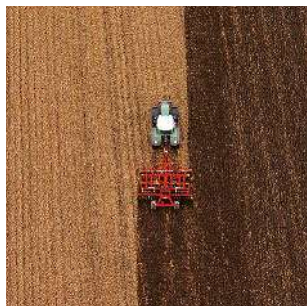


Carrier

Versatility at its best





Where farming starts

Together with farmers all over the world, we have spent the last three generations creating machines that make any farmland find its full potential. The high quality Väderstad planters, seed drills and tillage equipment give farmers a head start by covering more ground in shorter time without losing perfection.

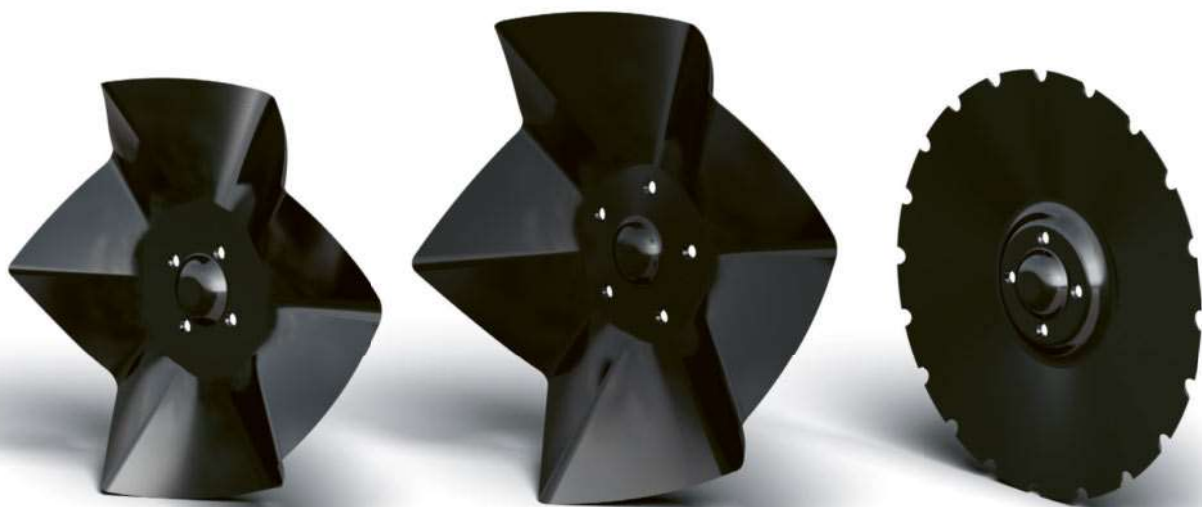
Together we make you an even more successful farmer.

Versatility at its best

Carrier is a compact disc cultivator used for high-speed primary tillage and seedbed preparation. It handles the versatile challenges of modern farming – from ultra-shallow tillage to a deeper incorporation. The Versatility that Carrier brings to the farm saves passes, decreases machine cost per hectare and provides the best start possible for the coming crop.

The multipurpose implement

Carrier is a multi-tasker. Farmers who place high demands on versatility in crop production use it as an all-purpose implement. Depending on the configuration, Carrier can be used for five main tasks: stubble cultivation, incorporation, seedbed preparation, small-seed drilling and pest prevention.



All working depths covered

Väderstad invented the compact disc cultivator segment. We launched the Carrier in 1999 and have continued to develop it ever since. Today, a full range of disc sizes are available – from ultra-shallow tillage at 2-3cm depth, to incorporating discs with up to 16cm working depth. Carrier is available in several models, from 3 to 12.25 metre working width.

