



GRÉGOIRE
BESSON

40 50 **60 70** 80 90

Ploughing



Soil restructuring



Stubble tillage



Soil preparation



gregoire-besson.com



Soil preparation equipment & services for farmers

Preparing the soil and the future

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

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

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

Patrick Besson, CEO of the GB Group



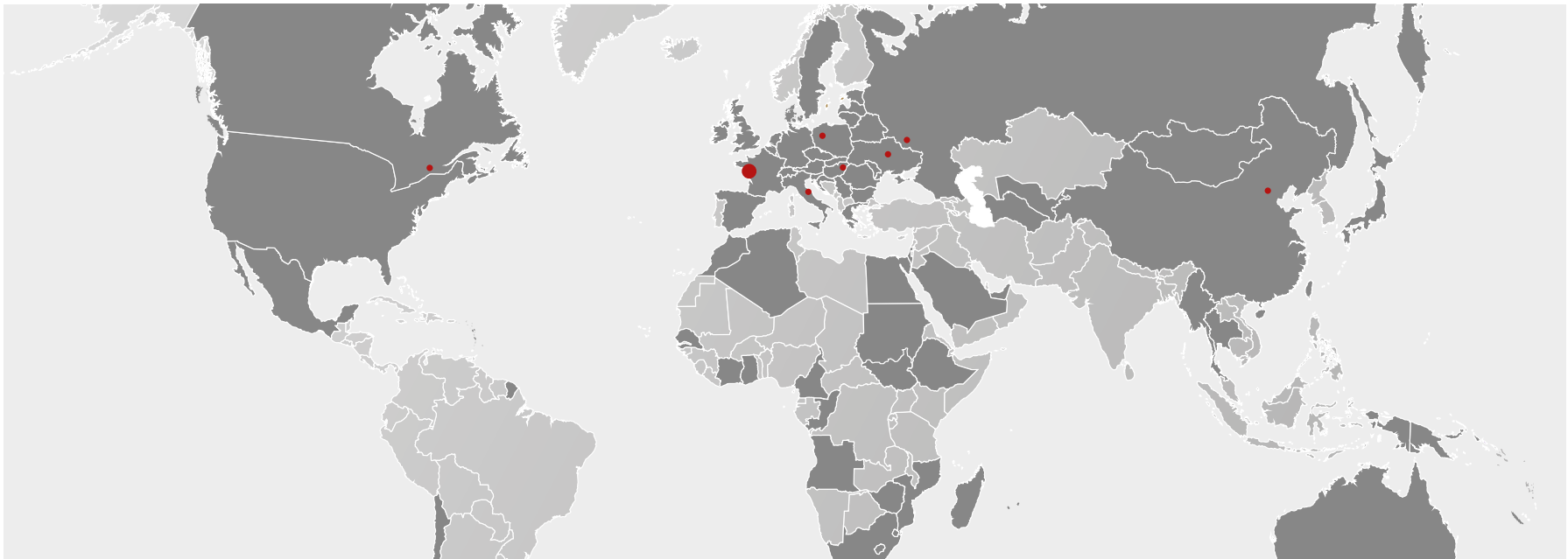
GB Group

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

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

A global presence

5 Plants & 7 Subsidiaries

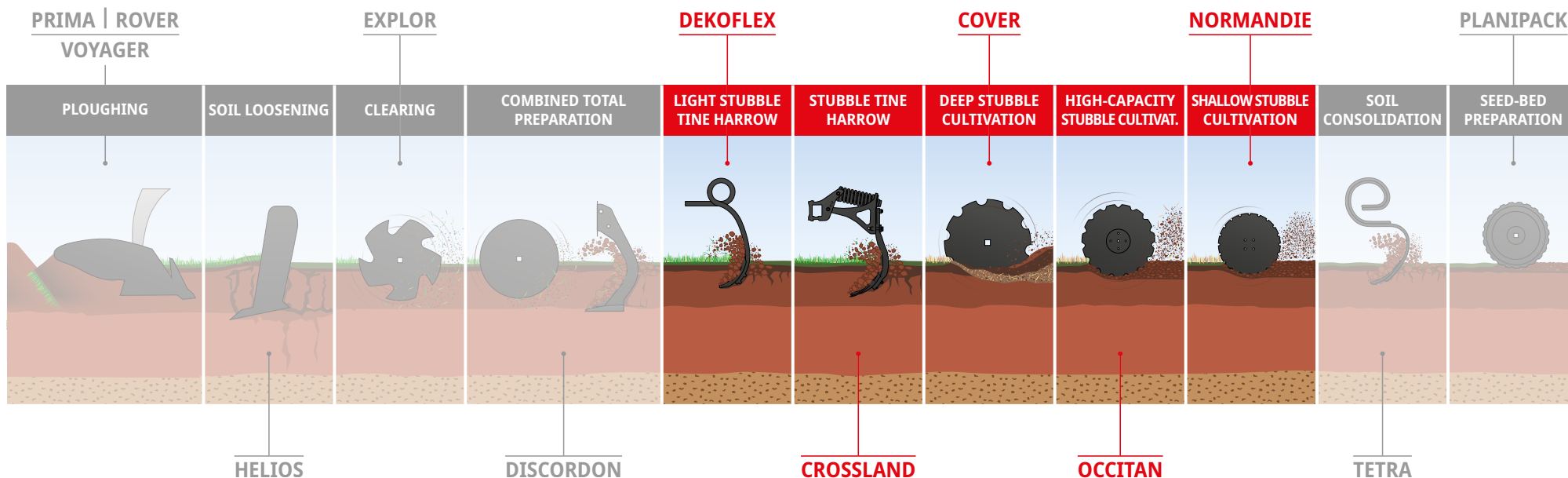


With our employees, 1 objective: customer satisfaction

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

Grégoire Besson and soil tillage

1 NEED > 1 NAME



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						
Stubble 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

An aerial photograph of a vast agricultural field during the golden hour of sunset. A red tractor is plowing a straight furrow through the dark, tilled soil, kicking up a cloud of golden dust. The field is divided into sections by previous plowing, showing a mix of dark brown earth and lighter, straw-covered ground. In the distance, another tractor is visible on the horizon. The sky is a warm, hazy orange, and a few trees are scattered along the horizon line.

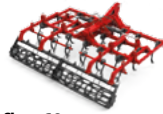
Better soil preparation for tomorrow

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

DEKOFLEX

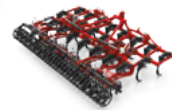
Light stubble tine harrow



Dekoflex 60 _____ p.12

CROSSLAND

Stubble tine harrow



Crossland 60 _____ p.18



Crossland T60 _____ p.22



Crossland T70 _____ p.26

COVER

Deep stubble cultivator



Cover V T60 _____ p.32



Cover V T70 _____ p.36



Cover X T60 _____ p.40



Cover X T70 _____ p.44



Cover XL T60 _____ p.48



Cover XL T70 _____ p.52

OCCITAN

High-capacity stubble cultivator



Occitan 60 _____ p.58



Occitan T60 _____ p.62

NORMANDIE

Stubble disc harrow



Normandie 60 _____ p.68



Normandie T60 _____ p.72



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Accessories

- Crossland working parts _____ p.80
- Normandie, Occitan and Cover Discs _____ p.81
- Rear equipment _____ p.82

- Servicing _____ p.84
- Our product range _____ p.86

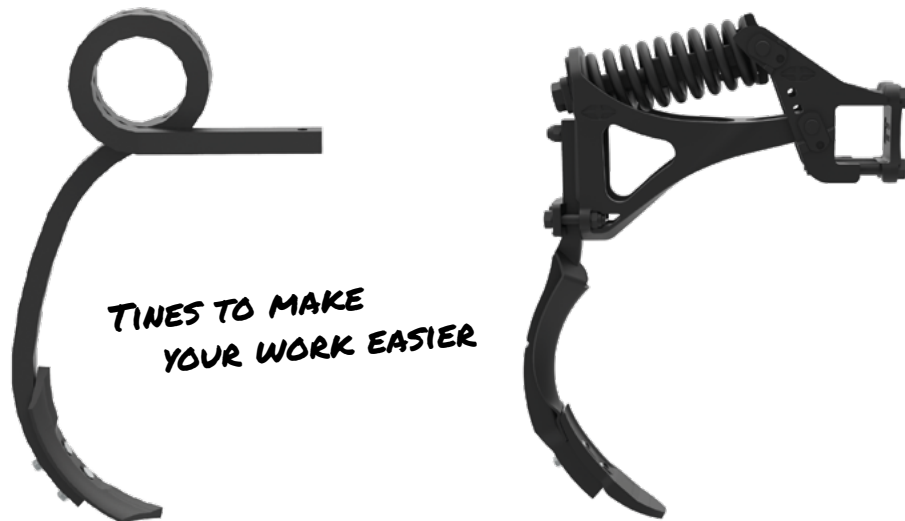


We are committed to respecting the environment

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



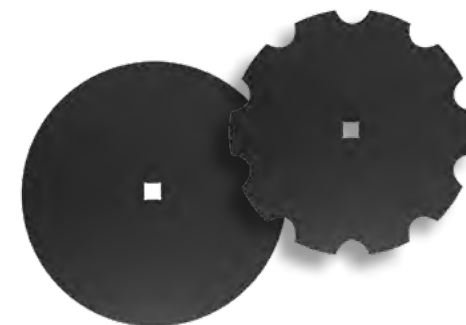
Ploughing back



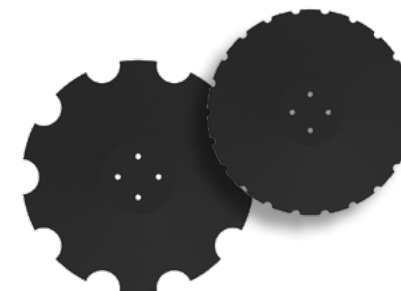
Seed bed preparation

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

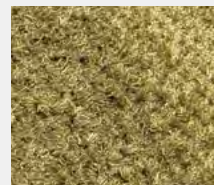


Stubble disc harrows promote the destruction of post-harvest pests.

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

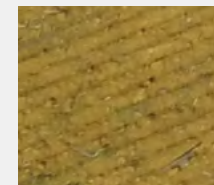
Produce different finishes according to soil, working conditions and your disc harrow attachments.



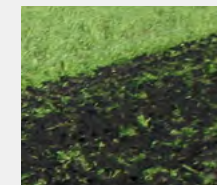
Stubble cultivation



Ploughing back



Seed bed preparation



Destruction of complex root systems





DEKOFLEX

LIGHT STUBBLE
TINE HARROW

Economical stubble cultivation

*The Dekoflex is characterized by a simple and
maintenance-free design.*

DEKOFLEX 60

MOUNTED LIGHT STUBBLE TINE HARROW

From 18 to 26 tines - Tractors: 125 to 210 hp - Working width: 4.00 to 6.00 m



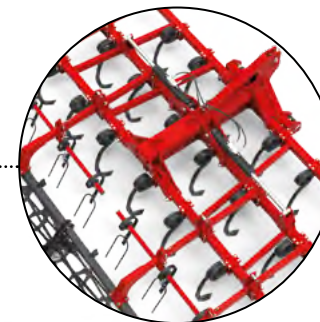
A well-thought-out head

The hitch has several combinations in CAT 2 and 3N. Three top holes are available, the fixed hole to stiffen the machine and increase penetration and the slotted hole for better ground tracking and less stress in the frame. The lower pins have two fasteners to best fit the tractor's rear geometry.



Intuitive adjustment

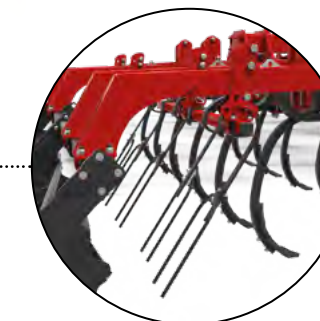
The working depth is simplified for the user. It can be adjusted using pins to make a high and a low stop. The levelling comb system is attached to it for combined adjustment. Moreover, the length of the roller arms can be adjusted according to the desired clearance and limit the overhang.



A simplified chassis

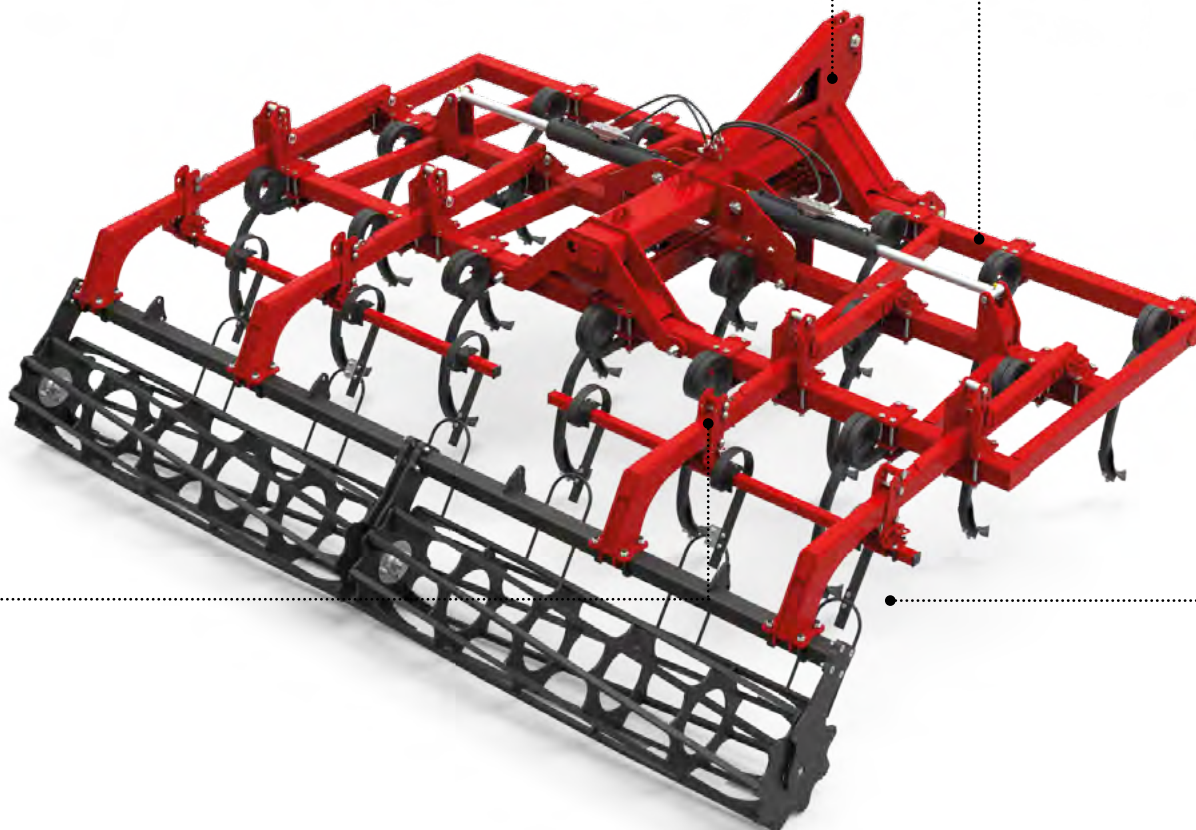
The two-piece frame is streamlined to facilitate the passage of residue while maintaining tine spacing.

The mechanically welded frames give you a very high resistance.



A good finish

The levelling comb system is there to plug the hole made by the rear row tine to keep the field always well levelled. Its combs are mounted on a spring blade for safety at work.





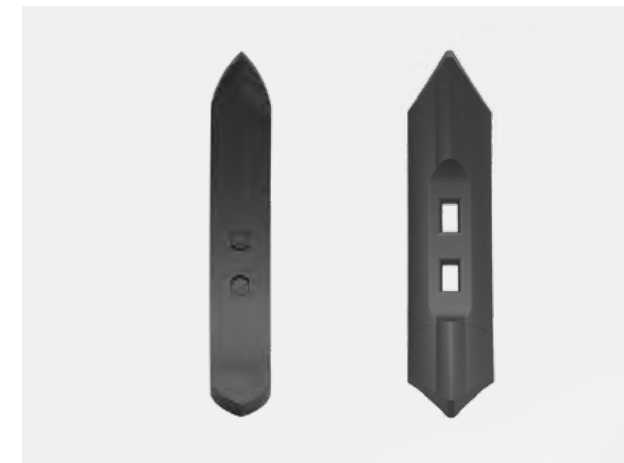
An economic tooth

The pigtail tooth is maintenance-free. With its spring steel buckle, it creates lateral and longitudinal vibrations to obtain good stubble tillage and a good mixture between plant residues and soil to improve their decomposition in the soil. The buckle ensures non-stop safety in light soils.



Rear equipment

The single square bars roller is the only aft equipment available to break up clods on the surface and create a minimum of re-soil on the ground. Its maintenance-free bearing assembly reduces maintenance time and increases your productivity.



