

imants[®]

Digging the future

135

135 cm / 53 inch
Maximum spading

80 cm / 31 inch
Maximum subsoiling

Deep tillage

- Enrich soil
- Good mixing
- Improve the water balance
- Incorporation of organic material
- Good rooting
- Quality and robustness
- Good soil structure
- Elimination of compaction
- Lifting disturbing layers
- Cost effective
- Increase the cultivation layer
- Improve soil quality

THE IMANTS PHILOSOPHY

Spading is more than turning (g)round

More than 60 years of experience with spading machines is something Imants can look back on. From that experience we learned that spading is more than just turning soil. Much more even. Spading means mixing organic material with the living topsoil, it means working crop residues under and creating a seedbed, it means mixing in green manure so that it can be broken down into nutrients for the next crop

From that experience we have learned that spading is more than just turning soil. A lot more even. Spading, that is organic material mixing with the living topsoil, it is working crop residues under and creating a seedbed, it is creating a seedbed, it is mixing in green manures so that they can be broken down into nutrients for the next crop, it is removing disturbing layers permanently and it is soil refinement. In short, both on the soil and in the soil preparation you can speak of a healthy soil after treatment with Imants machines.



Processing of 68SX series of spades.



ADVANTAGES OF DEEP TILLAGE

Imants spading machines take care of your soil

Deep tillage is mainly used to remove soil compaction and disturbing layers. Through the rotating movement of the spading axle with spades, an optimal mixing is achieved. The soil can also be enriched or if desired you can increase the size of the cultivation layer.

The rotating movement of the spading axle with spades ensures an optimal mixing effect.

The end result? Disruptive layers are lifted, resulting in a better mixing of the nutrients through the soil and thus creating better rooting. This in turn leads in turn to better water permeability and more air in the soil. In other words, the (capillary) action of the soil is restored.



Scan for more information about deep tillage at Imants



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DEEPER TILLAGE

Intensive mixing or not?

Deep spading

The deep spading machines have different working depths depending on the series. As a rule of thumb you can assume that half of the maximum working depth, the minimum working depth is.

Types of blades

To achieve the desired mixing result desired mixing results, we offer the choice of series we offer the choice of:

- narrow spade blades (breaking through with minimal mixing)
- standard spade blades
- standard spade blades in combination with mixing plates (intensive mixing)



MIXING PLATES NARROW BLADES STANDARD BLADES

Results:



Profile pit (1 m / 39 inch)



Before tillage



Narrow blades



Standard blades



Mixing plates

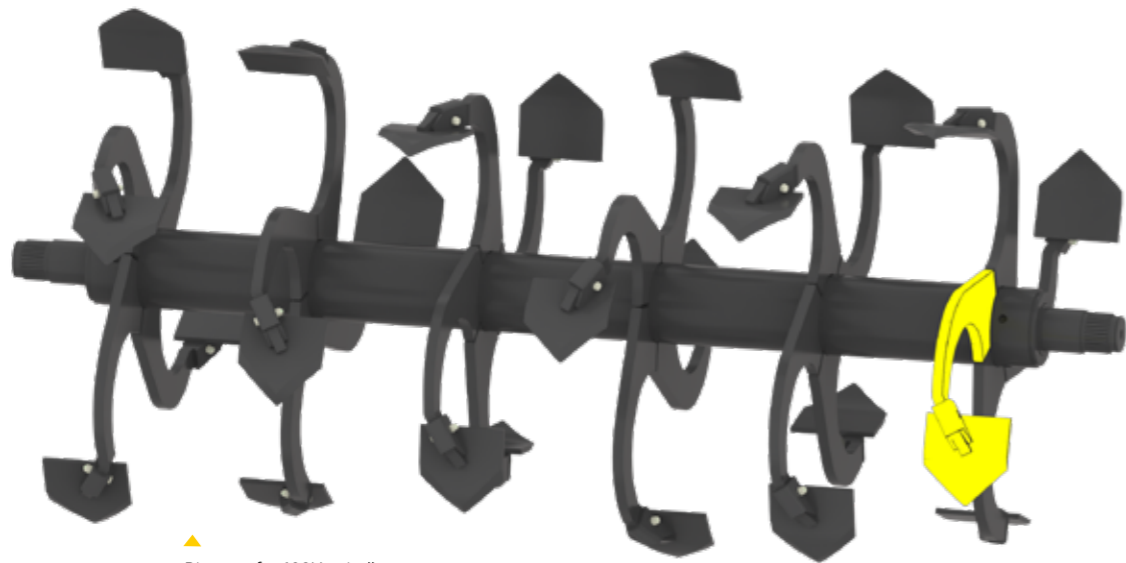
IMANTS SPADING TECHNIQUE

The construction of the spading machine

The Imants deep spading machines are rotary spading machines. They work the ground by means of a spade bracket that is attached to the spade. With the 60, 68 and 70 series, 4 spade handles form a wreath (see image), the 135 series on the other hand has 6 spade handles per wreath. The number of whorls on the axle varies according to the type and working width.



◀ All spading machines are equipped with a cam clutch on the PTO shaft. This provides protection for the driveline.



