ p.4
Servicing	_ p.5
Our product range	_ p.5



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 developped 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



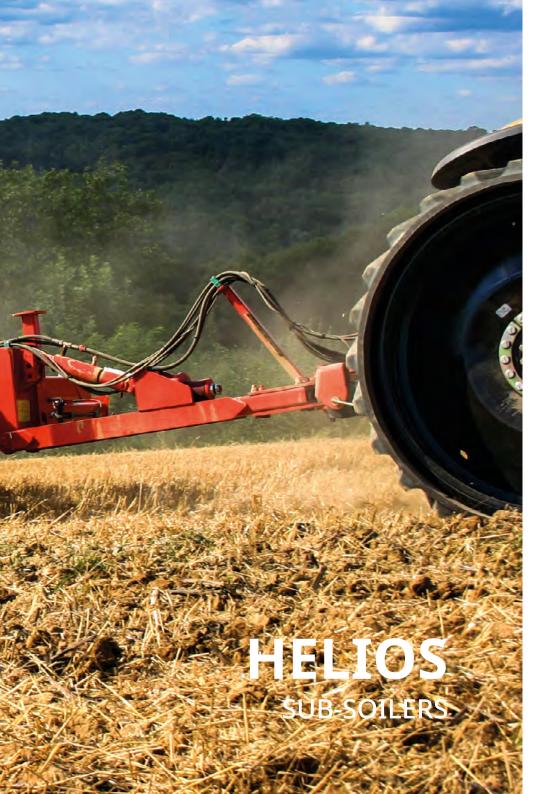
Tines and discs combination for deep work

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. $\label{eq:control}$







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 DUO 80

MOUNTED SUB-SOILER

6 to 10 tines - Tractors: 310 to 400 hp - Working width: 3.00 to 5.00 m



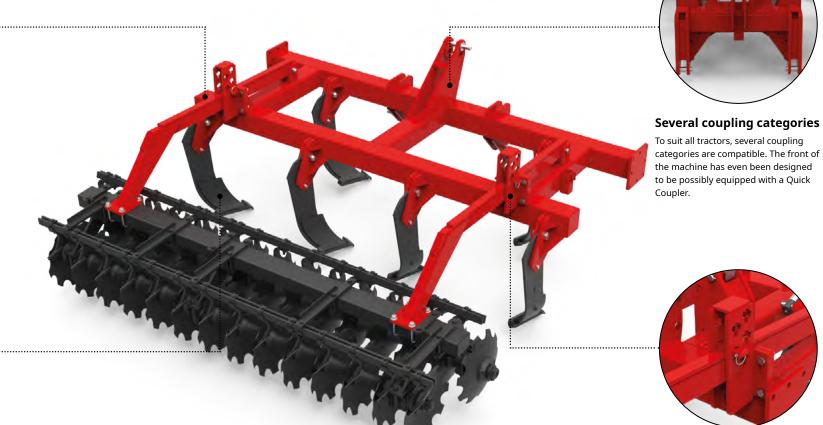
A high robustness

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



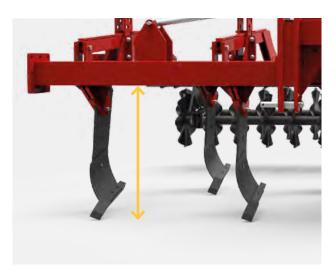
Two possible safety devices

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



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.



Optimised size

The machine folded in two parts is 3.00 m wide. This means you can travel safely on the roads. The two-part kinematics allows you to unhook the folded machine and thus optimise the space under your building.