Lifetime warranty on discs

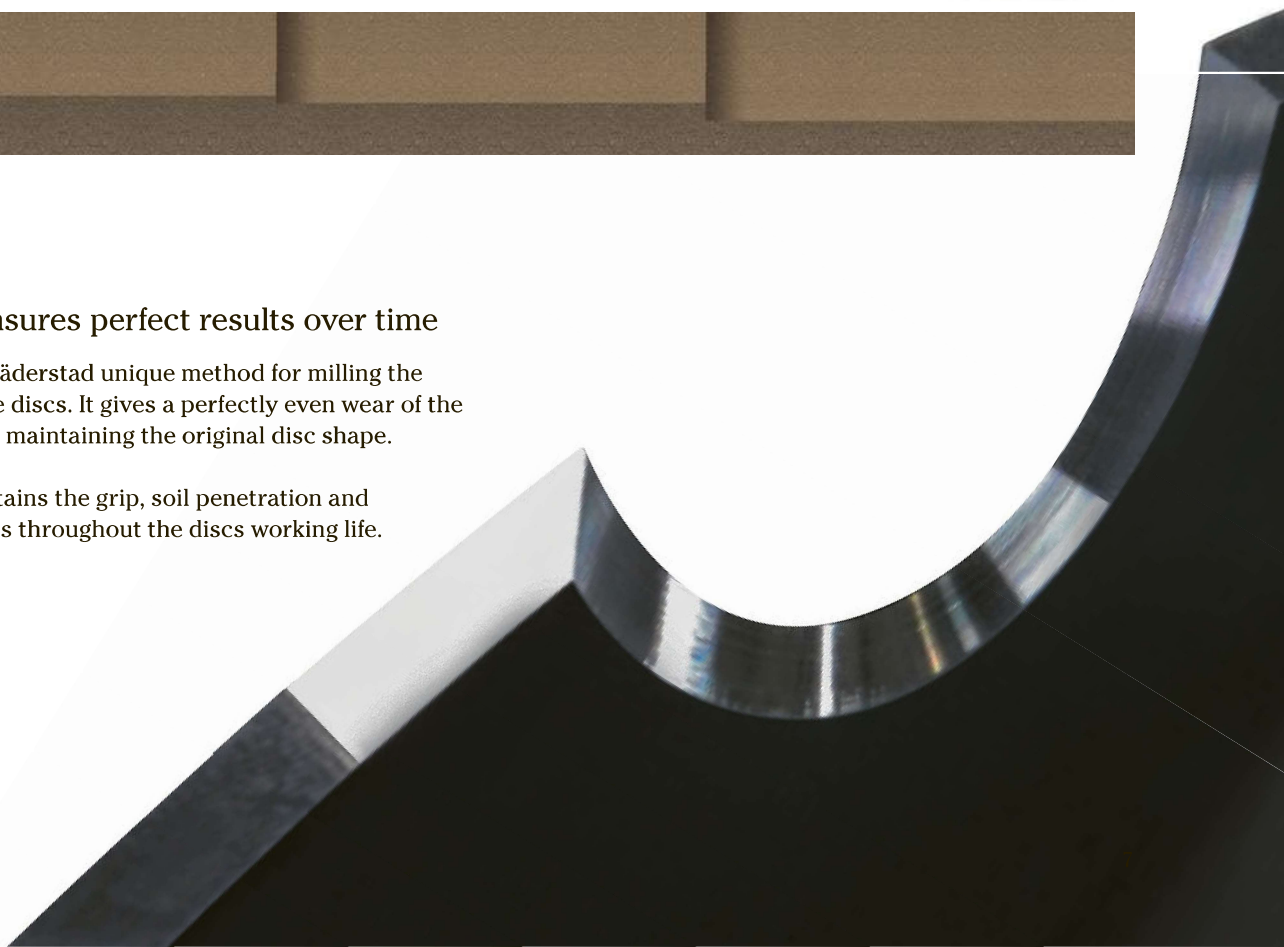
The Väderstad V-55 Swedish steel discs combine a high degree of hardness whilst preserving shock resistance. Compared to industry standard, the unique Väderstad V-55 pushes the hardness level from standard HRC 47-48 to HRC 55. You benefit from lower wear part costs and less downtime. As a reflection of being at the forefront when it comes to quality and performance, Väderstad offers lifetime warranty on genuine discs.



TrueCut ensures perfect results over time

TrueCut is a Väderstad unique method for milling the cut-outs of the discs. It gives a perfectly even wear of the disc diameter, maintaining the original disc shape.

TrueCut maintains the grip, soil penetration and aggressiveness throughout the discs working life.



Tillage precision

When it comes to work results in the field, Carrier leaves nothing to chance. The Carrier discs and disc arms are designed to deliver the most out of the machine at all times.



Conical discs – better agronomy

The conical shape of the disc produces fine tilth and mixes residues evenly. The shape also ensures that the same working angle is maintained irrespective of wear and working depth. You benefit from excellent seedbed creation and quick residue breakdown.

Crumbling and mixing

The conical shape of the discs create a high degree of fine tilth, important for the seed-to-soil contact. The shape of the discs provides intensive mixing, preventing dry soil from being turned into the seeding horizon. The intensive residue and soil mixing improves the rate of decomposition.

