SE 150/170-60

2-row, offset trailed potato harvester with large bunker
Welcome to the upper class: strong, stronger SE 150/170-60!

Absolutely innovative, robust and reliable – the SE 150/170-60 from Grimme. The 2-row, off-set trailed potato harvester for high output per hectare per day. The modular design tailors the machine to suit individual requirements. Simple operation of settings and for maintenance, designed for easy harvest in difficult conditions.

Good view to the right-hand side intake and with the well dimensioned picking table enable a simple operation. 2 main webs, one followed by the other, ensure highest separation and gentle crop handling: because the use of two webs avoids rolling of the crop and optimizes the separation on the 1st web. Following the 2nd main web sieves off the rest of the soil, the deviner web separates the haulm and the crop flows gently onto the following separator – all in one working step! Low angled main webs, minimized drop heights and a soft bunker floor ensure gentle crop handling in the machine. A powerful program for the harvest: the SE 150/170-60!
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Three-times as good: the vegetable intakes either for onions, red beet or carrots (8–10)

Windrow intake for light soil with centre share and rubber roller or for heavy soils with rotor shaft

Vegetable intake: through typed share with support rollers, Special solutions are possible.

Carrot intake: large, distance adjustable support wheels, manual depth adjustment and a 1- or 2-row carrot share. Various row width and distances possible.

INTAKE

Powerful: gentle harvesting starts at the intake

The off-set intake on the right-hand side of the machine for simplified handling of the machine. The pulled intake unit with big, spring loaded disc coulters and 2 haulm intake rollers ensures a smooth harvesting. Choice of intake width between 540, 580, 600 or 620 mm. The digging depth is controlled by the diablo rollers and can manually be adjusted.

An automatic ridge pressure control or hydraulic ridge relief with pre-set pressure from the operator terminal is available as option. The pressure regulation avoids unnecessary blockings as clods in heavy and wet soils as well as crop damage with many stones. At the same time keeps it the ridge shape at light soils (1).

Good with much haulm: the 2nd disc coulter (option) (2)

Controlled centre: benefit from the automatic centre steering (option) (3). Two sensors at the diablo roller frame steer the hydraulic drawbar.

For reduced pressure: the hydraulic ridge pressure relief (option) (4)

Well taken in: the 2-piece share for heavy soils and the 3-piece share for medium to light soil.

Another option, the stone protection for the share blades (5)

Simple solution: manually adjusted share blades by means of a spindle (6) or hydraulic adjustment from the drivers cab (option) (7)

Three-times as good: the vegetable intakes either for onions, red beet or carrots (8–10)
Because individual solutions are ideal solutions: your Grimme options

The harvest conditions change harvest by harvest: changing weather conditions, various soils, variety of potatoes and many, many other situations. – And how to achieve an optimum solution? With the Grimme options for the SE 150/170-60. A range of various settings and options enable it to adopt to the requirement.
Take the important and leave the unwanted – the sieving support

1st and 2nd main web (rubber roller drive)
Ideal combination with a 1st short and a 2nd long main web: optimum intake of soil into the machine, smooth and even running of the main webs driven by the durable special rubber coated drive rollers. The drive under the bars is standard.

Intake web (option)
The infinitely hydraulically driven intake web gives an additional drop in the web channel – to increase the output on heavy grounds or for starch potatoes.

High cam belts
Full crop protection with high cams: the well gentle and damage free crop transport. The crop is carried like on hands and does not touch the metal.

Hydraulically driven swinging agitator (option)
For more separation on the 1st main web. The intensity is adjustable from the operator terminal.

Triangular rollers in the main web (option)
Increased sieving with the triangular rollers (option). The stainless steel in the swing frame is for those who want less soil sticking to the side and at the same time increased gentle crop handling with less friction.
Original Grimme know-how: the multi-function web. Increased sieving, separation and transport

**Patent**

**Multi-function web**

Sieving, separation, transport: three functions in one working step with the multi-function web. The crop flows over a minimum drop from the 1st onto the 2nd main web. Following it is lifted up in pockets.

**Sieving**

The 2nd main web effectively and gently separates the soil and transfers the crop to the separator.

