



GRÉGOIRE  
BESSON



40 50 60 70 **80 90**

Ploughing



Soil restructuring



Stubble tillage



Soil preparation



[gregoire-besson.com](http://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*



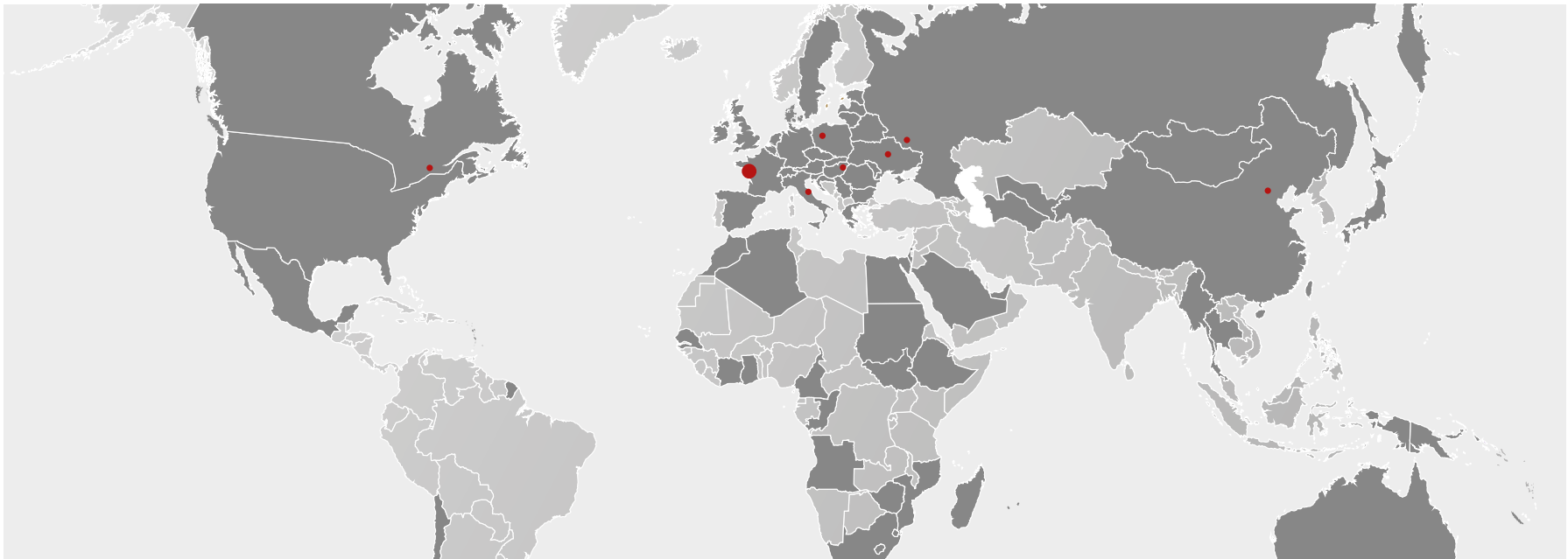
# GB Group

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

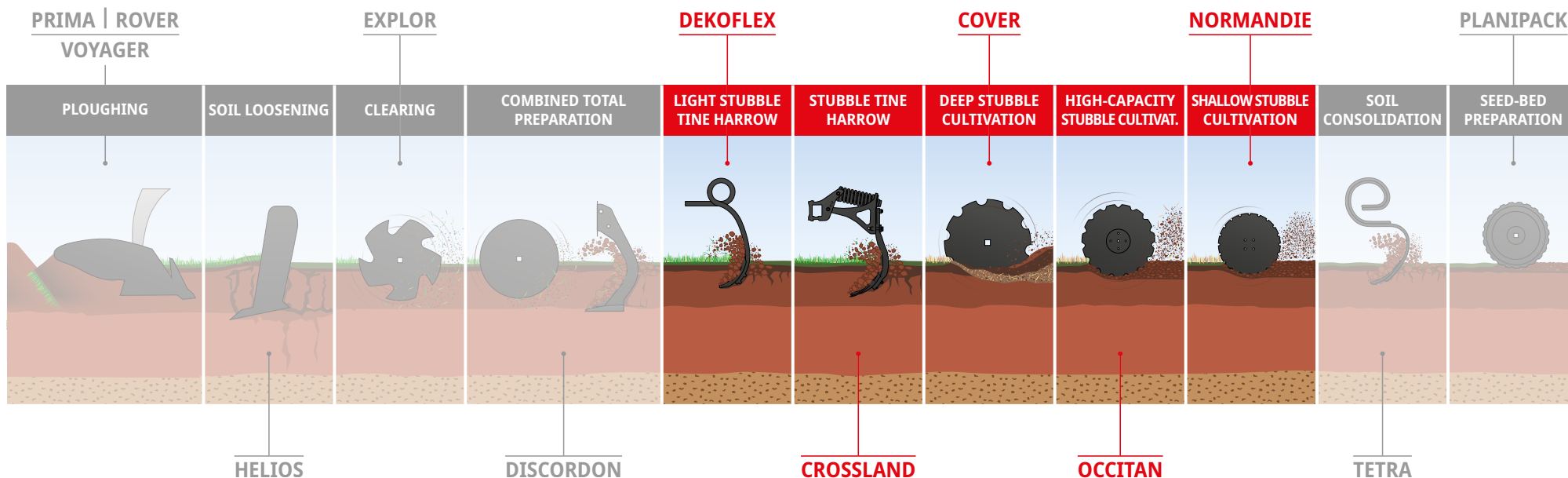


## With our employees, 1 objective: customer satisfaction

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



## 5 STUBBLE CULTIVATOR RANGES TO MEET YOUR NEEDS

### DEKOFLEX

A simple and economical light tine stubble cultivator.

### CROSSLAND

The stubble tine harrow with the lowest cost per hectare on the market.

### COVER

The solution for scalping, separating dense root systems and creating a mulch with large volumes of plant waste.

























### OCCITAN

High weight per disc ratio and mechanical non-stop safety.

### NORMANDIE

Fast stubble tillage and ultra-simple maintenance.

# A simple range

Index	40	50	60	70	80	90
Light stubble tine harrow	•	•	DEKOFLEX 60	•	•	•
Subble tine harrow	•	CROSSLAND 50	CROSSLAND 60 CROSSLAND T60	CROSSLAND T70	CROSSLAND T80	•
Deep stubble cultivator	•	COVER V T50 COVER X 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 cultivator	•	OCCITAN 50	OCCITAN 60 OCCITAN T60	•	•	•
Shallow stubble cultivator	•	NORMANDIE 50	NORMANDIE 60 NORMANDIE T60	NORMANDIE T70	NORMANDIE T80	•
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 21<sup>st</sup> 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

## CROSSLAND

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### Stubble tine harrow



Crossland T80 \_\_\_\_\_ p.12

## COVER

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### Offset harrow



Cover X T80 \_\_\_\_\_ p.18



Cover XL T80 \_\_\_\_\_ p.22

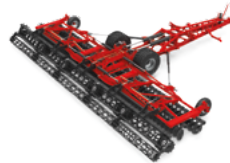


Cover XL T90 \_\_\_\_\_ p.26

## NORMANDIE

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### Stubble disc harrows



Normandie T80 \_\_\_\_\_ p.32

### Accessories

- Crossland working parts \_\_\_\_\_ p.36
- Normandie and Cover Discs \_\_\_\_\_ p.37
- Rear equipment \_\_\_\_\_ p.38
- Servicing \_\_\_\_\_ p.42
- Our product range \_\_\_\_\_ p.44

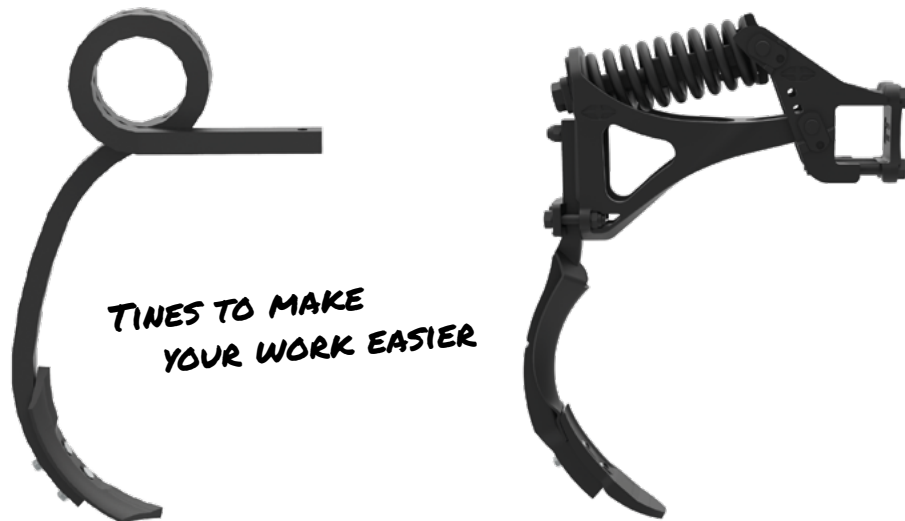


## **We are committed to respecting the environment**

Weeds and pests are controlled with soil preparation tools. Our product lines meet your most demanding needs.