▲ Picture of a 68SX spindle



▲ SX spade blade suitable for all soil types except wet clay. Easy to replace.



▲ SM spade blade suitable for all soil types and conditions.

SERIES

Deep tillage machines, series, choices, and specifications

60 series

Power	Working depth (cm/inch)	Work width (cm/inch)
75 - 95 hp (K)	45 - 60 / 18 - 24 (K)	150 or 180 / 60 or 71
100 - 180 hp (R)	45 - 65 / 18 - 26 (R)	270 / 106



68 series

Power	Working depth (cm/inch)	Work width (cm/inch)
230 - 330 hp	45 - 80 / 18 - 31	290 / 114



70 series

Power	Working depth (cm/inch)	Work width (cm/inch)
230 - 330 hp	45 - 90 / 18 - 35	290 / 114



135 series

Power	Working depth (cm/inch)	Work width (cm/inch)
270 - 400 hp	60 - 135 / 24 - 53	265 or 310 / 104 or 122



Cultermatic

Power	Working depth (cm/inch)	Work width (cm/inch)
250 - 400 hp	Depending on the conditions, max. 80 / 31	320 / 126



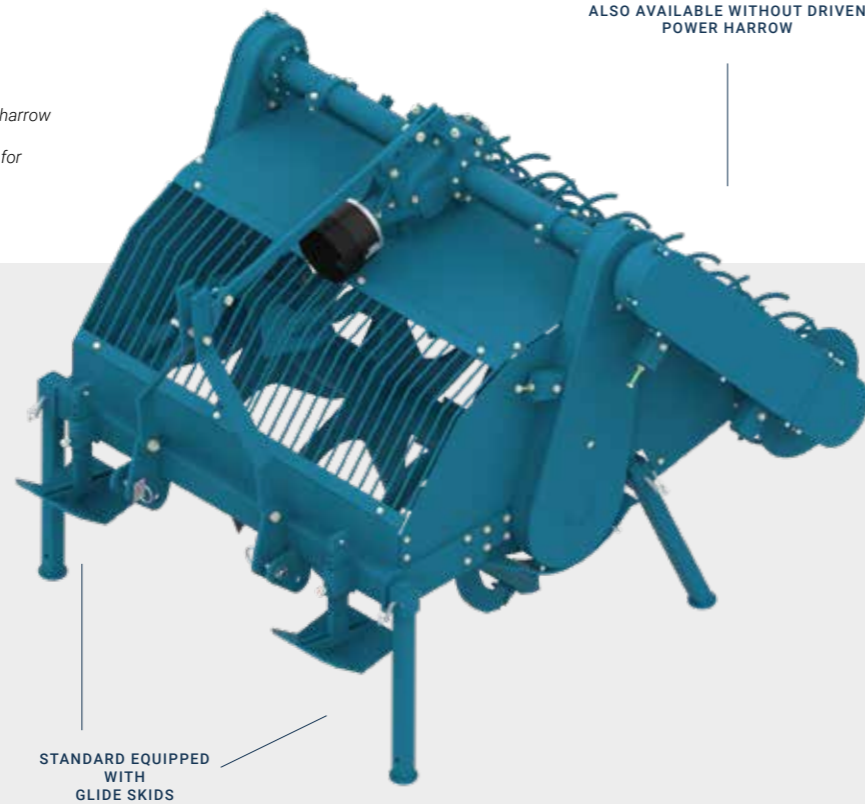
60DK SERIES OPTIONS

60DK series options



Driveline DKH machine

The 60SX150DKH with power harrow has been chosen as an image. Please contact us for options for the model of your choice.



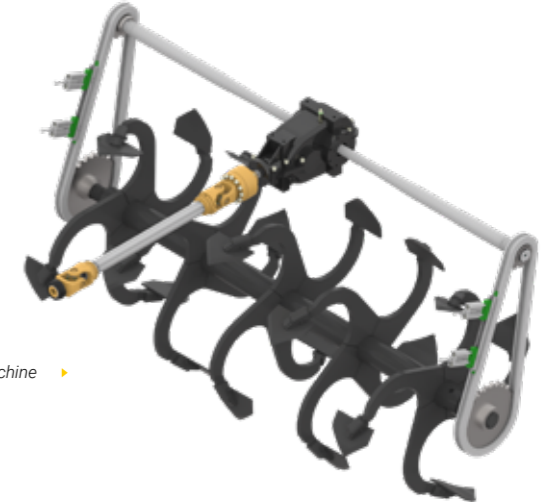
ALSO AVAILABLE WITHOUT DRIVEN POWER HARROW