**Separation**

The close deviner web runs over the 2nd main web, separates the haulm from the crop flow and discharge it onto the field. Up to 3 scraper rollers can increase the separation. The slip control is standard. Spring loaded scraper combs ensure the durability, 1 additional scraper comb is available (option).

**Transport**

Gentle crop handling pockets arise in combination with the 2nd main web and deviner web. Those transport the crop in “portions” onto the 1st separator. That keeps the crop flow calm and avoids crop damage through transfer.

**Optimum gentle crop handling:** deviner web with soft polyurethane flights (distance 200 or 280 mm)

**Effective trash separation and gentle crop transfer at once**

**1st and 2nd double scraper roller**

The effective separation of left haulm and smaller trash is carried out through the 1st and 2nd double scraper roller and the hedgehog webs, which are available in various pitches. The double scraper distance to the picking web is adjustable for an optimum adoption to the harvest conditions. The 1st double scraper roller is also hydraulically adjustable (option). For a quick adoption to changing soil conditions are the double scraper roller and hedgehog webs infinitely speed adjustable. Another feature: long durability with mutual roller cleaning without need of additional scraper.

**1st double scraper roller**

Double scraper roller (A), spiral rollers (option) (B) for increased separation

**2nd double scraper roller**
**Good separated is well picked!**

**Type UB – for soils with clods but little stone content**
The hedgehog web is either available with plates for light to medium soil as well as bars for heavy soil. Infinitely adjustable speed of the finger web and hedgehog web. The finger webs are independently hydraulically and speed adjustable.

**Type SB – for stony soils**
Optimum adoption to the different soils with the hydraulically driven hedgehog and brush web. The innovation: a 2-step stone separator. The first step works as roll-brake system. The crop flows with a set speed on the first soft hedgehog web. Because of the different weight and rolling reaction of stones and crop rolls the crop further to the end. The stones slow down and stay mainly at the beginning of the web. Solution: an immense increased separation.

**Type NB – for soils with little trash**
The extended, hydraulically driven picking web with infinitely speed adjustment set from the operator terminal at the picking table or from the driver cab. A manual levelling adjustment enables an adjustment to the crop and soil conditions. Triangular rollers under the picking web increase the sieving and spread the crop, the intensity is adjustable by the means of a hand lever. Additional is a rotor agitator available (option).

**Type NB with 3rd hedgehog web and 3rd scraper roller for higher output on soils with fewer clods**
An additional hedgehog web with scraper roller is added to the NB separator. That increase immense the output. The levelling of the whole separator is adjustable to improve the crop spread over the picking web.

**Slip control for type UB, SB and NB (option)**
The slip control with load display on the operator terminal enables an optimum use of the harvester. If necessary runs the 1st hedgehog web automatically on full speed – for self-cleaning. Also is an acoustic signal send to the drivers cab – the driver can react directly.
Ensure good harvest output and good quality crop!

5 grader rollers separate steadily small potatoes in conjunction with the UB or SB separator (1).

5 grading rollers with infinitely distance adjustment from 0–40 mm in conjunction with the NB separator (2)

Drive direction with the crop flow for gentle transfer

Picking table with almost even picking area: Up to 6 pickers can work in a good ergonomically working position at the picking table (3).

Under control: The picker can control with the GBT 817 all important picking functions. The separator and picking web are with hydraulically infinitely speed adjustment. That ensures an optimum adoption between the crop and trash. The picker can stop the picking web with an emergency stop and send the driver an acoustic signal (4).

Well dumped: The cross conveyor under the picking web transports the trash so it does not run a 2nd time through the machine (5).

Stone box with cross conveyor: filling with trash chutes from the picking area and hydraulic operated unloading from the driver cab (option) (6)

Minimum drop heights to fill the moving floor bunker (7/8) with hydraulically raised section of the final conveyor. Automatic height adjustment of the final conveyor is available (option): The final conveyor raises automatically while bunker filling to keep an even low drop height.
MOVING FLOOR BUNKER

High capacity including high know-how

6 tonne moving floor bunker (standard): possibly increase of the bunker capacity from 6 tonne to 6.3 tonne with the automatic bunker filling (option).

