






DEWULF ZKIV
SELF-PROPELLED
4-ROW TOP LIFTING
HARVESTER

 Soil cultivation

 Planting

 Harvesting

 Storage

 Grading

PROVEN CRAFTSMANSHIP THROUGH THE YEARS

As a carrot grower or agricultural contractor, you are faced daily with ever stricter requirements that are placed upon you by the consumer. The ability to deliver these quality products on time is of crucial importance to ensure that the competition does not get the upper hand. In this context, it is only natural that you have high expectations from your top lifting harvester.

You need a reliable machine that can handle the most difficult conditions and can do so in the most economical way. No other harvester can meet or exceed these expectations like Dewulf's top lifting harvesters do.



REVOLUTIONARY

The 1960s were the turning point in the way carrots are harvested. The arrival of the first Dewulf top lifting carrot harvester set new standards in quality and capacity. Dewulf has been active in the development of harvesting machines for various vegetables since 1946. The philosophy of striving for continuous innovation resulted in a huge expansion of our machine exports in the mid-1960s. A revolutionary step was the introduction of the first self-propelled top lifting

harvesters in the early 1970s. These days, Dewulf provides a wide range of top lifting harvesters, for one or more rows, to offer a suitable solution for every root crop harvest.

HIGHEST QUALITY

Thanks to the simple controls that allow the driver to concentrate fully on the harvesting process, harvesting with our self-propelled top lifting harvesters is truly sublime. The ZKIV is made from high-quality, wear-resistant standard components, which are available everywhere and simple to replace should the need arise. Increased productivity and lower maintenance costs make harvesting with the ZKIV exceptionally enjoyable during the most critical time of year.

A PERFECT CUTTING RESULT STARTS WITH THE PICK-UP

A key element in having an accurate cutting result is the moment at which the carrots are lifted by the belts and shares. With the 12 650 mm long super-grip profile harvesting belts, the carrots are hung uniformly and accurately in the harvesting belt unit. Drive pulleys with a large diameter and the hydraulic belt tensioners guarantee continuity under the roughest conditions. The Floating Shares are a unique feature: 4 individual harvesting elements with independent harvesting shares. Thanks to this technology, small up-and-down movements of the harvesting element have no impact on the position of the share arms. This ensures maximum stability, even at high driving speeds. You, the driver, are able to focus fully on the harvesting process thanks to the Dewulf Automatic Steering (DAS). With DAS, a first set of sensors on the harvesting unit is steering the rear wheel. A second set of sensors on the harvesting unit is controlling the side-shift of the 4 harvesting elements together. This side-shift corrects the steering of the rear wheel.



ROTARY TORPEDOES

The hydraulically driven rotary torpedoes, of which you have 2 per element, are equipped with Automatic Depth Control (ADC) via proportional sensors. The torpedoes are adjustable in speed and turning sense from the cabin.



ROTARY CLEANERS

2 hydraulically driven rotary cleaners per element are provided for intensive cleaning. These cleaners can also be equipped with Rotary Cleaner Control. This option enables you to adjust the angle of all the rotary cleaners in each row and save this angle setting for repeated use.



INDIVIDUAL HARVESTING ELEMENTS

The ZKIV is equipped with 4 individual harvesting elements which makes it possible to harvest 1, 2 or 3 rows, f.e. when you are harvesting spraying tracks.

THE HEART OF A DEWULF TOP LIFTING HARVESTER

Whenever moving parts are exposed to dirt and liquid, the unavoidable result is accelerated wear. This is why Dewulf hermetically seals the bearings of the knives with **Labyrinth Sealing**. This unique technology provides the highest level of durability in the market. Even the smallest dust particles and corrosive plant saps are prevented from coming into contact with the bearings. It also minimises the need for routine maintenance. Two lubrication nipples per set lubricate all six topping blades through a central grease channel within the housing. Because there are two lubrication nipples, one is always accessible for manual lubrication. An automatic lubrication system is available as an option.

