



GKIIS • GKIISE • GKIISL • GKIISE



**2 and 3-row trailed top-lifting carrot harvester with elevator**

## Revolutionary in its class

As carrot grower or agricultural contractor you are faced daily with ever stricter requirements that are placed upon you by the consumer. The marketing of quality products and the ability to deliver these on time is of crucial importance to ensure that the competition do not get the upper hand.

In order to meet the high expectations placed upon you, you expect the same from your carrot harvester. You need a machine that can withstand the toughest of conditions and with which you can reduce the operating costs to an absolute minimum. No other carrot harvester can exceed these expectation as does the trailed **Dewulf** top-lifting carrot harvester.



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## Pure craftsmanship throughout the years

The 1960s were the turning point for the way in which carrots were harvested. The arrival of the first **Dewulf** top-lifting carrot harvester set new standards in quality and capacity. Since 1946, **Dewulf** has been active in the area of harvesting machines for various vegetables. The philosophy of striving towards constant improvements in developments and the production process resulted in a huge expansion of exports in the mid 1960s.

A revolutionary step was the introduction of the first self-propelled carrot harvesters in the early 1970s. These days **Dewulf** provides a wide range of top-lifting carrot harvesters of 1 to more rows, in order to have a suitable solution for every situation.

**Dewulf** is appreciated by the leading harvesters and agricultural contractors throughout the world. After all, for **Dewulf** it is all about producing world-class machines. Machines that are produced with the highest quality materials and developed in order to meet the strictest requirements.



1970: One of the first self-propelled top-lifting carrot harvesters





GKIIS



- 1. 2 hydraulic torpedoes per element - option
- 2. DAS (Dewulf Automatic Steering) - option
- 3. ADC (Automatic Depth Control) – standard



#### **DSC (Dewulf Synchronisation Control) - option**

The travel speed is measured by radar. This data is then sent to the harvesting display which in turn automatically synchronises the speed of the harvesting belts and topping blades. (Also possible via the ISO connection of the tractor.)





## A perfect cutting result starts with the intake

### Intake section

An accurate cutting result depends very much on the moment when the carrots can be harvested. For this the carrots will have to be suspended uniformly and accurately in the top lifting mechanism. Unique are the '**Floating Shares**', 2 or 3 individual harvesting elements with independent topping blades, whereby maximum stability is guaranteed, even with high speeds. Small up-and-down movements of the picking element do not have any influence on the position of the shear arms, whereby maximum stability is guaranteed.

## FLOATING SHARE

If you want as driver to concentrate better on the actual harvesting process, you can opt for Dewulf Automatic Steering (DAS). Two robust sensors detect the crop and correct the positions of the cylinder on the shaft.



### Side-shift on left harvesting element for GKIIS/GKIISE/GKIISL

If sowing is carried out with an uneven sowing machine, an optional side-shift may be fitted on the left harvesting element. This allows the distance between the last row of sowing strip 1 and the first row of sowing strip 2 to be bridged over.



### Shear arm protection

**Dewulf** has, via an optional spring between the shear and the chassis, created an extra safety feature for the shears if confronted with stony conditions.





### Picking belts

With the 14000 mm super-grip profile belts **Dewulf** gives a new dimension to capacity, cleaning and product-friendliness. Thanks to the large-sized belts, a greater capacity is achieved and harvesting can continue as conditions become more intense. A low inclination angle ensures a smooth and gentle crop intake. Drive wheels with a large diameter and (optional) automatic belt tensioners guarantee continuity under the roughest conditions. The speed of the harvesting belts and topping blades are proportionally adjustable and reversible from the tractor.



Hydraulically-driven rotating cleaners if more intensive cleaning is required. (optional)



Rolls in front (option), under and behind the topping blades (standard) restrict losses and blockages to a minimum.



Via 1 handle per harvesting element all supporting pulleys of an element are tightened or loosened. This makes it much easier to replace a belt or remove blockages. (optional)







## The heart of a Dewulf top-lifting harvester

Whenever moving parts are exposed to dirt and liquid, excessive wear will be the result. That is why Dewulf ensures the bearings of the topping blades are hermetically sealed through a **'Labyrinth Sealing'**. This provides the highest degree of durability in the market, whereby even the smallest dust particles and aggressive plant fluids cannot gain access to the bearings. Routine maintenance is kept to a minimum. Two grease nipples per head lubricate all six topping blades through a central grease channel within the housing. Two grease nipples ensure that there is always one grease nipple available to lubricate manually.

The topping blades are driven by a maintenance-free **'Gearbox Drive'**. In contrast to conventional chain drive systems with a chain tensioner, two heavy-duty sprockets ensure a perfect synchronisation of the blades. As a result, the tops of the carrots remain undamaged and the topping blades last longer.

Foreign objects such as wood will not obstruct the harvesting process, as the topping blades are sprung-loaded and therefore always return to their original position. Six topping blades ensure for an optimal topping result, and are also self-cleaning. The blades are as standard sharp on both sides, so reversing the direction of the blade can clear any blockages.



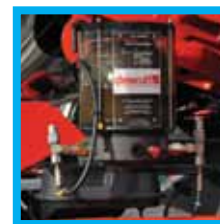
**GEARBOX  
DRIVE**



**LABYRINTH  
SEALING**

### Automatic lubrication system for the blades - option

The automatic lubrication system for the blades is your guarantee for a perfect lubrication, everywhere and at all times. You can therefore use your time optimally throughout the season.