No compaction

The sharp attack angle of the conical disc, minimises its contact surface to the soil. This leaves an open cultivation bottom, free of compactions. The result is a great environment for root development with maintained moisture transport.

Presses down stones

The shape of the conical disc keeps it from picking up stones to the field surface. Instead the stones are pressed down, minimising disturbances in following operations on the field.



Capacity brings profit

Even though being challenged by varying field conditions, tough soil types or impacts from weather, the capacity of Carrier is kept at peak level. By being both versatile and fast, Carrier maximises productivity and farm economy.

The timing effect

The recommended working speed of Carrier is 10-15km/h, enabling high output rate and great field efficiency. This gives you the ability to cover more ground in shorter time at hectic periods on the farm. Equipped for ultra-shallow tillage with CrossCutter Disc, the working speed is increased to 15-20km/h, increased the capacity even further.

Handles tough soil

Carrier is characterised by a strong frame constructed with high-quality Swedish steel. Its higher weight per disc ensures aggressive penetration with a maintained working depth even at high speeds in tough soil conditions.

Not limited by moisture

The sharp attack angle of the conical disc prevents smearing and capping of the cultivation bottom when working in moist conditions. This means the moisture transport in the soil is secured. Pending scrapers keeps the packer clean in changing conditions.

Copes with residues

Carrier has a spacious design, ensuring a good throughflow of soil and crop residues. By having the bearing behind the disc, winding and blockages are prevented, whilst the bearing itself is protected against damaging influences. Carrier has the capacity to handle more residues and difficult field conditions, widening its range of usage.

More time in the field

Carrier is designed for a long working life in the field. Maintenance-free bearings decreases downtime, while rubber suspended packers and disc arms increases working life by preventing harmful chocks entering the frame.



Equipped for versatility

By adding additional functionality to Carrier, an extended range of operations can be realised with the same machine. The wide selection Carrier front tools are all designed to combine agronomy with farm economy.



Straw harrow compensates for poor straw distribution

To avoid performing a straw distribution pass with a separate tool, Carrier can be equipped with a straw harrow. Carrier not only cuts, but also distributes straw in the same pass. You benefit from an even field with an increased growth potential for the coming crop.



The challenge

Large combines tend to have a poor straw distribution across their working width. This can be tested by raking one metre of straw behind the combine. Often more residues are left in the centre than on the sides.



Same conditions for growth

Carrier equipped with a straw harrow distributes the straw evenly over the entire field. This avoids causing local nitrogen or oxygen deficits in the field, which is crucial to provide even conditions for growth for the coming crops.

CrossCutter Knife adds intensity

With the intensive knife roller CrossCutter Knife, the material is cut in two directions. CrossCutter Knife allows for a shallow cultivation, while maintaining the possibility of deeper cultivation with the discs. The short knife segments of CrossCutter Knife provides great contour following over the entire working width.



Intensive chopping and pest prevention

A benefit after grain or sunflower is the intensified chopping of the residues, giving a faster decomposition. Breaking the residues intensively prevents pests, such as the European Corn Borer, from overwintering and damaging the following crop.



Cover crop incorporation

Cover crops are crushed and incorporated cost efficiently, without disturbing the disc operation.



Designed for long life performance

CrossCutter Knife is mounted with a TriForce rubber suspension. This reduces vibrations, to drastically increase the working life of both the CrossCutter Knife as well as the machine.

CrossBoard Heavy for perfect levelling

CrossBoard Heavy is a row of individual tines bent backwards with the task of levelling the soil and crushing clods. On ploughed land, CrossBoard Heavy enables Carrier to prepare a seedbed in one single pass, saving diesel, time and ground moisture.



Maximum performance

The double-acting stabiliser bar connects the CrossBoard tines to one single unit, preventing separate tines to move either forward or backward. This radically increases the suspension power and in turn the capacity to both level the field, and crush clods.



Even working result

The CrossBoard is equipped with master and slave cylinders, which maintains the position of each CrossBoard section, ensuring a uniform result.

Save passes with BioDrill

With the mountable small seeder BioDrill, a small-seeded crop such as oilseed rape or cover crops can be established in the same pass as the tillage operation. BioDrill provides an accurate seeding at the same time as it saves passes on the field.



