

GRIMME
HARVESTING SUCCESS!

SE 75/85-55

1-row, offset trailed potato harvester
with large bunker



Powerful and gentle as never before: the new SE 75/85-55

“There is nothing that cannot be improved!” – From this statement the new SE 75/85-55 was developed. Nowadays this range of machine is the most widely sold offset trailed potato harvester of its kind. More than 8,000 machines have been supplied and are working away reliably – high quality machines made by

Grimme. Based on the successful SE-technology, Grimme now presents the most powerful single row harvester in its class, the SE 75/85-55. The machine has approved with various further development for the practical use. Among other things, the machine is now equipped with a larger bunker with a capacity of 5,8 tonnes as well

as the latest Grimme digital technology. This machine matches the requirements of the potato grower who is looking for a machine which fits between the existing 1-row and 2-row machines. To learn how you can “harvest success”, please read the following pages.

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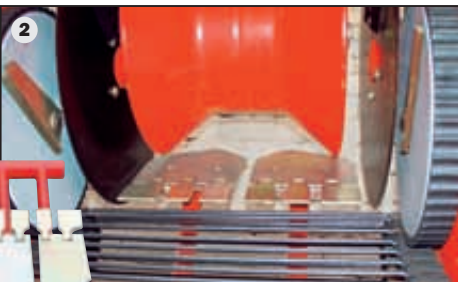


INTAKE

Powerful: gentle harvesting starts at the intake



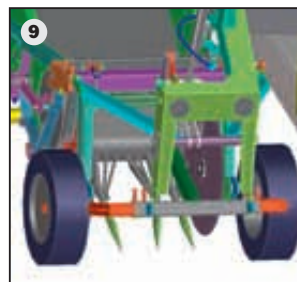
From the experienced for the experienced: the off-set intake on the right-hand side of the machine for simplified handling of the machine. The pulled intake unit with big, spring loaded disc coulters and haulm intake rollers ensures a smooth harvesting. Choice of intake width (disc coulters distance) between 540, 580, 620 or 660 mm. The digging depth is controlled by the diablo roller 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).



Well taken in: adjustable digging shares to adapt to an ideal digging depth. And use the 2-piece share for heavy soils and the 3-piece share for medium to light soil (2). Another option, the stone protection for the share blades
Good with much haulm: the 2nd disc coulters (option) (3)



Controlled centre: benefit from the automatic centre steering (option) (4). Two sensors at the diablo roller frame steer the hydraulic drawbar.
Simple solution: manually adjusted share blades by means of a spindle (5)...
... or hydraulic adjustment from the drivers cab (option) (6)



Three-times as good: the vegetable intakes either for onions, red beet or carrots (7-9)

Windrow intake with centre share: with support wheels, hydraulically depth adjustment and adjustable brush web speed, suitable especially for light soils

Windrow intake with rotor shaft: for minimum soil intake. With support wheels, hydraulic depth adjustment and adjustable brush web speed

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

Because individual solutions are ideal solutions: your Grimme option

The harvest conditions change harvest by harvest: changing weather conditions, various soils, variety of potatoes and many, many