# Which one? Tine or disc tools?

Tines can work from 2 to 35 cm deep. This type of tool is suitable for work with small amounts of plant residue. For surface work, using goose shares, it is ideal for second passes after harvest for the destruction of new growth.



At intermediate depths, it is ideal for accelerating residue decomposition by mixing the different profile elements. Used at a depth of 35 cm, it enables profile restructuring to compensate for extreme weather events.

For weeding, the stubble tine harrow destroys perennials by depletion and extraction. Extracting, along with following harrows, separates soil from roots for total destruction.

## Various working depths from 2 to 35 cm

Vary the working depth, the number of passes and the attachments of a single machine and achieve different finishes.



Stubble cultivation



Deep tillage



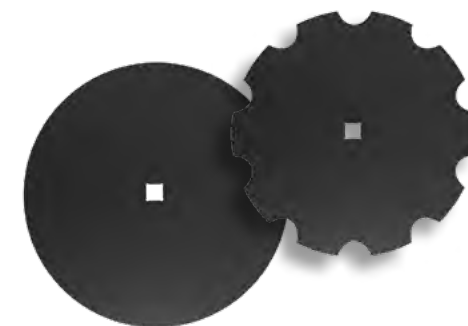
Ploughing back



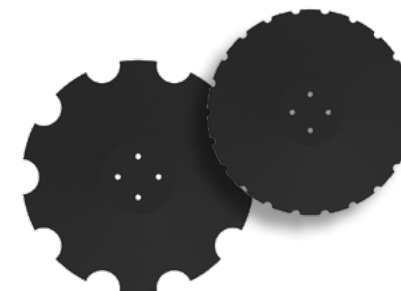
Seed bed preparation

Stubble tillage using disc tools is ideal for the first pass after harvest. It cuts up residues, putting them in contact with the soil to begin decomposition.

Be careful, you need to be familiar with the plant species that you want to destroy. Disc tools are not recommended for the destruction of perennials such as thistle, bindweed or rumex.



*THE LARGEST CHOICE OF DISCS ON THE MARKET*

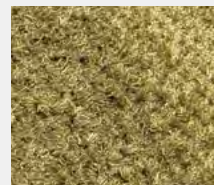


Stubble disc harrows promote the destruction of post-harvest pests.

The shallow working depth promotes self-seeding, which helps to deplete the weeds in the soil. Disc tools can work at depths of up to 20 cm.

## Various working depths from 2 to 20 cm

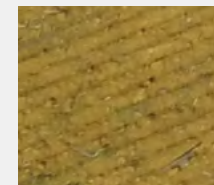
Produce different finishes according to soil, working conditions and your disc harrow attachments.



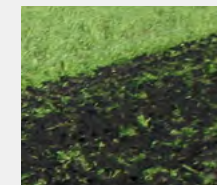
Stubble cultivation



Ploughing back



Seed bed preparation



Destruction of complex root systems





# CROSSLAND

## STUBBLE TINE HARROWS

### **Reliable and economical**

*Stubble harrow range with unparalleled performance.*

*Spacing between tines - the key to reduced fuel consumption and precision work.*

# CROSSLAND T80

SEMI-MOUNTED STUBBLE TINE HARROW

27, 31 or 35 tines - Tractors: 290 to 420 hp - Working width: 6.20 to 8.05 m



## Single point depth control

Working depth control is very straightforward. Simply modify the yellow stop to limit the lowering of the wheel cylinders and thus vary the depth of the tines in the ground. A graduated depth control scale visible from the cab.



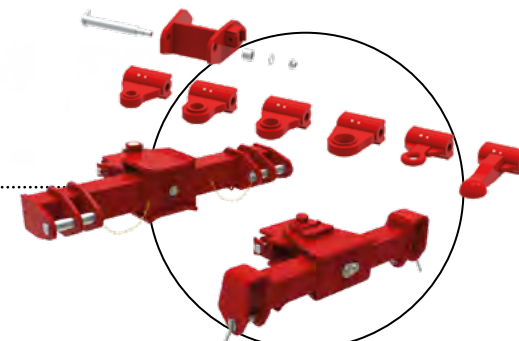
## Wide choice of tips

A wide range of tips is available, designed to work from 2 to 35 cm deep. Goose shares are ideal for shallow work, they work up to 5 cm for effective weed scalping. Standard and carbide tips are useful for heavy duty work. With our tips, we can work with spoilers to cut root systems. The Dart spoiler tips on the left can be used with deflectors to improve soil/plant mixing over the entire working depth.



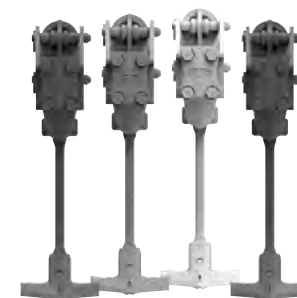
## Depth control by wheels

The working depth is controlled by the machine's bogie wheels. Their flexibility of movement and large wheel diameters provide you with exceptional field contour following. This is important for work in wet and/or sticky conditions because the system enables you to work with or without a roller.



## Suitable hitching

We offer a wide range of double cone hitchings for drawbar couplings, designed to tolerate movements up to 15°. A linkage pin ring is available. To improve manoeuvrability, we have a choice of two coupling arms, depending on the category you need.



## Tine spacing

The Crossland has a tine spacing of 230 mm, which creates small bands of soil resulting in finer surface work. This choice is more economical as less pulling power is needed, resulting in better fuel consumption. This concept also means it is easier to level the ground as fewer ridges are created.



### Perfect field contour following

Depth control wheels are mounted on a bogie to improve field contour following. It enables you to pass over various obstacles that may be present in the fields such as stones, holes or bumps. Articulation on the road is also very easy because the machine is always stable.



### Depth wheel on lateral supports

In addition to the central chassis bogie wheels, on this model we have added wheels to improve stability for the lateral supports. A single wheel on each lateral support increases depth control as well as productivity.

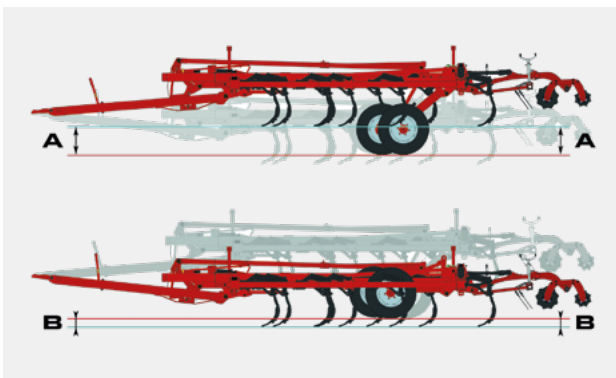


Shear bolt safety

Auto-reset spring safety

### Choice of two safety systems

We offer two safety systems to adapt to your type of soil. We recommend the shear bolt safety system if you do not have stony and/or hard soils. On the other hand, the auto-reset spring safety system is more appropriate if you have significant stones in your fields.



### Parallelogram design

A special feature of the Crossland is its parallelogram lifting system. Its cylinders, using a master-slave design, ensure perfect machine lifting. This concept makes it easier for you to adjust. It is carried out in a single movement by means of a hydraulic stop. You can also work without a stop in order to vary the working depth continuously. This unique design transfers the load onto the drawbar to optimize traction and your tractor's fuel consumption.



### Levelling

The hockey stick blade picks up the flow of soil from the tooth to cover the hole and have a perfectly levelled floor. It is equipped with a non-stop safety device with the spring steel curve on its upper part. They are mounted with a parallelogram system to have the same working angle according to the depth. Finally, the levelling adjustment is combined with the roller depth adjustment for greater efficiency.



### Rear equipment

Three types of rear rollers are available according to your needs: square bar rollers for a simple solution, double bar rollers for surface crumbling, and the Impak roller, ideal for self-seeding. This enables good soil consolidation.

Finally, you can choose a triple following harrow to accelerate the destruction of weed root systems.



## CROSSLAND T80 TECHNICAL SPECIFICATIONS

	6.20	7.15	8.05
<b>Working width (m)</b>			
<b>Tractor power (HP)</b> <i>Tractor power (kW)</i>	<b>290 / 340</b> 213 / 250	<b>300 / 380</b> 220 / 279	<b>310 / 420</b> 228 / 309
<b>Transport width (m)</b>	3,00		
<b>Transport height (m)</b>	4,00	4,25	4,50
<b>Approximate weight with single bar roller Ø 500 (kg)</b>	5 489	6 126	6 800
<b>Yoke hitch type (Cat.)</b>	Double conical ring: Ø 35 mm - Ø 55 mm - Ø 65 mm / Option: arms CAT 3N - 3 / Scharmüller Ø 80 mm		
<b>Chassis version</b>	Semi-mounted be folded in three parts		
<b>Number of tines</b>	27	31	35
<b>Deflector</b>	Optional: Double mix / Universal (only with 'Dart' tip)		
<b>Tip</b>	Reversible TH / Optional: TH carbide, cast Dart, carbide Dart, goose share		
<b>Spoiler (mm)</b>	Option (254)		
<b>Tine spacing (mm)</b>	230		
<b>Spacing between tines in a row (mm)</b>	920		
<b>Spacing between tine rows (mm)</b>	800 à 1000		
<b>Under frame clearance (mm)</b>	750 / Option 850		
<b>Tine safety system</b>	Standard: shear bolt / Optional: spring-mounted auto-reset		
<b>Levelling system</b>	Standard without / Option hockey stick blade		
<b>Levelling safety system</b>	Spring-mounted blade		
<b>Roller adjustment</b>	Standard: mechanical / Optional: hydraulic		
<b>Rear equipment (mm)</b>	Rollers: single bar Ø 500 / Double bar Ø 400/Ø 300 / Impak Ø 540 / Optional following harrow Ø 16		
<b>Stabilizing wheel</b>	Standard 2 semi-directional wheels 340/65x18 (Ø 890 mm)		
<b>Depth control</b>	Wheels		
<b>Tyre</b>	340/65x18 (Ø 890 mm)		
<b>Brakes</b>	Standard hydraulic / Option tyre		
<b>Max. working depth (mm)</b>	350		
<b>Seed drill and walkway support kit</b>	Soon available		
<b>Road traffic lights</b>	As standard		