STANDARD EQUIPPED WITH GLIDE SKIDS

60DR SERIES OPTIONS

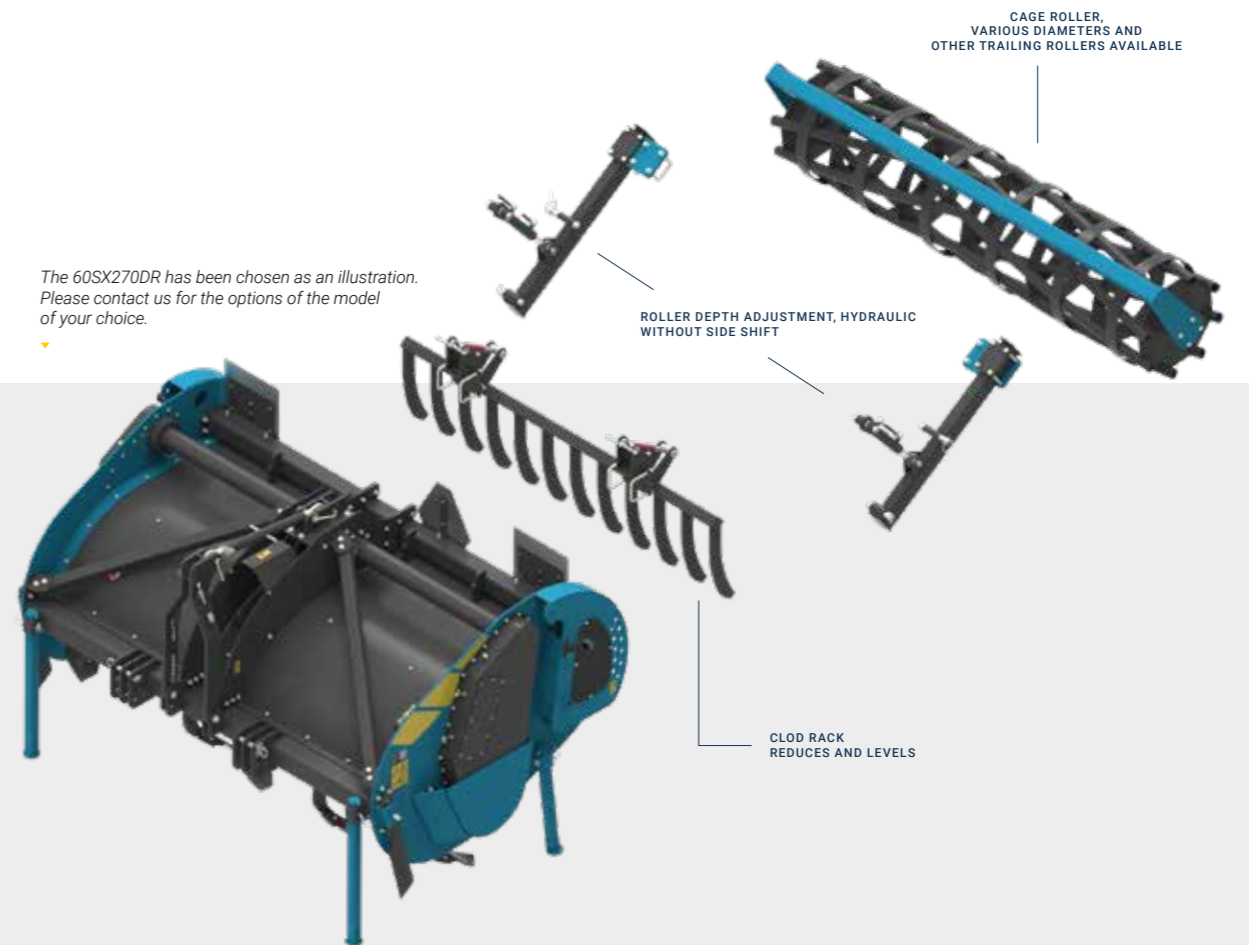
60DR series options

A highly reliable power train makes for machine that does an excellent job with a relatively "small" tractor. In addition, depending on the type of soil, you can choose different types of trailing rollers such as cage roller (various diameters), tire packer etc.



Drive line DR machine

The 60SX270DR has been chosen as an illustration. Please contact us for the options of the model of your choice.



CAGE ROLLER, VARIOUS DIAMETERS AND OTHER TRAILING ROLLERS AVAILABLE

ROLLER DEPTH ADJUSTMENT, HYDRAULIC WITHOUT SIDE SHIFT

CLOD RACK REDUCES AND LEVELS



68 SERIES OPTIONS

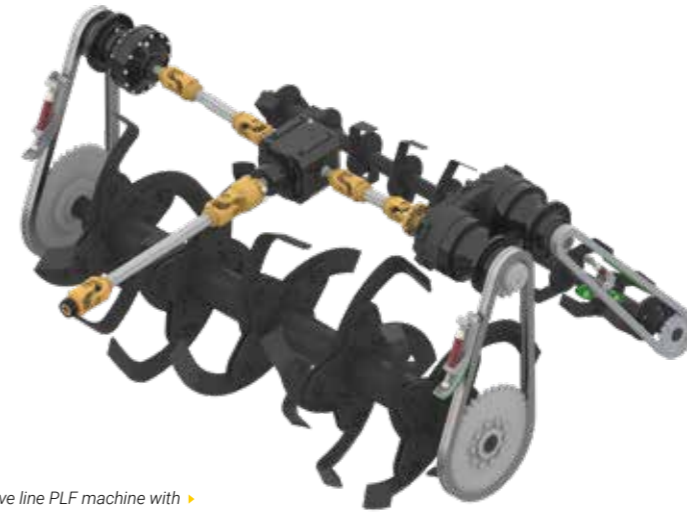
68 series with or without rotavator

The drive train of the 68 series consists of a central drive box and 2 planetary drive boxes on the side. Very robust and reliable with a quiet run. Depending on the type of soil and the desired result, the 68 series can also be equipped with mixing plates (for intensive mixing), standard spading blades or narrow spading blades (breaking through obstructing layers with minimal mixing), but also with a clod rake and various trailing rollers such as cutter, cage roller (various diameters), tire packer etc. The trailing roller always has a double function. On the one hand it ensures that the top layer of soil is pressed firmly together again and is finished flat. On the other hand, it serves as a depth limiter.