Several choices of tips

We offer two types of tips. The first one is made of reversible forged steel for floors that are not subject to much wear and tear. The second one with carbide to resist the friction of abrasive soils.



A controlled overhang

We had thought of the Dekoflex to have a centre of gravity close to the tractor to make it easier to lift the machine with a light tractor and to have a counterweight at the front of the tractor to reduce soil compaction.



Good clearance

Designed with three rows of tines, the Dekoflex is a machine with a wide clearance to be able to pass through good volumes of crop without clogging. Its undercarriage space allows you to work from 2 cm to 20 cm in light soils.



Safe transport

The transport width is 2.50 m to facilitate road travel. Its hydraulic folding is equipped with a locking system so that there is no mechanical or manual action on the machine to lock it. In addition, you can unhook the folding machine in order to minimize the storage area under your building.



DEKOFLEX 60 TECHNICAL SPECIFICATIONS

	4.00	5.00	6.00
Working width (m)			
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 190 92 / 140	150 / 200 110 / 147	175 / 210 129 / 154
Transport width (m)		2.50	
Transport height (m)	2.10	2.60	3.10
Indicative weight with single bar Ø 500 (kg)	1 960	2 500	2 870
Yoke hitch type (Cat.)	3N - 3		
Chassis version	Can be folded in two parts		
Number of tines	18	22	26
Deflector	Not available		
Tip	Bolted reversible points / Option: carbide bolted		
Wing (mm)	Not available		
Tine spacing (mm)	222	227	230
Spacing between tines in a row (mm)	666	681	692
Spacing between rows of tines (mm)	750		
Under frame clearance (mm)	700		
Tine safety system	Pig tail		
Levelling system	Standard without / Option: following harrow		
Levelling safety system	Lame ressort		
Roller adjustment	Mechanical		
Rear equipment (mm)	Roller single bar Ø 500		
Depth control	Roller		
Stabilizing wheel	Not available		
Max. working depth (mm)	200		
Seed drill and walkway support kit	Not available		
Road traffic lights	As standard		





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 60

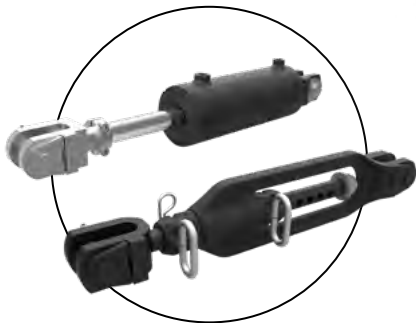
MOUNTED STUBBLE TINE HARROW

14 to 23 tines - Tractors: 125 to 210 hp - Working width: 4.30 to 5.30 m



Large clearance

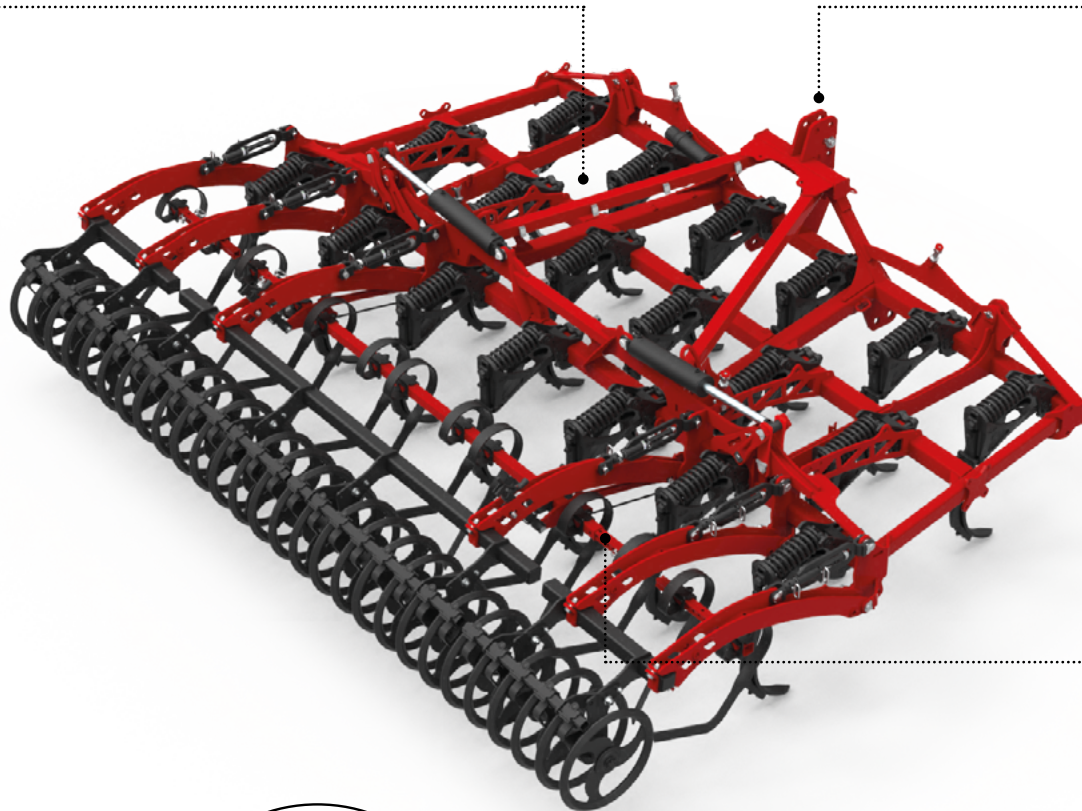
We offer two chassis heights, 750 mm as standard or 850 mm as an option, which increases the passage of plant volume through the Crossland.



Working depth

You can choose from two working depth adjustment methods:

a standard mechanical version with a high and low stop adjustment using a pin or a hydraulic cylinder system for increased productivity.



Hitching

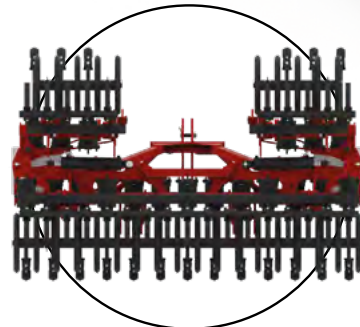
Hitching is compatible with Cat.3 and Cat.3N depending on the category of your tractor. Several heights are possible to adapt to your hitching arrangements. There are two possibilities for your top link; a fixed point to force penetration or a slot arrangement to allow for better contour following.



Combined adjustment

The leveling system is attached to the roller frame which enables the working height adjustment to be integrated with the roller.

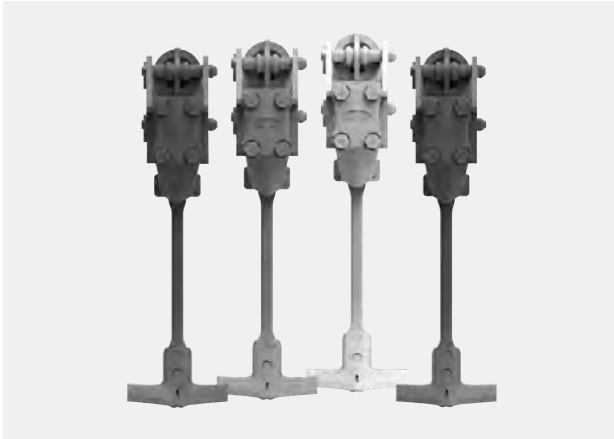
If you adjust the working depth, the leveling system changes at the same time.



Flat folding

This allows you to save space in your building during winter storage.

Three-stage folding means you can work in a folded position to increase penetration. As the Crossland width does not exceed 3.00 m, transport is completely safe.



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.



Spring-mounted Eurochisel tines

The auto-reset spring safety system protects your machine while you work in stony soil. When a stone is present, the tine retracts by compressing the spring. When the spring compresses, the pressure at the tip decreases which helps to protect it as it passes the stone. The tine leg is made of cast steel for increased impact and vibration resistance. On the tine housing, you have three adjustment heights to adjust the tips independently.



Tine shear bolts

The shear bolt safety system is designed for heavy or light soils that are not stony. The moulded block is very easy to use. The bolts, secured against turning, can be changed quickly using a single tool. The shear bolts are pre-cut to ensure clean breaks and easy changing. Finally, on the tine leg, we have integrated a release stop so that it does not become stuck.



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.



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.



Rear equipment

Three types of rear rollers are available according to your needs: square bars 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 60 TECHNICAL SPECIFICATIONS					
Working width (m)	4.30	4.90	5.50	4.40	4.85	5.30
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 190 92 / 140	125 / 190 92 / 140	175 / 210 129 / 154	125 / 190 92 / 140	150 / 200 110 / 147	175 / 210 129 / 154
Transport width (m)	3.00					
Transport height (m)	2.20					
Approximate weight with single bars roller Ø 500 (kg)	2 184	2 280	2 451	2 349	2 445	2 616
Yoke hitch type (Cat.)	3N - 3 - Quick coupler					
Chassis version	Mounted, three-stage flat-folding					
Number of tines	14	16	18	19	21	23
Deflector	Optional Double mix / Universal (only with Dart tip)					
Tip	Reversible TH / Optional carbide TH, cast Dart, carbide Dart, goose share					
Spoiler (mm)	Option (305)			Option (254)		
Tine spacing (mm)	306			230		
Spacing between tines in a row (mm)	690					
Spacing between following harrows (mm)	800					
Under frame clearance (mm)	750 / Option 850					
Tine safety system	Standard shear bolt safety / Optional spring-mounted auto-reset					
Levelling system	Standard without / Hockey stick blade option					
Levelling safety system	Spring-mounted blade					
Roller adjustment	Standard: mechanical/Optional: hydraulic					
Rear equipment (mm)	Rollers: single bar Ø 500 / Double bar Ø 400/Ø 300 / Impak Ø 540 / Optional following harrow Ø 16*					
Depth control	Roller					
Stabilizing wheel	Not available	With following harrow 10.0/75x15.3 (Ø 760)	Not available		With following harrow 10.0/75x15.3 (Ø 760)	
Max. working depth (mm)	350					
Seed drill and walkway support kit	Available soon					
Road traffic lights	As standard					

* Option available only on 4.40m and 4.90m with front depth wheel.

CROSSLAND T60

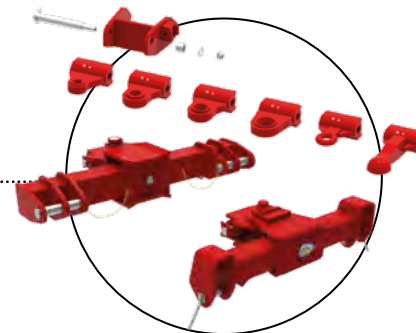
SEMI-MOUNTED STUBBLE TINE HARROW

19, 21 or 23 tines - Tractors: 125 to 210 hp - Working width: 4.40 to 5.30 m



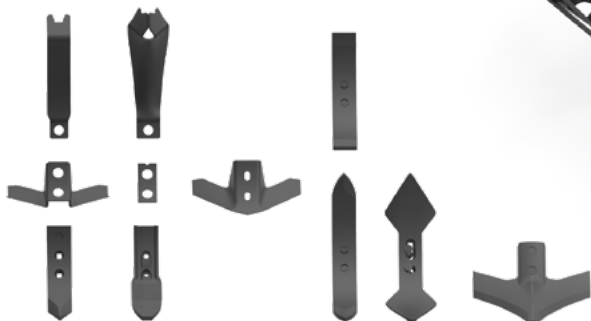
Single point depth control

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.



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.



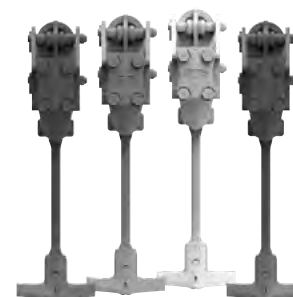
Wide choice of tips

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.



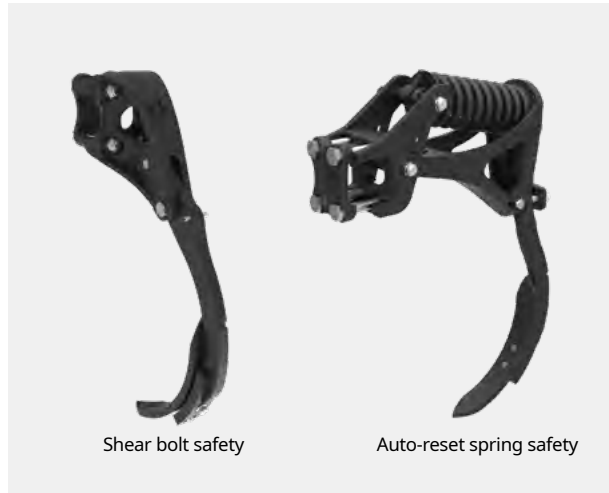
Tine spacing

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.



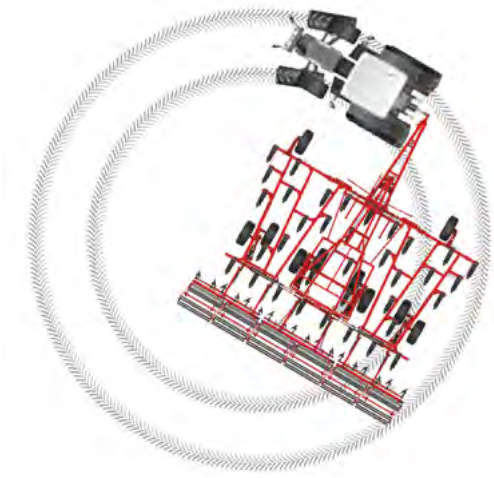
Perfect field contour following

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.



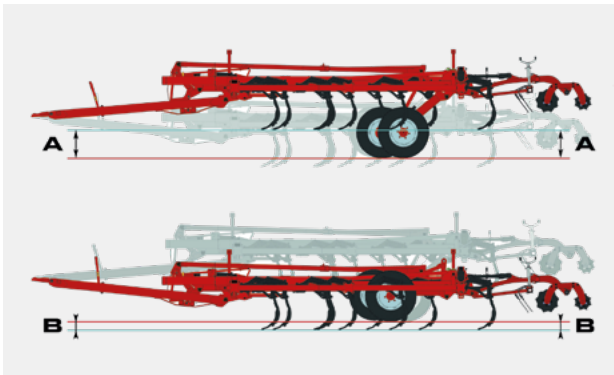
Choice of two safety systems

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.



A very manoeuvrable machine

The position of the wheels in the machine enables the best possible turning radius. The drawbar has been designed to work with dual wheel tractors.



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 bars 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 T60 TECHNICAL SPECIFICATIONS

	4.40	4.85	5.30
Working width (m)	4.40	4.85	5.30
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 190 92 / 140	150 / 200 110 / 147	175 / 210 129 / 154
Transport width (m)	3.00		
Transport height (m)	2.90	3.12	3.35
Approximate weight with single bars roller Ø 500 (kg)	4 657	4 847	5 693
Yoke hitch type (Cat.)	Double conical ring: Ø 35 mm - Ø 55 mm - Ø 65 mm / Option: arms CAT 3N - 3 / Scharmüller Ø 80 mm		
Chassis version	Semi-mounted be folded in three parts		
Number of tines	19	21	23
Deflector	Optional: Double mix /Universal (only with 'Dart' tip)		
Tip	Reversible TH / Optional: TH carbide, cast Dart, carbide Dart, goose share		
Spoiler (mm)	Option (254)		
Tine spacing (mm)	230		
Spacing between tines in a row (mm)	920		
Under frame clearance (mm)	800 to 1000		
Under frame clearance (mm)	750 / Option 850		
Tine safety system	Standard: shear bolt / Optional: spring-mounted auto-reset		
Levelling system	Standard without / Hockey stick blade option		
Levelling safety system	Spring-mounted blade		
Roller adjustment	Standard: mechanical / Optional: hydraulic		
Rear equipment (mm)	Roller : single bar Ø 500 / Double bar Ø 400/Ø 300 / Impak Ø 540 / Optional following harrow Ø 16		
Stabilizing wheel	Not available		
Depth control	Wheels		
Pneumatique	340/65R18 (Ø 890)		
Braking	Standard: hydraulic / Optional: tyre		
Max. working depth (mm)	350		
Seed drill and walkway support kit	Available soon		
Road traffic lights	As standard		

* Option available only on 4.40m with front depth wheel.

CROSSLAND T70

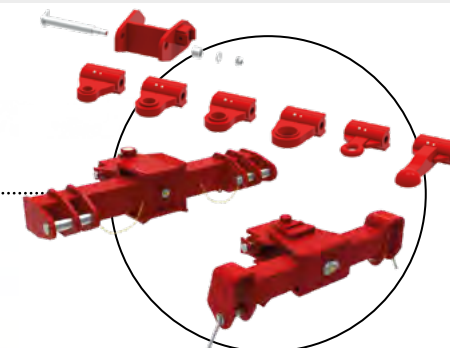
SEMI-MOUNTED STUBBLE TINE HARROW

23 or 25 tines - Tractors: 210 to 310 hp - Working width: 5.30 to 5.75 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.