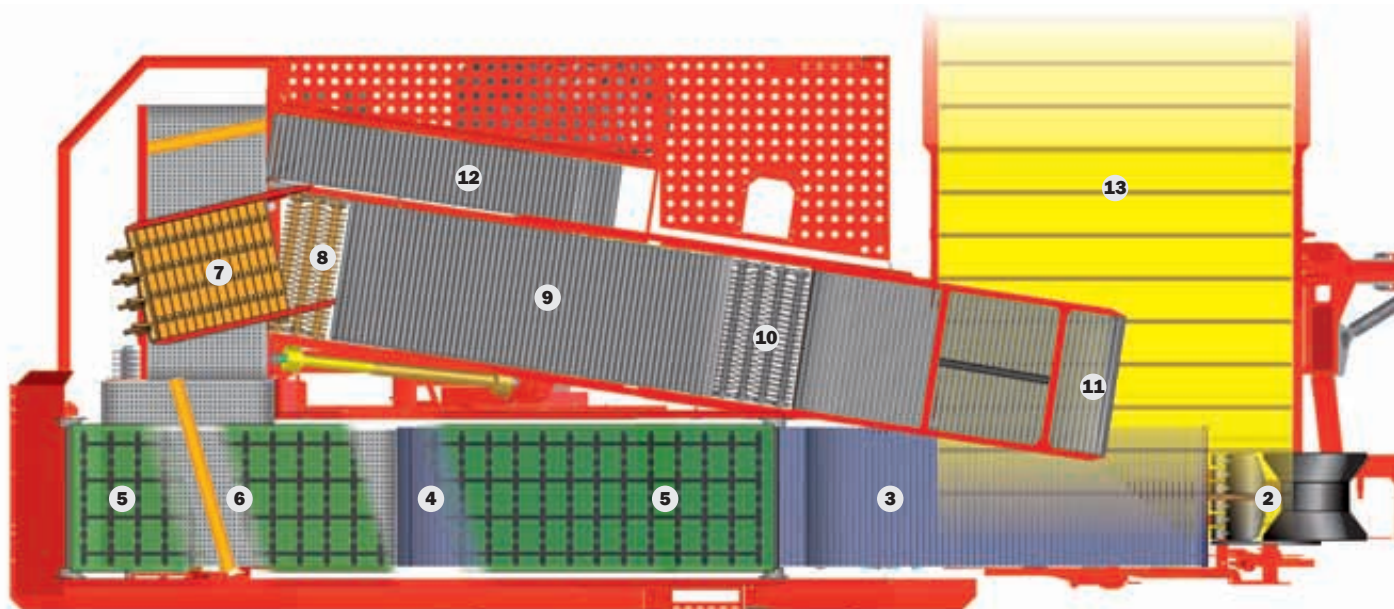
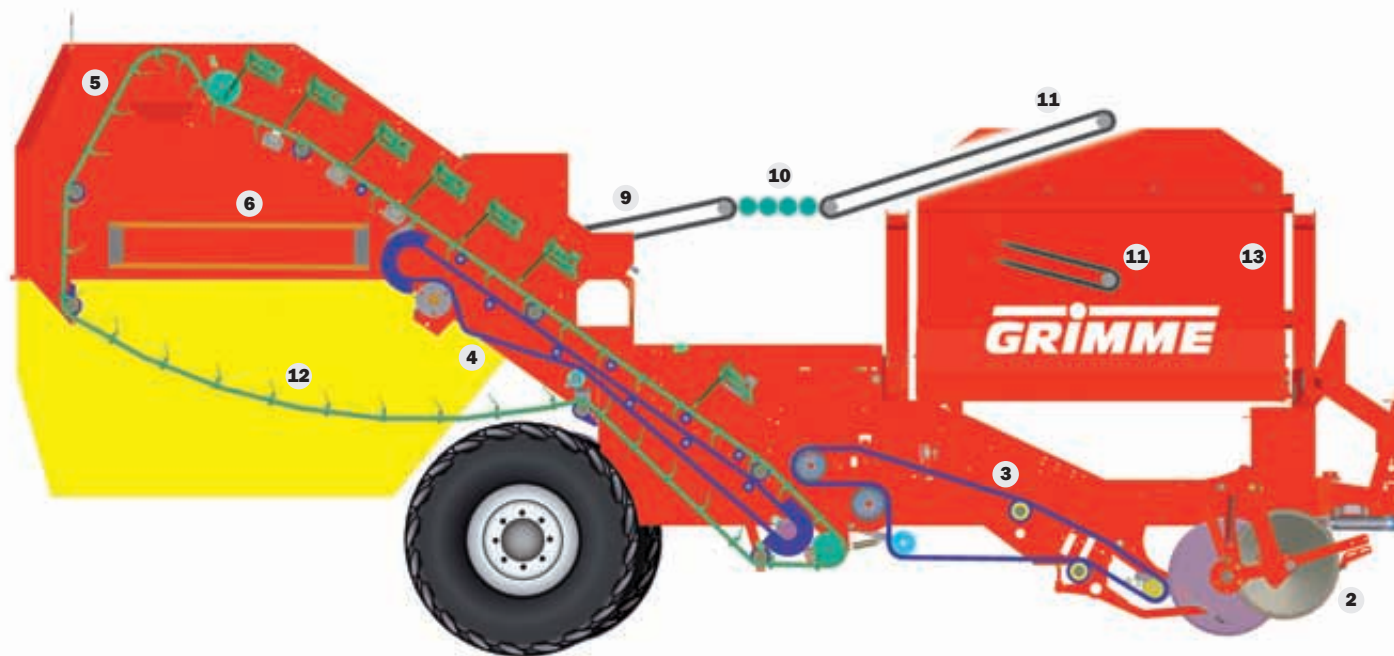
other situations. – And how to achieve an optimum solution? With the Grimme options for the SE 75/85-55. A range of various