Precise radar control

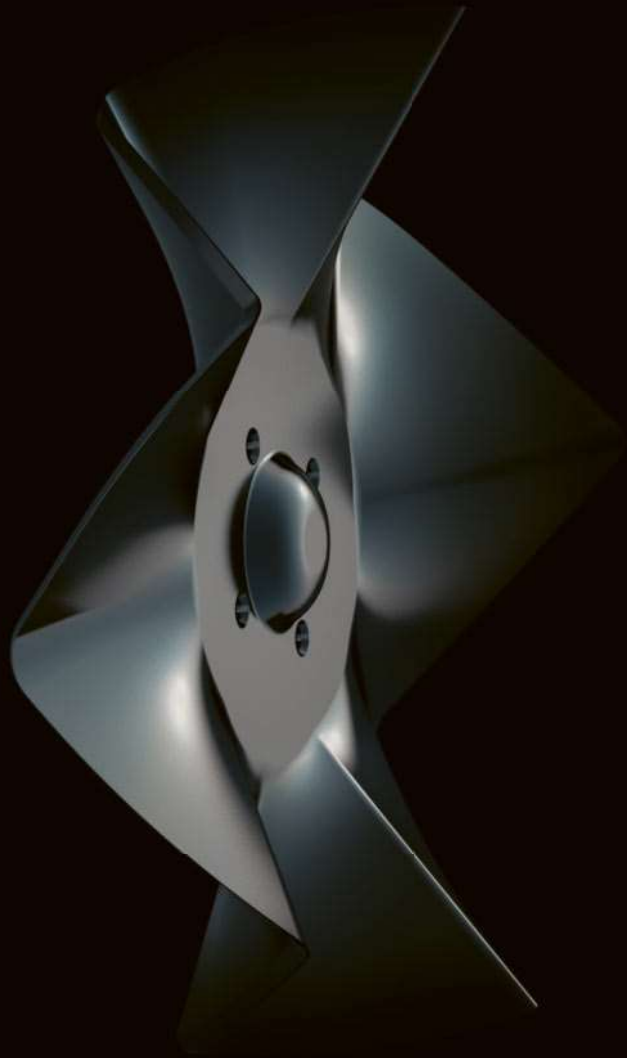
BioDrill is equipped with a precise radar controlled metering system, ensuring an even distribution over the entire working width. This accuracy is fully measurable to a full-scale seed drill; important when drilling low seed rates or cover crop mixtures with varying seed sizes.



Exact seeding result

The BioDrill 360, on the wider Carrier models, is equipped with a powerful hydraulic fan allowing for large quantities of seed to be uniformly distributed over a wide working width. The powerful fan ensures the seeding result remains constant in all field conditions.

CrossCutter Disc



**MACHINE OF
THE YEAR 2018**

Ultra-shallow tillage by Väderstad CrossCutter Disc

CrossCutter Disc provides full cultivation at only 2-3cm working depth. It's unique cutting intensity crushes, chops and mulches in one single pass. Equipping Väderstad Carrier with CrossCutter Disc enable a new work horizon in the agronomic toolbox.

Cleaner fields with increased yield potential

The topic field hygiene focuses on the post-harvest management of maize, oilseed rape and cereals where the goals are to bring the seedbank to germination and the residues to decompose as fast as possible. A reduced seedbank improves the competitiveness of the following crop and may reduce the cost for herbicides.



The rich stale seedbed

Many seeds and weeds are triggered by light. If buried too deep, they can stay dormant in the soil for many years. By providing a good seed-to-soil contact with access to light, ultra-shallow tillage makes sure the seeds will germinate into a stale seedbed when you want them to not years later. The extensive stale seedbed can later be eliminated with a second pass, to provide great field hygiene for the next crop.

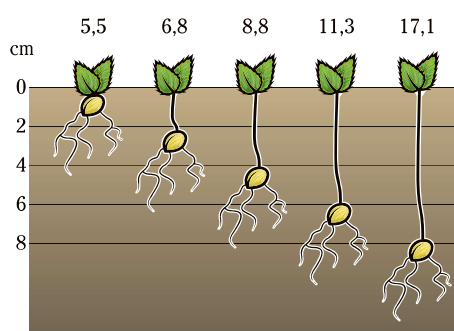
Don't waste time at your stale seedbed

According to research, the depth of seeds of oilseed rape, weeds and grain directly affects the time needed for the seeds in the stale seedbed to germinate, grow and emerge.

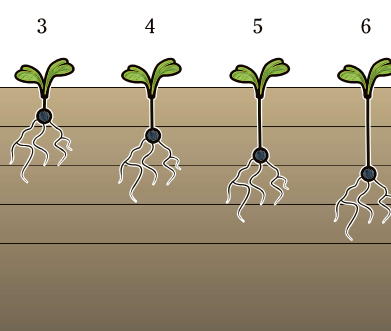
By reducing the time spent on waiting for the stale seedbed to emerge enough to be eliminated, means that the following crop can be seeded sooner. Alternatively, this additional time provides great opportunities for increasing the yield potential by conducting value-adding field work before the next crop establishment.