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.



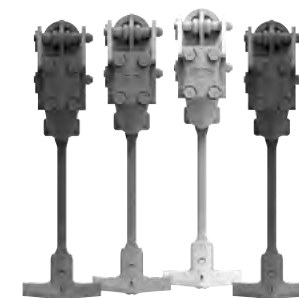
Wide choice of tips

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.



Tine spacing

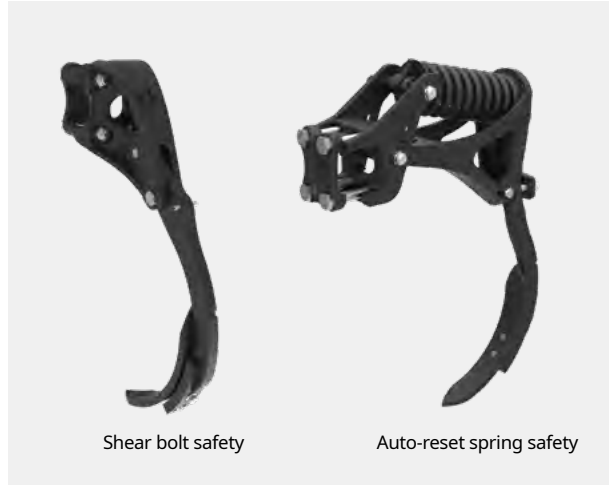
The Crossland has a tine spacing of 230 mm, which creates small bands of soil resulting in finer surface work. This choice is more economical as less pulling power is needed, resulting in better fuel consumption. This concept also means it is easier to level the ground as fewer ridges are created.



Flat folding

This allows you to save space in your building during winter storage.

Three-stage folding means you can work in a folded position to increase penetration. As the Crossland width does not exceed 3.00 m, transport is completely safe.



Shear bolt safety

Auto-reset spring safety

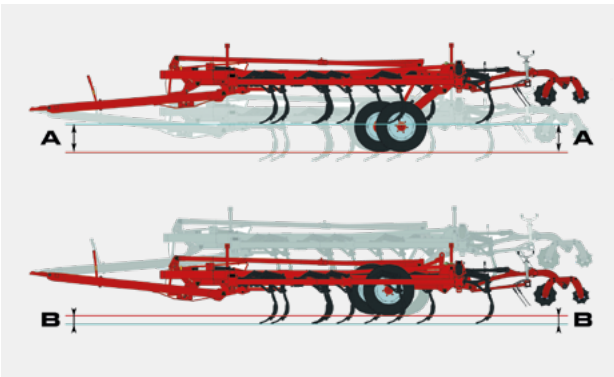
Choice of two safety systems

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.



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.



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 bars 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 T70 TECHNICAL SPECIFICATIONS

Working width (m)	5.30	5.75
Tractor power (HP) <i>Tractor power (kW)</i>	210 / 280 154 / 206	220 / 310 162 / 228
Transport width (m)	3.00	
Transport height (m)	3.20	
Approximate weight with single bars roller Ø 500 (kg)	5 655	5 705
Yoke hitch type (Cat.)	Double conical ring: Ø 35 mm - Ø 55 mm - Ø 65 mm / Option: arms CAT 3N - 3 / Scharmüller Ø 80 mm	
Chassis version	Semi-mounted, three-stage flat-folding	
Number of tines	23	25
Deflector	Optional: Double mix / Universal (only with 'Dart' tip)	
Tip	Reversible TH/Optional: TH carbide, cast Dart, carbide Dart, goose share	
Spoiler (mm)	Option (254)	
Tine spacing (mm)	230	
Spacing between tines in a row (mm)	920	
Under frame clearance (mm)	800 to 1000	
Under frame clearance (mm)	750 / Option 850	
Tine safety system	Standard: shear bolt / Optional: spring-mounted auto-reset	
Levelling system	Standard without / Hockey stick blade option	
Levelling safety system	Spring-mounted blade	
Roller adjustment	Standard: mechanical / Optional: hydraulic	
Rear equipment (mm)	Roller: single bar Ø 500 / Double bar Ø 400/Ø 300 / Impak Ø 540 / Optional following harrow Ø 16	
Stabilizing wheel	Standard without / Optional 340/65R18 (Ø 890)	
Depth control	Wheels	
Pneumatique	340/65R18 (Ø 890)	
Braking	Standard: hydraulic / Optional: tyre	
Max. working depth (mm)	350	
Seed drill and walkway support kit	Available soon	
Road traffic lights	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 V T60

SEMI-MOUNTED V-PROFILE OFFSET DISC HARROW

From 32 to 40 discs - Tractors: 125 to 210 hp - Working width: 3.60 to 5.25 m



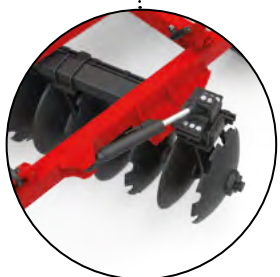
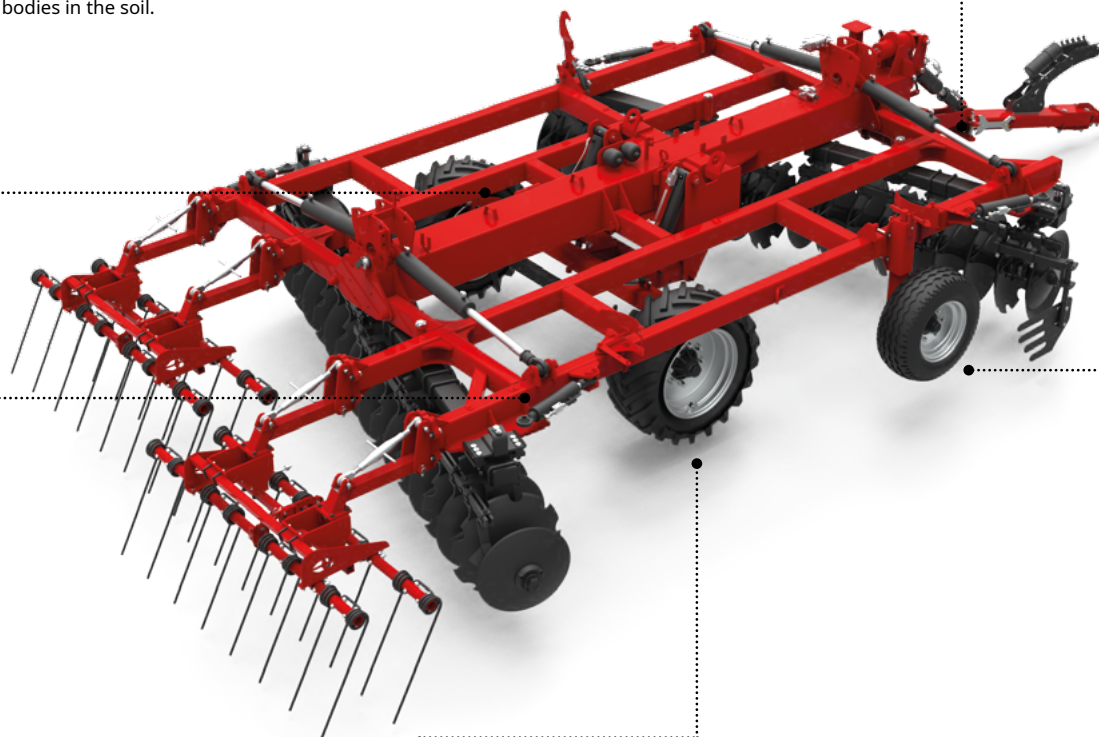
Single beam chassis

The single beam chassis (300 x 200 x 8 mm) allows the tractive force to pass to the disc gangs in order to resist foreign bodies in the soil.



Drawbar angle

For optimal pulling power, the drawbar angle can be adjusted by a hydraulic cylinder. This system enables you to control the cylinder as desired.



Réglage de l'angle des disques

Le réglage d'angle des disques est Mechanical de série et en option vous pouvez choisir le réglage Hydraulic. L'avantage du train de disques disposé en V est d'être plus stable dans les terrains to relief.



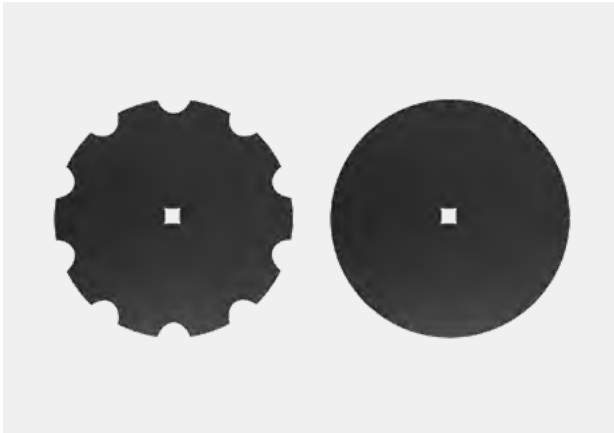
Central axle

The centre positioning of the axle ensures good load transfer and precise control of the working depth.



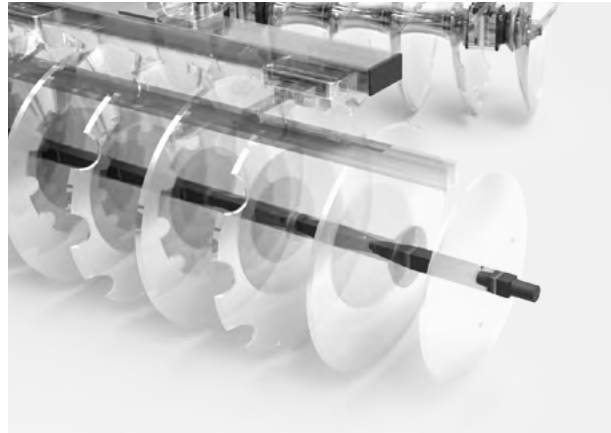
Stabilizing wheel

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.



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

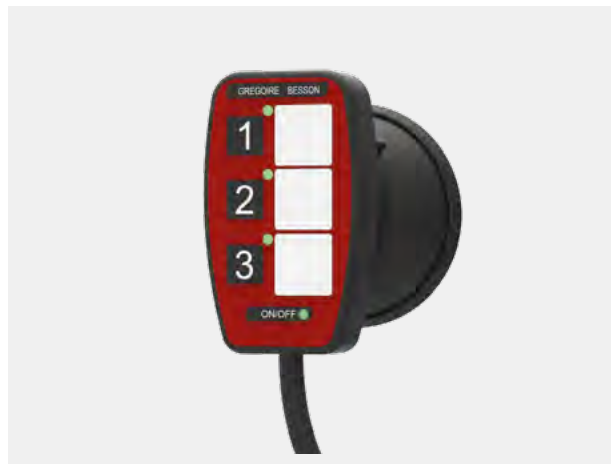
The compact, cast iron housing means that it will not interfere with the passage of residues. This minimizes jamming.

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.



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.



Hydraulic control box (optional)

All adjustments are made from the tractor cab even if you have only two or three double-acting valves. This allows you to combine a large number of hydraulic options for maximum ease of use.



Safe transport

The machine's hydraulic folding system ensures safe transport. To make travelling easier, the Cover is 2.50 m wide and the height is optimized.



COVER V T60 TECHNICAL SPECIFICATIONS

Working width (m)	3.60	4.00	4.40	4.80	5.20	3.65	4.20	4.70	5.25
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 140 92 / 103	135 / 150 99 / 110	145 / 170 107 / 125	155 / 190 114 / 140	165 / 210 121 / 164	125 / 140 92 / 103	135 / 150 99 / 110	145 / 180 107 / 133	155 / 210 114 / 154
Transport width (m)	3.00								
Transport height (m)	2.00	2.15	2.40	2.70	2.80	2.10	2.30	2.50	2.80
Indicative weight (Kg)	4 380	4 830	5 350	5 870	6 390	4 250	4 910	5 430	5 950
Yoke hitch type (Cat.)	Cast ring ball joint: Ø 35 mm - Ø 45 mm - Ø 55 mm								
Chassis version	Can be folded in two parts								
Number of discs	32	36	40	44	48	28	32	36	40
Disc shaft diameter (mm)	40 x 40								
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	Front: standard mechanical / Optional: hydraulic - Rear: standard hydraulic								
Stabilizing wheel	Side wheel 10.0/75x15.3 (Ø 795 mm)								
Tyres	Standard 400/55x22.5 (Ø 1010 mm) / Option 500/45x22.5 (Ø 1021 mm)								
Braking	Standard hydraulic / Option tyre								
Seed drill walkway	Not available								
Hectare counter	Option								
Roller adjustment	Standard: mechanical tie rod / Optional: hydraulic								
Rear equipment (mm)	Standard without / Optional following harrow or square bars roller Ø 500								
Road traffic lights	As standard								

COVER V T70

SEMI-MOUNTED V-PROFILE OFFSET DISC HARROW

From 36 to 48 discs - Tractors : 200 to 310 hp - Working width: 4.50 to 5.95 m



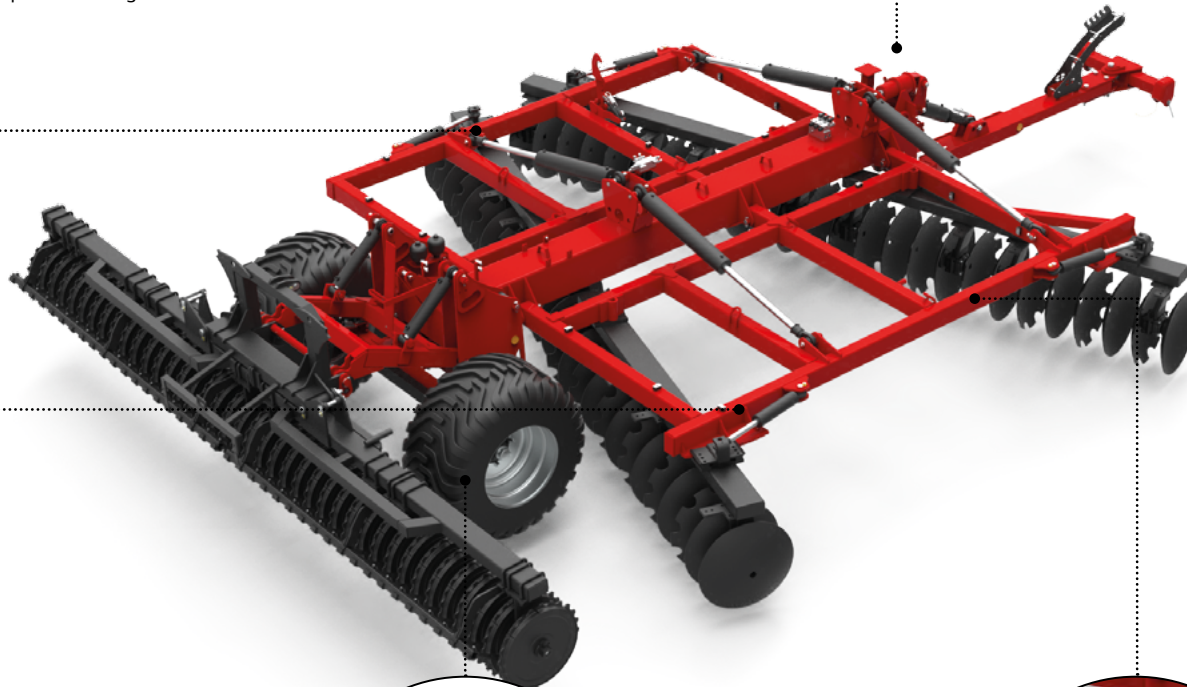
Single beam chassis

Strength based on single-beam chassis design measuring 300 x 200 x 8 mm. It enables the pulling force to be directed to the disc gangs and to resist foreign bodies present in the ground.



Drawbar angle

For optimal pulling power, the drawbar angle can be adjusted by a hydraulic cylinder. This system enables you to control the cylinder as desired.



Disc angle adjustment

The disc angle adjustment is mechanical as standard, as an option you can choose hydraulic adjustment. V-shaped disc gangs have the advantage of being more stable on uneven ground.



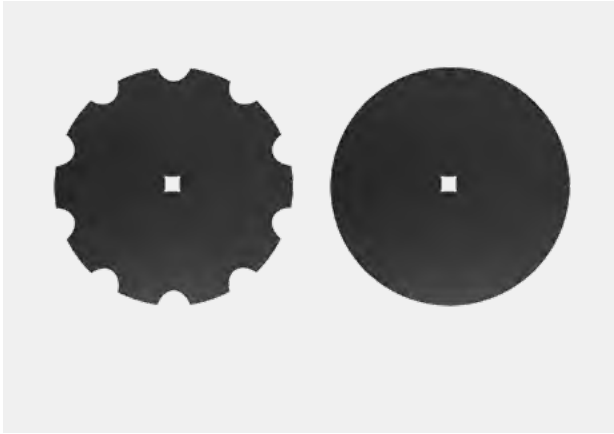
Central axle

The centre positioning of the axle ensures good load transfer and precise control of the working depth.



