

# Swift Cultus Opus TopDown

**VÄDERSTAD**

Excellent results at depth





# Welcome to Väderstad

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.



# Excellent results at depth

Väderstad offers four cultivator families for deeper cultivation - Swift, Cultus, Opus and TopDown. Depending on the model, the maximum working depth is from 8-12" (20-30 cm). The cultivators share the same key cultivating principles, but provide different solutions to suit the requirements on each farm.







# Complete range for deep cultivation

## Tine according to depth

Swift has a vibrating tine working down to 8" (20 cm), reducing draught requirement and wear part costs.  
Cultus has a tine with spring suspension and 990 lbs (450 kg) release force, keeping depth down to 10" (25 cm).  
Opus and TopDown has hydraulically suspended tines with 1545 lbs (700 kg) release force, maintaining working depth down to 12" (30 cm) in all conditions. Equipped with DeepLoosening points the working depth increases to 15.75" (40 cm).

## Designed for versatility

To meet differing farming needs, the machines can be fitted with a wide range of points and shins. Each tine is constructed as a modular system, enabling quick change and in turn offering high versatility. With the right choice of points and shins you are able to optimize the working result on your fields, providing the best start possible for the next crop.





# The importance of mixing

The Väderstad tine cultivators are designed to deliver superior residue management through intense mixing. This is an essential benefit for the coming crop, where each plant is granted the same conditions for growth.



# The unique MixIn shin

All Väderstad tine cultivators are equipped with the unique MixIn shin. The MixIn shin, which is seamlessly mounted towards the top of the point, drastically extends the mixing action of the machine.

## Doubles the mixing effect

The MixIn shin throws the material forwards instead of upwards, which otherwise is the usual direction. This forces the material to pass the tine twice, doubling the mixing intensity both in depth and lengthwise.

## Lengthwise distribution

The forward movement provides an intense lengthwise distribution of the crop residues. The mixing effect compensates for a limited straw distribution after a combine. This provides same conditions over the entire field, increasing the yield potential for the coming crop.