Days till emergence in relation to seed depth

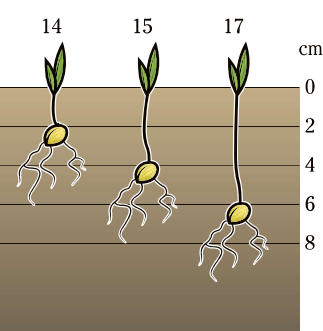
Weeds days until emergence



Oil seed rape days until emergence



Wheat days to emergence



CrossCutter Disc gives a better incorporation and mulching

After cover crops and silage maize the mulching and incorporation of crop residues is crucial for success. To increase the cultivation intensity, CrossCutter Disc can be combined with the knife roller CrossCutter Knife. Using an aggressive packer such as a SteelRunner will further improve the cultivation effect.



Complete cover crop elimination

When terminating a standing cover crop, a full cut-out at ultra-shallow working depth provides high capacity and great agronomical benefits. Working intensively at 0-3cm depth, crushes and mulches the cover crops without mixing the residues in depth.

After one pass, the cover crops stems are crushed and access points for microorganisms are created. This fully eliminates the cover crop, while also minimising the risk for problems in the following crop.

Excellent after silage maize

After silage maize two main objectives needs to be fulfilled; destroy the habitat for the European corn bohrer and avoid the creation of mycotoxins that can be transferred to the following crop.

CrossCutter Disc will achieve both tasks at a very low cost, increasing the breakdown rate compared to chopping the residues. A benefit compared to a mulcher, is that CrossCutter Disc also handles the residues in the wheel tracks.

Moisture and structure conservation – When less is more

By cutting in its entire working horizon, CrossCutter Disc completely breaks the capillarity. This conserves valuable ground moisture for the coming crop. The ultra-shallow working depth ensures that a minimum amount of soil is dried out, while the high amount of residues left in the topsoil helps reflecting sunlight to further conserve moisture.



Reduced erosion

By working ultra-shallow, a minimal amount of soil gets loosened and vulnerable to erosion. This is crucial in hilly conditions as well as on farming conditions where wind erosion appears. The large amount of residues mixed in the topsoil absorbs the impact of raindrops which prevents runoff as well as eliminates the risk of capping the soil.

Minimal disturbance of soil fauna

The ultra-shallow tillage in the dry topsoil leads to minimal earthworm losses and the following capillarity cut increases the soil moisture making the earthworms more active.

Leaving residues in the topsoil benefits the earthworm activity, increasing the rate of decomposition even further. This at the same time as the earthworms fertilises the soil and gives the coming crop better conditions.

Packers for all conditions

The aim of the packer is to provide maximum aggressiveness and full covering reconsolidation.

Compromises may be carried out as an effect of the soil type and the tractor lifting capacity. Additionally, it is important to provide versatility to allow for all conditions on the farm, in both moist and dry conditions.

1

Maximise

Aggressiveness

The aggressiveness of the packer determines its ability to crush root packages, crop residues and clods, which improves the the rate of decomposition. An aggressive packer strengthens the cultivating ability of the disc cultivator.

Coverage

A full covering packer provides an even reconsolidation over the entire field, ensuring even results. In a stale seedbed, the full covering packer provides the same seed-to-soil contact for all volunteers and weeds. This promotes a strong and even germination.

2

Consider

Soil type

To prevent bulldozing and insufficient depth keeping, the packer must run on top of the soil. A heavier soil has a higher carrying capacity than a lighter soil. Thereby a heavier soil allows for narrower contact area between the packer and the soil, while a lighter soil requires a larger contact area. The choice of packer may be limited by the soil type.

Tractor capacity

Machines carried on the three-point linkage are often limited by the lifting capacity of the tractor. Since the packer is placed at the back of the implement, its weight can limit the choice of packer.