**COVER**  
COVER CROP

## **Versatile and efficient**

*Increased penetration thanks to heavyweight discs and chassis.*

*It enables versatile soil preparation and is ideal for complex root system destruction.*

# COVER X T80

SEMI-MOUNTED X-PROFILE OFFSET DISC HARROW

40 to 64 discs - Tractors: 310 to 400 hp - Working width: 5.00 to 7.00 m



## Rigid chassis

Using a single-beam structure, proven over decades, the Cover X has increased rigidity from the lateral supports to achieve greater and more uniform disc penetration in harsh conditions.



## Easy to adjust

For a perfect finish and a well-levelled field, the machine must be parallel to the ground. All you need to do is adjust the drawbar cylinder and the roller depth using the two hydraulic cylinders.



## Choice of depth control

Depth control using wheels allows you to pass over any type of terrain regardless of the weather. Support using wheels prevents the roller from jamming because the weight of the machine does not push the roller into the ground. In dry conditions you can choose between wheels and rollers for good stability.



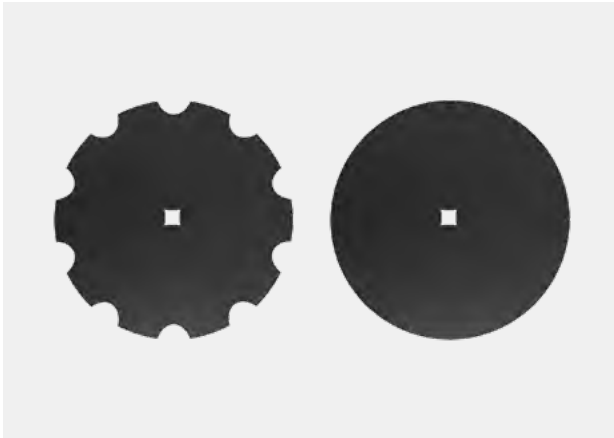
## Graduated mounting

The disc gangs at the back of the machine are mounted gradually to ensure good soil levelling. The volume of soil that the front disc gang projects is recovered.



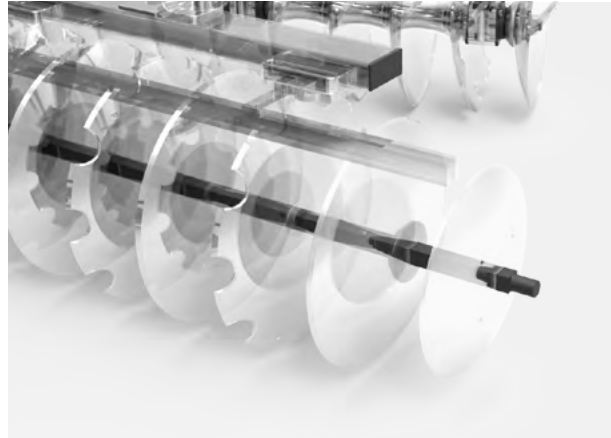
## Disc gang adjustment

The angle adjustment enables you to set the disc aggressivity and modify your working depth. It can be done mechanically using a tension rod or by optional hydraulics.



### Wide choice of discs

To improve disc gang performance, we offer two types of discs: notched and plain. 660 mm and 710 mm diameters are available, so you can adapt to your disc gang depth and the volume of organic matter present on your land. To limit disc diameter wear, several disc thicknesses are available.



### Robust stacking of disc gangs

Treated steel shafts absorb shocks well and do not lengthen when tightened. To simplify access for disc replacements, disc gangs are tightened and clamped from the ends.

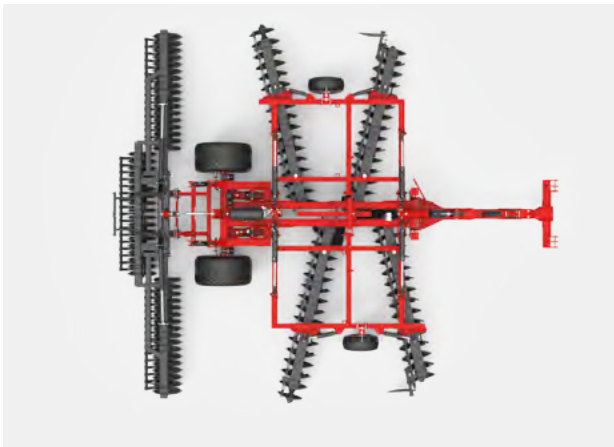
The mechanically welded design along with the choice of steel make our disc gang seating the best on the market.



### Durable bearings

The compact, cast iron housing means that it will not interfere with the passage of residues. This minimizes jamming.

Thanks to triple sealed packing and two outward-facing seals, excess grease can escape but dust and debris cannot enter. This system extends service life and reduces maintenance to a minimum.



### X design

The disc gangs are offset for uniform work across the entire working surface. This also allows perfect symmetry between the right and left side in order to balance pulling forces. X-profile Disc gangs are versatile and work well on land with few contours.



### Bearing protection

A bearing protection guard is recommended for very stony conditions.

The aim is to preserve the bearing from wear and tear due to ground friction but also from impacts caused by foreign objects in the field.



### Several hitching types

Two hitching types are available: a turning ring hitch for the eye bolt or the drawbar, or a Cat 2 and 3N arm coupling to improve manoeuvring in headlands thanks to the wide turning circle.



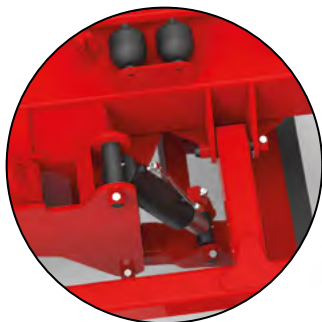
## COVER X T80 TECHNICAL SPECIFICATIONS

Working width (m)	6.20	6.60	7.00	5.00	5.50	6.00
Tractor power (HP) <i>Tractor power (kW)</i>	340 / 380 250 / 279	350 / 390 257 / 287	360 / 400 265 / 294	310 / 350 228 / 257	320 / 360 235 / 265	330 / 370 243 / 272
Transport width (m)	3.00					
Transport height (m)	3.45	3.60	3.80	3.00	3.15	3.30
Indicative weight (kg)	6 472	6 683	6 895	5 475	5 686	5 913
Yoke hitch type (Cat.)	Cast ring ball joint: Ø 45 mm - Ø 55 mm - Ø 65 mm / Option: arms CAT 2 / 3N / 3 - 4N / 4					
Chassis version	Can be folded in two parts					
Number of discs	56	60	64	40	44	48
Disc shaft diameter (mm)	40			50		
Disc diameters (mm)	Standard Ø 660 / Option Ø 710					
Disc thicknesses (mm)	7 mm at the front and 6 mm at the back					
Spacing between discs (mm)	230			270		
Under frame clearance (mm)	800					
Max. working depth (mm)	200					
Working part safety system	Fixed seating					
Disc angle adjustment	Standard: mechanical / Optional: hydraulic					
Stabilizing wheel	Standard two side wheels 10.0/75x15.3 (Ø 760 mm) / Option 11.5/80x15.3 (Ø 845 mm)			Standard without / Option two side wheels 10.0/75x15.3 (Ø 760 mm) / 11.5/80x15.3 (Ø 845 mm)		
Tyres	Standard 18R22.5 (Ø 1011 mm) / Option 600/50x22.5 (Ø 1171 mm)					
Brakes	Standard: hydraulic / Option: tyre					
Seed drill walkway	Option					
Hectare counter	Option					
Roller adjustment	Hydraulic					
Rear equipment (mm)	Rollers: single bar Ø600 / Singe bar Ø 900 / Emopak P Ø600 / Emopak V Ø600					
Road traffic lights	As standard					

# COVER XL T80

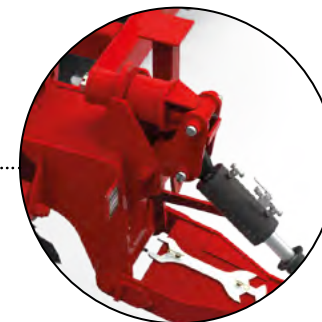
SEMI-MOUNTED X-PROFILE OFFSET DISC HARROW