settings and options enable it to adapt the harvester to the requirement.

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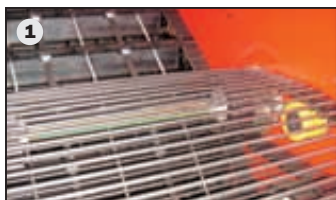
Well thought-out from front to back

High output, robustness as well as gentle crop handling is always very important. – And that through the whole machine, because every drop is or better said was a critical point. To allow even more gentle transportation of the crop the drop heights from the 1st to the 2nd and on to the 1st hedgehog web have been reduced. The larger separator gives a higher output from the new single row harvester and ensures a clean crop.

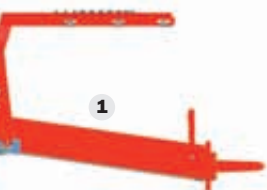


ons!

o adopt the



Minimum drop heights for maximum gentleness: Due to the reduced drop from the 1st on the 2nd web the feed is almost horizontal (1). Also the reduced drop from the 2nd web on to the 1st hedgehog web is gentler on your crop (2). – As well as the rotating web bars which also clean the sides of the web channels.



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- 1 Drawbar
- 2 Intake
- 3 1st short main web
- 4 2nd main web
- 5 Deviner web
- 6 1st separator
- 7 2nd separator



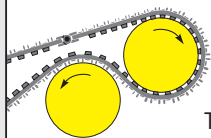
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- 8 Pre-cleaning roller (option)
- 9 Picking table web
- 10 4-grading roller (option)
- 11 Flexible bunker filling elevator
- 12 Trash web
- 13 Moving floor bunker

SIEVING SUPPORT

Take the important and leave the unwanted – the sieving support

1st and 2nd main web (rubber roller drive)



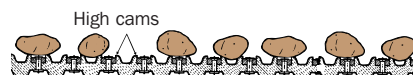
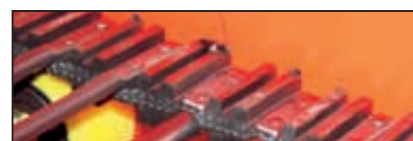
Smooth and even running of the main webs driven by the durable special rubber coated drive rollers. The drive under the bars is standard.

Staggered webs (option) improve the soil transfer on light soils and avoid a back rolling on hillside located fields – than driven under the belts.



Patent 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.



Manual rotor agitator (option)

For increased sieving on the 1st main web: manual adjustable rotor agitator to adopt to the different harvest conditions. Very handy: the electrical setting from the operator terminal (option).



Hydraulically driven swinging agitator (option)

For more separation on the 1st main web. The intensity is adjustable from the operator terminal.



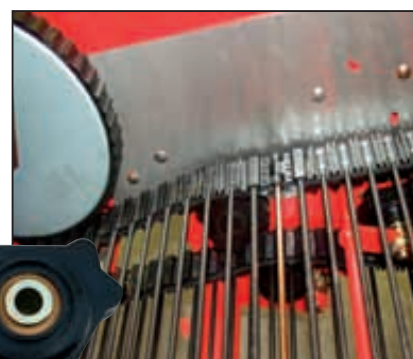
Oscillator device (option)

Loose soil with the oscillator device: Hydraulically driven shaker arms loose the soil.