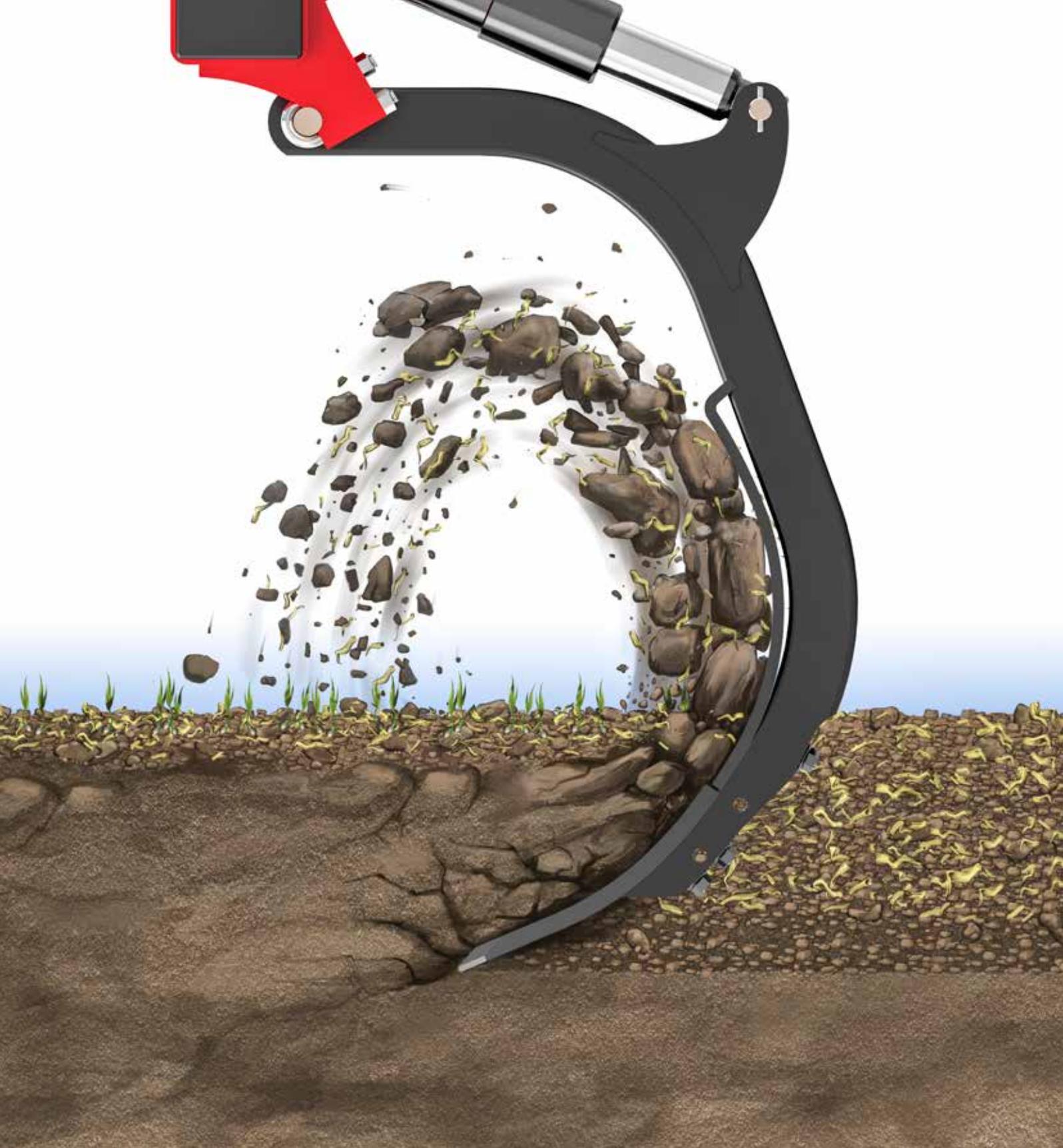
## Depthwise mixing

By doubling the mixing effect, the MixIn shin provides superior mixing throughout the working depth of the machine. This means that the cultivator takes full advantage of every inch of its working depth. Compared to a traditional cultivator, this in many cases means that the working depth can be reduced without compromising the results. The MixIn shin saves fuel, while improving the mixing results on the field.



## Great levelling effect

The intensive forward movement of soil levels uneven parts of the field, such as wheel tracks. By levelling in the same pass as the cultivating operation, the need for additional levelling passes on field is reduced.



### Minimizes clumps

In heavy soil the throwing angle effectively breaks the soil flow and leaves it nicely crumbled. This improves the results, saving additional seedbed preparation.

### Increased mixing with the same fuel cost

The MixIn shin is available in several widths. By equipping the machine with a wider shin than the selected point, the mixing effect is increased without altering the fuel cost.

# Excellence in versatility

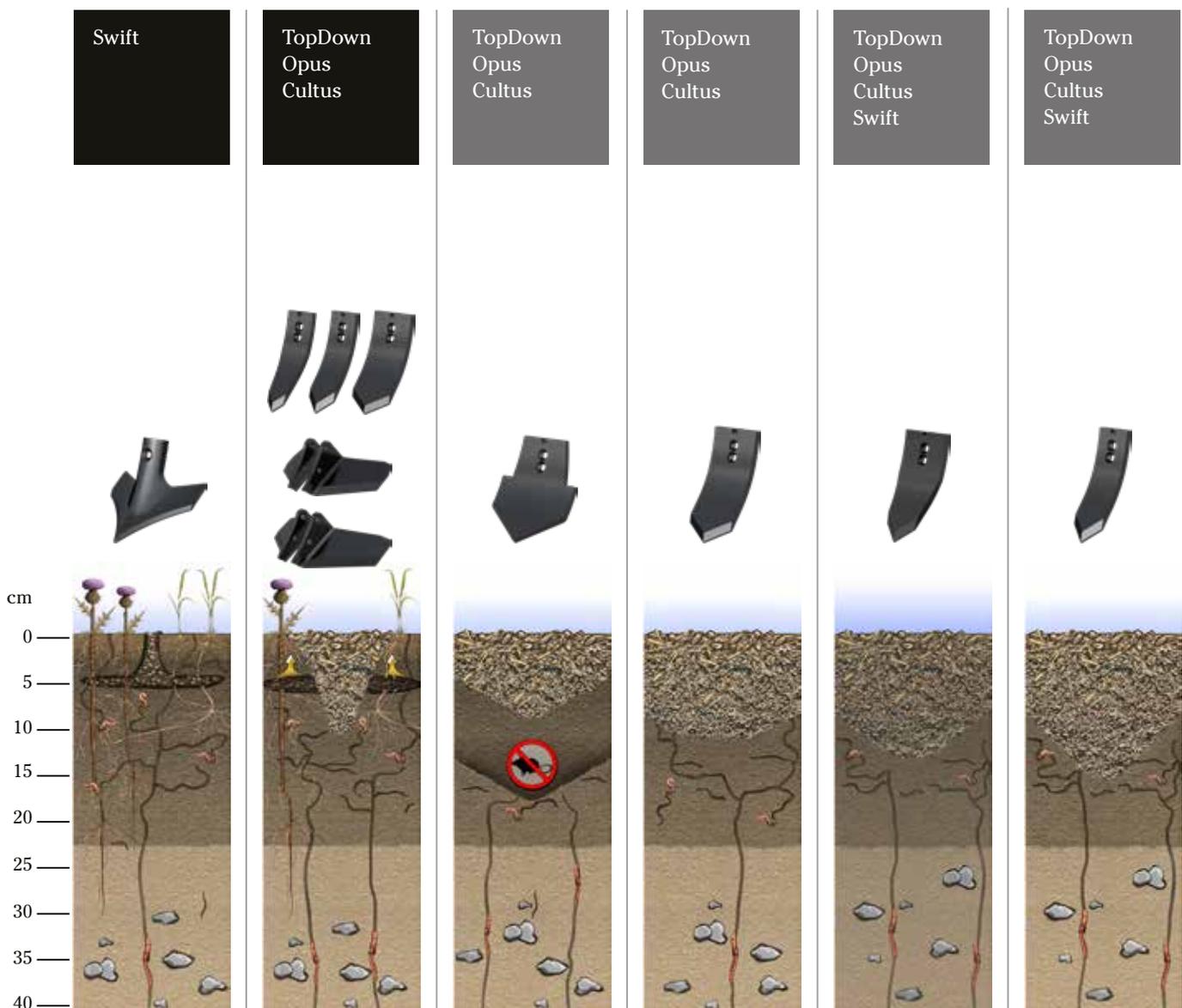
Each unique year in the field, poses different challenges. To adapt to varying conditions the cultivator needs to offer versatility. Equipped with the optimal points for the task, the machine produces excellent work results, while minimizing fuel consumption.