66 to 106 discs - Tractors: 310 to 400 hp - Working width: 7.30 to 12.00 m



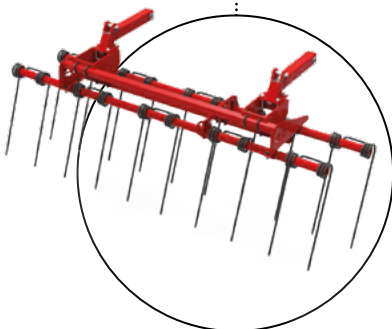
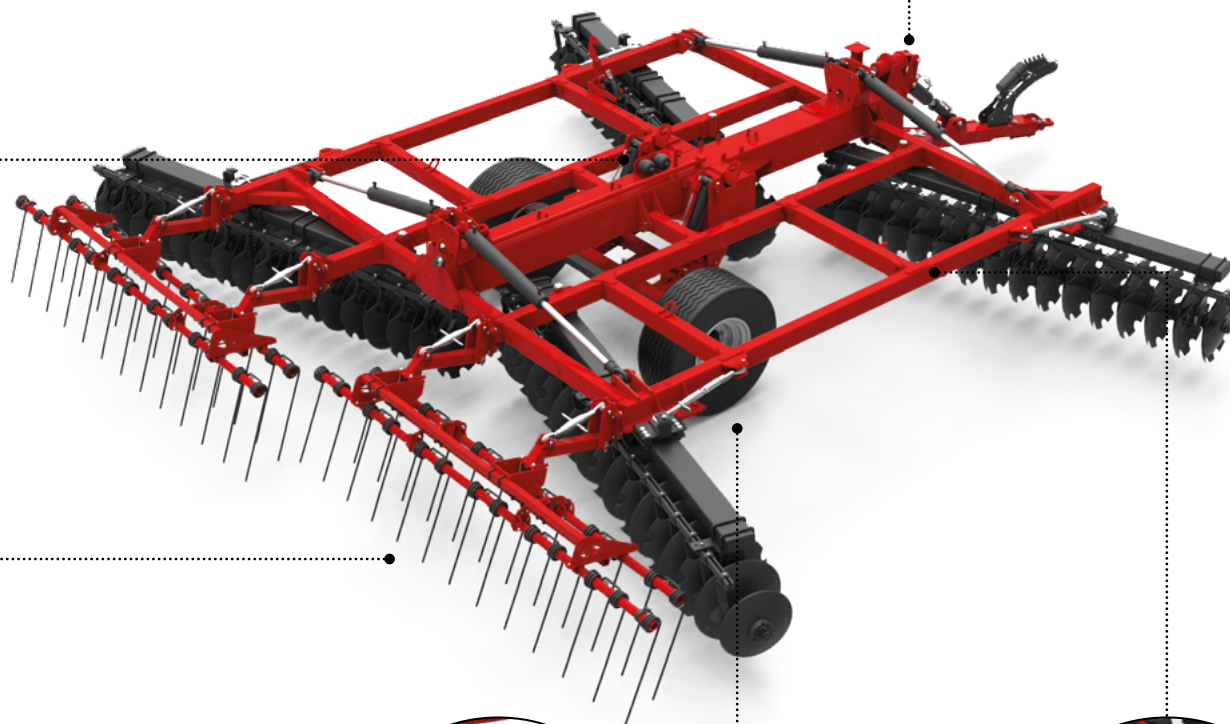
## Axle suspension

An accumulator on the support axle cylinder provides you with the best possible road handling conditions.



## Drawbar suspension

Elastomer around the drawbar cylinder allows flexibility during transport and in the field. An accumulator is connected to the wheel axle to protect your machine and for easy handling.



## Rear equipment

Three types of rear rollers are available according to your needs: square bar rollers for a simple solution, double bar rollers for surface crumbling, and the Impak roller, ideal for self-seeding. This enables good soil consolidation. Finally, you can choose a triple following harrow to accelerate the destruction of weed root systems.



## Depth control wheels

This solution enables you to pass through any type of terrain. Depth control wheels avoid roller jamming as the weight of the machine does not push the roller into the ground. In dry conditions you have the choice between wheels and rollers for a high level of stability.



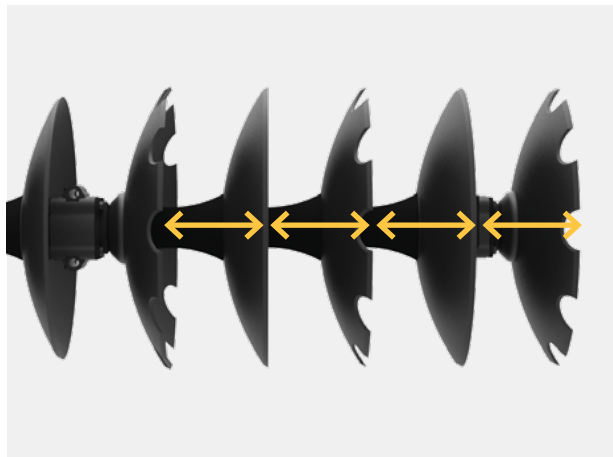
## Stabilizing wheel

After a certain width, it is better to have a wheel on the right lateral support to stabilize the machine so that it maintains the same working depth at all speeds.



### Consistent ground levelling

On the front disc gangs, you have the option of using a deflector and an anti-projection disc to control the ground projection and the outer disc depth. Combined with the graduated mounting of the rear disc gangs you achieve a perfectly levelled field.



### Several spacings

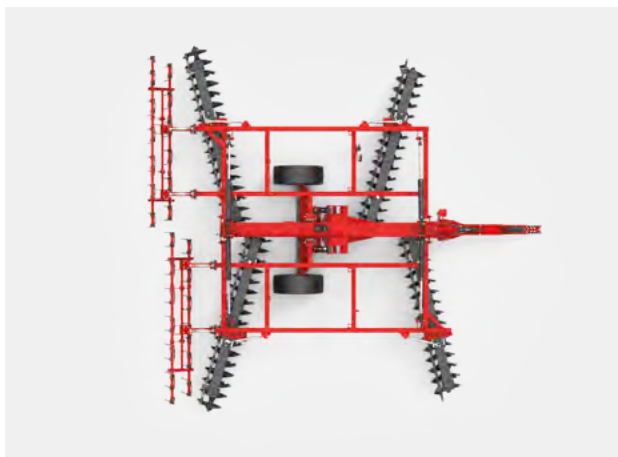
Depending on your needs, we offer two disc spacings. The 195 mm spacing is for fine work, recommended for shallow depths and the 230 mm spacing for more versatile use with summer stubble tillage and destruction of complex root systems.



### Durable bearings

The compact, cast iron housing means that it will not interfere with the passage of residues. This minimizes jamming.

Thanks to triple sealed packing and two outward-facing seals, excess grease can escape but dust and debris cannot enter. This system extends service life and reduces maintenance to a minimum.



### X design

The disc gangs are offset for uniform work across the entire working surface. This also allows perfect symmetry between the right and left side in order to balance pulling forces. X-profile Disc gangs are versatile and work well on land with few contours.



### Bearing protection

A bearing protection guard is recommended for very stony conditions. The aim is to preserve the bearing from wear and tear due to ground friction but also from impacts caused by foreign objects in the field.



### Several hitching types

Two hitching types are available: a turning ring hitch for the eye bolt or the drawbar, or a Cat 2 and 3N arm coupling to improve manoeuvring in headlands thanks to the wide turning circle.



## COVER XL T80 TECHNICAL SPECIFICATIONS

	7.30	7.75	8.20	9.10	10.00	12.00
<b>Working width (m)</b>						
<b>Tractor power (HP)</b> <i>Tractor power (kW)</i>	<b>310 / 350</b> 228 / 257	<b>320 / 360</b> 235 / 265	<b>330 / 370</b> 243 / 272	<b>340 / 380</b> 250 / 279	<b>350 / 390</b> 257 / 287	<b>360 / 400</b> 265 / 294
<b>Transport width (m)</b>	3.49					
<b>Transport height (m)</b>	4.80					
<b>Indicative weight (kg)</b>	10 000	10 320	10 640	11 260	11 880	12 950
<b>Yoke hitch type (Cat.)</b>	Cast ring ball joint: Ø 45 mm - Ø 55 mm - Ø 65 mm / Scharmüller K80					
<b>Chassis version</b>	Can be folded in three parts					
<b>Number of discs</b>	66	70	74	82	90	106
<b>Diamètre de l'arbre de disque (mm)</b>	40					
<b>Disc diameters (mm)</b>	Standard Ø 660 / Option Ø 710					
<b>Disc thicknesses (mm)</b>	7 mm at the front and 6 mm at the back					
<b>Spacing between discs (mm)</b>	230					
<b>Under frame clearance (mm)</b>	800					
<b>Max. working depth (mm)</b>	200					
<b>Working part safety system</b>	Fixed seating					
<b>Disc angle adjustment</b>	Manual standard with locking device					
<b>Stabilizing wheel</b>	Without					
<b>Tyres</b>	560/60x22.5 (Ø 1243 mm)					
<b>Brakes</b>	Standard hydraulique / Option tyre					
<b>Seed drill walkway</b>	Not available					
<b>Hectare counter</b>	Option					
<b>Roller adjustment</b>	Mechanical tie rod					
<b>Rear equipment (mm)</b>	Standard sans / Optional double following harrow / Rear hook					
<b>Road traffic lights</b>	As standard					