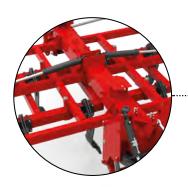


	HELIOS DUO 80 TECHNICAL SPECIFICATIONS			
Working width (m)	3.00	4.00	5.00	
Tractor power (HP) Tractor power (kW)	310 / 350 228 / 257	320 / 380 235 / 279	330 / 400 243 / 294	
Transport width (m)	3.00	4.00	5.00	
Transport height (m)		1.80		
Indicative weight without roller (kg)	1 100 1 250 1 650			
Yoke hitch type (Cat.)	3 - 4N			
Chassis version	Fixed mounted			
Number of tines	6	8	10	
Tine model	Michel loosening tine			
Leg protection	Standard without carbide / Option carbide			
Тір	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)	850			
Tine safety system	Shear bolt			
Roller adjustment	Mechanical			
Rear equipment (mm)	Rollers : Single bar Ø 500 or Ø 600 / Option Double twin with wavy discs Ø 510 / Double with notched discs Ø 510			
Depth control	Standard roller / Option stabilising wheels			
Stabilising wheels	Standard without / Option two wheels 10/75x15.3			
Max. working depth (mm)	450			
Road traffic lights	As standard			

HELIOS DUO T80

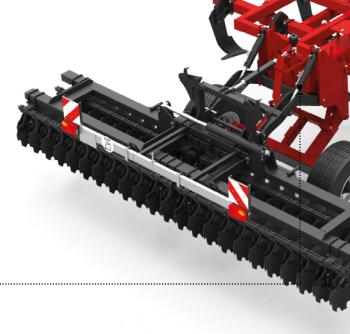
MOUNTED SUB-SOILER

8 to 10 tines - Tractors: 310 to 400 hp - Working width: 4.00 to 5.00 m



Single beam frame

Robustness is achieved by the design of the single beam chassis in 300x300x10 mm. It allows the tractive effort to be transmitted to the tines, to resist foreign bodies and the hardness of the soil due to the climatic hazards present on the ground.



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.



3-point rear lifting

The roller is coupled to the machine via a 3-point linkage, so that it can be uncoupled if necessary. This linkage is hydraulically adjustable to set the working depth. A scale shows your position.



Easy adjustment

For a perfect work and a well levelled field, the machine must be parallel to the ground. This is achieved by adjusting the drawbar cylinder and the depth of the roller using the two hydraulic cylinders



Wide underbeam clearance

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

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



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.



Hitches for all applications

We offer a wide choice of couplings corresponding to the tractor categories. We have la 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.



Choosing the right wearing parts

The original part increases your performance, because it has been designed to have a good penetration, reduced fuel consumption, but also good wear of the working parts. Depending on the nature of your soil, we offer several types of parts. If you have clay or limestone soils, forged parts are suitable. To increase the life of your parts, when working on sandy or abrasive soils, we have a range of carbide points and wings.



Several tyres

The trailed Helios can be fitted with 3 different tyres. They ensure a maximum stability on the road and at the headland. The 2 low pressure premium tyres benefit from a technology that prevents your headlands from compaction.



Optional stabilising wheels

For an ever more regular work, stabilising wheels are available. The two 10.0/75x15.3 front wheels control the suction of the tines which continuously pull the machine towards the ground.





	HELIOS DUO T80 TECHNICAL SPECIFICATIONS			
Working width (m)	4.00	5.00		
Tractor power (HP) Tractor power (kW)	310 / 360 228 / 265	340 / 400 250 / 294		
Transport width (m)	2.90			
Transport height (m)	2.40	2.90		
Indicative weight without roller (kg)	3 860	4 360		
Yoke hitch type (Cat.)	Standard: hitch on arm cat 3N / Option: hitch on arm cat 3 / Cast	ring ball joint: Ø 45 mm - Ø 55 mm - Ø 65 mm - Scharmüller K80		
Chassis version	Foldable into 2 parts			
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)	850			
Tine safety system	Standard shear bolt / Option hydraulic			
Roller adjustment	Hydraulic			
Tyres	Standard 385/65x22.5 (Ø 1072 mm) / Option 500/45x22.5 (Ø 1021 mm) - 600/50x22.5 (Ø 1171 mm)			
Freinage	Standard hydraulic / Option tyre			
Passerelle pour semoir	Not available			
Depth control	Roller or wheels			
Stabilising wheels	Standard without / Option 2 wheels 10.0/75x15.3			
Roller adjustment	Hydraulic			
Rear equipment (mm)	Standard without / Option double notched discs			
Working depth (mm)	450			
Road traffic lights	Standard			

HELIOS DUO T90

MOUNTED SUB-SOILER

12 to 14 tines - Tractors: 400 to 550 hp - Working width: 6.00 to 7.00 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.