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 sides and at the same time increased gentle crop handling with less friction. Height adjustable support rollers enable an adjustment of the main web degree, for additional increased sieving.



Original Grimme know-how: the multi-function web. Increased sieving, separation and transport

Patent Patented 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, which keeps the crop calm and avoids crop damage through transfer.



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



Infinitely adjustable with digital technology: the 6 back holding combs (3 on top and 3 at the bottom) on the haulm web (option)

Sieving



Separation



Transport



Effective trash separation and gentle crop transfer at once

Double scraper roller

The effective separation of left haulm and smaller trash is carried out through the double scraper roller and the hedgehog webs, which are available in various pitches. The double scraper distance to the picking web is adjustable via Bowden cable from the picking area for an optimum adoption to the harvest conditions. A hydraulically adjustable height adjustment of the double scraper roller is also available (option). For a quick adoption to changing soil conditions are the double scraper roller and hedgehog webs infinitely speed adjustable. Ideal for hillside located fields is the infinitely levelling adjustment (option) to optimize the separation of trash and crop.



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 with bars for heavy soil. The hydraulic drive (option) and electrical levelling adjustment (option) simplify the adoption to the crop and ground conditions.



Infinitely hydraulically speed adjustment of the finger web speed



UB 900, double finger web (option): increased separation on cloddy soils

Type SB – for stony soils

Manual driven hedgehog web as standard. Optimum adoption to the different soils with the hydraulically driven hedgehog web (option). Stones and misdirected crop flow directly on an extended trash web.



Type SB: for stony soils



SB 900, double brush (option): increased separation on stony soils

Type NB – for soils with little trash

Hydraulically driven hedgehog web and scraper roller. Infinitely speed adjustment of the hedgehog web, picking web and scraper roller set from the operator terminal at the picking table. A manual levelling adjustment enables an adjustment to the crop and soil conditions.



Type NB: hedgehog web and scraper roller driven from the tractor hydraulics



Type NB: for soils with little clods and trash

Pre-cleaning rollers (option)

The 3- or 5-grader rollers separate steadily small clods, stones, left over haulm and small potatoes. With infinitely adjustable roller distance adjustment. Sloping grading-rollers in flow direction simplify the complete emptying.



Worthwhile option: 3-grader roller



Even more effective: 5-grader roller

Stone box under grader rollers (option)