The knife sets are driven by a maintenance-free **Gearbox Drive**. In contrast to conventional chain drives with a spring tensioner, two heavy-duty pinions ensure perfect synchronisation of the knives. As a result, the tops of the carrots remain undamaged and the blades last longer.

PREPARED AGAINST BLOCKAGES

Foreign objects such as wood will not obstruct the harvesting process, as the knife sets are spring-loaded and therefore always return to their original position. Moreover, the sets are fitted with a reversing device as standard, so any blockage can be cleared by simply reversing the direction of rotation.

LABYRINTH SEALING



MAXIMUM CAPACITY

After the cutter set, the product comes onto 4 sieving webs. Each sieving web has a different length to have an optimal distribution into the discharge elevator. Thanks to a width of no less than 1650mm, the discharge elevator has a capacity of 110 ton/h and provides maximal product friendliness. Thanks to the high flights and big drive sprockets, a smooth unloading in all harvesting conditions is guaranteed. The discharge elevator is provided with an automatic tensioner.

A wide waste conveyor of 3000 mm brings the haulm to the back of the machine. By bringing the haulm far away from the cutter set, the chance of blockages is avoided. The haulm is disposed just before the rear wheel onto the field



MASTER OF THE FIELD, ANYTIME, ANYWHERE

The ZKIV has the lowest ground pressure per cm² in the market. The masterful weight distribution, the 900 mm wide tracks (option) and the super-wide rear wheel (Mitas 1250/50 R32, option) ensure perfectly flat soil after harvesting, with minimal compaction. Thanks to a maximum rear wheel steering deflection of 60°, the harvester is surprisingly manoeuvrable, even on the smallest plots. The traction power can be adjusted per track/wheel, ensuring that harvesting can continue in even the most challenging circumstances and weather conditions, which makes the ZKIV highly reliable.



0,9 kg/cm²

Mitas 1250/50 R32

0,4 kg/cm²

2 x Claas tracks
900 x 2950 mm

0,4 kg/cm²

A diagram comparing the ground pressure of a tire and tracks. On the left, a Mitas 1250/50 R32 tire is shown with a ground pressure of 0,9 kg/cm². On the right, two Claas tracks (900 x 2950 mm) are shown, each with a ground pressure of 0,4 kg/cm². The tracks are shown in two different orientations to illustrate their width and how they distribute weight.

Optional track:
Claas Terra Trac (900 mm x 2950 mm)



Optional super-wide rear wheel (1250/50 R32)
with a tyre pressure of 0,9 bar.

A WORK ENVIRONMENT IN WHICH YOU FEEL AT HOME

With the spacious Claas cabin, Dewulf has created an enjoyable working environment focused on the driver. Comfort and ergonomics have been given a new meaning. Thanks to an excellent view on the harvesting unit, the harvesting experience with the ZKIV is sublime. The harvester can be operated easily by means of a joystick, a control unit for the harvesting section and a control unit for the driving section. All the controls are close together, thus ensuring convenient operation.

The ergonomic joystick fits comfortably in your hand without requiring too much hand movements. It has 20 buttons, providing direct control over every function you need. Furthermore, it is possible to link various harvesting parameters to five configurable preselection buttons. This allows you to completely reconfigure the machine at the touch of a button.