# Points according to requirement

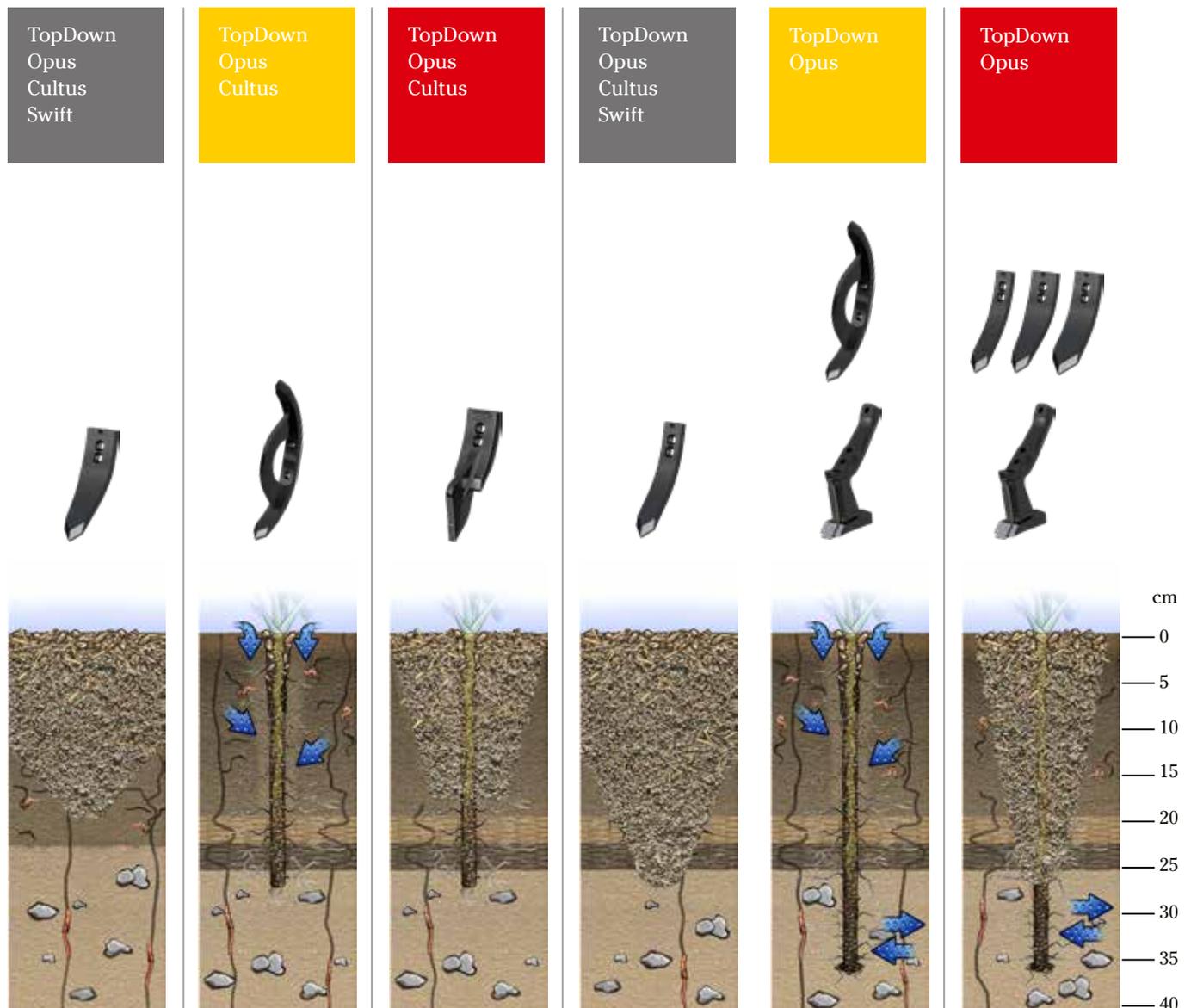
Väderstad offers a wide selection of points with different characteristics, from 2-13.4" (50-340 mm) working width. This enables the machine to be tailored according to the task for various field conditions.