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.



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

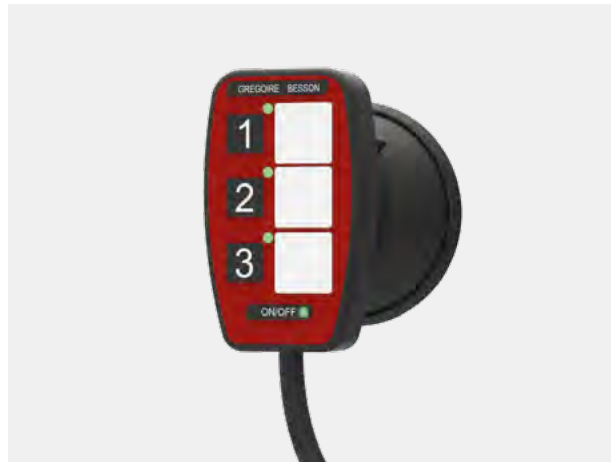
The compact, cast iron housing means that it will not interfere with the passage of residues. This minimizes jamming.

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.



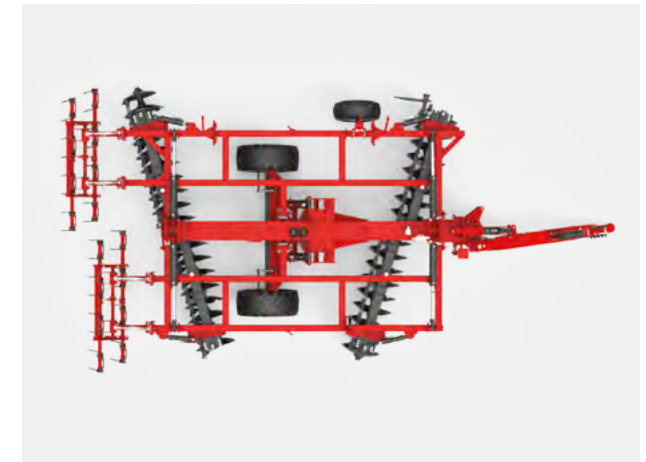
Bearing protection

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.



Hydraulic control box (optional)

All adjustments are made from the tractor cab even if you have only two or three double-acting valves. This allows you to combine a large number of hydraulic options for maximum ease of use.



Stable on rugged terrain

The V-profile arrangement of the disc lines is ideal for working on hilly terrain. This design allows the machine to remain stable on slopes which increases productivity and makes your work easier.



COVER V T70 TECHNICAL SPECIFICATIONS

Working width (m)	4.50	4.95	5.50	4.95	5.40	5.95
Tractor power (HP) <i>Tractor power (kW)</i>	210 / 270 <i>164 / 201</i>	220 / 280 <i>164 / 209</i>	230 / 290 <i>172 / 216</i>	220 / 280 <i>164 / 209</i>	230 / 290 <i>172 / 216</i>	240 / 310 <i>179 / 231</i>
Transport width (m)	3.00					
Transport height (m)	2.50	2.70	3.10	2.70	3.00	3.10
Indicative weight (Kg)	4 680	4 890	5 040	4 650	4 790	4 950
Yoke hitch type (Cat.)	Cast ring ball joint: Ø 35 mm - Ø 45 mm - Ø 55 mm					
Chassis version	Can be folded in two parts					
Number of discs	40	44	48	36	40	44
Disc shaft diameter (mm)	40 x 40					
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	Front: standard mechanical / Optional: hydraulic - Rear: standard hydraulic					
Stabilizing wheel	One side wheel 10.0/75x15.3 (Ø 795 mm)					
Tyres	Standard 400/55x22.5 (Ø 1010 mm) / Option 500/45x22.5 (Ø 1021 mm) or 600/50x22.5 (Ø 1170 mm)					
Braking	Standard: hydraulic / Option: tyre					
Seed drill walkway	Option					
Hectare counter	Option					
Roller adjustment	Hydraulic					
Rear equipment (mm)	Standard without / Option: square bars roller Ø 600 / Emopak P Ø 600 / Emopak V Ø 600					
Road traffic lights	As standard					

COVER X T60

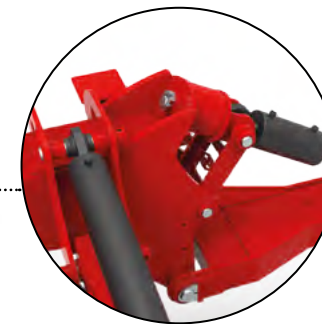
SEMI-MOUNTED X-PROFILE OFFSET DISC HARROW

From 28 to 44 discs - Tractors: 125 to 210 hp - Working width: 2.50 to 4.40 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.



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.



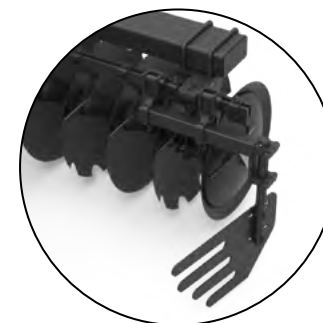
Disc gang adjustment

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.



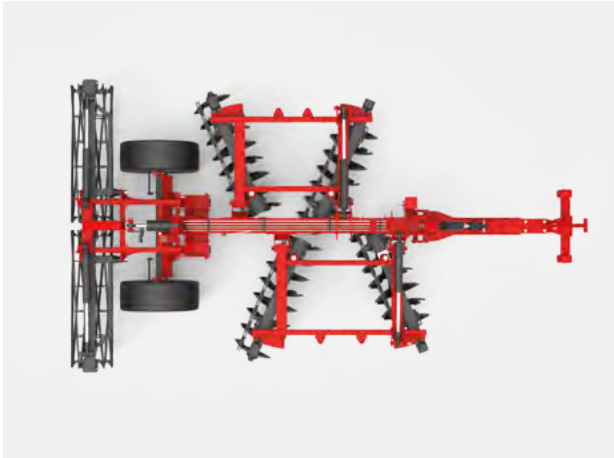
Rear equipment

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.



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.



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.



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.



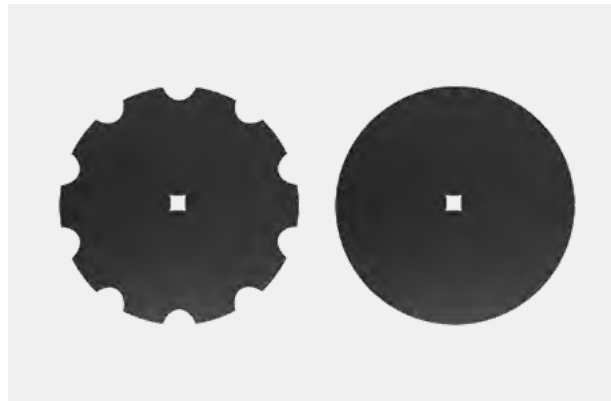
Bearing protection

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.



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.



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.



Seed drill + walkway support kit

You have the option of integrating a support and a walkway for the installation of a 300-litre plant cover seed drill. You can either adapt your own seed drill or order one with the machine (factory assembly). The advantage of combining seed drilling and stubble ploughing is to maximise the use of your equipment which, in turn, improves depreciation costs. This combination also reduces your crop seeding costs.



COVER X T60 TECHNICAL SPECIFICATIONS

Working width (m)	2.50	2.90	3.30	3.70	4.10	3.00	3.45	3.90	4.40
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 140 92 / 103	135 / 150 99 / 110	145 / 170 107 / 125	155 / 190 114 / 140	165 / 210 123 / 164	135 / 150 99 / 110	145 / 170 107 / 125	155 / 190 114 / 140	165 / 210 123 / 164
Transport width (m)	2.50								
Transport height (m)	1.50	1.70	2.00	2.60	2.70	1.70	2.00	2.70	2.80
Poids indicatif (kg)	4 150	4 430	4 710	5 040	5 320	4 430	4 710	5 040	5 320
Yoke hitch type (Cat.)	Standard: hitch on arm cat 2 / Option: hitch on arm cat 3N ou 3 / Cast ring ball joint: Ø 35 mm - Ø 45 mm								
Chassis version	Can be folded in two parts								
Number of discs	28	32	36	40	44	28	32	36	40
Disc shaft diameter (mm)	40 x 40								
Spacing between discs (mm)	Standard Ø 660 / Option Ø 710								
Disc diameters (mm)	7 mm at the front and 6 mm at the back								
Disc thicknesses (mm)	195					230			
Under frame clearance (mm)	800								
Max. working depth (mm)	200								
Working part safety system	Fixed seating								
Disc angle adjustment	Standard: mechanical / Option: hydraulic								
Stabilizing wheel	Not available								
Tyres	Standard 385/65x22.5 (Ø 1072 mm) / Option 500/45x22.5 (Ø 1021 mm)								
Braking	Standard: hydraulic / Option: tyre								
Seed drill walkway	Option								
Hectare counter	Option								
Roller adjustment	Hydraulic								
Rear equipment (mm)	Standard: single bar roller Ø 600 / Option: double bar Ø 500/ Ø 400 / Emopak V Ø 600 / Emopak P Ø 600								
Road traffic lights	As standard								

COVER X T70

SEMI-MOUNTED X-PROFILE OFFSET DISC HARROW

From 36 to 64 discs - Tractors: 125 to 310 hp - Working width: 3.20 to 6.20 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.



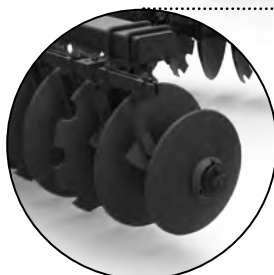
Easy to adjust

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.



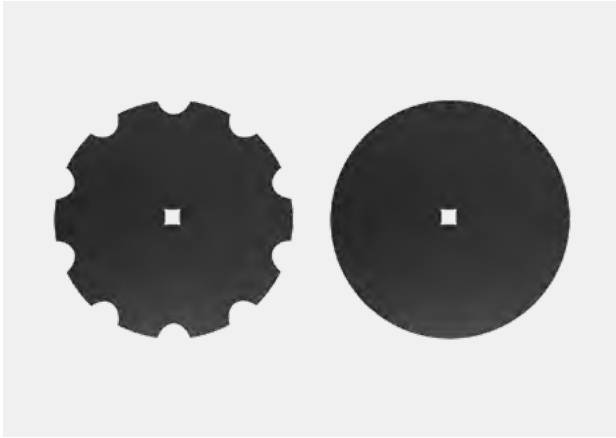
Graduated mounting

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.

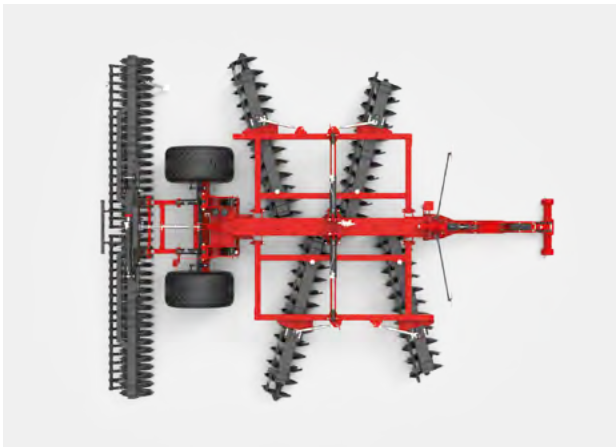
The mechanically welded design along with the choice of steel make our disc gang seating the best on the market.



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 T70 TECHNICAL SPECIFICATIONS						
Working width (m)	3.20	4.20	4.60	5.00	5.40	5.80	6.20
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 140 <i>92 / 104</i>	135 / 170 <i>99 / 127</i>	145 / 200 <i>107 / 149</i>	155 / 230 <i>115 / 171</i>	165 / 260 <i>123 / 194</i>	175 / 290 <i>130 / 216</i>	185 / 310 <i>138 / 231</i>
Transport width (m)	3.00						
Transport height (m)	1.80	2.20	2.40	2.60	2.80	2.90	3.30
Indicative weight (Kg)	4 100	4 560	4 980	5 170	5 420	5 550	5 690
Yoke hitch type (Cat.)	Standard: hitch on arm cat 3N / Option: hitch on arm cat 3 et 4 / Cast ring ball joint: Ø 35 mm - Ø 45 mm - Ø 55 mm						
Chassis version	Can be folded in two parts						
Number of discs	40	44	48	52	56	60	64
Disc shaft diameter (mm)	40 x 40						
Disc diameters (mm)	Standard Ø 660 / Option Ø 710						
Disc thicknesses (mm)	Standard 6 / Option 7 / 8 (Ø 660)						
Spacing between discs (mm)	195						
Under frame clearance (mm)	800						
Max. working depth (mm)	200						
Working part safety system	Fixed seating						
Disc angle adjustment	Standard: mechanical / Option hydraulic						
Stabilizing wheel	Not available		Standard without / Option: two side wheels 10.0/75x15.3 (Ø 760 mm) / 11.5/80x15.3 (Ø 845 mm)				
Tyres	Standard 400/55x22.5 (Ø 1010 mm) / Option 500/45x22.5 (Ø 1021 mm) - 600/50x22.5 (Ø 1171 mm)						
Braking	Standard hydraulic / Option tyre						
Seed drill walkway	Option						
Hectare counter	Option						
Roller adjustment	Hydraulic						
Rear equipment (mm)	Standard without / Option: square bars roller Ø 600 / Emopak P Ø 600 / Emopak V Ø 600					Standard without / Option: square bars roller Ø 600 / Emopak P Ø 600 / Emopak V Ø 600 / Single round bars Ø 900	
Road traffic lights	As standard						

	COVER X T70 TECHNICAL SPECIFICATIONS								
Working width (m)	4.00	4.40	4.80	5.30	5.80	6.20	4.50	5.00	5.50
Tractor power (HP) <i>Tractor power (kW)</i>	135 / 170 <i>99 / 127</i>	145 / 200 <i>107 / 149</i>	155 / 230 <i>115 / 171</i>	165 / 260 <i>123 / 194</i>	175 / 290 <i>130 / 216</i>	185 / 310 <i>138 / 231</i>	155 / 230 <i>115 / 171</i>	165 / 260 <i>123 / 194</i>	175 / 290 <i>130 / 216</i>
Transport width (m)	3.00								
Transport height (m)	2.10	2.30	2.50	2.70	2.90	3.30	2.30	2.70	2.80
Indicative weight (Kg)	4 660	4 710	4 870	5 020	5 290	5 440	4 720	4 970	5 300
Yoke hitch type (Cat.)	Standard: hitch on arm cat 3N / Option: hitch on arm cat 3 et 4 / Cast ring ball joint: Ø 35 mm - Ø 45 mm - Ø 55 mm								
Chassis version	Can be folded in two parts								
Number of discs	36	40	44	48	52	56	36	40	44
Disc shaft diameter (mm)	40 x 40								
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 / Option hydraulic								
Stabilizing wheel	Not available		Standard sans / Option: two side wheels 10.0/75x15.3 (Ø 760 mm) ou 11.5/80x15.3 (Ø 845 mm)						
Tyres	Standard 400/55x22.5 (Ø 1010 mm) / Option 500/45x22.5 (Ø 1021 mm) - 600/50x22.5 (Ø 1171 mm)				Standard 18R22.5 (Ø 1150 mm) / Option 500/45x22.5 (Ø 1021 mm) - 600/50x22.5 (Ø 1171 mm)		Standard 400/55x22.5 (Ø 1010 mm) / Option 500/45x22.5 (Ø 1021 mm) - 600/50x22.5 (Ø 1171 mm)		
Braking	Standard hydraulic / Option tyre								
Seed drill walkway	Option								
Hectare counter	Option								
Roller adjustment	Hydraulic								
Rear equipment (mm)	Standard without / Option: square bars roller Ø 600 / Option double bars Ø 500 Ø 400 / Emopak P Ø 600 / Emopak V Ø 600 / Single round bars Ø 900						Standard without / Option: square bars roller Ø 600 / Option: double bars Ø 500 Ø 400 / Emopak P Ø 600 / Emopak V Ø 600		
Road traffic lights	As standard								