# COVER XL T90

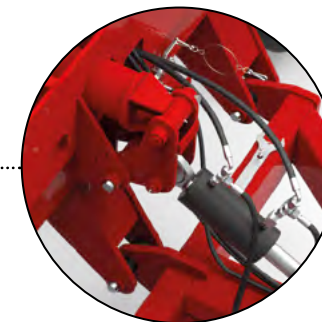
SEMI-MOUNTED X-PROFILE OFFSET DISC HARROW

106 to 122 discs - Tractors: 400 to 600 hp - Working width: 12.00 to 14.00 m



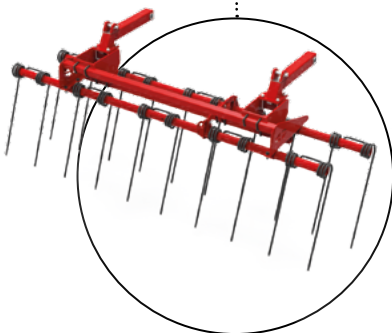
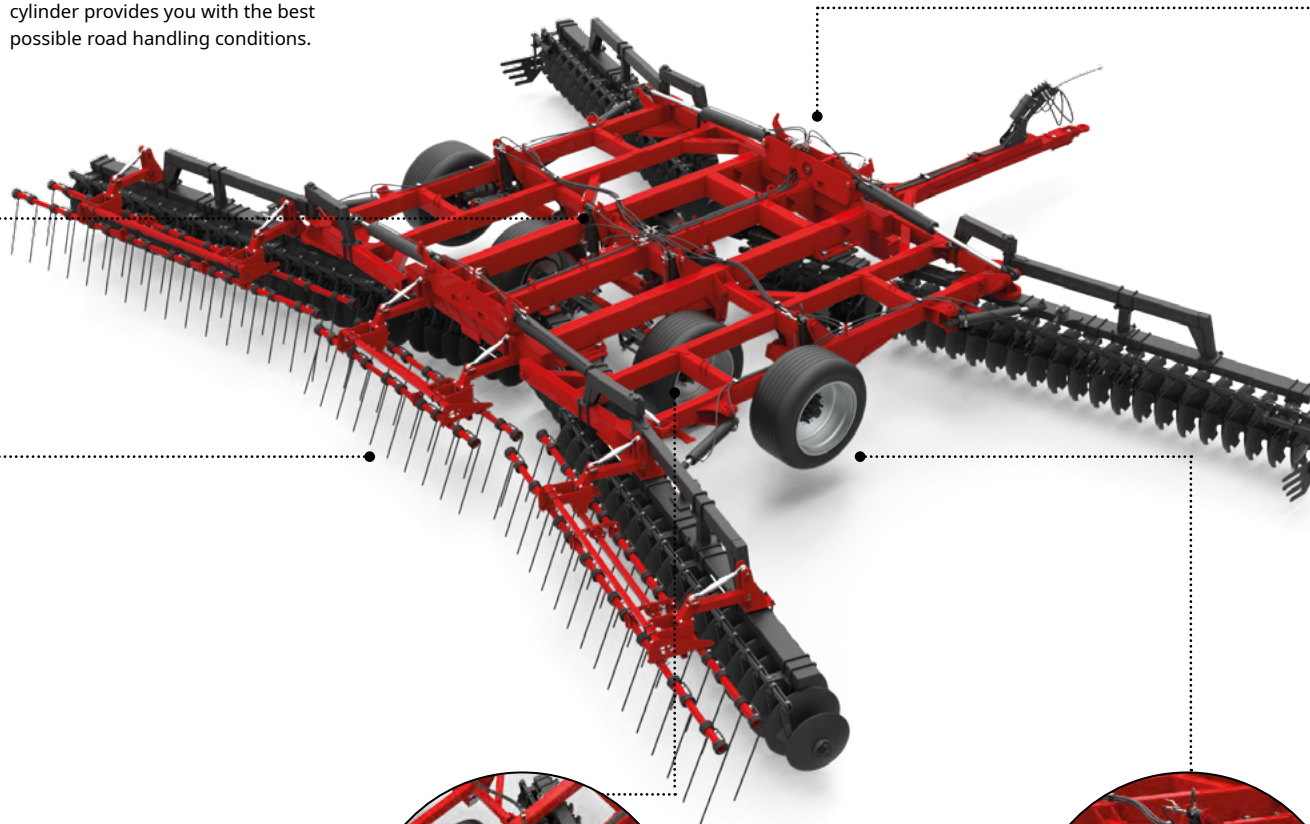
## Axle suspension

An accumulator on the support axle cylinder provides you with the best possible road handling conditions.



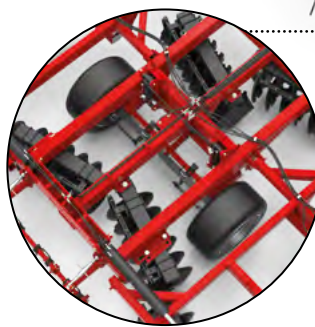
## Drawbar suspension

Elastomer around the drawbar cylinder allows flexibility during transport and in the field. An accumulator is connected to the wheel axle to protect your machine and for easy handling.



## Rear equipment

A wide choice of rollers is available according to the finish you want. If you want consolidate and close your soil to create conditions for weeds, we have the Emopak range. For lighter and more economical finishes we have a range of roller bars.



## Depth control wheels

This solution enables you to pass through any type of terrain. Depth control wheels avoid roller jamming as the weight of the machine does not push the roller into the ground. In dry conditions you have the choice between wheels and rollers for a high level of stability.



## Stabilizing wheel

After a certain width, it is better to have a wheel on the right lateral support to stabilize the machine so that it maintains the same working depth at all speeds.



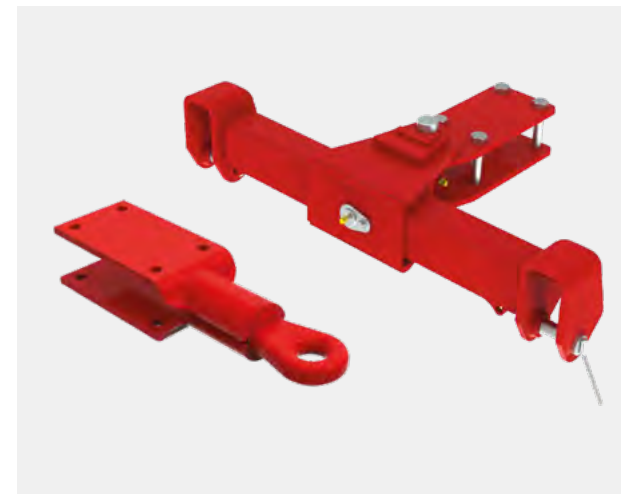
### Consistent ground levelling

On the front disc gangs, you have the option of using a deflector and an anti-projection disc to control the ground projection and the outer disc depth. Combined with the graduated mounting of the rear disc gangs you achieve a perfectly levelled field.



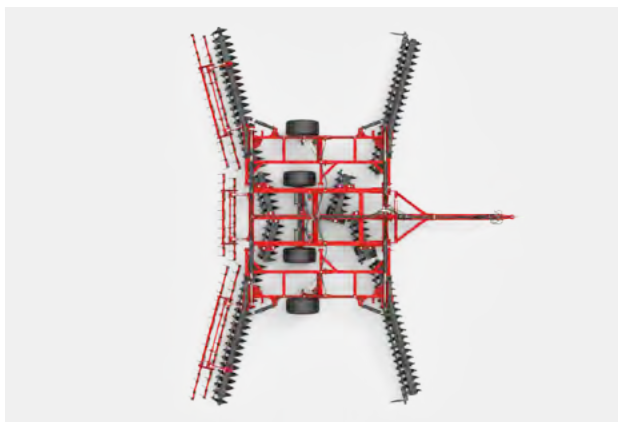
### A wide chassis

In order to optimize transport, the height of this machine has been reduced as much as possible. It folds in two stages to position the lateral disc gangs in the longitudinal direction. The Cover X T90's 4.50 m wide wheelbase ensures stability.



### Several hitching types

Two hitching types are available: a turning ring hitch for the eye bolt or the drawbar, or a Cat 2 and 3N arm coupling to improve manoeuvring in headlands thanks to the wide turning circle.



### X design

The disc gangs are offset for uniform work across the entire working surface. This also allows perfect symmetry between the right and left side in order to balance pulling forces. X-profile Disc gangs are versatile and work well on land with few contours.



### Adjusting hydraulic angles

The angle adjustment cylinder provides ease of use and safety for the driver. This simple and efficient system is also used for folding and unfolding the harrow.



### Durable bearings

The compact, cast iron housing means that it will not interfere with the passage of residues. This minimizes jamming.

Thanks to triple sealed packing and two outward-facing seals, excess grease can escape but dust and debris cannot enter. This system extends service life and reduces maintenance to a minimum.