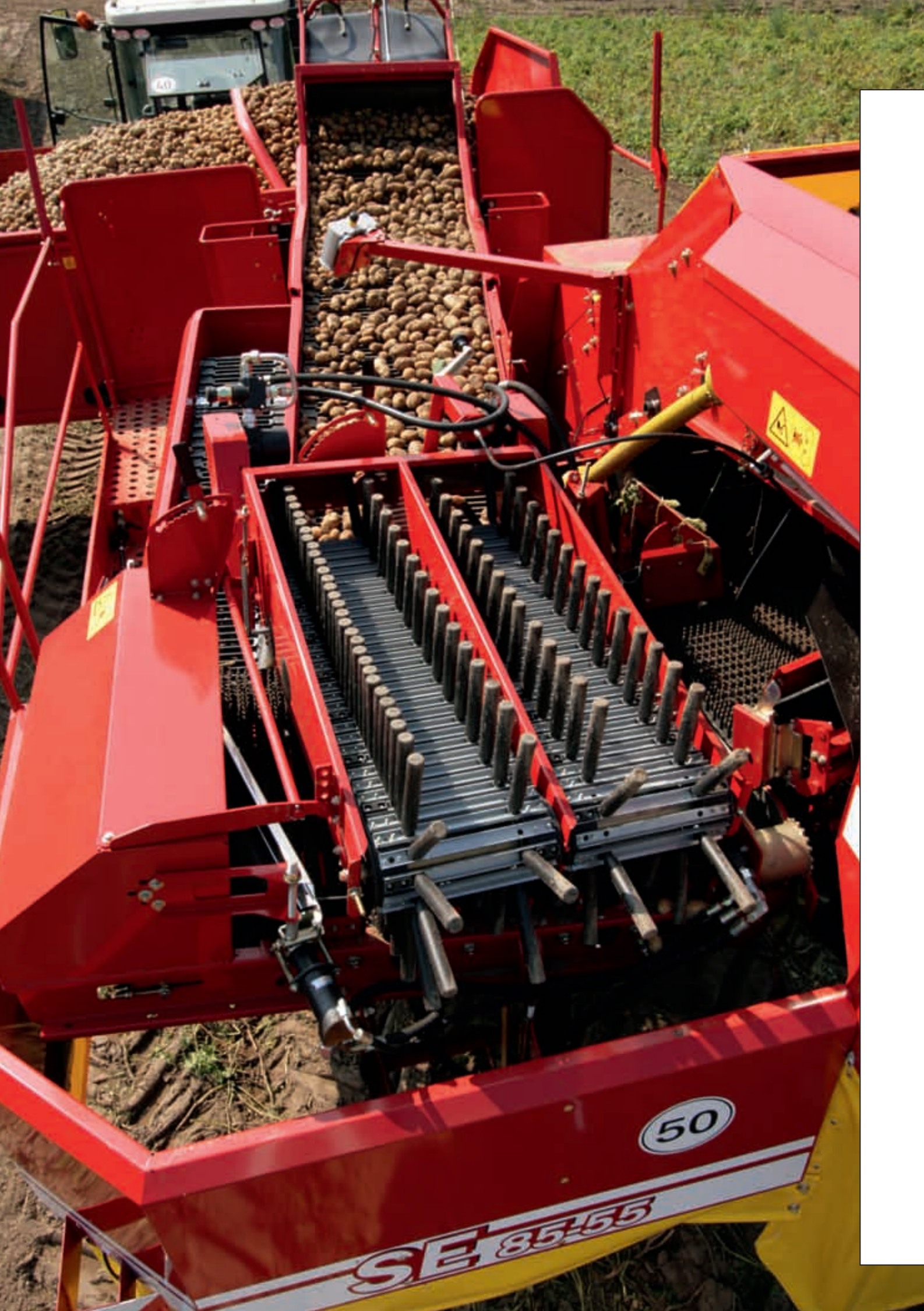
Stone box with approximately 200 kg capacity with manual emptying. With hydraulically emptying (option) via operator terminal. Another option is a cross conveyor.



Stone box under the pre-grader unit (option)



Practical: the cross conveyor (option)



Ensure good harvest output and good quality crop!



4 grader rollers separate steadily small potatoes (1). With infinitely distance adjustment from 0 – 40 mm. Drive direction with the crop flow for gentle transfer

Another option: the small hopper to discharge the trash at the field end (2)



Picking table with almost even picking area: up to 6 pickers can work at the picking web (3) with the practical trash web (5). The hydraulic drive with the infinitely speed adjustment enables an optimum adoption between crop and trash. The picker can and send the driver an acoustic warning signal. Two trash chutes available as option

Stone box with cross conveyor (option) and a capacity of about 1,000 kg. Filling with trash chutes from the picking area and hydraulic operated unloading from the driver cab or picking table (option) (4)



More stones: the stone box (6) with a capacity of 700 kg. Filling with trash chutes from the picking area. Unloading manually via a foot pedal or hydraulically operated unloading from the driver cab or picking table (option)



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



Fast and gentle unloading: the moving floor bunker (1) with a maximum unloading height of 4.20 meter. The hydraulic lifting as well as the hitching ensures an almost continuous same unloading width with changing unloading heights.

Minimum drop: moving floor bunker with head end lowering with optimized drop height while filling the trailer (option) (2)



For all, with high goals: the large dimensioned bunker (3) has about 5,500 kg capacity and simply by pushing a button lifts hydraulically to a maximum unloading height of 4.20 meter.