Option: 7.5 tonne large bunker with bunker head lowering – increases the output. Important: only in combination with the wider axle and ball-hitch drawbar. The machine width changes to 3.3 meter with the wider track width (please make sure the machine follows the country specific regulations).

Option: 7 tonne overloading bunker for practical unloading while still harvesting. Simple and fast filling of trailers with up to 3.20 meter height. The machine width changes to 3.3 meter with the wider track width (please make sure the machine follows the country specific regulations).
For all, with high goals: the large dimensioned bunker simply by pushing a button lifts hydraulically to a maximum unloading height of 4.20 meter. The special construction ensures an almost continuous same unloading width with changing unloading heights. The wavy bunker floor shape enables fast emptying. Two different speed settings enable a fast final emptying.

Minimum drop: moving floor bunker with head end lowering with optimized drop height while filling the trailer (option) (1)

Unloading while digging: with the overloading bunker (2) for simple and fast filling of trailers with up to 3.20 meter height (option)

Soft drop: potato end filling chute with rubber baffles for gentle filling of trailers (option) (3)

Hydraulic ram to raise bunker end to clear of crop or optimum final filling of high trailers (option) (4)

Handy: the BIG BAG-filling device in combination with the potato chute and rubber baffle (option) (5)

Higher capacity: with the automatic bunker filling is a manual operation not necessary anymore, optimum reach of the bunker capacity (option) (6).

Shiny sides for gentler crop handling: The moving floor bunker with stainless steel sides prevents soil sticking to the sides in wet conditions (option) (7).

Optimum crop handling with soft bunker floor, wavy bunker floor shape enables fast emptying (8).

Thorougly thought through: The motors of the moving floor bunker fitted to the inside not only work away reliably but also well protected against collision (9).
ATTACHMENT AND DRIVE

Good combination: strong drives and robust drawbar

Smooth running: The maintenance free drive of the 2nd main web and wide haulm web ensures a smooth running of the machine. The good view on the separator simplifies the work at the picking table (1).

The hydraulic side adjustment of the drawbar and the centre running pto-shaft enable a smooth running of the drive unit and ensure therefore a long lifetime (2).
Always good grip – with the optimum tyres (3)

3-step gearbox: adoption of the machine to sensible crop – reduced start shock (4)
Heavy duty: for strong conditions the hydrostatic wheel drive (5)
Hydraulically axle steering (option): high agility – short turnings. Always well in balance: with the hydraulically levelling control (standard) or automatic levelling control (option) (6)

Well coupled: the ball hitch drawbar (option). Standard is the coupling under the pto-shaft connection. All drawbars are height adjustable to adapt to the different tractor sizes.

ATTACHMENT AND DRIVE

Your personal control centre

Visual Protect

Quicker reaction: the CAN-bus controlled monitoring system VISUAL-PROTECT detects critical situations in the machine through sensors. The monitor switches automatically to that camera where a problem arises. The driver sees directly the problem and can take action if necessary. VISUAL-PROTECT is available as option for all CAN-bus operated machines from Grimme (planting, harvesting, storing and sugar-beet technology).
Harvesting success – at the push of a button: the Grimme digital technology

For a maximum operator comfort: the digital controlled operator terminal Grimme SKE-S. Not only a comfort plus also maximum reliability. Also it is possible to control all machine functions from the drivers cab. The GBT 2100 (option) give a well overview of important parameter as total output per hectare, working hours, daily output etc. With the integrated diagnostic system you indulge the high service friendliness. One of the additional functions is for example the setting of the “field start” and “field end” function – For maximum output with the SE 150/170-60!

In view: the monitoring system with monitor and cameras – possibility to extend to a maximum of 8 cameras. With free settable order of the camera display on the monitor (option)

Under control: the operator terminal SKE-S controls all important machine functions from the drivers cab. The operator terminal GBT 817 is controlled from the pickers at the picking table for all important settings at the picking area.