GKIISE

## Experience the new standard in product-friendliness and capacity

### Elevator

The 1200 mm wide elevator is your guarantee for unprecedented capacity and product-friendliness. The elevator is placed off-set to the cross web. As a result the product spreads optimally across the entire width of the elevator.

Thanks to the long harvesting belts the elevator is also attached higher on the chassis. The product is therefore transported up at a significantly lower angle, ensuring that no product falls back. Combined with a large sprocket on the end, a highly product-friendly transport can be realised under all conditions.



Even spread  
Product-friendly transport



### Fall breaker

In order to harvest in an extra product-friendly manner, there is an optional hydraulically-adjustable fall breaker. Boxes can be filled more easily through a mechanical filling funnel.



### Hedgehog belt

If you need a completely clean product straight from the land, the GKIISE and GKIISE come as standard with a hedgehog belt. The hedgehog belt separates the crop and the rest of the earth from the product flow. In order to meet a variety of conditions this can be adjusted in incline and speed. The large contact surface area (length: 1680 mm) of the hedgehog belt guarantees an unsurpassed cleaning capacity.



## Ease of working means quick working

### Control unit and joystick

The trailed top-lifting harvesters can be operated simply thanks to a control unit and joystick. Through the control unit it is possible to adjust every harvesting parameter. The joystick has 20 buttons so that it is possible to directly control sufficient functions. Furthermore, it is possible to link various harvesting parameters in 5 configurable preselections. You can, for example, change the complete setting of the machine by pressing a single button.





## Developed to harvest in the most extreme conditions

Stability plays an important role with regard to the intake of the product. Too much rocking of the machine can have a negative effect of this. Large wheels (8 different positions are possible) ensure for optimal stability and ground clearance in the field. In combination with a balanced weight distribution, low ground pressure is obtained. As option there is hydraulic traction so that it is possible to harvest in the severest of conditions.

Thanks to a robust rear axle with a deflection of 25°, the harvester has unrivalled manoeuvrability and flexibility. Working on inclines is no problem, as the steering wheels prevent the harvester from slipping.



1. Mitas 600/65 R 38 ( Ø 1742 mm)    standard L+R
2. Mitas 710/70 R 38 ( Ø 1922 mm)
3. Mitas 2x750 320/90 R 50 ( Ø 1849 mm)
4. Mitas 320/90 R 50 ( Ø 1849 mm)
5. Mitas 300/95 R 46 ( Ø 1740 mm)







## Easy maintenance and efficient service

The robust mono chassis guarantees a superior durability with a low weight. The open construction provides a considerably improved view of the harvesting process. The easy accessibility of all components illustrates that **Dewulf** knows the wishes of the customer like no other.

All the essential hydraulic components are arranged in an orderly fashion under the folding panels that open sideways. **Dewulf** brings the best of all worlds together: the harvesters are made from high-quality, wear-resistant standard components, available everywhere and simple to replace. With a carefully selected network of dealers, **Dewulf** offers expertise and efficient service to guarantee your continuity.



## Flexibility for various vegetable crops

- Carrots
- Red beets
- Parsnips
- Turnips
- Celeriac
- Root Parsley
- ...





Technical data		GKIIS	GKIISE	GKIISL	GKIIIE
Picking element	Number of rows	2			3
	Harvesting belt	1400 mm, super grip profile, forced haulm evacuation, intake at right side			
	Inclination angle	26°			
	Topping blades	6 blades, double bearings with labyrinth sealing, 2 central greasing nipples per 6 topping blades			
	Drive	Maintenance-free gearbox for perfect synchronisation of the blades			
	Hydraulically-driven torpedoes	o			•
	ADC (Automatic Depth Control)	•			
	DAS (Dewulf Automatic Steering)	o			
	DSC (Dewulf Synchronisation Control)	o			
	Synchronised speed of the harvesting belts	o			
	Rotary cleaners under the harvesting belts	o			
	Rotary brushes for cleaning the harvesting belts	o			
	Automatic belt tensioners	o			
	Driven roll under the topping blades	•			
	Driven roll for efficient haulm transfer	•			
Cross web	Length (mm)	1807	2037	1807	2980
	Width (mm)	800			
	Pitch (mm)	28			
	Incline	3,5°			3°
	Agitator	o			
	Ejection roller	o			
Hedgehog belt		-	•	-	•
Longitude web	Length (mm)	-	2777	2777	2980
	Width (mm)	800			
	Pitch (mm)	28			
	Incline	18°			
Elevator	Max. discharge height (mm)	3800			3500
	Width (mm)	1200			
	Elevator canvas	Uncovered bars, pitch 40, with rubber carriers: • Uncovered bars, pitch 40, with rubber fingers: o			
Service platform		•			
Drive		1 LS pump (2 for GKIIIE) and 1 gear pump + oil cooler			
Tractor	Minimal tractor power	120 hp			
	Power take-off	540 T/min			
Tires		Mitas 600/65 R 38: • left + right			
Hydraulic traction		2 x Poclain MSE11: 2,6 ton @ 330 bar: o			
Weight (kg) as of		7100	7665	7200	9280
Length (mm)		9551			9528
Width (mm)		3288			4119
Height (mm)		4000			
		• Standard    o Optional    - Not possible			

Dewulf reserves the right to change the concept and the specifications without obligations for the bought material or after the changes mentioned