COVER XL T60

SEMI-MOUNTED X-PROFILE OFFSET DISC HARROW

From 40 discs - Tractors : 125 to 210 hp - Working width: 3.10 to 4.05 m



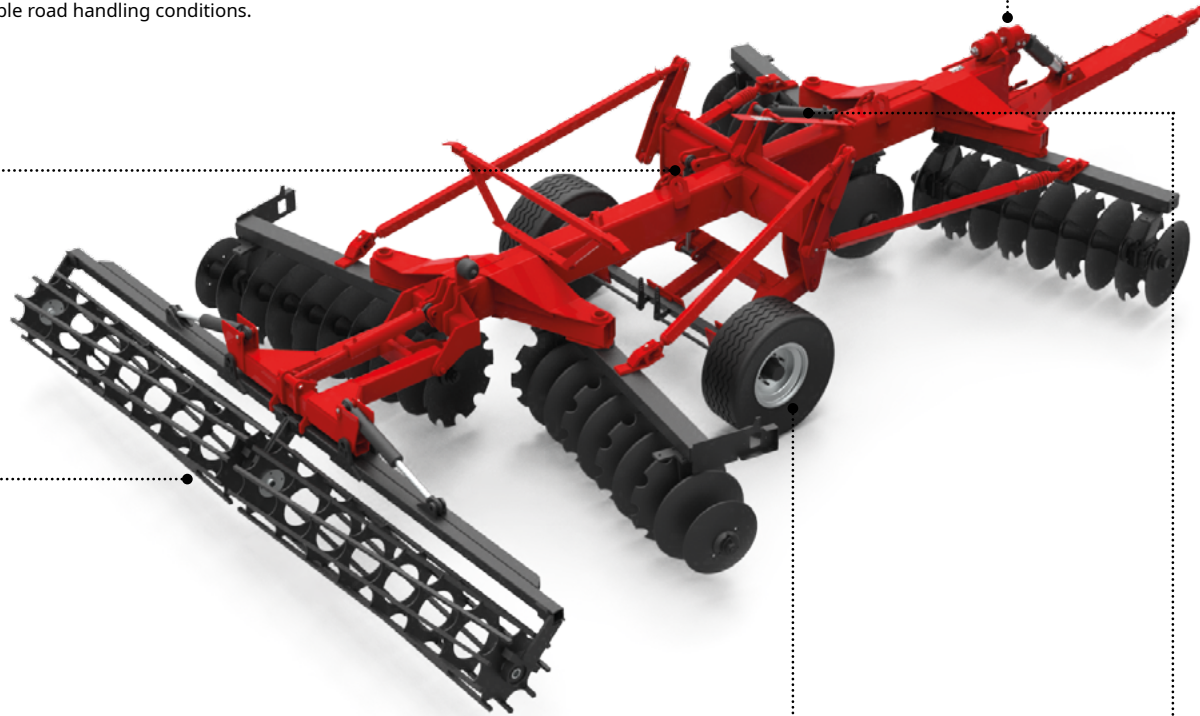
Axle suspension

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



Drawbar flexibility

The drawbar gives you flexibility and perfect handling thanks to two 'silentbloc' dampers located on the top of the cylinder.



Rear equipment

For finishing work, a bar roller can be fitted to the rear.

If your machine is equipped with a roller, you can choose whether to work with it or not, as it folds over the top of the machine.



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.



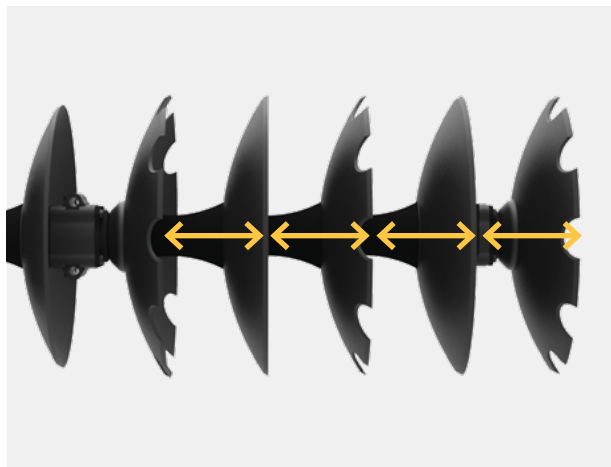
Adjusting hydraulic angles

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.



Choice of tyres

As standard for widths up to 4.00 meters, we offer the 11.5/80 x 15.3 wheel, and for widths greater than 4.00 meters we have the 12.5/80 x 15.3. As an option to give you more soil lift you can choose a wider wheel - the 445/45 x 19.5, or you can choose a low pressure tyre to limit soil compaction - the 400/60 x 15.



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.



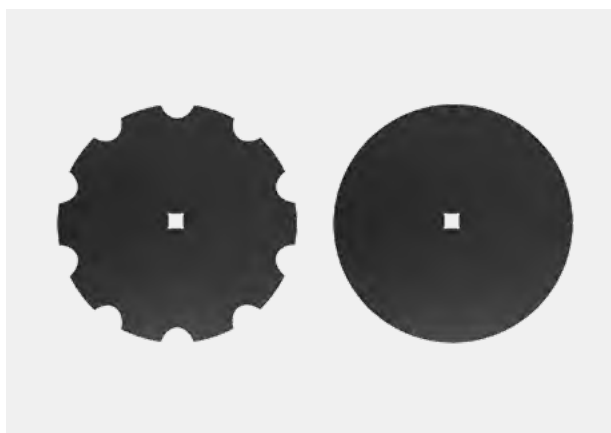
Low centre of gravity

This feature provides you with a high level of safety both on the road and in the field. A low centre of gravity gives you stability.



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.



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.



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 T60 TECHNICAL SPECIFICATIONS

Working width (m)	3.10	3.50	3.90	2.70	3.10	3.60	4.05
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 170 92 / 125	135 / 180 99 / 132	145 / 190 107 / 140	125 / 170 92 / 125	135 / 180 99 / 132	145 / 190 107 / 140	155 / 210 114 / 154
Transport width (m)	2.50						
Transport height (m)	1.80						
Indicative weight (Kg)	4 220	4 420	4 620	3 920	4 120	4 320	4 520
Yoke hitch type (Cat.)	Turning hitch Ø 50 mm						
Chassis version	Foldable in tunnel (horizontally)						
Number of discs	32	36	40	24	28	32	36
Disc shaft diameter (mm)	40 x 40						
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)	195			230			
Under frame clearance (mm)	800						
Max. working depth (mm)	200						
Working part safety system	Fixed seating						
Disc angle adjustment	Hydraulic						
Stabilizing wheel	Not available						
Tyres	Standard 11.5/80x15.3 (Ø 845 mm) / Option 445/45x19.5 (Ø 895 mm) or 400/60x15 (Ø 861 mm)						
Braking	Standard hydraulic / Option tyre						
Seed drill walkway	Not available						
Hectare counter	Option						
Roller adjustment	Mechanical with stop						
Rear equipment (mm)	Standard without / Option: square bars roller Ø 500 / round bars Ø 500						
Road traffic lights	As standard						

COVER XL T70

SEMI-MOUNTED X-PROFILE OFFSET DISC HARROW

From 40 to 64 discs - Tractors: 210 to 310 hp - Working width: 4.40 to 7.00 m



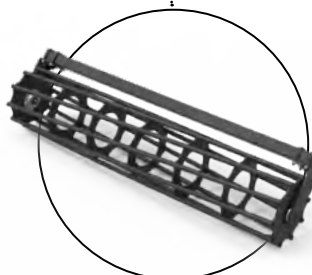
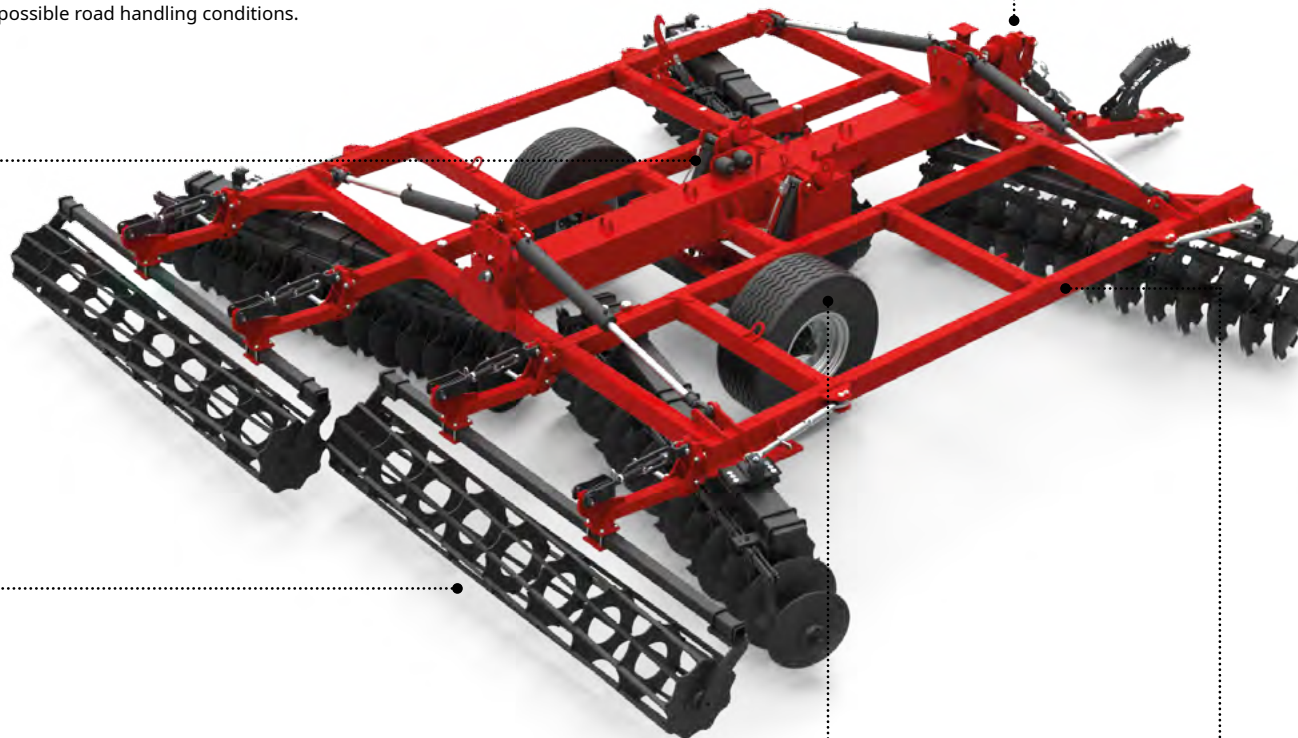
Axle suspension

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

For finishing work, a bar roller can be fitted to the rear.

If your machine is equipped with a roller, you can choose whether to work with it or not, as it folds over the top of the machine.



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.



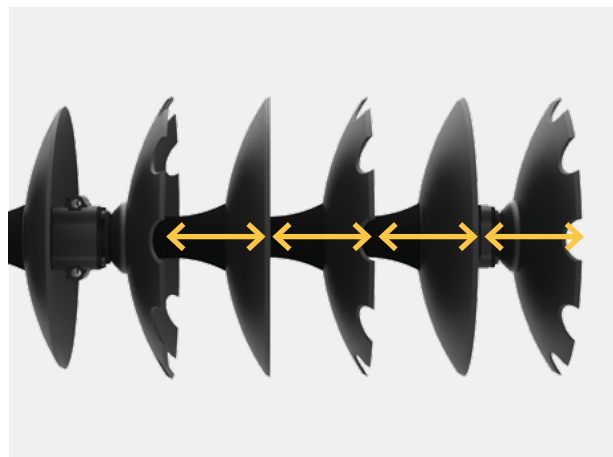
Stabilizing wheel

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

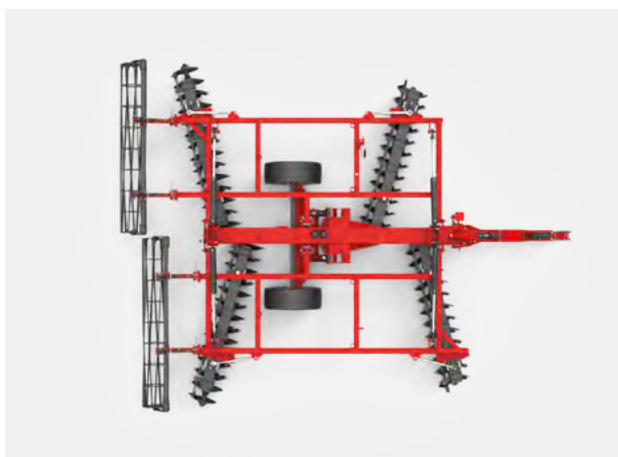
Depending on your needs, we offer two disc spacings. The 195 mm spacing is for fine work, recommended for shallow depths and the 230 mm spacing for more versatile use with summer stubble tillage and destruction of complex root systems.



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 T70 TECHNICAL SPECIFICATIONS				
Working width (m)	4.60	5.00	5.40	5.80	6.20
Tractor power (HP) <i>Tractor power (kW)</i>	210 / 260 154 / 191	220 / 270 162 / 198	230 / 280 169 / 206	240 / 290 176 / 213	250 / 310 184 / 228
Transport width (m)	3.00				
Transport height (m)	3.10	3.50	3.65	3.70	4.00
Indicative weight (Kg)	6 210	6 530	6 700	6 860	7 050
Yoke hitch type (Cat.)	Standard: cast ring ball joint Ø 35 mm / Option: cast ring ball joint Ø 45 mm - Ø 55 mm - 65 mm - Scharmüller K80				
Chassis version	Can be folded in two parts				
Number of discs	48	52	56	60	64
Disc shaft diameter (mm)	40 x 40				
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)	195				
Under frame clearance (mm)	800				
Max. working depth (mm)	200				
Working part safety system	Fixed seating				
Disc angle adjustment	Standard: mechanical / Option: hydraulic				
Stabilizing wheel	Standard without / Option: two side wheels 10.0/75x15.3 (Ø 760 mm) or 11.5/80x15.3 (Ø 845 mm)				
Tyres	Standard 400/55x22.5 (Ø 1010 mm) / Option 500/45x22.5 (Ø 1021 mm)				
Braking	Standard hydraulic / Option tyre				
Seed drill walkway	Not available				
Hectare counter	Option				
Roller adjustment	Mechanical tie rod				
Rear equipment (mm)	Standard without / Option: square bars roller Ø 500 - Double following harrow				
Road traffic lights	As standard				

COVER XL T70 TECHNICAL SPECIFICATIONS

	4.40	4.80	5.30	5.80	6.20	6.60	7.00
Working width (m)							
Tractor power (HP) <i>Tractor power (kW)</i>	210 / 250 154 / 184	220 / 260 162 / 191	230 / 270 169 / 198	240 / 280 176 / 206	250 / 290 184 / 213	260 / 300 191 / 220	270 / 310 198 / 228
Transport width (m)	3.00						
Transport height (m)	3.00	3.20	3.60	3.70	4.00	4.10	4.30
Indicative weight (Kg)	5 970	6 110	6 230	6 550	6 700	6 900	7 100
Yoke hitch type (Cat.)	Standard: cast ring ball joint Ø 35 mm / Option: cast ring ball joint Ø 45 mm - Ø 55 mm - 65 mm - Scharmüller K80						
Chassis version	Can be folded in two parts						
Number of discs	40	44	48	52	56	60	64
Disc shaft diameter (mm)	40 x 40						
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						
Under frame clearance (mm)	800						
Max. working depth (mm)	200						
Working part safety system	Fixed seating						
Disc angle adjustment	Standard: mechanical / Option: hydraulic						
Stabilizing wheel	Standard sans / Option: two side wheels 10.0/75x15.3 (Ø 760 mm) or 11.5/80x15.3 (Ø 845 mm)						
Tyres	Standard 400/55x22.5 (Ø 1010 mm) / Option 500/45x22.5 (Ø 1021 mm)						
Braking	Standard hydraulique / Option pneumatique						
Seed drill walkway	Not available						
Hectare counter	Option						
Roller adjustment	Mechanical tie rod						
Rear equipment (mm)	Standard without / Option: square bars roller Ø 500 - Double following harrow						
Road traffic lights	As standard						





OCCITAN

HIGH-CAPACITY
STUBBLE CULTIVATOR

Enhanced skills

An important weight per disc ratio and a non stop mechanical safety which allows the Occitan to be situated today between the Normandie and the Cover. A versatile range.

OCCITAN 60

FOLDABLE MOUNTED LARGE DIAMETER DISC HARROW

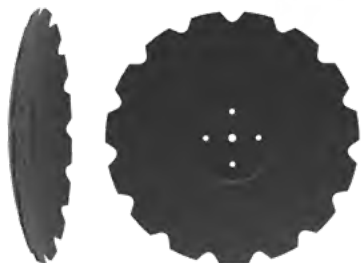
From 36 to 44 discs - Tractors: 125 to 310 hp - Working width: 4.20 to 5.20 m



Large clearances

The distance between the two rows of discs is 950 mm, which makes the Occitan easy to work in the presence of a lot of plant residues without any risk of blockage.