## COVER XL T90 TECHNICAL SPECIFICATIONS

<b>Working width (m)</b>	<b>12.00</b>	<b>14.00</b>
<b>Tractor power (HP)</b> <i>Tractor power (kW)</i>	<b>400 / 550</b> 294 / 404	<b>480 / 600</b> 353 / 441
<b>Transport width (m)</b>	4,90	
<b>Transport height (m)</b>	4,80	
<b>Poids indicatif avec rouleau simple barres Ø500 (kg)</b>	14 700	15 100
<b>Yoke hitch type (Cat.)</b>	Cast ring ball joint: Ø 45 mm - Ø 55 mm - Ø 65 mm / Scharmüller K80	
<b>Chassis version</b>	Can be folded in three parts	
<b>Number of discs</b>	106	122
<b>Diamètre de l'arbre de disque (mm)</b>	40	
<b>Disc diameters (mm)</b>	Standard Ø 660 / Option Ø 710	
<b>Disc thicknesses (mm)</b>	7 mm at the front and 6 mm at the back	
<b>Spacing between discs (mm)</b>	230	
<b>Under frame clearance (mm)</b>	800	
<b>Max. working depth (mm)</b>	200	
<b>Working part safety system</b>	Fixed seating	
<b>Disc angle adjustment</b>	Standard mechanical with locking system	
<b>Stabilizing wheel</b>	Without	
<b>Tyres</b>	700/50x26.5 (Ø 1243 mm)	
<b>Brakes</b>	Standard hydraulic / Option Tyre	
<b>Seed drill walkway</b>	Not available	
<b>Hectare counter</b>	Option	
<b>Roller adjustment</b>	Mechanical tie rod	
<b>Rear equipment (mm)</b>	Standard without / Option 2-row following harrow / rear hook	
<b>Road traffic lights</b>	As standard	





## High work output and ultra simplified maintenance

*A versatile tool for stubble cultivation from 2 up to 12 cm deep, stubble ploughing, soil preparation combined with sowing under plant cover.*

**NORMANDIE**  
DISC HARROW

# NORMANDIE T80

SEMI-MOUNTED DISC HARROW

80 or 96 independent discs - Tractors: 310 to 600 hp - Working width: 10.00 to 12.00 m



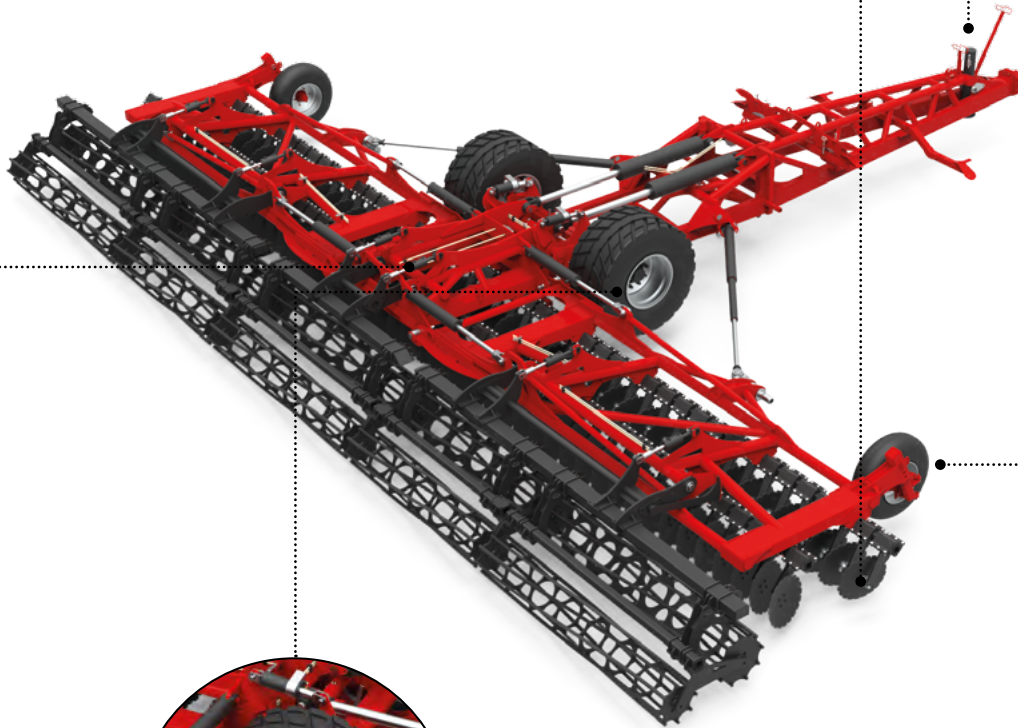
## Maintenance-free bearings

The sealing and lubrication technology of the Normandie bearings ensures maximum service life. Maintenance time is a factor that is often overlooked when calculating operational mechanisation costs. We have taken this into account to limit maintenance time.



## A hydraulic stand

The parking stand is hydraulic and is actioned from the tractor driving position. It allows you to hitch or unhitch the machine safely.



## Hydraulic roller adjustment

As standard, the Normandie T80 is equipped with hydraulic roller adjustments using master-slave cylinder technology. You can accurately adjust the depth of your equipment from the tractor cab in all circumstances.



## Premium tyres

We have chosen to offer a single, top-of-the-range tyre. As standard, we fit a 650/50x22.5 wheel that ensures maximum stability on the road and in headlands. This type of low-pressure technology protects your headlands from compaction.



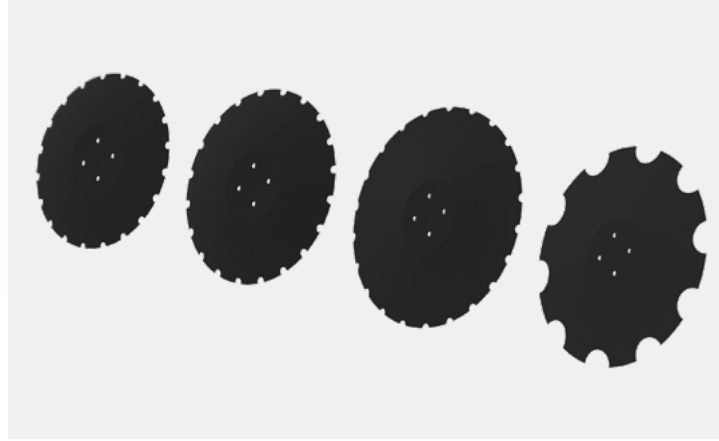
## Two stabilization wheels at the front

Normandie T80 starts with a 10 m width. This machine is designed to work at high speeds, up to 15 km/h. These two wheels allow the equipment to be correctly stabilized. They ensure uniform work over the entire width of the machine. In addition, these wheels are swivel mounted for when you work on curves.



### Choice of rollers

You can choose between 5 different rollers depending on your work and the finish you want. You can equip your machine with a single Ø 600 mm cage roller which is suitable for good depth control and aggressive plant residue actions. There is also a double Ø 500/400 mm cage roller which accelerates the decomposition of residues and promotes soil/seed contact. We offer the Ø 650 mm V-profile Impak roller for in-line finishing and deep soil consolidation.



### A wide range of discs

You can choose between 4 different discs depending on the work you need to perform. A Ø 460 mm disc with small notches for very shallow stubble ploughing or soil preparation. We also offer a Ø 510 mm intermediate disc suitable for stubble tillage and ploughing back. For deeper work and for when there is a lot of plant residue, we have two Ø 560 mm discs with either small or large notches.



### Low operating costs

Maintenance costs are extremely low on the Normandie range. Working parts do not need any maintenance. You can use your time for other things.

This equipment is designed to work at high speed. This results in a higher work rate that is more profitable.

Years of experience have gone into our choices of angles and discs. We assure you that Normandie equipment is the right compromise between low fuel consumption and quality work.



### Optimal field contour following

For good field contour following across the width of the equipment we have used a pressure regulating system in the folding and drawbar cylinder circuit. You can adjust the operating pressures so that the lateral supports and the drawbar articulation can move up or down depending on the field conditions. This means that the lateral supports remain flexible. Your work is uniform across the entire width while stress to the chassis is minimized.



### Elastomer auto-reset safety system. One disc on each arm

Normandie working parts are attached to the lower frame by 4 elastomer buffers that act as a safety system in the event of impacts from foreign objects or stones. These elastomer buffers have flat faces for better contact with the chassis. The whole element is held in position firmly. Each disc has its own safety system to ensure outstanding contour following and consistency.



### Transport safety

Normandie folding machines are equipped with a hydraulic lock in the transport position. You do not need to unlock anything. Balancing valves on each cylinder deal with this. Without activating the valve, the machine cannot unfold.



