



# GE-Force Hook Tine Cultivator, the ideal start



**KEEN &  
GREEN**

## The perfect preparation for a profitable harvest

*A good start is the perfect base for an excellent end result. A good soil preparation leads to optimal growth conditions and a good, high-quality product. In short: the AVR GE-Force is an investment that reimburses itself by maximizing your profits.*

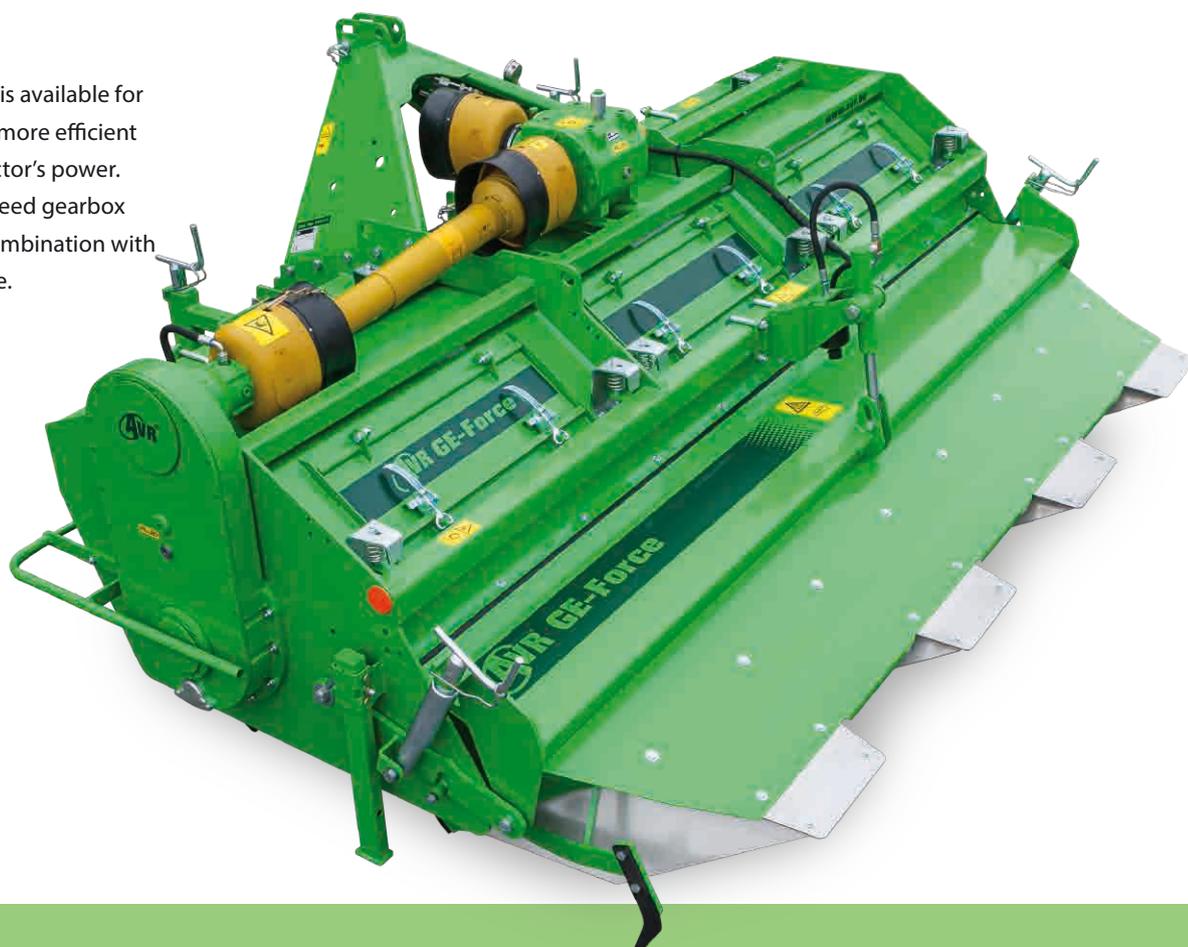
### ■ Robust drive line

The GE-Force is equipped with a simple one speed gearbox that directly transmits the incoming torque to the side drive. The standard gearbox can handle up to 250 hp of power. A 380 hp gearbox is also available as an optional extra; in addition a 3 speed gearbox is also available which offers greater flexibility with the rotor speeds for use in varied soil types. Since the rpm is only reduced in side drive, the forces that act on the intermediate shafts and bearings are limited, leading to far less component wear and tear.