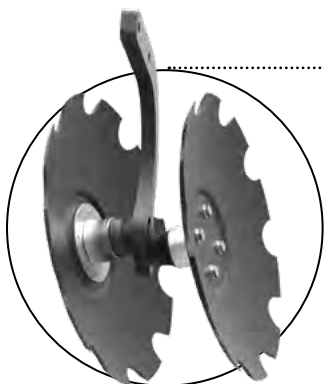
The clearance under the beam that holds the safety devices is 650 mm. This height ensures that you can pass through the vegetation and work at a great depth without any problem.



Two large-diameter discs

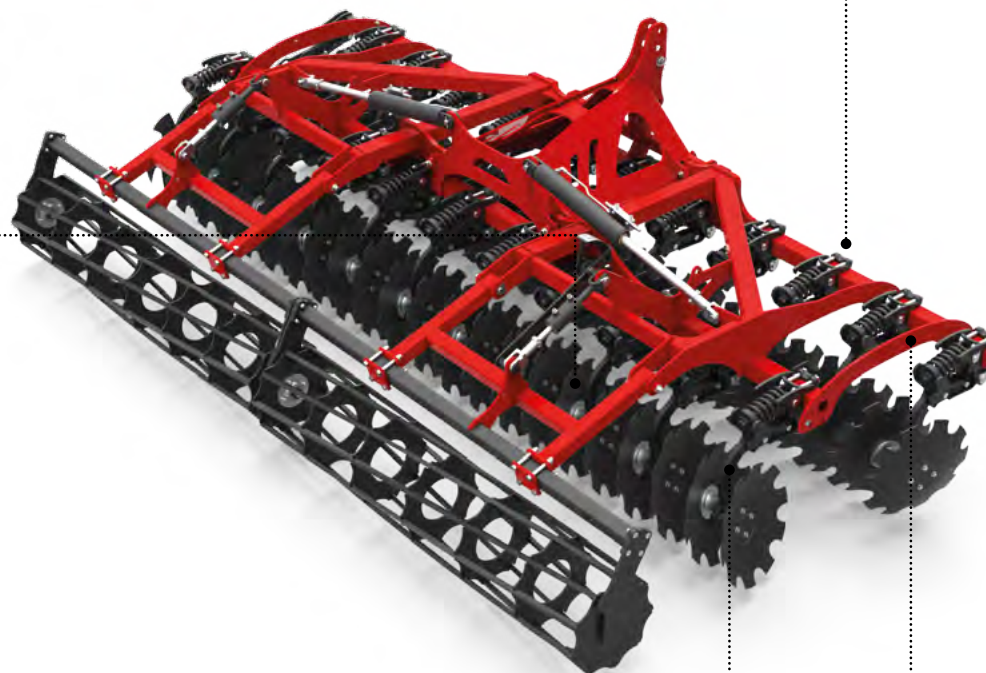
We offer two discs Ø 620 mm with small notches. These discs are self-sharpening and their crenellations ensure an optimal cutting of the residues for a good decomposition. The rather large curvature of the disc allows a scalping over the whole surface and a homogeneous mixture.

As standard we offer a thickness of 6 mm.



Two discs per arm

The safety devices have been designed to accommodate a double offset bearing which allows perfect alignment of all discs in the row. This means that we have exactly the same distance between each disc, which ensures that you get a homogeneous and high quality work. Having two bearings per arm has allowed us to increase the clearance in the machine and save weight. The forces are better distributed on the safety because there is one disc on each side, thus optimizing its operation. The penetration capacity of the tool is maximum even in dry conditions.



Non-stop safety device springs out

The non-stop spring-loaded safety system provides you with optimum operating comfort and ensures that you can work non-stop.

In addition, this system ensures a very good penetration of the discs due to its resistance to release.

Resulting from the technology used on the Eurochisel tooth of our Crossland range, it starts its release at 350 kg to reach a resistance up to 420 kg at 10 cm, then the resistance decreases to 18 cm. This system allows you to limit as much as possible the stresses and shocks in the frame in order to bring a long life to your equipment.



High-strength frames

The design of our chassis ensures high resistance to stress and a very good distribution of traction forces. The tubes are nested in the oxycutting and the effort is multiple. The steels used are of superior quality for a top-of-the-range machine.



Combination with a vegetation cover seed drill

You have the possibility to integrate a plate and a gangway for the mounting of a 300 litre canopy seed drill. You can either adapt your own seed drill or order one with the machine (factory fitted). The advantage of combining seed drilling and stubble tillage is to reduce the depreciation cost of your implement which will be used on more surface. This combination also reduces your crop seeding costs.



4 rollers of your choice

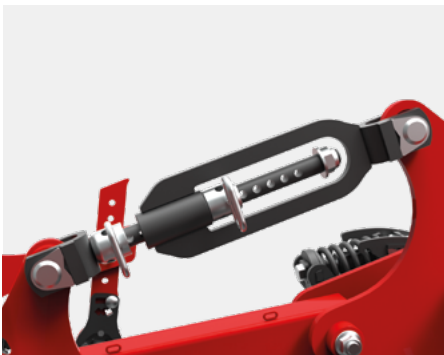
We offer four types of rollers on this range of material. You can choose between a single square bars roller

Ø 500 mm adapted for a good depth control and used for its aggressiveness on plant residues. There is also a double bar roller Ø 500/400 mm which accelerates the decomposition of the residues and facilitates the contact with the seeded soil. We offer two versions of the Impak roller Ø 540 mm with a V profile for in-line finishing and deep soil consolidation and the U profile which allows the machine to be well maintained and push its limits in wet conditions.



Infinitely variable hydraulic roller adjustment

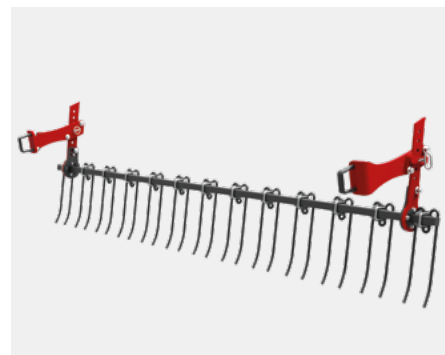
You can add a little technology to your machine by integrating the hydraulic roller adjustment option. We use the system of master-slave cylinders which ensures you have optimal adjustment precision. So you don't have to get off the tractor to add chocks. You can therefore change your working depth easily and at any time according to your plot of land.



A simple machine

We have chosen simplicity to make the tool easier to use. The depth settings of the combs or rollers are optimised so that you don't waste time in the field.

Some adjustments can be made from the tractor cab if you choose the hydraulic option.



Two optional comb harrows

You can customize your machine by adding one or two comb harrows. The first one can be placed between the two disc lines to channel the flow and make it fall down before the rear discs pass. This results in a better cut and a more even mulch. The second comb harrow placed between the last row of discs and the roller provides stability to the tool by limiting the projection of the flow into the roller, you can work at high speeds.



Side deflectors ironclad

A left side deflector is fitted as standard and the right is optional (recommended). These disc deflectors catch the soil flow from the outside working discs and channel this flow into the machine template so that there are no markings between each pass. These devices are mounted on a swivel in order to retract in the event of encountering a foreign object.



Lower cost per hectare

The work carried out on the Occitan on the disc arm angles and the choice of the disc with a pronounced curve allows us to affirm today that fuel consumption is limited. Tractive forces are low and the work remains homogeneous for a good decomposition of crop residues or cover crops. With the installation of a canopy seed drill (optional) you can cover a wider range of tasks on your farm.



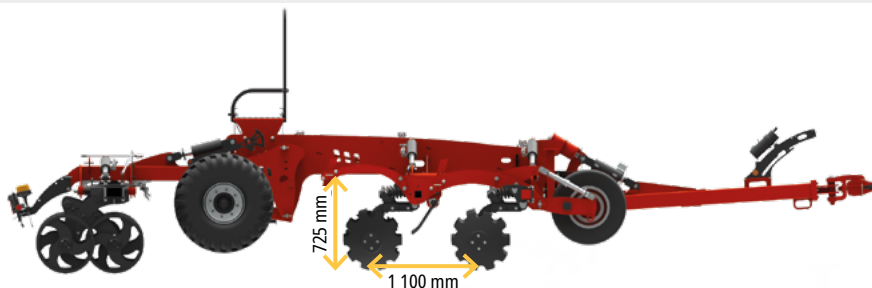
OCCITAN 60 TECHNICAL SPECIFICATIONS

Working width (m)	4.20	5.20
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 240 92 / 176	210 / 310 154 / 228
Yoke hitch type (Cat.)	3N / 3 / Quick coupler	
Chassis version	Foldable	
Number of discs	36	44
Type of disc	Standard large notches / Option small notches	
Disc diameters (mm)	620	
Disc thicknesses (mm)	6	
Spacing between discs (mm)	230	
Clearance between two rows of discs (mm)	950	
Under frame clearance (mm)	650	
Max. working depth (mm)	180	
Safety of the working element	Spring-mounted auto-reset	
Left anti-spray device	As standard	
Straight anti-spray device	Option	
Levelling comb between discs rows	Option	
Levelling comb between discs and roller	Option	
Comb harrows after the roller	Option	
Seed drill support	Option	
Seed drill walkway	Option	
Kit de diffuseurs	Option	
Roller adjustment	Standard: mechanical / Optional: hydraulic	
Rear equipment (mm)	Rollers: single bar Ø 500 / Double bar Ø 500 Ø 400 / Impak V Ø 540 / Impak U Ø 540	
Road traffic lights	Standard	

OCCITAN T60

SEMI-MOUNTED LARGE DIAMETER DISC HARROW

From 36 to 52 discs - Tractors: 125 to 310 hp - Working width: 4.20 to 6.20 m



Large clearances

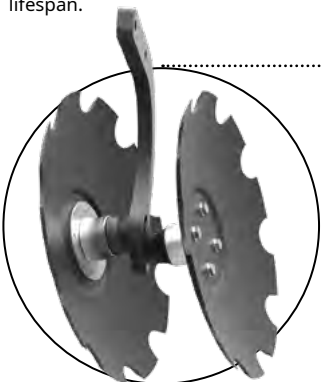
The distance between the two rows of discs is 1 100 mm, which makes the Occitan easy to work in the presence of a lot of plant residues without any risk of blockage.

The clearance under the beam that holds the safety devices is 725 mm. This height ensures that you can pass through the vegetation and work at a great depth without any problem.



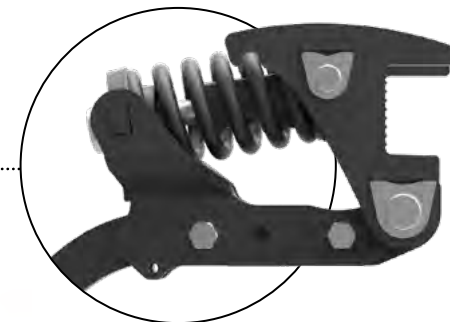
Maintenance-free bearings

The disc bearings are maintenance-free thanks to their sealing, thus limiting maintenance time and significantly increasing the machine's lifespan.



Two discs per arm

The safety devices have been designed to accommodate a double offset bearing which allows perfect alignment of all discs in the row. This means that we have exactly the same distance between each disc (230 mm), which ensures that you get a homogeneous and high quality work. Having two bearings per arm has allowed us to increase the clearance in the machine and save weight. The forces are better distributed on the safety because there is one disc on each side, thus optimizing its operation. The penetration capacity of the tool is maximum even in dry conditions.

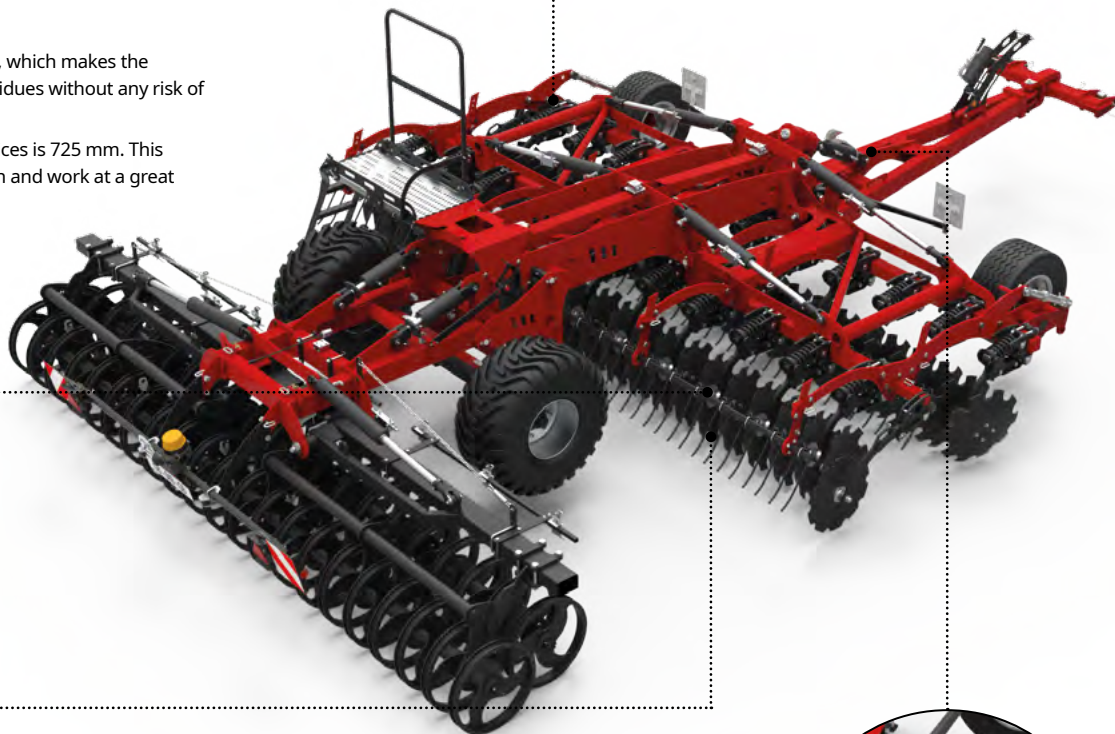


Non-stop safety device springs out

The non-stop spring-loaded safety system provides you with optimum operating comfort and ensures that you can work non-stop.

In addition, this system ensures a very good penetration of the discs due to its resistance to release.

Resulting from the technology used on the Eurochisel tooth of our Crossland range, it starts its release at 350 kg to reach a resistance up to 420 kg at 10 cm, then the resistance decreases to 18 cm. This system allows you to limit as much as possible the stresses and shocks in the frame in order to bring a long life to your equipment.



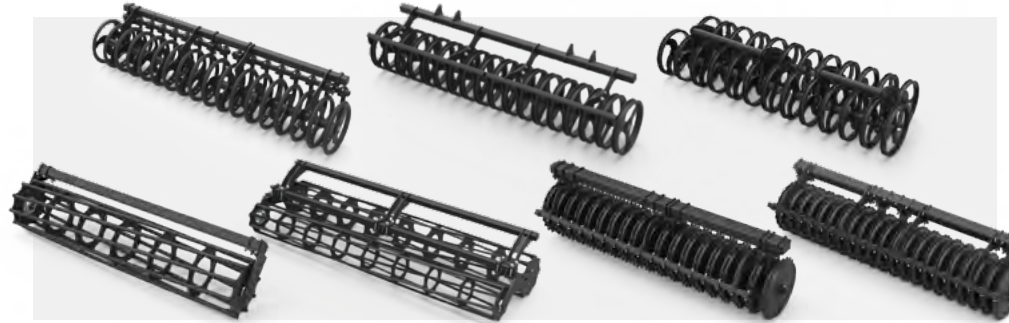
Hydraulic compensation

In order to simplify headland manoeuvring, we have a hydraulic drawbar cylinder with shock absorbers. This cylinder is connected in series with the lifting or lowering system of the undercarriage. A valve is used for this function. Depth adjustment at the front is done with 5 mm thick shims for good accuracy.



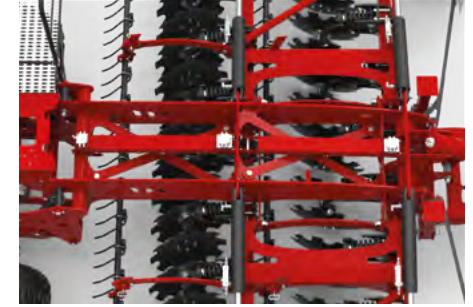
Combination with a vegetation cover seed drill

You have the possibility to integrate a plate and a gangway for the mounting of a 300 litre ou 500 litre canopy seed drill. You can either adapt your own seed drill or order one with the machine (factory fitted). The advantage of combining seed drilling and stubble tillage is to reduce the depreciation cost of your implement which will be used on more surface. This combination also reduces your crop seeding costs.