Thoroughly thought through: the motors of the moving floor bunker fitted to the inside not only work away reliably but also well protected against collision (4).

Higher capacity: with the automatic bunker filling a manual operation is not necessary anymore, optimum reach of the bunker capacity of plus 300 kg (option).





Soft drop: potato end filling chute with rubber baffles for gentle filling of trailers (option) (5)

If needed: Bunker end box filling chute manually folds in or out (option) (6).



Hydraulic ram to raise bunker end to clear of crop or optimum final filling of high trailers (option) (7)

Ideal for bagging: the bagging hopper (option) (8)



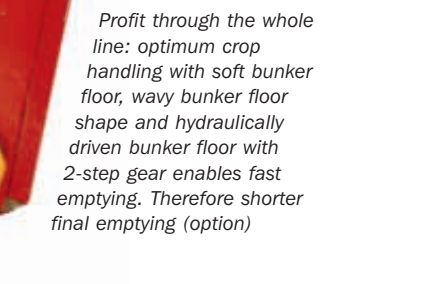
For big filling: the BIG BAG filling device (option) (9)

Shiny sides for gentler crop handling: The moving floor bunker with stainless steel sides prevents soil sticking to the sides in wet conditions (option) (10).



Four grader roller separate small potatoes and transfer them into the small hopper (option) (11).

The capacity of the smaller hopper for pre-graded crop is 1,300 kg. The filling web runs under the picking web (option) (12).



Two bunkers (option) (13) only in combination with the pre-grader (11) (option)

Profit through the whole line: optimum crop handling with soft bunker floor, wavy bunker floor shape and hydraulically driven bunker floor with 2-step gear enables fast emptying. Therefore shorter final emptying (option)




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).



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 (4).

-  Drawbar eye \varnothing 40 mm
-  Hitch or Piton-Fix \varnothing 50 mm
-  Ball bearing coupling (option)

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).



Well moveable but stable: the wide angle pto-shaft (option) and hydraulic support (3)

3-step gearbox: adoption of the machine to sensible crop – reduced start shock (5)



Hydraulically axle steering (option) (6): high agility – short movements



Well balanced: with the standard hydraulic side levelling (7)

CAN-BUS-CONTROLLED MONITORING SYSTEM

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).



Slip control – 2nd main web

Slip control – 1st hedgehog web



Harvesting success – at the push of a button: the Grimme digital technology

Profit from a maximum operator comfort. Unique in this class is the standard operator terminal GBT 2100, not only a comfort plus also maximum reliability. The digital revolution makes it possible: control of all important machine settings

from the driver's cab, visual overview of important parameters, such as total output per hectare, working hours, daily output etc. – For maximum output with the SE 75/85-55!



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"



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



The classic: Still available for those who require the proven system of the analogical operator terminal.



Better than a long story: a long track record

Innovation, a tradition at Grimme – ever since 1861 when Franz Carl Heinrich Grimme founded the company four

Harvesting success! From the beginning Grimme offers you the individual and complete solutions – from bed cultivation and planting technology to harvest and storage technology.



The Grimme team: with more than 1,300 qualified and highly motivated employees in the Grimme group



The location: Grimme belongs to Damme in Lower Saxony / Germany as the red belongs to our machines.



generations ago. But not only that: The way in which innovations are developed has also become a tradition. This has come from the continuous exchange of ideas between: our practical specialist on one side and Grimme engineering specialists on the other side. Only in that way we can develop new products “from the practice for the practice”. No wonder that in 1958 Grimme became one of the first producer of the powerful 1-row bunker harvester “Universal”. Over the years Grimme developed a range of several innovative machines. More than just a few machines are today recognized as milestones in agricultural machinery production. The success tells its own tale. Until today customers around the world appreciate the reliable and powerful models of the SE 75 series. But not only that: Right up to today Grimme has consistently improved its harvester technology year by year – the “SE 75/85-55” represents the latest technical development. However, of equal importance to looking back over 140 years of innovative development within the agricultural sector is looking forward to a promising future.