### ■ Options

- 3 speed gear-box.
- A two-sided drive is available for users who want a more efficient transfer of the tractor's power.
- Reinforced one speed gearbox (380 hp max) in combination with a double side drive.



### ■ KEEN & GREEN:

*The GE-Force is designed for use with high-powered tractors. The center gearboxes are able to manage 250 to 380 hp of power.*



#### ■ Solid sprocket drive

The side drive is sprocket driven, three fixed sprockets are mounted in a cast-iron box that is mounted on the frame and runs extremely stable.

The independent suspension of the frame guarantees an optimal meshing of the sprockets, resulting in a better power transfer and a longer sprocket life.

#### ■ Self-cleaning cover, less maintenance

The cover above the rotor is fixed by means of springs; these make sure the cover is continuously vibrating, preventing soil accumulation. When soil accumulation cannot be prevented, for instance when working in extreme conditions, optional hydraulic cylinders that can press the cover into the springs (e.g. on the headland) can be installed, allowing the hooks to clean the cover.

Three inspection hatches give access to the rotor. This allows for easy and fast cleaning and inspection of the cultivator rotor.



## Extra capacity & fuel economy



### ■ Reinforced hook tines

By default, the GE-Force is equipped with welded “heavy” duty tines (50 x 12 mm) that are fixed using M16 and M12 safety bolts. Optionally, these can be coated with WIDIA plates, increasing the standard tine life threefold compared to standard heavy duty. WIDIA type tines are not recommended for use in soil types with a high stone content..

### ■ High-speed ridge forming plates

The high-speed stainless steel ridge forming plates create dense, compact ridges; by using these plates a 30% increase in capacity can be achieved.



### ■ Rotor with six tines for additional capacity & fuel economy

In ordinary conditions, the same crumbling is achieved with six (instead of four) tines and a lower engine rpm. This leads to a 33% reduction in fuel consumption and extra prevention of wear and changing of parts. A higher speed with the same rpm is also possible to further increase the capacity.



### ■ KEEN & GREEN:

*Rotor with 6 tines for extra capacity / fuel economy!*



■ **Automatic ridging hood control**

The ridging hood can be equipped with AAR (Automatic Ridging Hood Control). In this case, a hydraulic cylinder applies a constant pressure to the hood, resulting in uniformly shaped ridges with fixed dimensions, even on parcels with variable soil conditions.

■ **Automatic steering mechanism**

The ASI option (Automatic Steering Mechanism) makes sure that the ridge is shaped precisely above the mother tuber in all conditions. This is important for an optimal growth of the seed potatoes.

■ **Hydraulic folding AVR GE-Force cultivator**

Capacity increase is very coveted these days, and the foldable AVR GE-Force cultivator offers just that. With its working width of up to 6 meters, large areas can be cultivated in just one pass. Characteristic for this system are its stability and HD (Heavy Duty) drive. Thanks to its foldable construction, it lives up to all legal requirements for driving on public roads.



## Multiple use



### ■ Choose your own version

- 2 to 8 rows.
- 75 to 90 cm.
- Fixed or foldable frame.
- Full width cultivator: The GE-Force can be equipped with a fullwidth plate + V spiral roller for planting bed preparation.
- Row cultivator: The GE-Force can be equipped with a ridging hood for ridging after planting. The ridging hood ensures perfect ridges and can easily be adjusted. The ridge forming plates' angle is ideally conceived. Stainless steel high-speed ridge forming plates can optionally be mounted to achieve higher driving speeds while still constructing well-shaped ridges.