Cutting points
  Mixing points
  Breaking points
  Breaking and mixing points



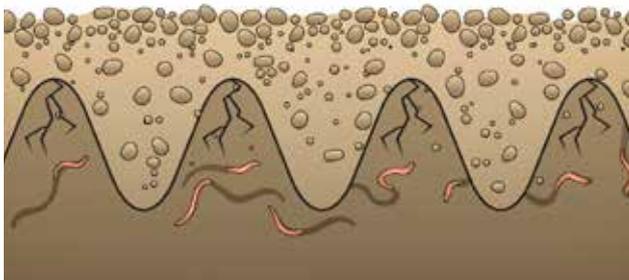
## Väderstad parts manufacturing

To leave nothing to chance, Väderstad manufactures points, shins, discs and packers in our own state-of-the-art production facility in Sweden. This means we are able to guarantee that each key component of the machine is constructed with the same top-of-the-line product philosophy. This is unique in the farm machinery industry.



# Let your soil determine your point

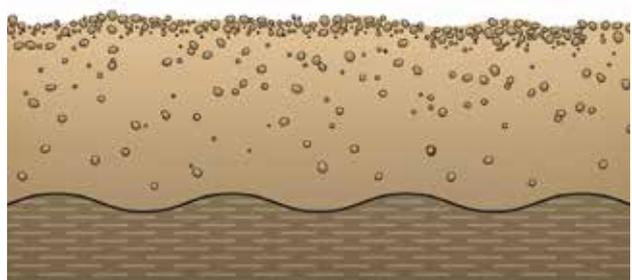
To maximize the root available space, great care should be taken to soil type when selecting points for the cultivator. While the heavy soil can rely on its structure, a lighter self-compacting soil needs a complete loosening to create optimal conditions for the next crop.



## Heavy soils with structure

Compaction layers need to be broken and focus should be set on creating a fine crumbled surface. If the structure and amount of residues allows for it, a thinner point works fine in the heavy soil.

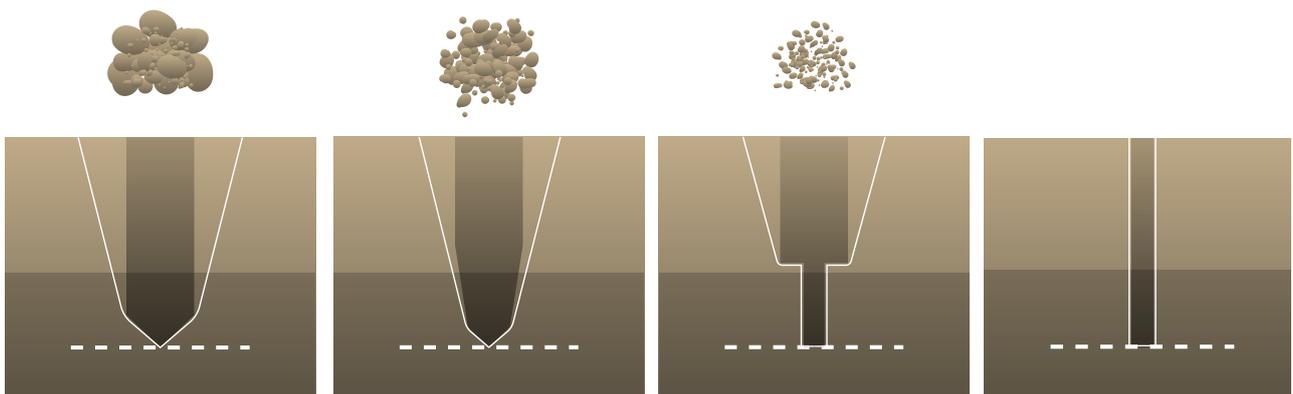
In wet years always choose a thinner point to minimize negative impacts on soil structure.



## Self-compacting soils

During the vegetation period the self-compacting soil collapses, thereby decreasing the space available for root nutrient and moisture uptake.

The wider points deliver a complete loosening, full mixing and aeration of the soil profile.



## The point tip impacts clod creation

Deeper layers in heavy soils tend to be more compact. If brought to the surface, this results in a high amount of clods. By selecting a point with a narrow tip, a finer tilth is created, thus saving additional soil preparation.

# Complete range for all needs

## Mixing points

To match the needs of all soil types, the Väderstad mixing points are available in working widths from 2" to 8.25" (50-210 mm). The working width of the point effects the clod creation, amount of soil mixed and fuel consumption.



## LowDisturbance

The LowDisturbance point brings no soil to the surface, instead its focus is set on water management in wet years.

On the multipurpose cultivator TopDown, the discs works the topsoil while the LowDisturbance points breaks the soil to create drainage slots.



## BreakMix

The BreakMix point combines the advantages of breaking compactions with a very intensive mixing. BreakMix adds versatility, lowers input cost and produces fine tilth.

The BreakMix point is intended for primary or secondary tillage, on farms with heavier soils with risks of compaction.



## DeepLoosening

The DeepLoosening points breaks compactions in depth. By working as a compliment to the other points on the cultivator, the draught requirement is reduced while an additional pass with a separate machine is saved.

The DeepLoosening point is mounted to work down to 15.75" (40 cm) on the rear tine row of the Opus or TopDown cultivator - either full coverage or in the wheel tracks.



# Marathon



## The economic and agronomic choice

Marathon is the family name for hard metal points at Väderstad. A hard metal point increases the working life up to 10 times, compared to a standard point. Most importantly, it offers several agronomical benefits.

## The time aspect

Marathon makes sure that you are working in the field longer allowing you to take advantage of the optimal weather for productive work. No points need to be changed during the season which can be crucial in some years.