Drive line PL machine with SX axle and without rotavator

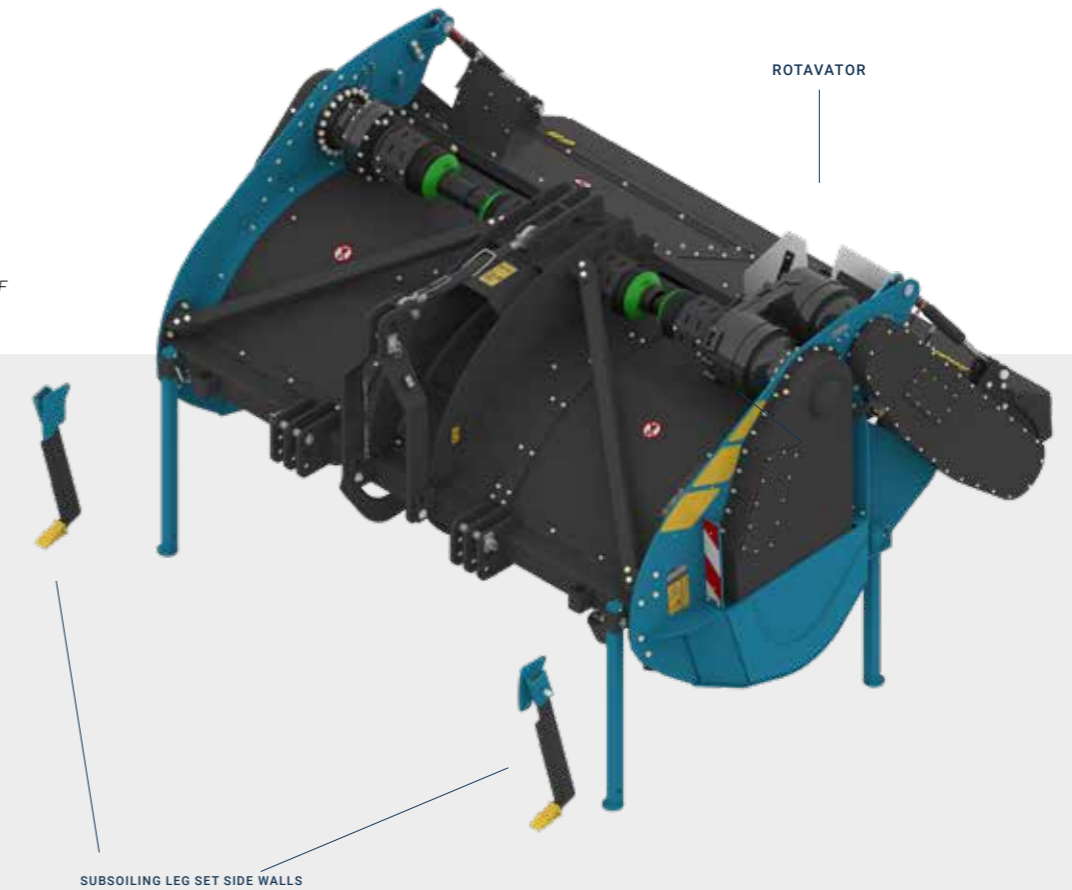
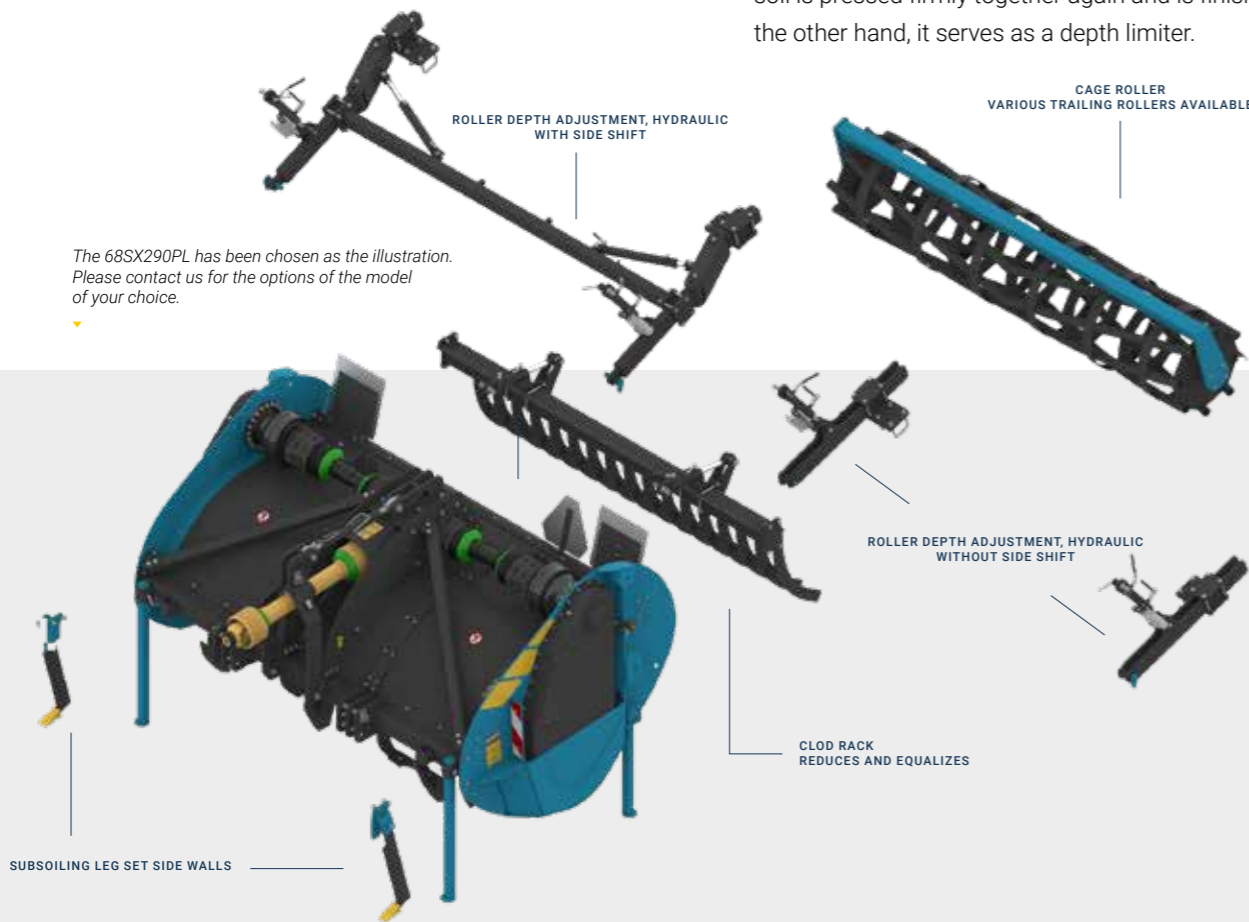