### ■ KEEN & GREEN:

*The GE-Force can also be used to create ridges for carrots, Belgian endive and curly endive, and for constructing seed beds for other crops.*

**Photo by Peter van Damm**



GE-Force		
Version / Type	Processing	Working width
Farmer 2 x 90	2 rows 90 cm	1968
HD - fixed frame 4 x 75	4 rows 75 cm	3088
HD - fixed frame 4 x 80	4 rows 80 cm	3348
HD - fixed frame 4 x 85	4 rows 85 cm	3348
HD - fixed frame 4 x 90	4 rows 90 cm	3800
HD - fixed frame 6 x 75 DD	6 rows 75 cm	4500
HD - foldable 6 x 90	6 rows 90 cm	5400
HD - foldable 8x75	8 rows 75 cm	6088

### Standard version

- One-speed sprocket gearbox 1,000 rpm, max. 250 hp
- Intermediate shaft with driving shaft
- PTO drive shaft with friction or cam clutch
- 2 or 4 steel depth control wheels with screw/spindle adjustment
- Spring-mounted cover with inspection hatches
- Hardened tine mounts welded to the rotor
- Side drive with sprockets
- Standard for row cultivator: Multifunctional ridging hood
- Standard for full width version: preparation set for seed bed (guiding plate and crumbling roller)

### Options

- Two-sided drive
  - Hook tines with Widia coating
  - Automatic ridging hood control
  - High-speed components for ridging hood
  - ASI (Automatic Steering Mechanism)
  - Tines in ridge plate
  - Transport vehicle with lighting
  - Hill stabilizer
  - Hill discs
  - 6 hooks on circumference instead of 4
  - Markers: mechanical or hydraulic
  - Lighting
  - Transport kit
  - Depth control wheels with pneumatic tires instead of standard steel
  - Rain soil opener
  - Spray-track kit: mechanical or hydraulic
  - Hydraulic system for cover cleaning
- 
- Full field options
  - Carrot set: 24 extra hooks in the middle of the ridge
  - Pneumatic tyres (in stead of standard)
  - Depth control wheel behind cultivator
  - Ridge roller 4x75 or 6x50

GE-Force			
Version / Type	Number of tines	Weight (kg)	Required kW/hp (min.)
Farmer 2 x 90	44	1,250	44/60
HD - fixed frame 4 x 75	72	1,700	66/90
HD - fixed frame 4 x 80	84	1,750	88/120
HD - fixed frame 4 x 85	84	1,850	88/120
HD - fixed frame 4 x 90	84	2,000	88/120
HD - fixed frame 6 x 75 DD	104	2,500	102/140
HD - foldable 6 x 90	124	2,750	115/160
HD - foldable 8x75	124	3,800	115/160

Please contact us for more versions.





*Our KEEN & GREEN quality label indicates that our machines are equipped with techniques that promote durability and ease of use.*

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■ **KEEN**

*AVR never stops innovating and designs smart machines that make your work life easier and allow you to maximize your profits.*

■ **GREEN**

*Our machines are not only called green because of their striking color, but also because of their durability. The machines consume as little fuel as possible, and their solid construction ensures a very long lifespan. This means you will have recovered the costs of your investment in no time.*



AVR bvba, with head office in Roeselare, Belgium, produces a comprehensive selection of sophisticated machines for the potato industry (and other bulbous and tuberous plants). This includes planting bed preparation, planting, ridging, haulming, harvesting and hangar storage. Our mission is to make sure that more marketable products end up in the hangar using less input. So as to be able to offer you optimal support, we invest for instance in an extensive dealer network and a strong service department. AVR employs about 130 employees internationally, has a network of 105 dealers and had a turnover of 48 million euros in 2014.



[www.avr.be](http://www.avr.be)

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