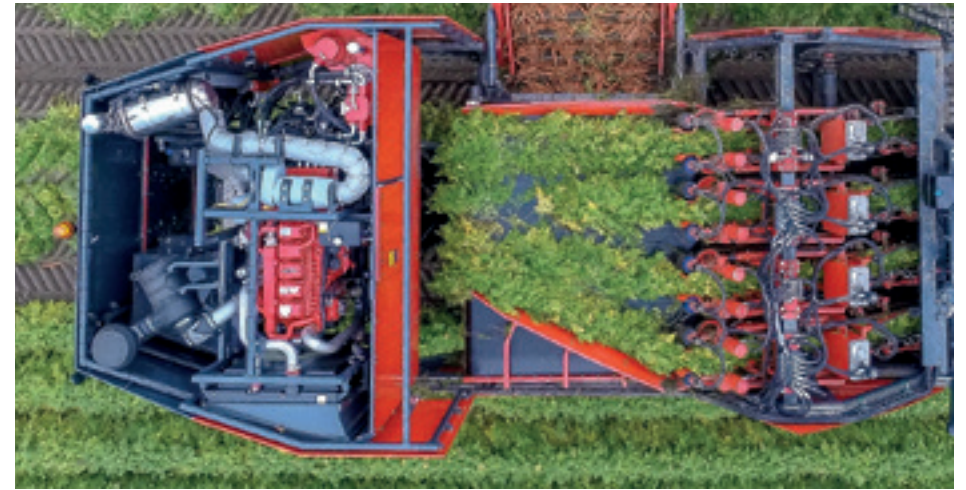


POWERFUL ENGINE, LOW FUEL CONSUMPTION

The Scania DC9 085A Stage V (Ad Blue) engine generates a powerful 400 hp and impresses with its smooth running and excellent fuel efficiency. More torque, lower fuel consumption and high operational reliability are keywords for this machine.

On the road, the engine speed is limited to 1350 rpm, and the normal operating range lies between 1000 rpm and 1500 rpm (depending on the conditions). In this way, high performance is achieved in the most economical way.

The transversely mounted engine provides excellent accessibility. The user-friendly ladder make daily inspections and refuelling quick and easy. As a result, a minimum of valuable time is wasted during the most crucial harvest period.



OPTIONS



TOPPING SHARE ARM PROTECTION

Dewulf has created an extra safety feature for the harvesting shares, in the form of an optional spring between the harvesting share and the chassis. This is particularly useful in very stony fields.



BOX FILLER

With the box filler at the end of the discharge elevator, you are able to fill 2 rows of boxes at the time so that the accompanying tractor and trailer doesn't need to take another track.



ROTARY BRUSHES

When haulm tends to stick easily to the harvesting belts, than 2 rotary brushes at the end of the harvesting unit are the solution.

TECHNICAL DATA

• standard o optional

HARVESTING ELEMENTS

Length harvesting belts [mm]	12 650, super grip
Inclination angle	23°
Hydraulically driven rotary torpedoes	•
Automatic belt tensioners	•
Share protection	o
Share arm protection	o
ADC (Automatic Depth Control)	•
DAS (Dewulf Automatic Steering)	•
Rotary brushes to clean each harvesting belt	o
Rotary rubber patches to clean each harvesting belt	o

CLEANING

Rotary cleaners	•
Rotary Cleaner Control	o

CUTTER SET

6-cutter set with flat knives	•
Gearbox Drive	•
Labyrinth Sealing	•

SIEVING CONVEYOR

Distribution into the discharge elevator	via 4 sieving webs
Press-out roller (in each sieving web)	o

DISCHARGE ELEVATOR

Unloading height min/max [mm]	2500/4000
Width [mm]	1650
Automatic tensioner	•
Discharge elevator web	pitch 40, covered with a canvas

ENGINE

Type	Scania DC9, stage V
Power	294 KW (400 hp)
Engine speed during harvesting [rpm]	1000 - 1500
Fuel tank 1000 l	•
AdBlue tank	60 l

DIMENSIONS

Total length [mm]	11 995
Total width [mm]	3482
Total height [mm]	3991
Weight from [kg]	24 955
Tracks	2 x Claas tracks (635 mm x 2950 mm): • 2 x Claas tracks (900 mm x 2950 mm): o
Rear wheel	Continental 1050/50 R32 (1055 x 1858 mm) : • Mitas 1250/50 R32 (1250 x 1858 mm): o