Double SteelRunner

- High coverage
- High aggressiveness
- Medium contact area
- High weight

Double steel packer, leaving a weatherproof consolidated surface. Pending scrapers keep the packer clean. Packer diameter: 600mm



Single SteelRunner

- High coverage
- High aggressiveness
- Narrow contact area
- High weight

Steel packer with an aggressive profile. Pending scrapers keep the packer clean. Packer diameter: 550/600mm



RubberRunner

- High coverage
- Low aggressiveness
- Large contact area
- High weight

Rubber packer with low bulldozing. Enables packer road transport for trailed machines. Pending scrapers keep the packer clean. Packer diameter: 550/600mm



Double SoilRunner

- Medium coverage
- Low aggressiveness
- Large contact area
- Medium weight

Double packer with a U-profile that lets the soil work against soil, leaving an open surface. Packer diameter: 580mm



Single SoilRunner

- Low coverage
- Low aggressiveness
- Medium contact area
- Low weight

U-profile packer that lets the soil work against soil, leaving an open surface. Packer diameter: 580mm



CageRunner

- Low coverage
- Low aggressiveness
- Large contact area
- Low weight

Cage packer with crumbling capabilities. Packer diameter: 600mm

Carrier 300-400

Carrier 300-400 is a rigid disc cultivator available in 3, 3.5 and 4 metre working widths. The frame provides a stable and durable machine that sits very close to the tractor, saving on front ballast and reducing the compaction risk.



Carrier 300-400 mixes in residues, and leaves a perfectly levelled working result.

Impressive weight per disc

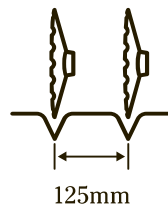
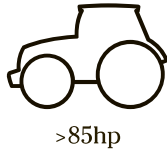
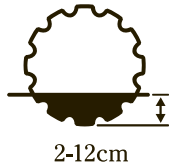
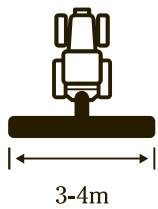
To increase the weight, Carrier 300-400 can be equipped with additional weight packages. This results in a weight per metre higher than any competitor's machine in the same segment. You benefit from a greater penetration force and exceptional working results in all field conditions.

Great mobility

Carrier 300-400 is mounted on the three-point linkage, offering ease of operation and great manoeuvrability. You benefit from a small turning radius on headlands and convenient transport between fields.

Trailed or mounted – you choose

Equipped with the packer RubberRunner, Carrier 300-400 can be delivered as a trailed version. This takes weight off the tractor and reduces the lifting requirement. The weight is distributed between the tractor and the disc cultivator, which in turn reduces the soil compaction rate.



No compromises

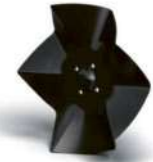


Carrier 300-400 can be equipped with weight packages resulting in up to 800kg/m.



Carrier 300-400 can be delivered as either a trailed or mounted machine.

Discs



450mm CrossCutter Disc



450mm Disc



470mm TrueCut

Packers Mounted



Single SteelRunner



Single SoilRunner



RubberRunner



CageRunner

Packers Trailed



RubberRunner

Rear tools



Following harrow

Carrier X 425-625

Carrier X 425-625 is a mounted foldable disc cultivator with discs positioned in an x-shape, available in 4.25, 5.25 or 6.25 metre working width. It has excellent contour following and impressive penetration ability for its weight.



X stands for x-disc

The discs are positioned in an x-shape, which enables the lateral forces to cancel each other out. The x-disc format guarantees that the machine will always run dead straight behind the tractor. This saves diesel but is also essential when using a GPS guidance system or when driving in hilly conditions.

Adjustable disc angles

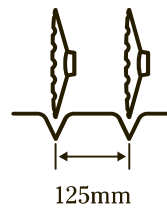
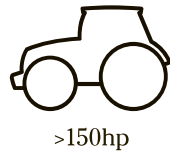
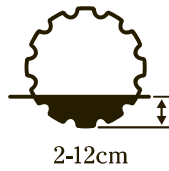
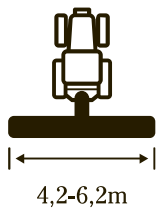
To further increase the soil seeking ability of the discs each disc hub can be rotated to change the disc angles. Tests have shown this technique increases the penetration capacity by up to 50%, compared to traditional solutions with the same machine weight. You benefit from an excellent penetration to weight ratio, as well as the ability to adjust the disc angle according to field conditions.

Full control from the cab

To gain full control, the working depth is controlled hydraulically from the cab. This provides Carrier X with high precision and versatility on varying soil types. The depth setting is easily carried out, without the need for top link adjustments.

Heavy-duty design for long working life

With a strong tube frame and heavy-duty joints, Carrier X is constructed to withstand heavy stresses. You benefit from a long working life with exceptional working results in the field.