3-point rear lifting

The roller is coupled to the machine via a 3-point linkage, so that it can be uncoupled if necessary. This linkage is hydraulically adjustable to set the working depth. A scale shows your position.



Twin beam frame

The robustness is due to the 250x150x10 mm twin beam frame. It allows the tractive effort to be transmitted to the tines and resists foreign bodies and the hardness of the soil.



Easy adjustment

For a perfect work and a well levelled field, the machine must be parallel to the ground. This is achieved by adjusting the drawbar cylinder and the depth of the roller using the two hydraulic cylinders



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

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



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.



Hitches for all applications

We offer a wide choice of couplings corresponding to the tractor categories. We have la 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.



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.



Premium tyre

This low pressure tyre benefits from a technology that prevents your headlands from compaction. It ensures a maximum stability on the road and at the headlands.



Optional stabilising wheels

For an ever more regular work, stabilising wheels are available. The two 10.0/75x15.3 front wheels control the suction of the tines which continuously pull the machine towards the ground.





	HELIOS DUO T90 TECHNICAL SPECIFICATIONS			
Working width (m)	6.00	7.00		
Tractor power (HP) Tractor power (kW)	400 / 500 294 / 368	450 / 550 331 / 404		
Transport width (m)	3.10			
Transport height (m)	3.60	4.10		
Indicative weight without roller (kg)	6 100	6 300		
Yoke hitch type (Cat.)	Standard: hitch on arm cat 3N / Option: hitch on arm cat 3 / Cast ring ball joint: Ø 45 mm - Ø 55 mm - Ø 65 mm - Scharmüller K80			
Chassis version	Foldable into two parts			
Number of tines	12 14			
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)	850			
Tine safety system	Standard shear bolt / Option hydraulic			
Roller adjustment	Hydraulic			
Tyres	Standard 600/50x22.5 (Ø 1171 mm)			
Freinage	Standard hydraulic / Option tyre			
Passerelle pour semoir	Not ava	ailable		
Depth control	Roller or wheels			
Stabilising wheels	Standard without / Option 2 double wheels 10.0/75x15.3			
Roller adjustment	Hydraulic			
Rear equipment (mm)	Standard without / Option double notched discs			
Working depth (mm) max.	450			
Road traffic lights	As standard			

HELIOS CRACKER 80

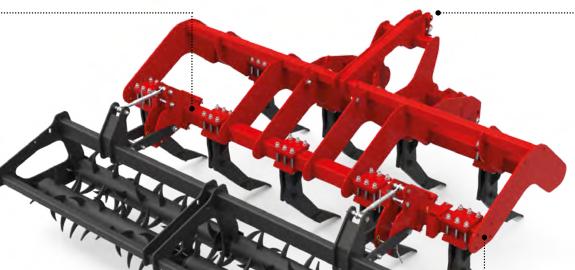
MOUNTED SUB-SOILER

9 to 11 tines - Tractors: 300 to 415 hp - Working width: 4.00 to 5.00 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 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 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.



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

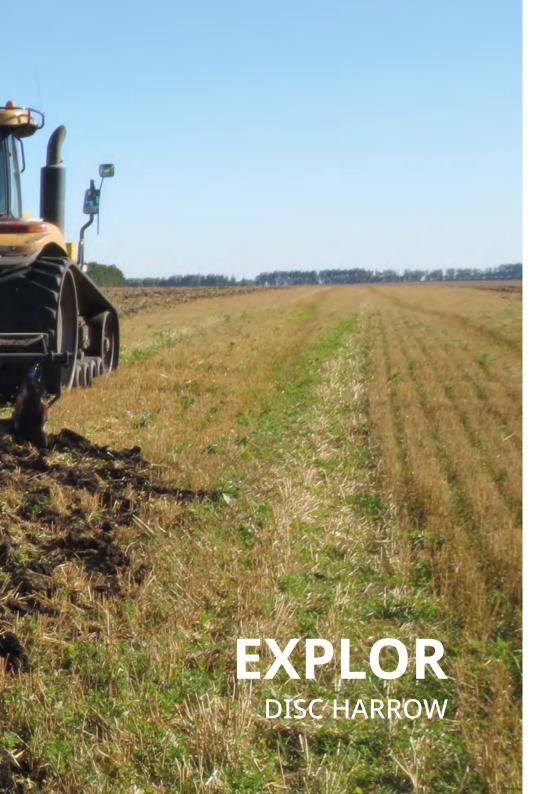
The working depth is flexible and can be adjusted by setting hydraulically the roller depth. Adjustment is carried out from the cab in complete simplicity and safety for the driver