Choice of rollers

Equip your machine with a single bar roller Ø 600 mm suitable for good depth control and aggressiveness on plant residues! The double bar roller Ø 500/400 mm accelerates the decomposition of residues and facilitates soil-seed contact. Two versions of the Impak roller are available with a V profile (Ø 620 mm) for in-line finishing and deep soil consolidation and the U profile (Ø 640 mm) which holds the machine and pushes its limits in wet conditions. The double Impak U roller Ø 640 mm provides good load-bearing capacity and ground contact for light to medium-heavy soils. The Emopak V roller Ø 630 mm guarantees recoating for an excellent in-line finish. Finally, the Emopak P roller Ø 630 mm crushes clods and promotes weed germination.



A machine that stands the test of time

The design of our chassis ensures high resistance to stress and a very good distribution of traction forces. The tubes are nested in the oxcutting and the stress absorption is multiple. The steels used are of superior quality for a top-of-the-range machine.



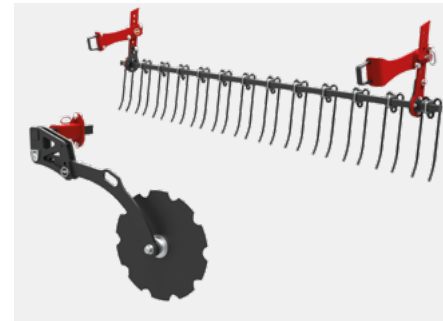
Two large-diameter discs

We offer two discs Ø 620 mm with small or large notches of 6 mm thickness. These discs are self-sharpening and their slots ensure an optimal cutting of the residues for a good decomposition. The large curvature of the disc allows scalping over the entire surface and homogeneous mixing.



Hydraulic working depth adjustment

Hydraulic roller adjustment is standard on this model. You can control the depth of the rear of your implement at any time from the tractor cab and while driving. You don't need to get off the tractor to add chocks. This means you can easily change your working depth at any time to suit your plot of land.



A customisable machine

You can personalise your machine by adding one or two comb harrows. The first allows you to channel the flow and make it fall back before the rear discs pass through for better cutting and a more homogeneous mulch. The second allows you to give stability to the tool by limiting the projection of the flow into the roller. A left side deflector is fitted as standard and the right is optional (recommended). These deflectors channel the flow into the machine template so that there is no marking between each pass.



Lower cost per hectare

The work carried out on the Occitan in terms of the angles of the disc arms and the choice of the disc with a pronounced curvature allows us to affirm today that fuel consumption is limited. Tractive forces are low and the work remains homogeneous for a good decomposition of crop residues or coverings. By fitting a canopy seed drill (optional), you can cover a wider range of tasks on your farm. Finally, the disc bearings are maintenance-free thanks to their sealing, considerably reducing maintenance time.



OCCITAN T60 TECHNICAL SPECIFICATIONS

	OCCITAN T60 TECHNICAL SPECIFICATIONS		
Working width (m)	4.20	5.20	6.20
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 175 92 / 129	165 / 240 121 / 177	205 / 310 151 / 228
Yoke hitch type (Cat.)	On arms, 3N / 3 / Quick coupler / Cast ring ball joint: Ø 45 mm - Ø 55 mm / Scharmüller K80		
Chassis version	Foldable in two parts		
Number of discs	36	44	52
Type of disc	Standard large notches / Option small notches		
Disc diameters (mm)	620		
Disc thicknesses (mm)	6		
Spacing between discs (mm)	230		
Clearance between two rows of discs (mm)	1 100		
Under frame clearance (mm)	725		
Max. working depth (mm)	180		
Safety of the working element	Non-stop spring loaded		
Left anti-spray device	De série		
Straight anti-spray device	Option		
Levelling comb between discs rows	Option		
Levelling comb between discs and roller	Option		
Comb harrows after the roller	Option		
Seed drill support	Option		
Seed drill walkway	Option		
Kit de diffuseurs	Option		
Roller adjustment	Standard: hydraulic		
Rear equipment (mm)	Rollers: single bar Ø 600 / Double bar Ø 500 Ø 400 / Impak V Ø 620 / Impak U Ø 640 / Double roller Impak U Ø 640 / Emopak V Ø 630 / Emopak P Ø 600		
Road traffic lights	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 60

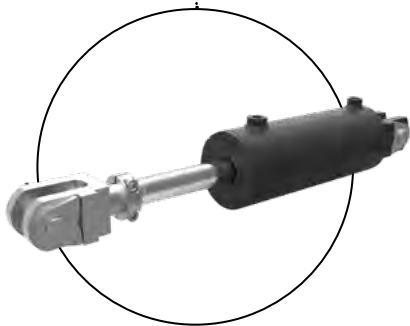
MOUNTED DISC HARROW

32 to 48 independent discs - Tractors: 125 to 310 hp - Working width: 4.00 to 6.00 m



Maintenance-free bearings

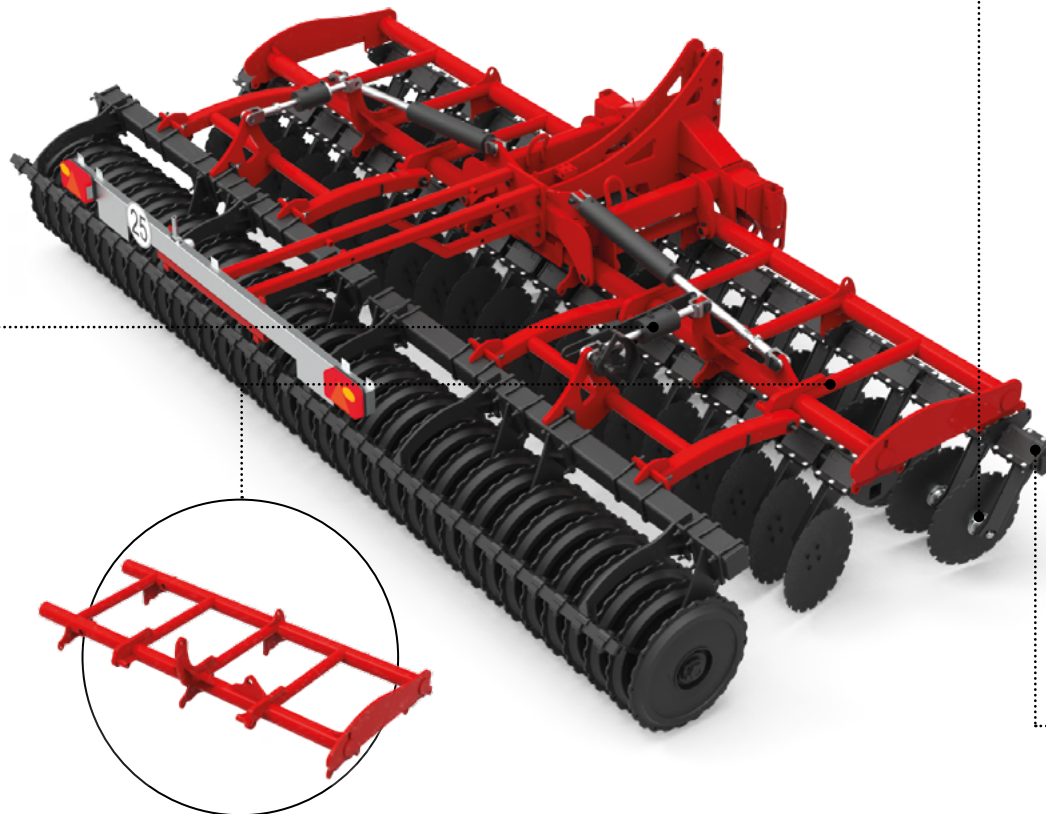
The sealing and lubrication technology of the Normandie bearings ensures maximum service life. Maintenance time is a factor that is often overlooked when calculating operational mechanisation costs. We have taken this into account to limit maintenance time.



Hydraulically adjusted rollers

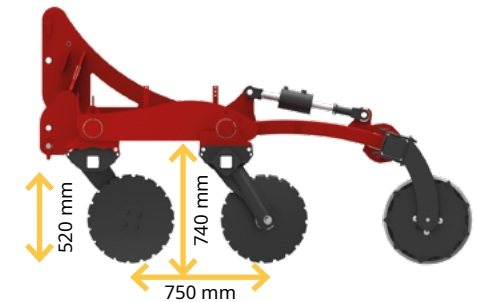
As standard, the roller adjustment is mechanical. It is equipped with a high stop for depth adjustment and a low stop for lifting the machine. This adjustment is carried out using a pin and an indicator on the stops.

As an option, you can choose hydraulic roller adjustment which uses master-slave cylinder technology. You can adjust your equipment precisely under any circumstances from the tractor cab.



A well-designed chassis

The top chassis is made of round tubes to minimize soil build-up and to reduce weight. In addition, the tubes are embedded in oxycut sections for greater tensile strength.



Large clearances

The underframe clearance is 740 mm and the distance between the two rows of discs is 750 mm. These two factors mean that the presence of plants is no problem for the Normandie. Plant residue passes easily and there is no risk of jamming.



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.



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 500 mm bar roller which is suitable for good depth control and aggressive plant residue actions. There is also a double Ø 500/400 mm bar roller which accelerates the decomposition of residues and promotes soil/seed contact. We offer the Ø 540 mm Impak roller with a V-profile for in-line finishing and deep soil consolidation. The Ø 630 mm Emopak roller is available for effective firming and an excellent in-line finish. The Ø 660 mm Packer roller is suitable for seed bed preparation.



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.



Combination with a vegetation cover seed drill

You have the option of integrating a support and a walkway for the installation of a 300-litre plant cover seed drill. You can either adapt your own seed drill or order one with the machine (factory assembly). The advantage of combining seed drilling and stubble ploughing is to maximise the use of your equipment which, in turn, improves depreciation costs. This combination also reduces your crop seeding costs.



Optional following harrow

A following harrow is available as an option. It is located between the rear disc gang and the roller. The advantage of this system is that it limits the flow of soil and residues and brings it down again before the roller passes.

In addition, this system provides stability to the machine at high speed.



Clean hitching

Normandie hitching is compatible with category 3N, 3 and Quick Coupler SAE tractors. We have two hitching heights available which makes it possible to adapt the equipment to any tractor.

All axes are locked against turning, which prevents premature wear.



NORMANDIE 60 TECHNICAL SPECIFICATIONS

	4.00	4.50	5.00	6.00
Working width (m)				
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 210 92 / 154	145 / 235 107 / 173	165 / 260 121 / 191	205 / 310 151 / 228
Transport width (m)	2.50			
Transport height (m)	2.28	2.53	2.77	3.29
Indicative weight (Kg)	2 600	2 750	2 900	3 300
Yoke hitch type (Cat.)	3N / 3 / Quick coupler			
Chassis version	Foldable in 2 parts			
Number of discs	32	36	40	48
Disc diameters (mm)	Standard Ø 510 / Option Ø 460 - Ø 560			
Disc thicknesses (mm)	Standard 5 / Option 5 - 6			
Spacing between discs (mm)	250			
Clearance between two rows of discs (mm)	750			
Under frame clearance (mm)	740			
Max. working depth (mm)	120			
Working part safety system	Elastomer non-stop			
Levelling harrow between discs and roller	Option			
Seed drill support	Option			
Seed drill walkway	Option			
Hectare counter	Option			
Roller adjustment	Standard: mechanical / Optional: hydraulic			
Rear equipment (mm)	Roller: single bar Ø 500 / Double bar Ø 500 400 / Impak V Ø 540 / Emopak V Ø 600			
Road traffic lights	Standard			

NORMANDIE T60

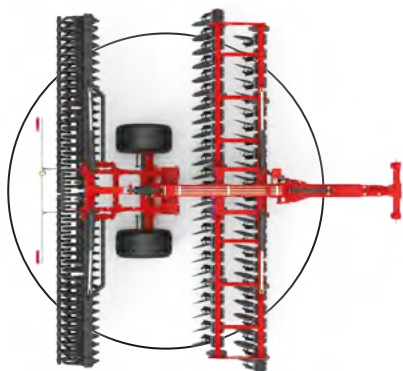
SEMI-MOUNTED DISC HARROW

32, 40 or 48 independent discs - Tractors: 125 to 210 hp - Working width: 4.00 to 6.00 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 stable machine at high speeds

The Normandie T60 design ensures optimal operations by placing the main axle between the discs and the roller. This configuration provides a large clearance and allows time for the residues to fall back before the roller passes. This means that the machine remains stable and also that the roller will be aggressive on residues already on the ground.



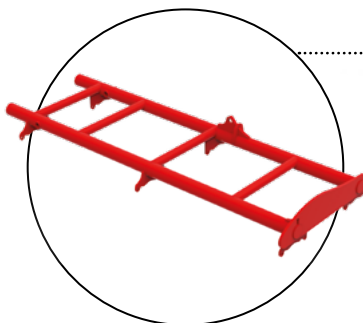
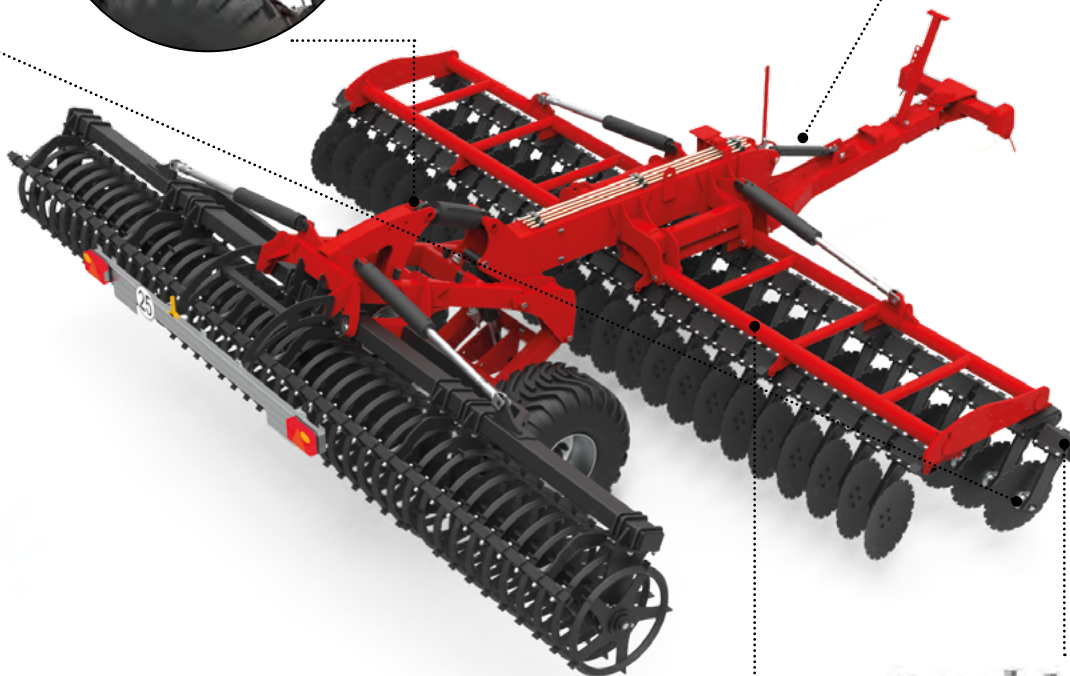
Hydraulic working depth adjustment

Hydraulic roller adjustment is standard on this model. You can control rear equipment depths at any time from the tractor cab.



Hydraulic drawbar cylinder

To simplify headland work and to ensure that equipment lifting is always parallel to the ground, we have an optional hydraulic drawbar cylinder. This cylinder is connected in series with the main axle lifting or lowering system. A valve is used for this function, whether you have chosen the mechanical tie rod or the hydraulic cylinder.



A well-designed chassis

The top chassis is made of round tubes to minimize soil build-up and to reduce weight. In addition, the tubes are embedded in oxycut sections for greater tensile strength.



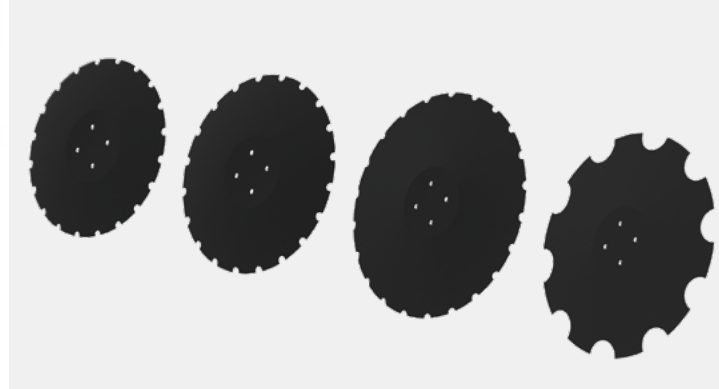
Elastomer auto-reset safety system. One disc on each arm

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.



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 Impak roller with a V-profile for in-line finishing and deep soil consolidation. The Ø 630 mm Emopak roller is available for effective firming and an excellent in-line finish. The Ø 660 mm Packer roller is suitable for seed bed preparation.



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.