Discs



450mm
CrossCutter Disc



450mm Disc



470mm TrueCut

Packers



Single SteelRunner



Single SoilRunner



CageRunner
HeavyDuty

Heavy-duty depth precision



The transport width of Carrier X is only 2.4m and even when folded, you maintain a good rear view from the cab.



The working depth is set from the tractor cab, enabling adaptation to varying conditions in the field.

Carrier 420-820

Carrier 420-820 is a trailed disc cultivator, available in working widths between 4.2 and 8.2 metres. Whether you require a stale seedbed, levelling of ploughed land or cover crop incorporation, the wide range of front tools offer versatility to different farming requirements.



High weight per disc

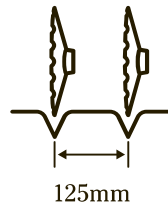
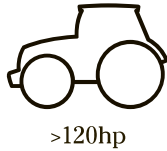
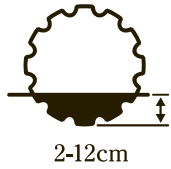
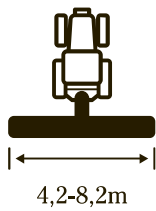
Carrier family are characterised by their strong frame constructed with high-quality Swedish steel. The high weight on each disc improves penetration and maintains working depth even in tough conditions.

Adjustable axles optimise working result

Achieving efficient weed control requires all roots to be thoroughly sliced up in the first pass. To ensure optimal slicing and uniform tillage, the front row of discs can be adjusted laterally with the aid of a turnbuckle.

Great mobility

Carrier 420-820 uses the unique Väderstad folding system, giving a fast transition from field to transport. When folded the transport width is only 2.5m. The folding technique gives the machine a low centre of gravity, resulting in safe manoeuvring.



The multitasking implement



The unique folding gives Carrier 420-820 a low center of gravity and good manoeuvrability in transport, as well as excellent contour following in the field.



Two rows of high quality V-55 Swedish steel discs works down to 12cm working depth.

Front tools



Straw harrow



CrossCutter Knife



CrossBoard

Discs



450mm CrossCutter Disc



450mm Disc



470mm TrueCut

Packers



Single SteelRunner



RubberRunner

Carrier 925-1225

Carrier 925-1225 is a very robust trailed disc cultivator, available in 9.25 and 12.25m working width. With a high working speed, it has a capacity of up to 16 hectares per hour, resulting in low capital costs per hectare.



Heavy duty frame – long working life

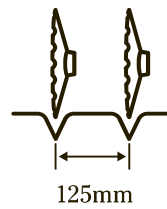
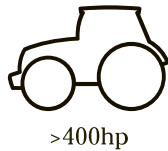
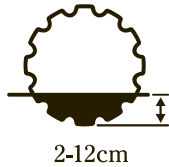
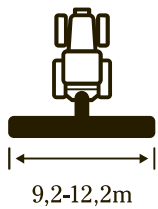
Carrier 925-1225 has an extremely robust frame, ensuring a long working life even in the toughest of conditions. Its few greasing points reduces the maintenance required leading to more time in field.

The obvious choice for 12m CTF

The large Carrier 1225 has a working width of 12.25m. This gives a slight overlap required in a 12m CTF-system. Thanks to the x-shape disc layout, the machine will always run dead straight behind the tractor. This is essential when using GPS-control or when cultivating in hilly terrain.

Even weight – even result

Carrier 925-1225 is equipped with weight packages in the wing sections. This ensures the weight is evenly distributed across the entire working width without the need for complex hydraulic solutions.



Extreme capacity



The unique folding gives Carrier 925-1225 a low center of gravity and good manoeuvrability in transport, as well as excellent contour following in the field.



The wide range of front tools offer versatility to different farming requirements.

Front tools



Straw harrow

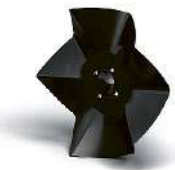


CrossCutter Knife



CrossBoard

Discs



450mm
CrossCutter Disc



450mm Disc



470mm TrueCut

Packers



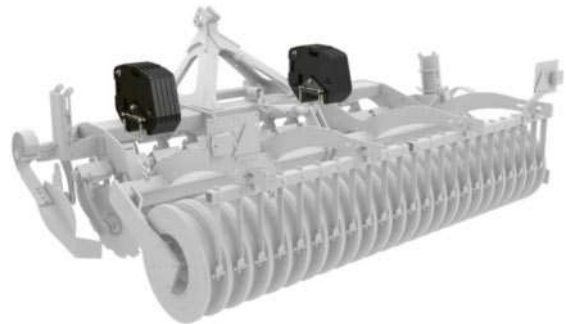
Single SteelRunner

Accessories



Drawbar and towing eye

The following options are available: towing eye 40/50mm, Ball coupling 80mm, Ball towing eye 42/51/71mm.