	HELIOS CRACKER 80 TECHNICAL SPECIFICATIONS			
Working width (m)	4.00	5.00		
Tractor power (HP) Tractor power (kW)	300 / 370 220 / 272	340 / 415 250 / 305		
Transport width (m)	4.00	5.00		
Transport height (m)	2.20			
Indicative weight without roller (kg)	3 321	3 959		
Yoke hitch type (Cat.)	3 - 4N			
Chassis version	Rigid mounted frame			
Number of tines	9			
Tine model	Cracker tine			
Leg protection	Standard			
Tip	Standard reversible point / Option non reversible			
Spoiler (mm)	Standard without / Option wings			
Spacing between tines (mm)	444	454		
Spacing between tine rows (mm)	960			
Under frame clearance (mm)	920			
Tine safety system	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 2 wheels 10.0/75x15.3			
Working depth (mm) max. (mm)	600			
Road traffic lights	Standard			





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.



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.



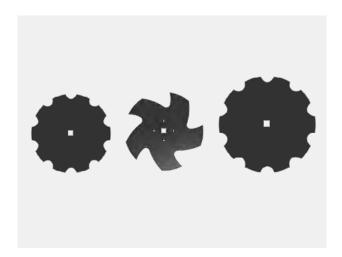
Suspended wheel axle

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.



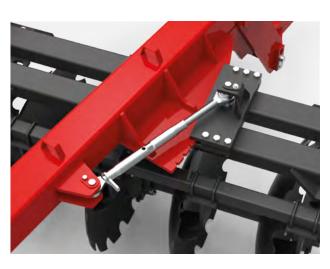
Several disc types

Two models are available, notched (in \emptyset 810 mm and \emptyset 910 mm) and flailed (in \emptyset 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.



Drawbar cylinder protection

Clearing conditions are very harsh and often tend to make the equipment suffer. Steel guards have been adapted to prevent the drawbar cylinders hydraulic , which are used for adjustments, from being damaged by stumps or roots.



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.