Combination with a plant cover seed drill

You have the option of integrating a support and a walkway for the installation of a 500-litre plant cover seed drill. You can either adapt your own seed drill or order one with the machine (factory assembly). The advantage of combining seed drilling and stubble ploughing is to maximise the use of your equipment which, in turn, improves depreciation costs. This combination also reduces your crop seeding costs.



A simple machine

The Normandie T60 is very simple to use. All functions are hydraulic. Only 3 double-acting valves are required: the main axle, folding system and roller adjustment.

All adjustments can be made continuously from the tractor cab.



Transport safety

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

In addition, the main axle cylinder is connected to a hydraulic accumulator that acts as a suspension on the road and in headlands.



NORMANDIE T60 TECHNICAL SPECIFICATIONS

	NORMANDIE T60 TECHNICAL SPECIFICATIONS		
Working width (m)	4.00	5.00	6.00
Tractor power (HP) <i>Tractor power (kW)</i>	125 / 165 <i>92 / 121</i>	155 / 185 <i>114 / 136</i>	175 / 210 <i>129 / 154</i>
Transport width (m)	2.50		
Transport height (m)	3.00	3.50	4.00
Indicative weight (Kg)	3 980	4 250	4 820
Yoke hitch type (Cat.)	On arms: 2 - 3N - 3 - Quick coupler / Cast ring ball joint: Ø 35 mm - Ø 45 mm - Ø 55 mm		
Chassis version	Foldable in two parts		
Number of discs	32	40	48
Disc diameters (mm)	Standard Ø 510 / Option Ø 460 - Ø 560		
Disc thicknesses (mm)	Standard 5 / Option 5 - 6		
Spacing between discs (mm)	250		
Clearance between two rows of discs (mm)	750		
Under frame clearance (mm)	740		
Max. working depth (mm)	120		
Working part safety system	Elastomer non-stop		
Drawbar balance	Standard mechanical / Optional: hydraulic		
Wheels de jauge avant	Not available		
Tyres	Standard: 385/65xR22.5 (Ø 1070 mm) / Option: 500/45x22.5 (Ø 1025 mm)		
Braking	Standard: hydraulic / Optional: tyre		
Seed drill support	Option		
Seed drill walkway	Option		
Hectare counter	Option		
Roller adjustment	Hydraulic		
Rear equipment (mm)	Roller: single bar Ø 600 / Double bar Ø 500 400 / Impak V Ø 650 / Emopak V Ø 600		
Road traffic lights	As standard		

NORMANDIE T70

SEMI-MOUNTED DISC HARROW

56 or 72 independent discs - Tractors: 210 to 310 hp - Working width: 7.00 to 9.00 m



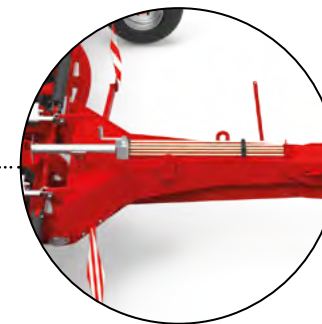
Maintenance-free bearings

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.



Two front stabilization wheels (optional)

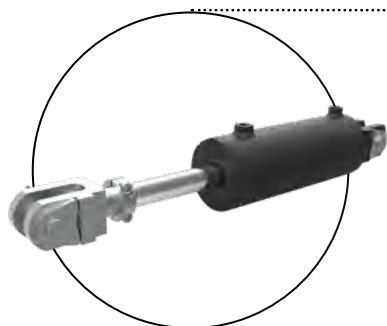
Normandie T70 starts at 7 m wide. This machine is designed to work at high speeds, up to 15 km/h. These two wheels allow the equipment to be correctly stabilized. They ensure uniform work over the entire width of the machine. In addition, these wheels are swivel mounted for when you work on curves.



Drawbar parallelogram design

The Normandie hitching is on swivel-mounted on a parallelogram design. It is always in the correct position so it does not damage the tractor coupling. This means there is no premature wear and tear.

In addition, the drawbar is mounted on hydraulic cylinders that enable lifting and lowering parallel to the ground in headlands.



Hydraulic roller adjustment

As standard, the roller adjustment is mechanical. It is equipped with a high stop for depth adjustment and a low stop for lifting the machine. This adjustment is carried out using a pin and an indicator on the stops.

As an option, you can choose a hydraulic roller adjustment using master-slave cylinder technology. You can adjust your equipment precisely under any circumstances from the tractor cab.



Premium tyres

We have chosen to offer a single, top-of-the-range tyre. As standard, we fit a 600/50x22.5 wheel that ensures maximum stability on the road and in headlands. This type of low-pressure technology protects your headlands from compaction.



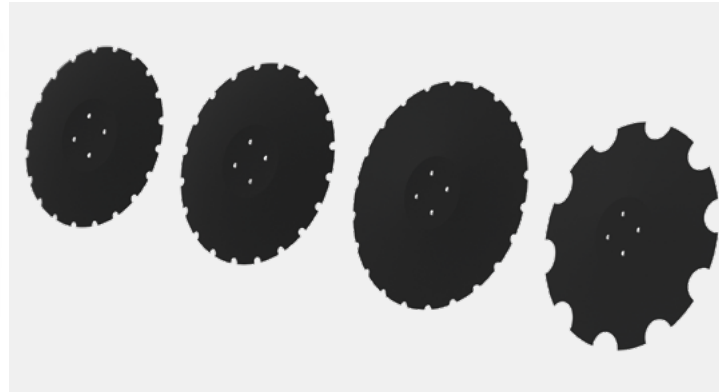
Elastomer auto-reset safety system. One disc on each arm

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.



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 500 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 540 mm Impak roller with a V-profile for in-line finishing and deep soil consolidation. The Ø 630 mm Empak roller is available for effective firming and an excellent in-line finish. The Ø 660 mm Packer roller is suitable for seed bed preparation.



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.



Combination with a plant cover seed drill

You have the option of integrating a support and a walkway for the installation of a 500-litre plant cover seed drill. You can either adapt your own seed drill or order one with the machine (factory assembly). The advantage of combining seed drilling and stubble ploughing is to maximise the use of your equipment which, in turn, improves depreciation costs. This combination also reduces your crop seeding costs.



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.



Transport safety

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

In addition, the main axle cylinder is connected to a hydraulic accumulator that acts as a suspension on the road and in headlands.



NORMANDIE T70 TECHNICAL SPECIFICATIONS

	7.00	8.00	9.00
Working width (m)			
Tractor power (HP) <i>Tractor power (kW)</i>	210 / 265 154 / 195	245 / 280 181 / 206	275 / 310 202 / 228
Transport width (m)		3.00	
Transport height (m)	3.70	4.15	4.52
Approximate weight with single bar roller Ø 500 (kg)	6 450	6 860	7 270
Yoke hitch type (Cat.)	On arms : 3 - 4N - 4 - Quick coupler / Cast ring ball joint: Ø 45 mm - Ø 55 mm - Ø 65 mm / Scharmüller K80		
Chassis version	Foldable in 3 parts		
Number of discs	56	64	72
Disc diameters (mm)	Standard Ø 510 / Option Ø 460 - Ø 560		
Disc thicknesses (mm)	Standard 5 / Option 5 - 6		
Spacing between discs (mm)	250		
Clearance between two rows of discs (mm)	750		
Under frame clearance (mm)	740		
Max. working depth (mm)	120		
Working part safety system	Elastomer non-stop		
Drawbar balance	Hydraulic		
Front stabilization wheels	11.5/80x15.3 (Ø 845 mm)		
Tyres	600/50x22.5 (Ø 1172 mm)		
Braking	Standard hydraulic / Optional: tyre		
Seed drill support	Option		
Seed drill walkway	Option		
Hectare counter	Option		
Roller adjustment	Hydraulic		
Rear equipment (mm)	Roller: single bar Ø 600 / Double bar Ø 500 400 / Impak V Ø 650 / Emopak V Ø 600		
Road traffic lights	As 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

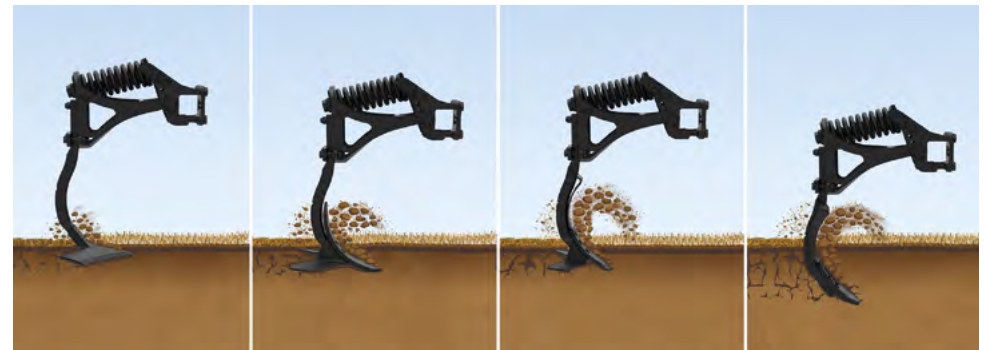
Goose share

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.



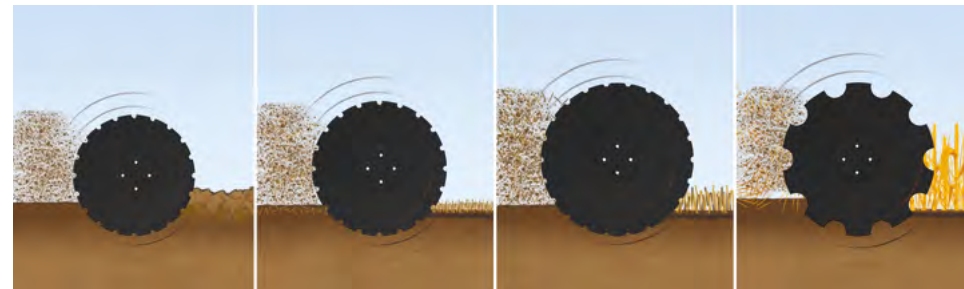
Small notches
Ø 510 mm,
5 mm thickness.



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.

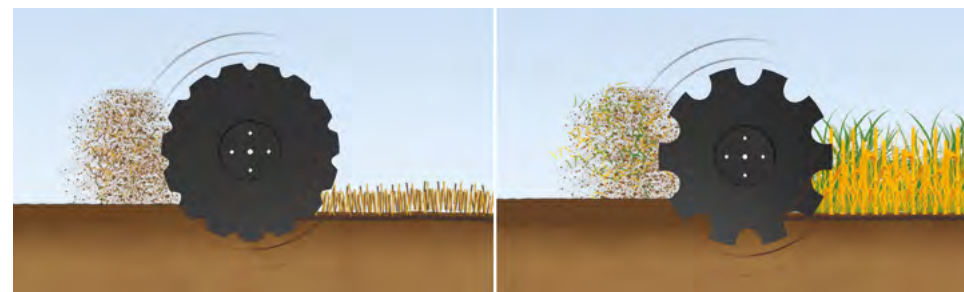
OCCITAN



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.



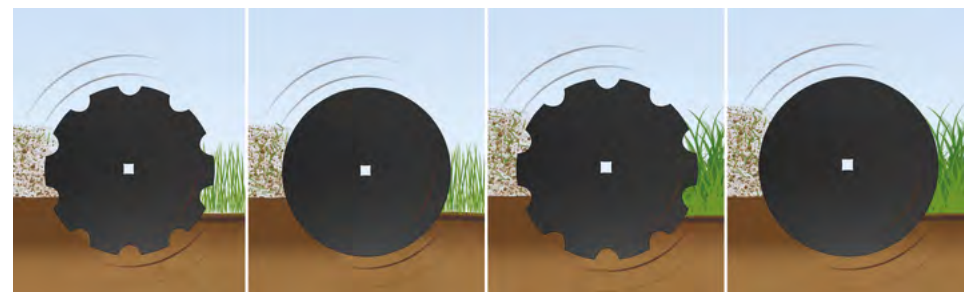
Smooth
Ø 660 mm,
6, 7 or 8 mm thickness.



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



Ø 500 mm or Ø 600 mm single bar roller



Ø 900 mm Single bar roller



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



Range Compatibility

Heavy soils

Medium soils

Light soils

Firming



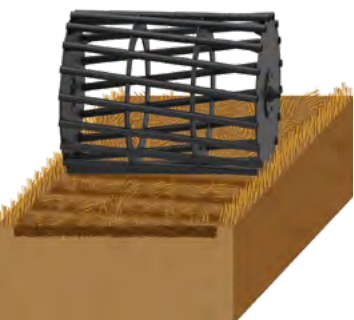
Following harrows are ideal for exposing weed root systems or crops to be destroyed to the air. It contributes to good levelling in light soils.

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.

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.

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**

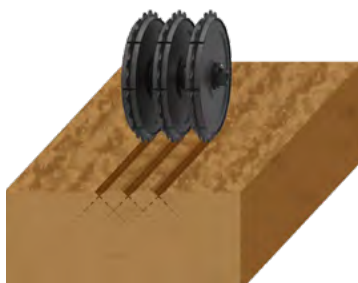


Ø 600 mm Emopak P roller



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

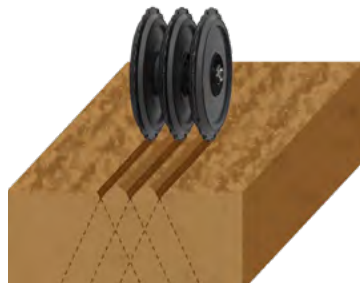
It crushes clods and promotes seed bed preparation to germinate weeds.



Ø 600 mm ou Ø 740 mm Emopak V roller



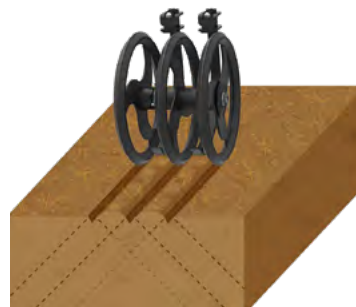
This roller is made of flanged, V-shaped and notched wheels. The Emopak V's mass gives you good consolidation, resulting in excellent in-line finishes. For self-seeding, it offers perfect soil/seed contact. It excels in dry, stony and cloddy soils.



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.



Service

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

Training



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

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

Demonstration



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

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

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

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

Getting started



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

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

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

Parts



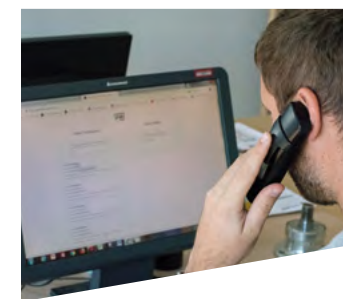
Original parts are designed together with the equipment by our engineers. The shapes, metal quality and settings are a guarantee of safety, traction optimization, economic fuel consumption and long service life of your equipment.

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

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

You can find references, prices and weights at:
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.

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

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Tél. +48 61 297 75 30

Kowanówko ul.
Obornicka 1A
64-600 Oborniki
Polska

GB Group RUSSIA

Tél. +7 472 240-22-10

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

GB Group CANADA

Tél. +1 450-799-5615

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

GB Group EASTERN EUROPE

Tél. +36 30 373 9167

GB Group ITALIA

Tél. +39 0731 375970

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

GB Group UKRAINE

Tél. +38 0472 712 823

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

GB Group CHINA

Tél. +86 1065 08 06 40

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

contact@gb-group.co

Our equipment range

Reversible mounted ploughs



Prima 50



Prima 70



Prima 80

Permium reversible mounted ploughs



Rover 40



Rover 50



Rover 60



Rover 70



Rover 80

Semi-mounted ploughs



Voyager S60



Voyager C60



Voyager S70



Voyager C80

Soil looseners



Helios Mono 60



Helios Duo 60



Helios Duo 70



Helios Duo 80



Helios Duo T80



Helios Duo T90



Helios Cracker 70



Helios Cracker 80

Clearing equipment



Explor T70



Explor T80



Explor T90

One pass finishers



Discordon 60



Discordon T70



Discordon T80



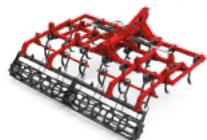
Ask for our brochures!

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).

Light stubble tine harrows



Dekoflex 60

Stubble tine harrows



Crossland 50



Crossland 60



Crossland T60



Crossland T70



Crossland T80

Disc harrows



Normandie 50



Normandie 60



Normandie T60



Normandie T70



Normandie T80

Shallow Stubble Cultivators



Occitan 50



Occitan 60



Occitan T60

Offset disc harrows



Cover V T50



Cover V T60



Cover X T60



Cover XL T60



Cover V T70



Cover X T70



Cover XL T70



Cover X T80



Cover XL T80



Cover XL T90

Soil consolidation



Planipack 50



Planipack 60



Planipack 70

Seed bed preparation equipment



Tetra 50



Tetra 60



Tetra 70



Tetra 80



**Configure your
soil preparation
equipment online!**

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

	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	●	●