## NORMANDIE T80 TECHNICAL SPECIFICATIONS

<b>Working width (m)</b>	<b>10.00</b>	<b>12.00</b>
<b>Tractor power (HP)</b> <i>Tractor power (kW)</i>	<b>310 / 500</b> 228 / 368	<b>410 / 600</b> 301 / 441
<b>Transport width (m)</b>	3.00	
<b>Transport height (m)</b>	4.50	
<b>Indicative weight with single bar roller Ø 500 (kg)</b>	10 900	12 300
<b>Yoke hitch type (Cat.)</b>	Cast ring ball joint: Ø 35 mm - Ø 45 mm - Ø 55 mm - Ø 65 mm / Scharmüller K80	
<b>Chassis version</b>	Can be folded in three parts	
<b>Number of discs</b>	80	96
<b>Disc diameters (mm)</b>	Standard Ø 510 / Option Ø 460 / Ø 560	
<b>Disc thicknesses (mm)</b>	Standard 5 / Option 5 - 6	
<b>Spacing between discs (mm)</b>	250	
<b>Clearance between two rows of discs (mm)</b>	750	
<b>Under frame clearance (mm)</b>	740	
<b>Max. working depth (mm)</b>	120	
<b>Working part safety system</b>	Elastomer non-stop	
<b>Drawbar balance</b>	Hydraulic	
<b>Front stabilization wheels</b>	11.5/80x15.3 (Ø 845 mm)	
<b>Tyres</b>	650/50x22.5 (Ø 1172 mm)	
<b>Brakes</b>	Standard hydraulic / Option tyre	
<b>Seed drill support</b>	Option	
<b>Seed drill walkway</b>	Option	
<b>Hectare counter</b>	Option	
<b>Roller adjustment</b>	Hydraulic	
<b>Rear equipment (mm)</b>	Rollers: single bar Ø 600 / Double bar Ø 500 400 / Impak V Ø 650	
<b>Road traffic lights</b>	Standard	

# WORKING PARTS

## CROSSLAND



Double Mix      Universal

### Deflectors

The Double mix deflector rolls soil and organic residues together to enhance mixing and accelerate humification.

The Universal deflector creates a flow of soil and stubble on each side of the tine, this mixes the soil and straw together thanks to its projection height in the machine.



Dart      Standard

### Spoilers

The spoiler works in conjunction with a tip and there are two models depending on your type of tine, either Standard or Dart. The spoiler is intended to scalp root systems, like a knife. Its width of 254 mm gives you good overlapping.



Dart cast      Carbide dart      Reversible standard      Standard carbide

### Tips

A cast or carbide Dart tip can be fitted to a deflector to optimize residue mixing. It is suitable for work from 5 to 20 cm deep.

The reversible Standard tip is suitable for work from 5 to 15 cm deep.

The Standard carbide tip is used for deeper restructuring work, for heavy soils. It helps to increase productivity.



Standard

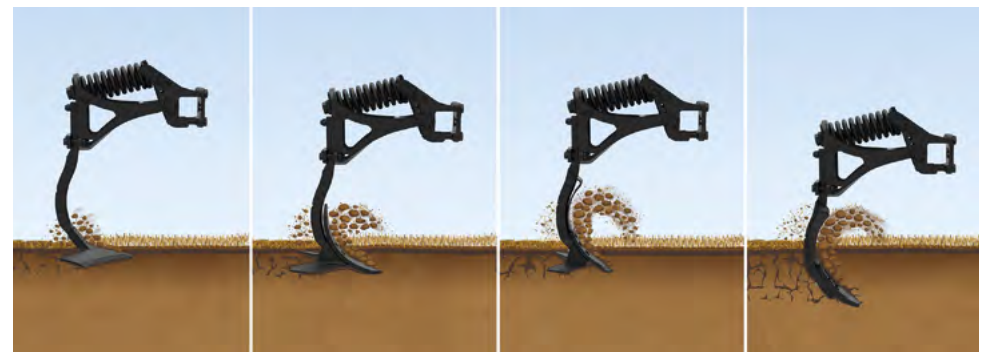
### Goose share

The Goose share is mainly used for shallow stubble ploughing. It provides effective weed scalping even at very shallow depths. It can be mounted with a double mix deflector to enhance weed material mixing.



**RELEASE  
UP TO 380 MM!**

Spring-mounted Eurochisel tine.

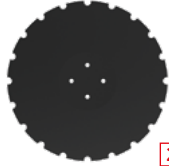


# DISCS

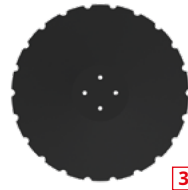
## NORMANDIE



**Small notches**  
Ø 460 mm,  
5 mm thickness.



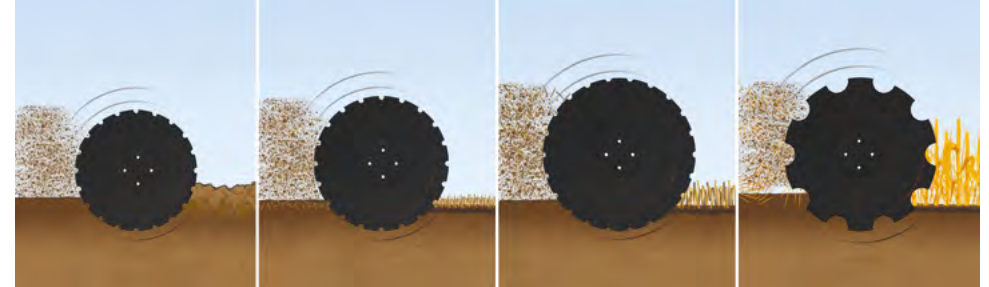
**Small notches**  
Ø 510 mm,  
5 mm thickness.



**Small notches**  
Ø 560 mm,  
6 mm thickness.



**Large notches**  
Ø 560 mm,  
6 mm thickness.



**1** Used in ploughing back or very superficial stubble tillage. Its small diameter makes it rotate very quickly for a smooth finish. **2** It's a good compromise. Used in ploughing back or superficial stubble tillage. It has a high wear resistance and enables progress in the presence of plant residues. **3** The larger diameter disc is available with small notches for good residue cutting or large notches to increase its penetration capacity. It is suitable for stubble tillage depths up to 12 cm and for the destruction of high volume cover crops.

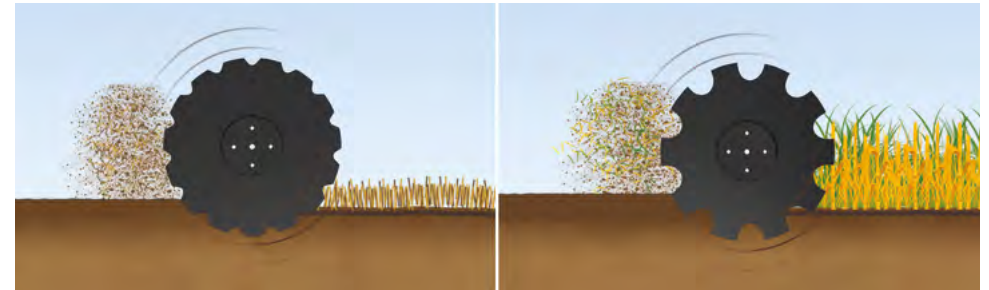
## OCCITAN



**Small notches**  
Ø 620 mm, 6 mm thickness.



**Large notches**  
Ø 620 mm, 6 mm thickness.



**4** The discs with large notches ensure optimum penetration of the tool despite conditions that can be difficult. The large diameter allows for an evolution in the presence of a lot of plant residues.

**5** The small notches discs are better suited for cutting the residues and speeding up its decomposition. The large diameter allows an evolution in the presence of a lot of plant residues.

## COVER



**Notched**  
Ø 660 mm,  
6, 7 or 8 mm thickness.



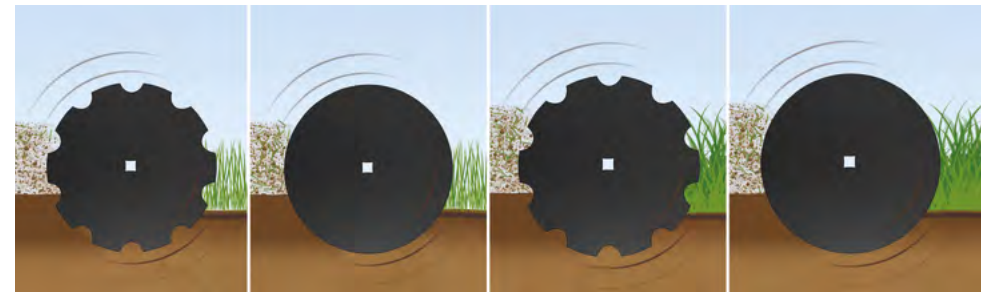
**Smooth**  
Ø 660 mm,  
6, 7 or 8 mm thickness.



**Notched**  
Ø 710 mm, 7 mm thickness.  
Ø 760 mm, 8 mm thickness.



**Smooth**  
Ø 710 mm, 7 mm thickness.  
Ø 760 mm, 8 mm thickness.



**6** A choice of discs with 660 mm diameter and 6, 7 or 8 mm thickness depending on the type of your soil. These discs are suitable for stubble ploughing, grassland destruction and ploughing in of a lot of plant residue. They can be smooth or notched according to your choice and are fitted interspersed as standard. **7** Depending on the type of your soil, we offer two discs with 710 mm and 760 mm diameters. These discs are suitable for deep work and ploughing in of a lot of plant residue. They can be smooth or notched according to your choice and are fitted interspersed as standard.

# REAR EQUIPMENT

Following harrow



## Range Compatibility

Heavy soils



Medium soils



Light soils



Firming



Following harrows are ideal for exposing weed root systems or crops to be destroyed to the air. It contributes to good levelling in light soils.

Ø 500 mm or Ø 600 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



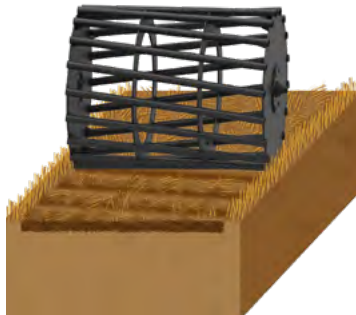
The Ø900 single cage roller ensures good control of the machine's depth and provides an optimal finish in sandy or light soil conditions. To avoid a finish that is too fine in light soil, it has been designed with round bars to be less aggressive and to provide more lift.