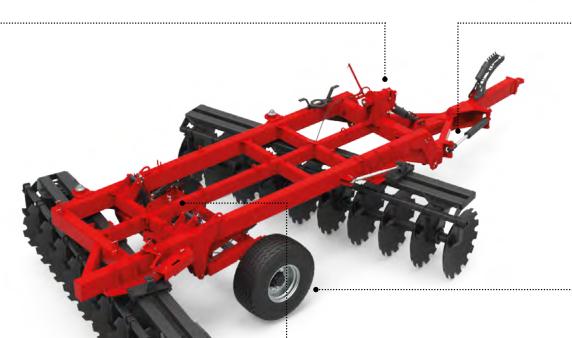


	EXPLOR T80 TECHNICAL SPECIFICATIONS				
Working width (m)	2.80	3.30	3.70	4.30	4.80
Tractor power (HP) Tractor power (kW)	300 / 350 220 / 257	320 / 370 235 / 272	340 / 390 250 / 287	360 / 410 265 / 301	380 / 430 279 / 316
Transport width (m)	2.80	3.30	3.70	4.30	4.80
Transport height (m)			1.90		
Indicative weight (kg)	5 303	6 000	6 270	6 570	6 870
Yoke hitch type (Cat.)		Forged ball r	ring: Ø 35 mm - Ø 45 mm - Ø 55 m	m - Ø 65 mm	
Chassis version			Fixe		
Disc number	12	14	16	18	20
Shaft diameter (mm)	60				
Disc diameter (mm)	Standard Ø 1 020 notched / Option Ø 910 notched				
Disc thickness (mm)	12				
Disc spacing (mm)			500		
Under frame clearance (mm)			1500		
Working depth (mm) max. (mm)			450		
Safety of the working element	Chaise fixe				
Disc angling adjustment		Standard mechan	ical / Option hydraulic rear / hydra	ulic front and rear	
Stabilising wheels			Not available		
Tyres	Standard 18R22.5 (Ø 1 150 mm)				
Braking system	Standard hydraulic / Option without				
Footbridge for seed drill	Without				
Hectare counter	Without				
Roller adjustment	-				
Rear equipment (mm)	Sans				
Road traffic lights			Standard		



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.

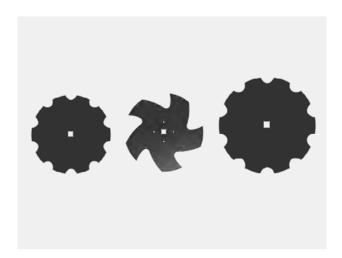


racabin, on roads or on pathways, we have added nitrogen accumulators. They provide suspension to the wheel axle and limit the forces on the tractor hitch. This equipment extends the life of your machine.



Adapted wheels

Several wheel sizes are available to choose the most suitable diameter for the requested work. For clearing needs we have forestry tyres with very resistant casings.



Several disc types

Two models are available, notched (in \emptyset 810 mm and \emptyset 910 mm) and flailed (in \emptyset 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.



Drawbar cylinder protection

Clearing conditions are very harsh and often tend to make the equipment suffer. Steel guards have been adapted to prevent the drawbar cylinders hydraulic , which are used for adjustments, from being damaged by stumps or roots.



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.







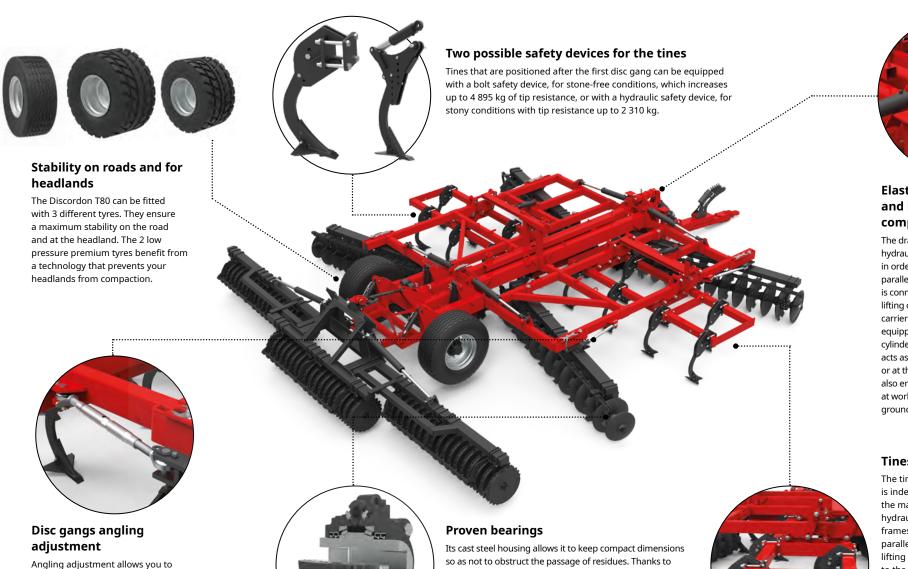
All in a single pass

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

DISCORDON T80

SEMI-MOUNTED ONE-PASS FINISHER

44 to 56 discs, 11 to 15 tines - Tractors: 310 to 600 hp - Working width: 5.70 to 7.20 m



the triple barrier of the braid and the two outward facing

seals, excess grease can escape but dust and debris do not

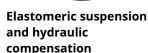
An optional bearing protection is available for worn or stony

soils. The bearings are protected from shocks and rubbing

enter. This system ensures a long service life and reduces

maintenance times.

against the ground.