## Maintained depth and mixing

Since the hard metal points are placed at the tip of the point, they maintain a perfect working depth throughout the full working life of the point. An additional benefit is that the amount of material mixed also remains the same.



## Angled hard metal increases stone resistance

The Marathon hard metal is folded around the tip of the point. This gives it a very thick base where forces are diverted in two directions, which in turn makes it very stone resistant. An additional benefit is that it also prevents point wear from underneath which would otherwise eventually crack the hard metal.

# Packer according to soil

On reconsolidating cultivators the packer is essential for a perfect working result. To maximize the performance great care should be taken in selecting the packer type according to soil conditions.





# Full depth reconsolidation

The aim of the cultivator packer is to deliver full depth reconsolidation. This eliminates air pockets and restores the capillarity throughout the working depth of the cultivator. This allows the coming crop great access to soil moisture, improving the crop yield potential.

1

## The importance of weight, aggressiveness and coverage

A full depth reconsolidation is achieved through the combination of weight, aggressiveness and coverage of the packer. The packer weight determines the pressure applied. Increasing the aggressiveness of the packer profile focuses the weight on a smaller area, improving its ability to transfer the weight downwards.

The coverage of the packer defines its ability to spread the pressure evenly throughout the full working width of the machine.

2

## Consider

### **Contact surface important on lighter soil**

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. This means that a lighter soil requires a larger contact area between the packer and the soil, while a heavier soil allows for a narrow contact area. When selecting the packer for lighter soil conditions, the packer contact surface needs to be considered.

### **Heavier soil requires aggressiveness**

By applying high weight on narrow segments, the highly aggressive packer has greater ability to deliver reconsolidation at depth. This is crucial to reach full depth reconsolidation in heavier soils. An additional benefit comes from the fact that the aggressive packer profile minimizes clumps, securing a high degree of fine tilth. This means that the aggressiveness of the packer needs to be maximized on heavier soils.



### Double SteelRunner

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

*Double steel packer, leaving a weatherproof consolidated surface. Scrapers keep the packer clean. Packer diameter: 23.5" (600 mm)*



### Single SteelRunner

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

*Steel packer with an aggressive profile. Scrapers keep the packer clean. Packer diameter: 23.5" (600 mm)\**



### 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: 23.5" (600 mm)*



### Double SoilRunner

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

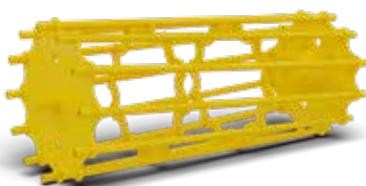
*Double packer with a U-profile allows soil to work against soil, leaving an open surface. Packer diameter: 22.75" (580 mm)*



### Single SoilRunner

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

*U-profile packer allows soil to work against soil, leaving an open surface. Packer diameter: 22.75" (580 mm)*



### CageRunner

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

*Cage packer with crumbling capabilities. Packer diameter: 23.5" (600 mm)*

*\* Cultus 300-350: 21.5" (550 mm)*



# 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, fitted on the wider cultivator 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.





# Swift 400-870

Swift 400-870 is a trailed tine cultivator, designed to perform at peak level in both wet and dry years. You benefit from a spacious design, which can handle large quantities of crop residues. The narrow tine spacing results in an intensive mixing and even working result.



The models in the product family span from 13-28.5' (4- 8.7 m) working widths.

## **Vibrating tines**

The Swift tines provide effective mixing down to 7.75" (20 cm) working depth. Since the tine vibrates with a frequency up to 100 times per second, it produces a very fine soil. An additional benefit comes from the fact that the vibrations result in less wear on points, lowering operating costs and time spent on servicing. The Swift tine is unique in its strength and therefore comes with a three-year warranty.

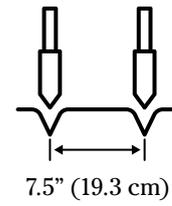
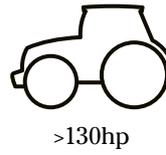
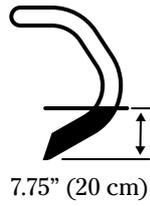
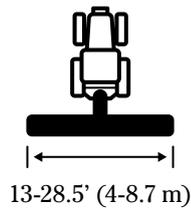
## **Unique frame construction**

Each tine axle is equipped with two tines – one in front of the axle and one behind. This construction allows for a

narrow tine spacing of 7.5" (19.3 cm), providing intensive mixing over the entire working width. Swift's unique design offers a low machine weight which results in minimized draught requirement. Floating wings on the larger Swift models maintain a constant depth even in hilly conditions.

## **Depth setting from cab**

A large distinct scale clearly displays the working depth, which is set hydraulically from the cab on the move. This allows the driver to adapt the working result to different soil types or varying conditions in the field.



## High capacity - low draught requirement



# Cultus 300-400

The 10-13' (3-4 m) tine cultivator Cultus 300-400 has powerful tines working down to 10" (25 cm) depth. You benefit from a spacious frame construction offering impressive mixing capabilities. Cultus is the ideal cultivator for those looking for high quality working result, performance and durability.