Drive line PLF machine with SM axle and rotavator axle



The 68SX290PL has been chosen as the illustration. Please contact us for the options of the model of your choice.

68SX290PLF



70 SERIES OPTIONS

70 series options

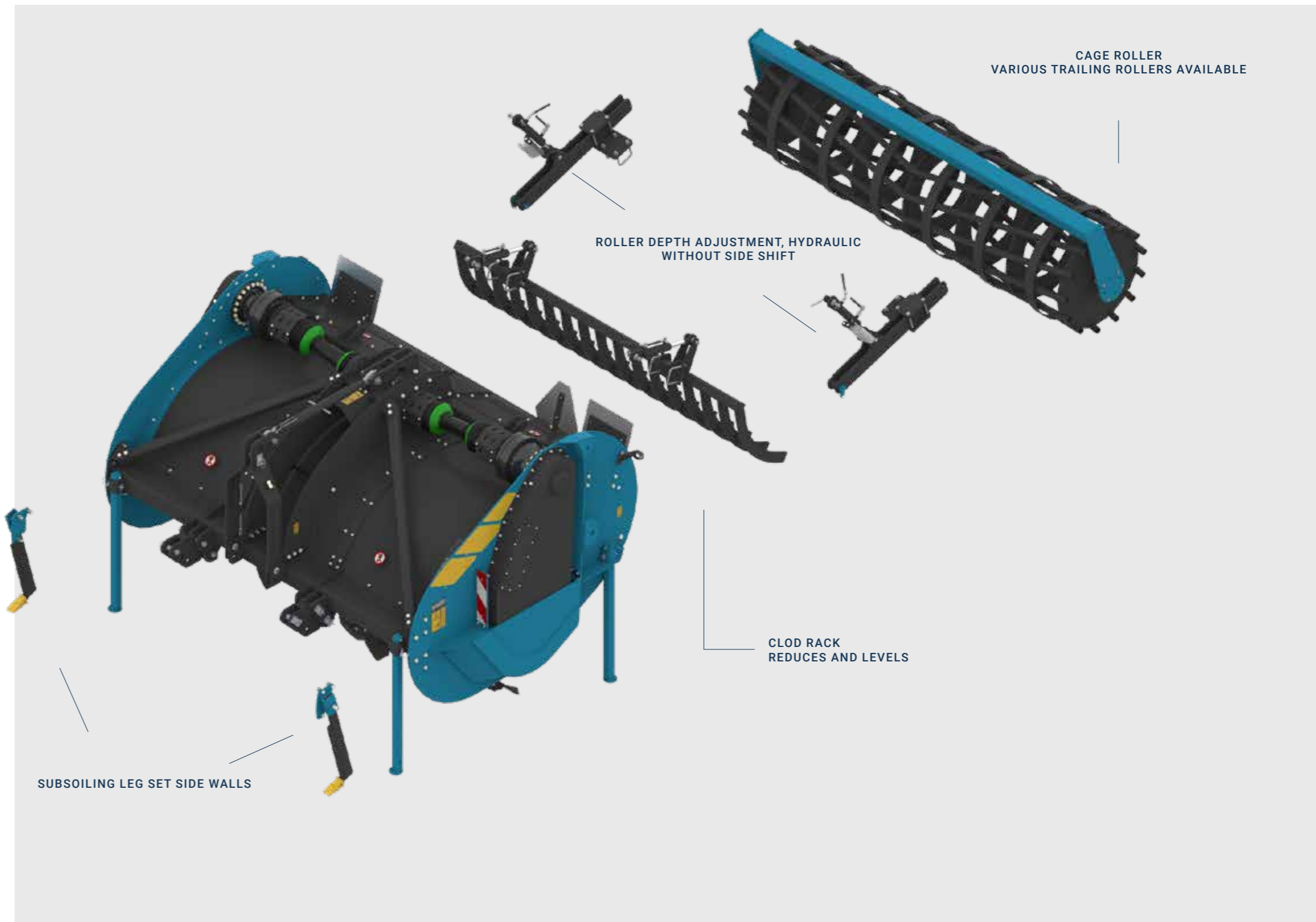
The 70 series drive line consists of a central drive box and 2 planetary drive boxes on the side, just like the 68 series. Very robust and reliable with quiet running. With the 70 series, the diameter of the spindle is slightly larger than the 68 series and so the limit of deep digging where the machine can still be carried in the lift is reached. The 70 series can therefore not be equipped with a milling roller. However, various other trailing rollers such as cage roller (various diameters), tire packer etc. The following roller always has a double function. On the one hand, ensuring that the top layer of soil is firmly pressed down again and is finished flat. On the other it serves as a depth limiter.