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.

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.

the length of the tie rod.

adjust the aggressiveness of the discs

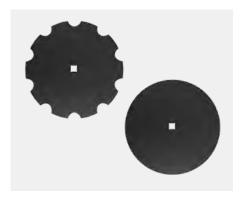
and thus increase or decrease the

penetration capacity of the tool. The

adjustment is mechanical by changing

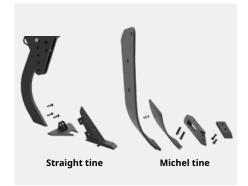
DISCORDON T80

SEMI-MOUNTED ONE-PASS FINISHER



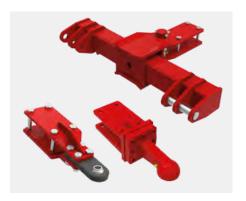
Wide choice of discs

Several disc types are available. We offer two models, one notched and one plain, to 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 la 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.

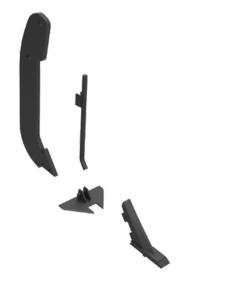




SEMI-MOUNTED ONE-PASS FINISHER

		DISCORDON T80 TEC	HNICAL SPECIFICATIONS	
Working width (m)	5,70	6,20	6,70	7,20
Tractor power (HP) Tractor power (kW)	310 / 400 228 / 294	370 / 460 272 / 338	430 / 520 316 / 382	490 / 600 360 / 441
Transport width (m)		3,	00	
Transport height (m)	3.65	3.90	4.15	4.40
Yoke hitch type (Cat.)	On arms: 3	- 4N - 4 - Quick coupler / Forged ball ring	g: Ø 45 mm - Ø 55 mm - Ø 65 mm / Scharı	müller K80
Chassis version		Foldable into two pa	rts / three part roller	
Disc number	44	48	52	56
Tine number	11	1	3	15
Disc diameter (mm)	Standard Ø 660 /	Option Ø 710	Ø	660
Disc thickness (mm)		Standard 6	5 / Option 7	
Disc spacing (mm)		2	70	
Size of square shaft for disc gang (mm)	Standard 40 /	Option 50	2	40
Tine spacing (mm)		5	00	
Under frame clearance (mm)		8	00	
Working depth (mm) max. (mm)		Discs: 200	/ Tines: 400	
Safety of the working parts		Discs: Rigid bearing support / Tin	es: Shear bolt - Non stop hydraulic	
Compensation on drawbar		Hydı	raulic	
Hydraulic function selector		Standard: 2 functions	s / Option: 3 functions	
Tyres	Standa	rd 18R22.5 (Ø 1191 mm) / Option 600/5	0R22.5 (Ø 1170 mm) - 710-40/22.5 (Ø 1405	5 mm)
Braking system		Standard hydra	ulic / Option tyre	
Seeder support		Ор	tion	
Footbridge for seed drill		Ор	tion	
Hectare counter		Ор	tion	
Roller adjustment		Hydi	raulic	
Rollers (mm)		Simple bars Ø 600 / Simple bars Ø 90	0 / Emopak V Ø 600 / Emopak P Ø 600	
Road traffic lights		Stan	dard	

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.



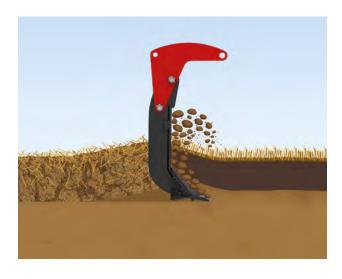
Michel loosening tine

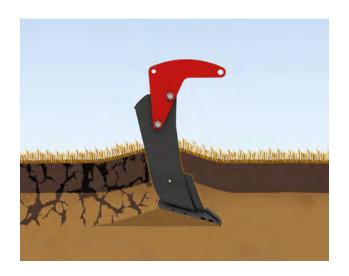
The Michel tine provides a deep soil restructuring without disturbing the soil horizon. The leg is protected by a a counter-blade. This tine can be equipped with a standard or carbide bolted point, or a reversible share.