The combination of the digital technology and the operator terminal GBT 2100 (option) enables the control of further settings from the drivers cab: e.g. infinitely distance adjustment of all 6 back holding combs (3 top, 3 bottom) at the wide deviner web, infinitely depth control of the digging shares, infinitely setting of the levelling or distance at the 1st and 2nd double scraper rollers or setting of the function “field start” and “field end”. The ergonomically positioning of the operator terminal and intake unit enables a good view on both at the same time.
Gains more for you: the self-propelled potato harvester SF 150/170-60
### Technical data

<table>
<thead>
<tr>
<th>Measurement</th>
<th>SE 150/170-60</th>
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<tbody>
<tr>
<td>Length</td>
<td>11,200 mm (with drawbar)</td>
</tr>
<tr>
<td>Width</td>
<td>3,000 mm (6 tonne-bunker) or 3,300 mm (7 tonne- and 7.5 tonne-bunker)</td>
</tr>
<tr>
<td>Height</td>
<td>3,700 mm (with standard wheels)</td>
</tr>
<tr>
<td>Weight (unladen)</td>
<td>Total weight 9,350 kg, axle weight 7,650 kg, drawbar weight 1,700 kg (with basic equipment)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Basic equipment</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axle</td>
<td>Hydraulic axle steering</td>
</tr>
<tr>
<td>Tyres</td>
<td>600/55-26.5</td>
</tr>
<tr>
<td>Braking system</td>
<td>Air brake</td>
</tr>
<tr>
<td>Power transmission</td>
<td>Main drive: low-maintenance gearbox with pto-shaft, PTO speed 540 rpm or 1,000 rpm</td>
</tr>
<tr>
<td>Drawbar</td>
<td>Drawbar eye, hitch</td>
</tr>
<tr>
<td>Intake</td>
<td>Pulled crop intake unit, 4 pulled disc coulter, spring loaded, choice of 540 mm, 580 mm, 600 mm or 620 mm intake width, 2- or 3-piece shares, 2 pulled diablo roller, 2 haulm intake rollers, diameter 400 mm</td>
</tr>
<tr>
<td>1st Main web</td>
<td>1st main web channel width 1,500 mm: 1,450 mm wide, 2,750 mm long or 1st main web channel width 1,700 mm: 1,650 mm wide, 2,750 mm long, each with choice of 28, 32, 35, 40, 45 and 50 mm web pitch</td>
</tr>
<tr>
<td>2nd Main web</td>
<td>2nd main web channel width 1,700 mm: 1,850 mm wide, 3,000 mm long, choice of 28, 32, 35, 40 and 44 mm web pitch</td>
</tr>
<tr>
<td>Haulm separation</td>
<td>Scraper unit with rubber back-holding combs, deviner web 1,750 mm wide and 5,400 mm long</td>
</tr>
<tr>
<td>1st Separator</td>
<td>Cross running hedgehog web with double scraper roller, levelling adjustment, 1,300 mm wide, 2,340 mm long</td>
</tr>
<tr>
<td>2nd Separator</td>
<td>Type UB, NB: lengthwise running hedgehog web with double scraper roller, 730 mm wide, 2,380 mm long Type SB: transfer web, closed version with double scraper roller, 730 mm wide, 2,380 mm long</td>
</tr>
<tr>
<td>3rd Separator</td>
<td>Type UB: cross running hedgehog web, manual levelling, 1,300 mm wide, 1,450 mm long, two double finger webs with trash chute Type SB: 2 cross running hedgehog web, 650 mm wide and 2,350 mm or 1,450 mm long, with trash chute</td>
</tr>
<tr>
<td>Picking table</td>
<td>With warning device, UB/SB: 1,100 mm wide, NB without hedgehog web 900 mm wide, NB with hedgehog web 1,100 mm wide, NB with grading and without hedgehog web 1,000 mm wide, trash chute (UB, SB): 340 mm wide, platform for at least 2 x 2 pickers (UB, SB), hydraulically driven picking web</td>
</tr>
<tr>
<td>Moving floor bunker</td>
<td>Maximum discharge height: 4,200 mm, capacity: 6,000 kg, driven with 2-step motor, infinitely adjustable</td>
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<tr>
<td>Hydraulic system</td>
<td>Electro magnetic controls</td>
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<tr>
<td>Machine operation</td>
<td>Digital control</td>
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Your Grimme Partner for advice and service:

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