Depending on the application, the machine can be equipped with mixing plates (for intensive mixing), standard digging blades or narrow digging blades (breaking through interfering layers with minimal mixing).

In certain circumstances, a working depth of up to approximately 1 meter (39 inch) is feasible.



Drive line 70 series



As a picture is chosen for the 70SX290PL



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135 SERIES OPTIONS

135 series options

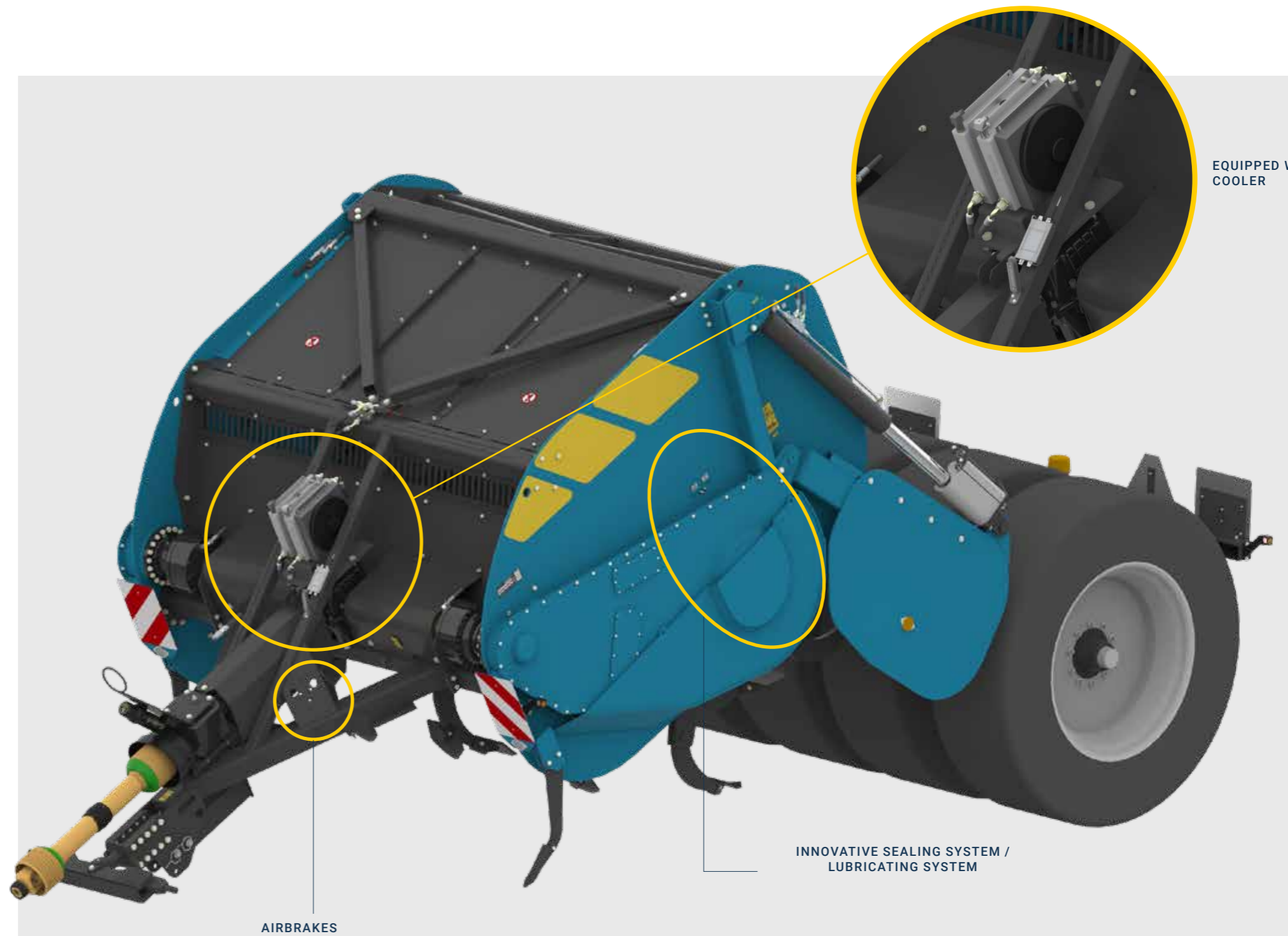
Finally, the spading machine with the greatest working depth. The 135 has a theoretical working depth of 135 cm (53 inch). But as with all spading machines also in some circumstances the working depth can be greater.