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

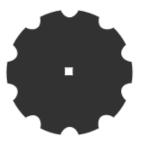
For stony condtions, we recommend the hydraulic safety device with an adaptable resistance at the tip.







EXPLOR WORKING PARTS



Notched Ø 810 mm, épaisseur 10 mm.

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

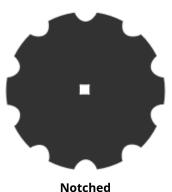


Flailed Ø 810 mm, épaisseur 10 mm.

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

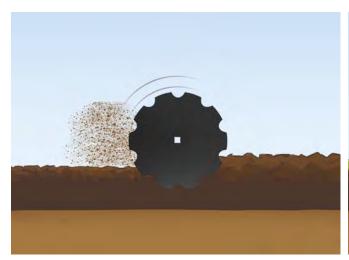


Ø 910 mm, épaisseur 12 mm.

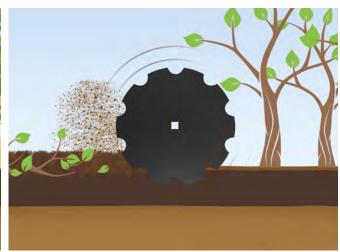


Ø 1 020, épaisseur 12 mm.

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.







DISCORDON WORKING PARTS



Notched

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



Plain

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

The \emptyset 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 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.





REAR EQUIPMENT

Double Twin roller



Roller with	double notched discs









Heavy soils

Medium soils

Light soils

Consolidation

- 1	
4	







J	•	>







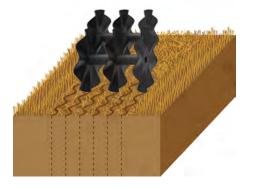
The d

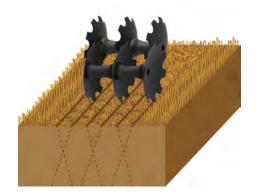
The roller with double notched discs slices, levels slightly and provides more lift to the ground. Inspired by the assembly of the Cover range disc gangs, the it is extremely robust and leaves an impeccable finish.

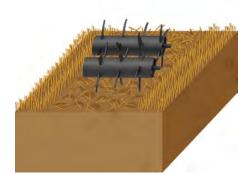
The double spike roller breaks up clods and mixes the top layer. Its use is a good step before preparing a seedbed. Ideal on sticky soils, the intertwinning of its peaks scraps the earth off the roller.

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.









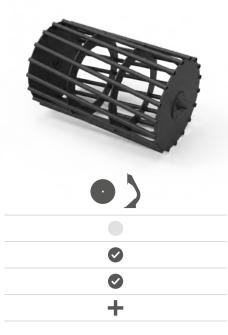
Good firming

Ø 500 mm or Ø 900 mm single bar roller

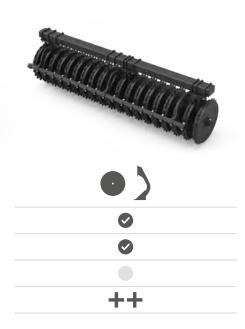


Aggressive on plant residues, this roller enables you to create a uniform mulch and accelerate stubble degradation while maintaining a good level of moisture in the soil. It is light and economical.

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

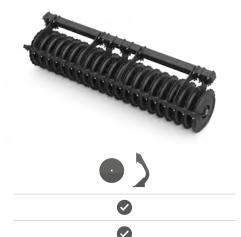


Ø 600 mm Emopak P Roller

A heavy roller, the flat profile Emopak enables shallow compaction. It is ideal for self-seeding.

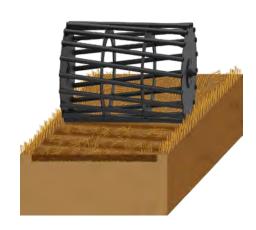
It crushes clods and promotes seed bed preparation to germinate weeds.