Ø 400 / Ø 300 mm and Ø 500 / Ø 400 mm double crumbler roller



Twice as active, the double bar destroys the most resistant plant residues and leaves behind an excellent finish thanks to the difference in diameter between the front and rear roller. The unit is mounted on a pivot to follow land contours.

- Crossland  
Stubble tine harrow
- Cover  
Deep stubble cultivator
- Normandie  
Shallow stubble cultivator
- Suitable
- No firming
- Some firming
- Firming
- Good firming

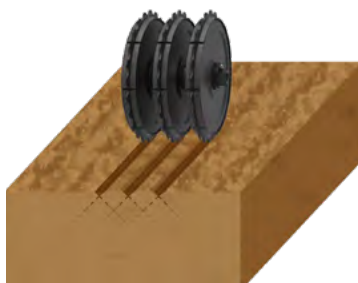


Ø 600 mm Emopak P roller



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

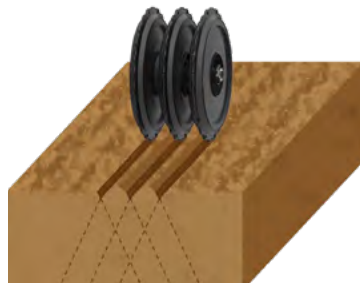
It crushes clods and promotes seed bed preparation to germinate weeds.



Ø 600 mm ou Ø 740 mm Emopak V roller



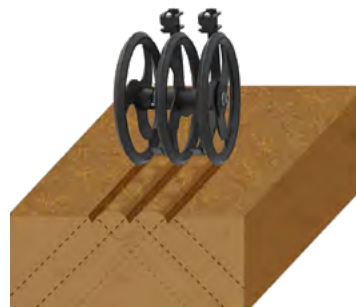
This roller is made of flanged, V-shaped and notched wheels. The Emopak V's mass gives you good consolidation, resulting in excellent in-line finishes. For self-seeding, it offers perfect soil/seed contact. It excels in dry, stony and cloddy soils.



Ø 540 mm or Ø 620 mm Impak roller



In wet conditions, the Impak roller allows uniform soil consolidation. Scrapers prevent soil build up and level between the passes of the roller wheel rows.



Ø 640 mm Impak U roller



The Impak U roller makes furrows and compacts. It's suitable for all dry soils. Compared to the Impak V roller, it is smaller, lighter and offers less reconsolidation.



Ø 640 mm double roller Impak U



The double Impak U roller Ø 640 mm provides good load-bearing capacity and earth contact for light to medium-heavy soils. The bearings are integrated directly into the cage for minimum space between the rollers. The optimised re-crossing ensures a homogeneous work.





# 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).



### Ploughing

- Reversible mounted plough
- Premium reversible mounted plough
- Semi-mounted ploughs



### Soil restructuring

- Soil looseners
- Clearers
- One pass finishers



### Stubble ploughing

- Stubble tine harrows
- Offset disc harrows
- Disc harrows



### Soil preparation

- Soil consolidation
- Seed bed preparation equipment

# 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](http://gregoire-besson.com) on our services page, start-up.

## Parts



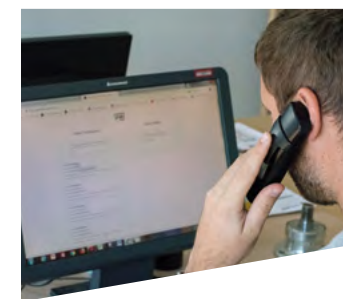
Original parts are designed together with the equipment by our engineers. The shapes, metal quality and settings are a guarantee of safety, traction optimization, economic fuel consumption and long service life of your equipment.

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:  
[gregoire-besson.com](http://gregoire-besson.com) on our services page, manuals, parts.

## 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.

# Contact us!

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49230 Montfaucon Montigné  
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静里中街3号长信大厦220室  
China

[contact@gb-group.co](mailto:contact@gb-group.co)

# Our equipment range

## Reversible mounted ploughs

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Prima 50



Prima 70



Prima 80



Rover 40



Rover 50



Rover 60



Rover 70



Rover 80

## Permium reversible mounted ploughs

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## Semi-mounted ploughs

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Voyager S60



Voyager C60



Voyager S70



Voyager C80

## Soil looseners

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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

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Explor T70



Explor T80



Explor T90

## One pass finishers

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Discordon 60



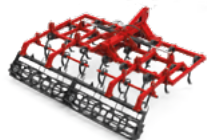
Discordon T70



Discordon T80

## Light stubble tine harrows

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Dekoflex 60

## Stubble tine harrows

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Crossland 50



Crossland 60



Crossland T60



Crossland T70



Crossland T80

## Disc harrows

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Normandie 50



Normandie 60



Normandie T60



Normandie T70



Normandie T80

## Shallow Stubble Cultivators

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Occitan 50



Occitan 60



Occitan T60

## Offset disc harrows

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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



Cover X T80



Cover XL T80



Cover XL T90

## Soil consolidation

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Planipack 50



Planipack 60



Planipack 70

## Seed bed preparation equipment

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Tetra 50



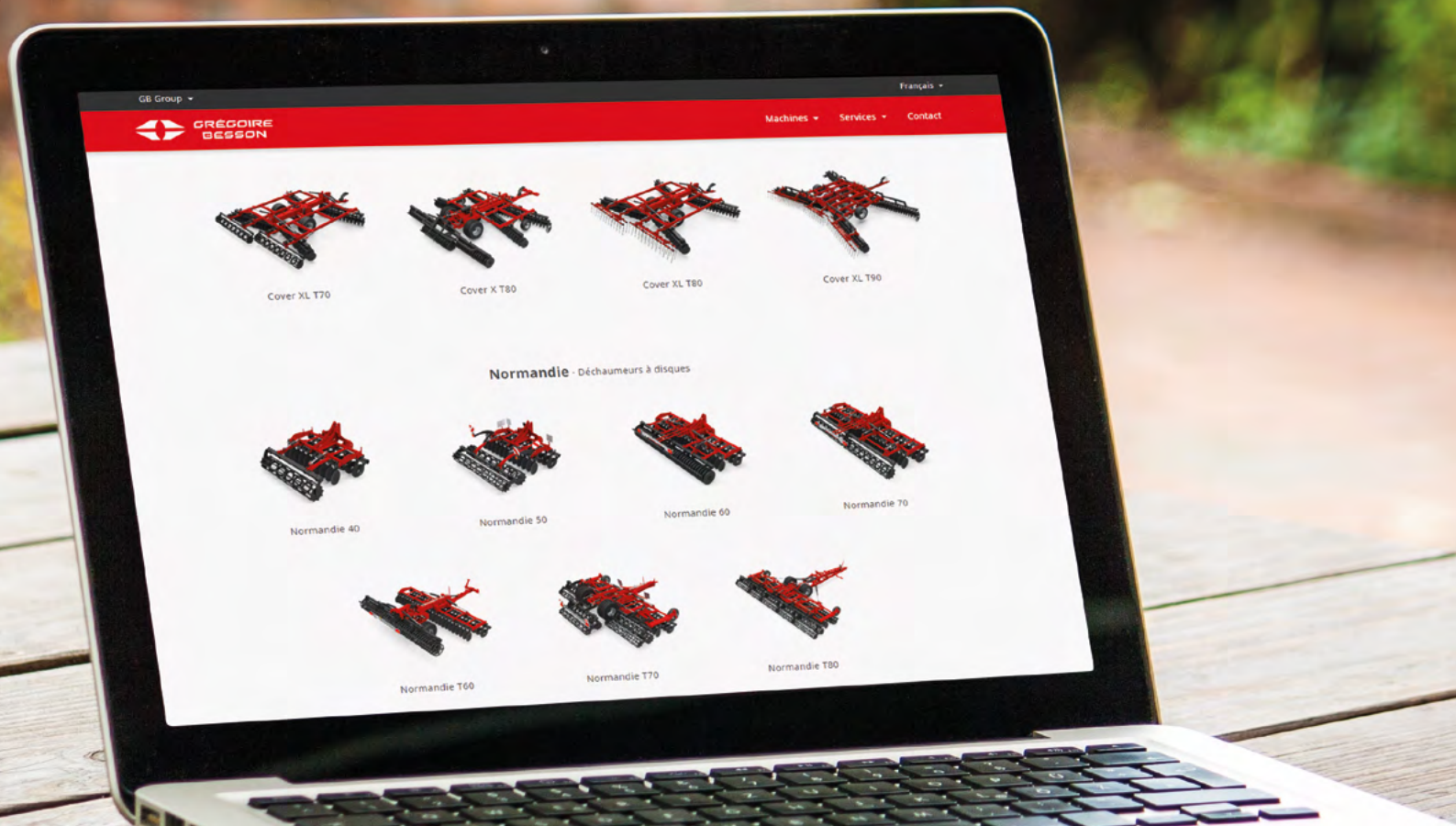
Tetra 60



Tetra 70



Tetra 80



You can easily connect to [gregoire-besson.com](http://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

# gregoire-besson.com



# 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 T160 COVER X T160 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	●	●