The 135 is a trailed model. The machine is standard equipped with an oil cooler and air brakes. Also, the machine is RDW-approved. If desired, there is a TÜV approval is possible. With less deep tillage, the driving speed can be increased and thus a greater capacity can be achieved. The top-of-the-line machine is ideal for agricultural projects, the construction of orchards, breaking up disturbing layers or mixing different soil layers (shredding).

Depending on the application, the 135 series spading machine can be equipped with mixing plates (for intensive mixing), standard spading blades or narrow spading blades (breaking up disruptive layers with minimal mixing). Furthermore, this machine is equipped with wheels to enable transport over the road.



Drive line 135SX265PL series



EQUIPPED WITH OIL COOLER

INNOVATIVE SEALING SYSTEM / LUBRICATING SYSTEM

AIRBRAKES

The 135SX265PL has been chosen as a picture. Please contact us for the model of your choice.





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ROTARY AGITATOR

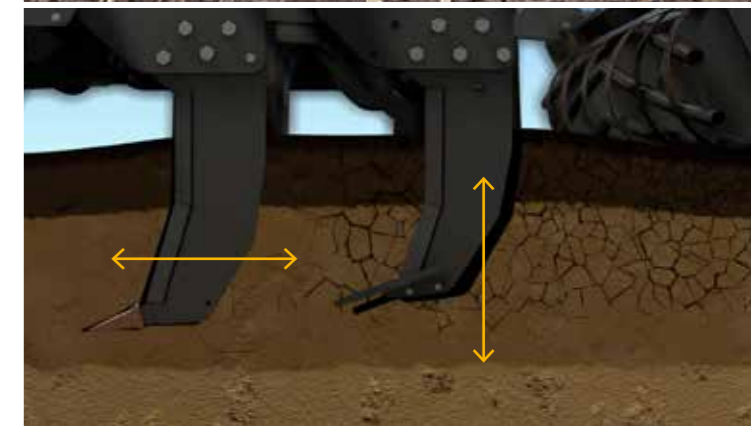
Loosening with a Cultermatic

For heavily compacted soil Imants developed an oscillating rotary agitator called Cultermatic, which actively breaks up the soil and aerated. The soil is not mixed.

The Cultermatic works to a maximum depth of 80 cm (31 inch). The big advantage over the standard rotary cultivators is that the machine needs half the of the pulling power and at the same time loosens the soil many times.

The first row of furrows opens the soil with a horizontal a horizontal movement and the blade of the second row moves more vertically up and down. The soil lying on the agitator legs vibrates such that the soil aggregates break up and a a fine soil structure with the right ratio between clods and pores.