Balance weights

Additional weight packages for Carrier 300-400, increasing the weight to up to 800kg/m.



Drawbar extension

Turns the mounted Carrier 300-400 into a trailed machine. Available as category 2 or 3 with or without CrossBoard. Requires RubberRunner packer.



BioDrill 180-250

The mountable small seeder BioDrill 180-250 is a hydraulically operated seeding system, available for Carrier 300-400.



BioDrill 360

The mountable small seeder BioDrill 360 is a pneumatic seeding system available for Carrier 420-820, Carrier XL 425-625, Carrier 925-1225 and Carrier XL 925-1225.

	CR 300	CR 350	CR 400	CR 420*	CR 500*
Effective working width (m)	3.0	3.19	3.64	3.94	4.94
Packer width (m)	3.0	3.5	4.0	4.2	5.0
Transport width (m)	3.0	3.5	4.0	2.5	2.5
Weight with single SoilRunner (kg)	1200	1300	1500	-	-
Weight with CageRunner(kg)	1300	1400	-	-	-
Weight with SteelRunner (kg)	1800	2000	2300	4300	4900
Weight with RubberRunner (kg)	1600	1800	2100	3600	4100
Weight with RubberRunner (kg) trailed	1900	2100	2300	-	-
Number of discs	24	26	30	32	40
Disc spacing (cm)	12.5	12.5	12.5	12.5	12.5
Wheel dimension	-	-	-	400/60-15.5	400/60-15.5
Hydraulic requirements	*1 DA	*1 DA	*1 DA	2-3 DA	2-3 DA
Draught requirement (hp)	85-110	100-150	110-160	120-170	150-200

	CR 650*	CR 820*	CR 925*	CR 1225*
Working width (m)	6.44	7.94	8.94	12.25
Packer width (m)	6.5	8.2	9.25	12.25
Transport width (m)	2.5	2.5	3.0	3.0
Transport height (m)	3.2	3.2	4.0	4.0
Weight SteelRunner (kg)	5800	7700	9100	11700
Weight RubberRunner (kg)	5100	6300	-	-
Number of discs	52	64	72	98
Disc spacing (cm)	12.5	12.5	12.5	12.5
Wheel dimension	400/60-15.5	400/60-15.5	520/50-17	520/50-17
	Tandem	Tandem	Tandem	Tandem
Hydraulic requirements	2-3 DA	2 DA	3-4 DA	3-4 DA
Draught requirement (hp)	190-250	220-300	300-500	400-600

***System Disc Aggressive**

	CR 420**	CR 500**	CR 650**	CR 925**
Working width (m)	3.94	4.94	6.44	8.94
Packer width (m)	4.2	5.0	6.5	9.25
Transport width (m)	2.5	2.5	2.5	2.5
Transport height (m)	3.9	3.9	3.9	4.0
Weight SteelRunner (kg)	4600	5400	6800	10000
Weight RubberRunner (kg)	4000	4600	5700	-
Number of discs	32	40	52	72
Disc spacing (cm)	12.5	12.5	12.5	12.5
No of CB tines	15+2	19+2	23+2	35+2
Wheel dimension	400/60-15.5	400/60-15.5	400/60-15.5	400/60-15.5
			Tandem	Tandem
Hydraulic requirements	3 DA	3 DA	3 DA	4 DA
Draught requirement (hp)	120-170	150-200	190-250	300-500

**** System Disc Aggressive CrossBoard Heavy**

	CRX 425	CRX 525	CRX 625
Effective working width (m)	4.25	5.25	6.25
Packer width (m)	4.43	5.47	6.47
Transport width (m)	2.4	2.4	2.4
Weight with single SoilRunner (kg)	2400	2800	3100
Weight with CageRunner HeavyDuty (kg)	2700	3200	3500
Weight with SteelRunner (kg)	3200	3800	4300
Number of discs	34	42	50
Disc spacing (cm)	12.5	12.5	12.5
Number of sections	2	2	2
Hydr. requirements	2 DA	2 DA	2 DA
Draught requirement (hp)	150-200	200-250	250-300

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planters and tillage
equipment.*



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