## **Very effective tines**

The Cultus tine is designed for high performance during a long working life. With a very effective stone release at 990 lbs (450 kg) using horizontally mounted double springs, Cultus is able to keep the same working depth at all times. The massive self-adjusting centrepiece of the spring using conical bushings in the fastening bolts gives the tine outstanding durability. The double spring prevents shock forces from entering the frame, as a result multiplying the working life.

## **Frame designed for high throughflow**

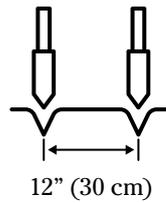
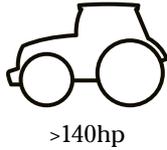
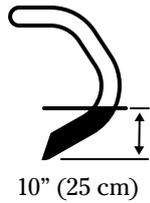
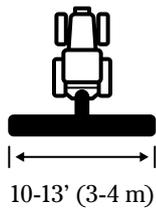
Cultus has three strong axles and 12" (30 cm) tine spacing. Together with the ground clearance, this gives maximum throughflow and capacity. The tine distribution further provides very good mixing of harvest residues, preventing the creation of straw rows.

## **Full control from the cab**

Cultus is able to cultivate the soil down to 10" (25 cm) depth, but the machine also works very well in shallow cultivation. To gain full control, the working depth is controlled hydraulically from the cab on all mounted versions. This makes Cultus a versatile precision cultivator on varying soil types.

## **The highly versatile Cultus**

Depending on the need for reconsolidation and weight distribution, Cultus can be delivered as a mounted machine as well as a trailed machine equipped with a rubber packer, the RubberRunner.



Packers mounted



Single SteelRunner



Single SoilRunner



RubberRunner



CageRunner

Packers trailed



RubberRunner

# Intensive cultivation



*Cultus 300-400 is available either as a trailed or mounted machine.*



*The Cultus tine is able to work with high performance down to 10" (25 cm) working depth.*

# Opus 400-700

Opus 400-700 is a powerful and versatile trailed tine cultivator with an impressive capacity. It is able to handle large amounts of crop residues while keeping the draught requirement moderate.



## **Extremely powerful tines**

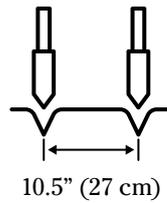
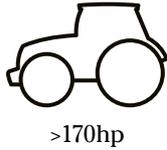
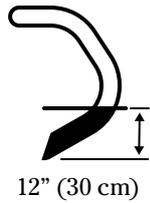
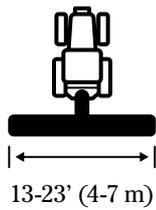
Opus is equipped with robust tines, which mix and loosen the soil down to 12" (30 cm) working depth. With DeepLoosening points the working depth increases to 15.75" (40 cm). The tines have a hydraulic stone release, which can be adjusted variably up to 1545 lbs (700 kg) release force. Thanks to this high release force and its soil-seeking points, Opus is able to maintain a constant working depth in all field conditions.

## **Heavy-duty frame**

The frame is designed for heavy use in tough conditions. It has three axles and 10.5" (27 cm) tine spacing, which ensure an intense cultivation and good throughflow. The heavy tine cultivator Opus is built around a strong frame which can withstand high stresses extending the working life.

## **Always a level field**

The levelers are fitted on a parallelogram, ensuring that the correct working angle is maintained at any depth. To be able to adapt to varying soil conditions, the driver is able to adjust the intensity of the hydraulic levelers with millimeter precision on the move.



## Packers



Single SteelRunner



Double SteelRunner



Double SoilRunner

# Power and versatility



*The carrying wheels positioned in the middle of the machine, makes Opus both easy to transport and gives it a small turning radius on headlands.*



*The powerful Opus tines are equipped with a stone release with up to 1545 lbs (700 kg) release force. This ensures depth is maintained down to 15.75" (40 cm) working depth.*

# TopDown 300-900

TopDown 300-900 is a high intensity multipurpose cultivator, performing both a full-scale shallow cultivation and a deep cultivation in one single pass. By adapting the working result to different conditions in the field, TopDown delivers an unmatched performance.



TopDown reduce passes, preserves ground moisture, increases capacity and lowers the establishment costs.

## **Multiple operations in one pass**

TopDown is a multipurpose cultivator, combining an intensive disc cultivator along with a robust three axle tine cultivator in the same machine. The 5" (12.5 cm) spaced discs on individually suspended disc arms, creates fine tilth by cutting and mixing the top soil. The 10.5" (27 cm) spaced tines then loosen and mix the soil and crop residues down to 12" (30 cm) working depth. In the final two working zones, the leveler and packer then concludes by ensuring an even and fully reconsolidated surface.

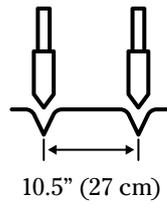
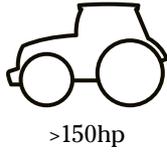
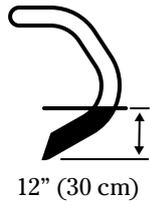
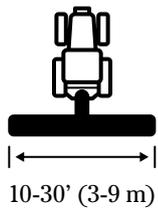
## **High quality discs**

The high quality discs are produced using specialist hardened Swedish V-55 steel. The discs provide intensive

cutting and mixing of soil and crop residue. To adapt to varying soil conditions, the working intensity of the discs can be adjusted from the cab on the move. Thanks to the discs conical shape, they maintain the same working angle relative to the soil, regardless of wear or working depth.