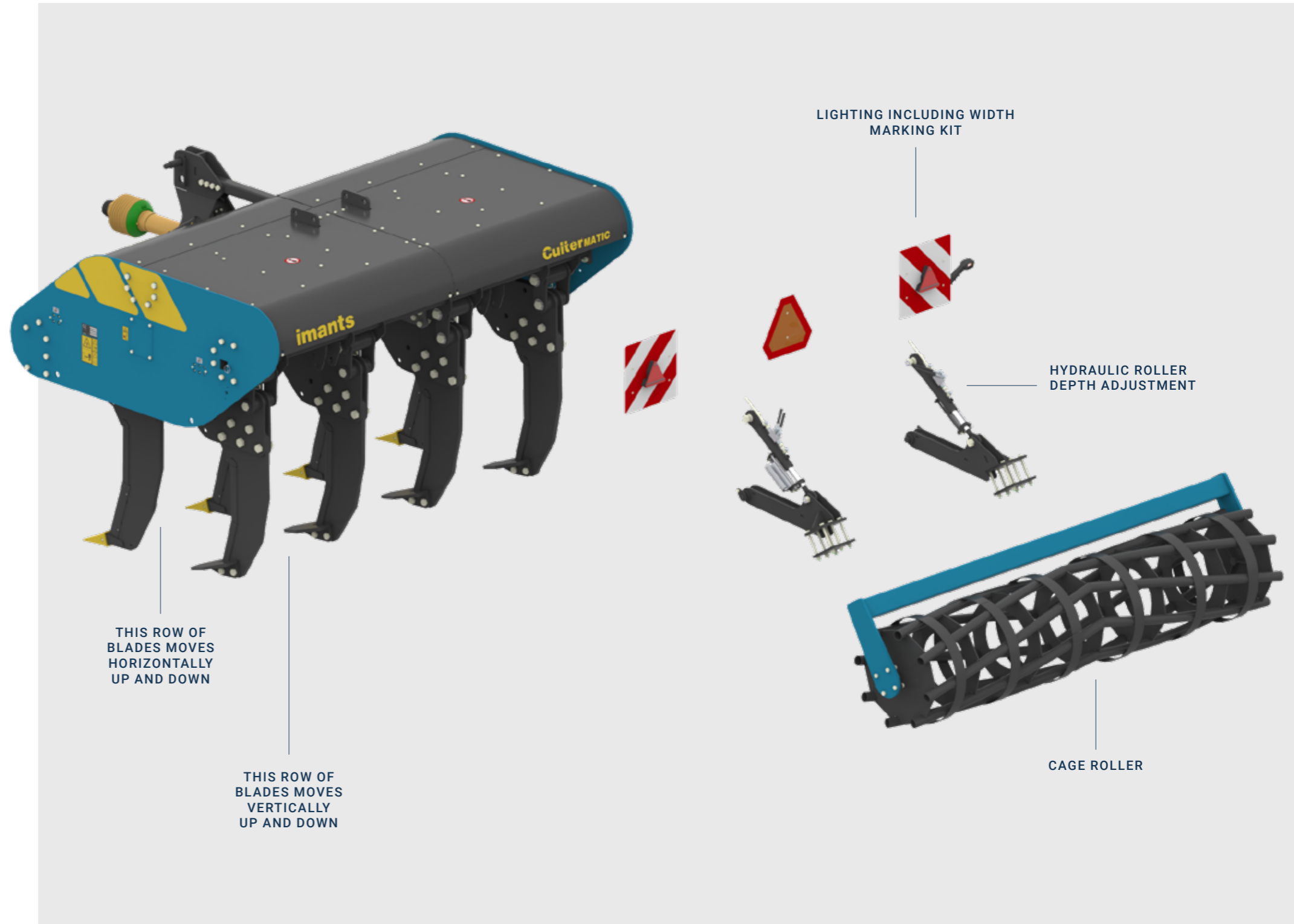
The Cultermatic can also be equipped with a trailing roller. This has a double function. On the one hand it makes sure that the top layer is pressed down again and the finish is flat. On the other hand, it serves as a depth limiter. For an optimal result it is best if the Cultermatic is used on dry soil. Here is an animation image that illustrates the operation.



CULTERMATIC OPTIONS

Cultermatic options

The Cultermatic, an oscillating shovel rotary cultivator, can be equipped with a cage roller to re-compress the soil.



The Cultermatic has been chosen as the image.



Type	Working width	Overall width	# spades	Required power (hp)
60SX150DK	150 cm / 59 inch	175 cm / 69 inch	12	75
60SX150DK H	150 cm / 59 inch	191 cm / 75 inch	12	75
60SX180DK	180 cm / 71 inch	205 cm / 81 inch	16	75
60SX270DR	270 cm / 106 inch	308 cm / 121 inch	20	100
68SX290PL	290 cm / 114 inch	325 cm / 128 inch	24	230
68SX290PL F	290 cm / 114 inch	320 cm / 126 inch	24	230
70SX290PL	290 cm / 114 inch	320 cm / 126 inch	24	230
135SX265PL	265 cm / 104 inch	300 cm / 118 inch	30	270
135SX310PL	310 cm / 122 inch	345 cm / 136 inch	36	270
Type	Working width	Overall width	# Subsoiler leg	Required power (hp)
Cultermatic	320 cm / 126 inch	280 cm / 110 inch	2x4	250

Maximum power (hp)	Weight (kg/lbs)*	Roller **	Subsoiling	Working depth
95	1100 / 2425	no	no	45 - 60 cm / 18 - 24 inch
95	1425 / 3142	yes, power harrow	no	
95	1300 / 2866	no	no	
180	2300 / 5071	no	no	45 - 65 / 18 - 26
330	3150 / 6945	no	no	45 - 80 cm / 18 - 31 inch
330	3850 / 8488	yes, rotavator	no	
330	3850 / 8488	no	no	45 - 90 cm / 18 - 35 inch
400	10500 / 23149	no	no	75 - 135 cm / 30 - 53 inch
400	11700 / 25794	no	no	
Maximum power (hp)	Weight (kg/lbs)*	Roller	Subsoiling	Other
400	3380 / 7452	no	n/a	Max. working depth: 80 cm / 31 inch

* The above weight is indicative without options and without roller (except for the rake roller machines).
 ** Machines without driven roll can be fitted with various other rollers as an option (with the exception of the 135 series).
 *** The actual driving speed will vary depending on the application.
 ALL spading machines including: Walterscheid power take-off with cam clutch, Quick change system for the spading blades (SX), LED lighting kit and width markings.



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