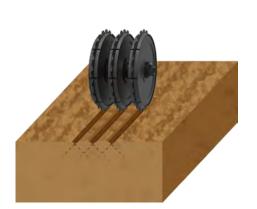
Ø 600 mm or Ø 740 mm **Emopak V Roller**

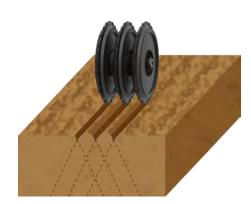


This roller is made of flanged, V-shaped and notched wheels. The Emopak V's mass gives you good consolidation, resulting in an excellent in-line finish. For self-seeding, it offers perfect soil/seed contact. It excels on dry, stony and cloddy soils.











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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 60



Occitan T60

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Cover V T50



Cover V T60



Cover X T60



Cover XL T60



Cover V T70



Cover X T70



Cover XL T70



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Cover XL T80

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Planipack 50



Planipack 60



Planipack 70

Seed bed preparation equipment



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Tetra 60



Tetra 70



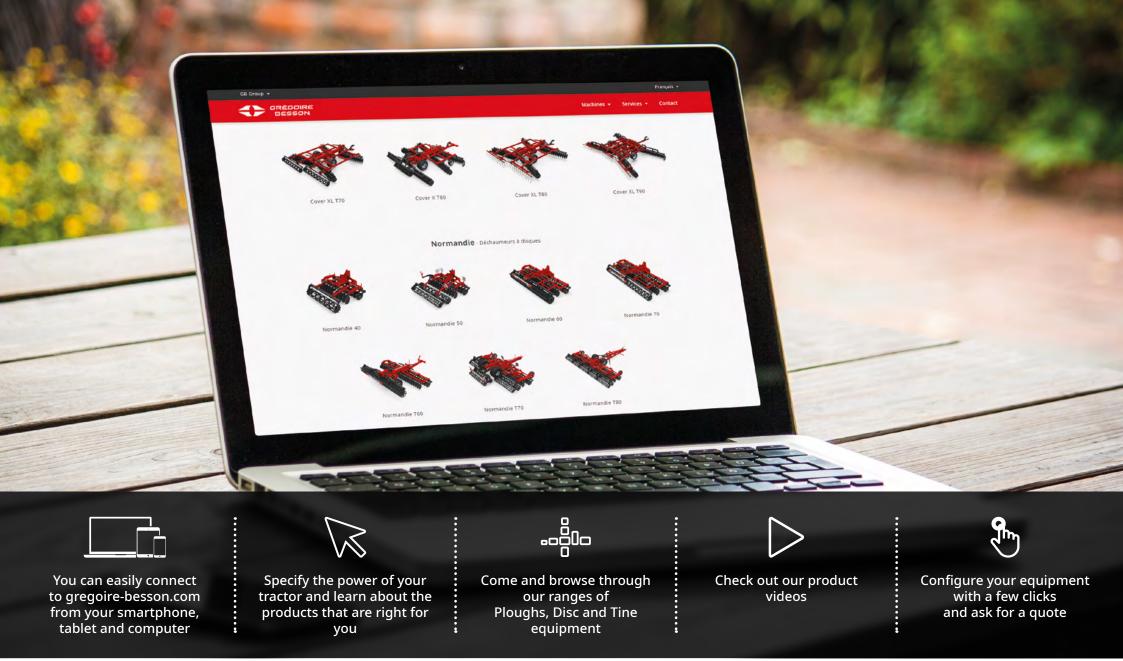


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DISC HARROWS	•	•	•	EXPLOR T70	EXPLOR T80	EXPLOR T90
ONE PASS FINISHERS	•	•	DISCORDON 60	DISCORDON T70	DISCORDON T80	•
LIGHT STUBBLE TINE HARROWS	•	•	DEKOFLEX 60	•	•	•
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SHALLOW STUBBLE CULTIVATORS	•	NORMANDIE 50	NORMANDIE 60 NORMANDIE T60	NORMANDIE T70	NORMANDIE T80	•
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