Over 70 countries. 5 continents. 1 goal: all over satisfied customers

No matter whether it is far away in Argentina or Australia or in our domestic market Germany: All around the world users can appreciate Grimme technology. This is all the more remarkable considering the different climates which set varying demands on the machines.

How does Grimme meet the demands of its customers in more than 70 countries? The secret has been perfected by Grimme over the decades. Two special factors enable it to develop the right products for every market. Firstly the continuous exchange of ideas between our practical specialists and our engineering specialists and secondly the constant exchange of experiences between all Grimme employees with staff from our sales and service subsidiaries around the world. This ensures that our product is tested and looked at from all perspectives. That results in Grimme products that will work every day throughout the season: From bed cultivation and planting technology to harvest and storage technology Grimme offers effective and complete solutions. In the meantime the company has also developed into a specialist for sugar beet harvest technology.



Another contributor to the company's international success has been the Grimme service concept. Our independent sales partners, as well as Grimme owned service subsidiaries, provide 24 hours a day, 7 days a week certified service in over 70 countries, with original Grimme spare parts and reliable advice. In this way we work with you to achieve – season by season – our common goal: harvesting success!

Innovative technology from Grimme – working in more than 70 countries around the world



Technical data

	SE 75/85-55
Measurement	Transport
Length	8,920 mm
Width	3,000 mm
Height	3,500 mm
Weight (unladen)	5,100 kg (with basic equipment)
Braking system	Air brakes
Drawbar	Drawbar eye, drawbar under pto-shaft
Power transmission	Pto-shaft, v-belt drive, pto-speed max. 540 rpm
Axle	Hydraulically levelling
Tyres	500/60-22.5
Intake	Pulled crop intake unit, 2 pulled disc coulters, spring loaded, choice of 540 mm, 580 mm, 620 mm or 660 mm intake width, 2- or 3-piece shares, Pulled diablo roller 410 mm wide for 540 mm intake, 450 mm wide for 580 mm or 620 mm intake or 490 mm wide for 660 mm intake, 2 haulm intake rollers, diameter 400 mm
1st main web	750 mm or 850 mm wide, 2,250 mm long
2nd main web	750 mm wide, 2,680 mm long
Haulm separation	Deviner web with scraper unit incl. 6 rubber back-holding combs, deviner web 850 mm wide and 4,700 mm long
1st separator	Lengthwise running hedgehog web with double scraper roller, mechanical driven and with manual levelling adjustment Height adjustment of the double scraper roller via Bowden cable: 1,000 mm wide, 1,700 mm long
2nd separator	Hedgehog web, manual driven and manual levelling, 650 mm wide, 1,450 mm long Typ UB: hydraulically driven finger web (3 rows) with scraper roller Typ SB: hydraulically driven brush web with extended trash web Typ NB: hydraulically driven hedgehog web with scraper roller
Picking table	Type UB/SB 765 mm wide (option 850 mm wide) Type NB 850 mm wide Trash web 360 mm wide (with 850 mm wide picking web = 280 mm wide) Picking web drive: infinitely hydraulically adjustable Trash web drive: separate infinitely hydraulically adjustable Platform at both sides for 4 and 2 pickers (totally 6 pickers) With warning device for the tractor
Moving floor bunker	Maximum discharge height: 4,200 mm Capacity: 5,800 kg Drive: hydraulically infinitely adjustable
Hydraulic system	Electro magnetic controls
Machine operation	Digital control (standard) analogue system if required

The SE-family



SE 75-20: for small to medium sized fields, special compact (low) construction, moving floor bunker for 2,000 or 2,300 kg



SE 75-30: for medium to large fields, compact good visible construction, moving floor bunker for 3,000 or 3,300 kg



SE 75-40: for large fields, good visible construction, moving floor bunker for 4,000 or 4,300 kg

Your Grimme Partner for advice and service:

Grimme Landmaschinenfabrik GmbH & Co. KG · Hunteburger Straße 32 · D-49401 Damme
Phone +49 5491 666-0 · Fax +49 5491 666-298
grimme@grimme.de · www.grimme.com

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