## **Effective mixing and loosening**

With 10.5" (27 cm) tine spacing, TopDown intensively mixes and loosens the soil down to 12" (30 cm) depth. With DeepLoosening points the working depth increases to 15.75" (40 cm). The 1545 lbs (700 kg) stone release system maintains the correct working depth in all conditions, contributing to an even crop growth.



### Discs



17.75" (450 mm)  
Disc



18.5" (470 mm)  
TrueCut

### Packers



Single SteelRunner



Double SteelRunner



Double SoilRunner

# Unmatched performance



*By performing multiple operations, TopDown is able to create a good seedbed in one pass.*



*TopDown 300-700 folds to 10' (3 m) transport width, while the wider TopDown 900 folds to 16.5' (5 m).*

# Accessories



## Drawbar and towing eye

The following options are available: towing eye 1.5-2" (40/50 mm), Ball coupling 3" (80 mm), Ball towing eye 1.6"/2"/2.75" (42/51/71 mm).



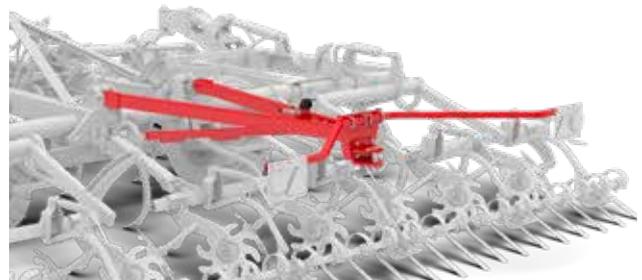
## Linkage drawbar

Linkage drawbar Cat 2 or 3 with rigid or hydraulic push rod. For Swift 400-440.



## Linkage drawbar

Linkage drawbar with towing eye and hydraulic push rod. For Swift 560-870.



## Rear drawbar for attachments

Rear drawbar allowing attachment of a roller behind the cultivator. For Swift 400-870.



## Following harrow

Following harrow sorting larger aggregates to the surface. For Swift 400-870.



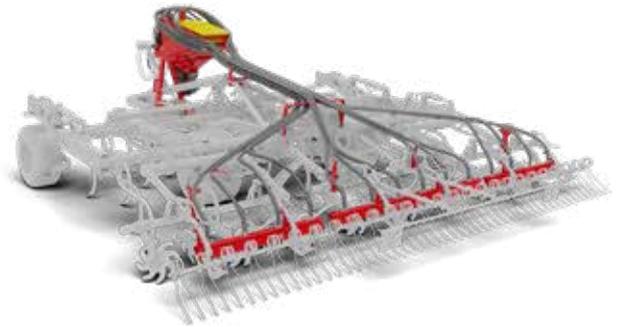
## Tiller with great leveling result

Tiller tines level the field and give a slight consolidation. For Swift 400-870.



**BioDrill 180-250**

BioDrill 180-250 for small seeds and cover crops.  
For Cultus 300-400 and TopDown 300.



**BioDrill 360**

BioDrill 360 for small seeds and cover crops.  
For Swift 400-720, Opus 400-700 and TopDown 400-900.



**Fertilizer kit**

Fertilizer kit with adjustable depth placement.  
For Opus 400-700 and TopDown 300-900.



**Spreader nozzles**

Spreader nozzles for row seeding in line with cultivator.  
For Opus 400-700 and TopDown 400-700.

	<b>SW 400</b>	<b>SW 440</b>	<b>SW 560</b>	<b>SW 640</b>
Working width in ft (m)	13 (4)	14 (4.4)	18 (5.6)	21 (6.4)
Transport width in ft (m)	10 (3)	10 (3)	10 (3)	10 (3)
Transport height in ft (m)	9 (2.8)	10 (3)	12 (3.6)	11 (3.4)
Basic weight in lbs (kg)	6395 (2900)	6613 (3000)	7720 (3500)	9920 (4500)
Number of tines	21	23	29	33
Tine spacing in inches (cm)	7.5 (19.3)	7.5 (19.3)	7.5 (19.3)	7.5 (19.3)
Wheel dimension	520/50-17	520/50-17	520/50-17	520/50-17
Depth adjustment	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Hydraulic requirements	4 DA	4 DA	4 DA	4 DA
Draught requirements (hp)	130-200	140-220	170-280	190-320

	<b>SW 720</b>	<b>SW 870</b>
Working width in ft (m)	23.5 (7.2)	28.5 (8.7)
Transport width in ft (m)	10 (3)	10 (3)
Transport height in ft (m)	12 (3.7)	13 (4)
Basic weight in lbs (kg)	10140 (4600)	11245 (5100)
Number of tines	37	45
Tine spacing in inches (cm)	7.5 (19.3)	7.5 (19.3)
Wheel dimension	520/50-17	520/50-17
Depth adjustment	Hydraulic	Hydraulic
Hydraulic requirements	4 DA	4 DA
Draught requirements (hp)	220-360	260-440

	<b>CS 300</b>	<b>CS350</b>	<b>CS400</b>
Working width in ft (m)	10 (3)	11.5 (3.5)	13 (4)
Transport width in ft (m)	10 (3)	11.5 (3.5)	13 (4)
Transport height in ft (m)	6 (1.8)	6 (1.8)	6 (1.8)
*Weight with RubberRunner in lbs (kg)	4630/5290 (2100/2400)	5070/5730 (2300/2600)	-/6170 (-/2800)
Weight with CageRunner in lbs (kg)	3970 (1800/-)	4190 (1900/-)	-
Weight with Single SteelRunner in lbs (kg)	4630 (2100/-)	5070 (2300/-)	-
Weight with Single SoilRunner in lbs (kg)	3970 (1800/-)	4190 (1900/-)	4850 (2200/-)
Number of tines	10	12	13
Tine spacing in inches (cm)	11.75 (30)	11.75 (30)	11.75 (30)
Wheel dimension	7.00-15	7.00-15	7.00-15
Hydraulic requirements	1 DA	1 DA	1 DA
Draught requirements (hp)	120-200	140-220	160-240

\* 3-point/Trailed  
DA= Double action

	<b>OS 400</b>	<b>OS 500</b>	<b>OS 600</b>	<b>OS 700</b>
Working width in ft (m)	12.25 (3.75)	15.5 (4.75)	19 (5.75)	22 (6.75)
Packer width in feet (m)	13 (4)	16.5 (5)	19.75 (6)	23 (7)
Transport width in ft (m)	10 (3)	10 (3)	10 (3)	10 (3)
Transport height in ft (m)	8.75 (2.7)	10.25 (3.1)	12 (3.6)	13 (4)
Basic weight in lbs (kg)	11000 (4990)	12015 (5450)	15960 (7240)	18210 (8260)
Weight with Single SteelRunner in lbs (kg)	12345 (5600)	13670 (6200)	18520 (8400)	19840 (9000)
Weight with double SoilRunner in lbs (kg)	11465 (5200)	12345 (5600)	17415 (7900)	18740 (8500)
Weight with double SteelRunner in lbs (kg)	13225 (6000)	13890 (6300)	18960 (8600)	20280 (9200)
Number of tines	14	18	22	26
Tine spacing in inches (cm)	10.5" (27)	10.5" (27)	10.5" (27)	10.5" (27)
Wheel dimension	520/50-17	520/50-17	560/45-22.5	560/45-22.5
Hydraulic requirements	3 DA	3 DA	3 DA	3 DA
Draught requirements (hp)	170-220	210-260	270-320	320-370

	<b>TD 300</b>	<b>TD 400</b>	<b>TD 500</b>	<b>TD 600</b>
Working width in ft (m)	8.75 (2.65)	12.25 (3.75)	15.5 (4.8)	19 (5.75)
Packer width in feet (m)	10 (3)	13 (4)	16.5 (5)	19.75 (6)
Transport width in ft (m)	10 (3)	10 (3)	10 (3)	10 (3)
Transport height in ft (m)	6.25 (1.9)	9 (2.7)	10.5 (3.2)	12 (3.6)
Basic weight in lbs (kg)	9260 (4200)	13225 (6000)	14990 (6800)	19620 (8900)
Weight with Single SteelRunner in lbs (kg)	9700 (4400)	13670 (6200)	15430 (7000)	20060 (9100)
Weight with double SoilRunner in lbs (kg)	8820 (4000)	12790 (5800)	14330 (6500)	17860 (8100)
Weight with double SteelRunner in lbs (kg)	9700 (4400)	14110 (6400)	15650 (7100)	19620 (8900)
*Number of discs	22	11.75 (30)	38	46
Number of tines	10	14	18	22
Tine spacing in inches (cm)	10.5" (27)	10.5" (27)	10.5" (27)	10.5" (27)
Wheel dimension	520/50-17	520/50-17	520/50-17	560/45-22.5
Hydraulic requirements	4 DA	4 DA	4 DA	4 DA
Draught requirements (hp)	150-200	200-240	250-300	300-360

	<b>TD 700</b>	<b>TD 900</b>
Working width in ft (m)	22 (6.75)	30 (9.1)
Packer width in feet (m)	23 (7)	29.5 (9.0)
Transport width in ft (m)	10 (3)	16.5 (5)
Transport height in ft (m)	13 (4)	13 (4)
Weight with Single SteelRunner in lbs (kg)	21825 (9900)	29100 (13200)
Weight with double SoilRunner in lbs (kg)	19180 (8700)	-
Weight with double SteelRunner in lbs (kg)	21385 (9700)	-
*Number of discs	54	72
Number of tines	26	35
Tine spacing in inches (cm)	10.5" (27)	10.5" (27)
Wheel dimension	560/45-22.5	620/50-22.5
Hydraulic requirements	4 DA	4 DA
Draught requirements (hp)	350-420	400-600

\* Number of discs on front tool  
DA= Double action

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