

POTATO TECHNOLOGY
BEET TECHNOLOGY
VEGETABLE TECHNOLOGY

GRIMME
HARVESTING SUCCESS!

SE 75-20

Single row, offset trailed potato harvester with 2-ton bunker



Compact. Manoeuvrable. Efficient: the SE 75-20

The SE-series is by far the top-selling, offset trailed potato harvester. More than 14000 machines work around the world and stand for high performance and gentle harvesting. The compact

design of the SE 75-20 allows close turning manoeuvres. The ergonomic, nearly horizontal picking table offers two standing heights and enough room for up to four persons. The large

sieving area of the 1st and 2nd main web guarantees a high performance.

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INTAKE

Gentle harvesting from the start

The good visible offset intake on the right-hand driver's side ensure simple handling of the machine. The pulled intake unit (1) with large, spring loaded disc coulters and haulm feed-in rollers allows smooth digging with an intake width of 580 mm (disc coulters spacing). The ridge pressure regulation (6) reduces unnecessary soil compaction.

The intensity of the cleaning of the first main web is adjustable via the share angle setting. use the 2-blade share (3) for heavy soils and the 3-blade share (4) for medium to light soils.

Automatic self-centre steering (Option) (2): two sensors fitted on the diablo roller control the drawbar hydraulically and relieve the driver.

The digging depth is adjustable via adjusting spindle (5).



GRADING AND PICKING

Good results and best quality

The picking table (1) with its practical trash conveyor (2) and almost totally even surface gives room for up to 4 persons. The hydraulic drive with variable speed adjustment allows optimal adaption to harvest quantity and trash separation. 4 Grading rollers (3) reliably separate smaller sizes. Roller distances of 25 or 35 mm are selectable.



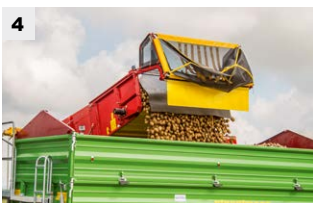
A hopper for small potatoes is available as an option for central deposition at fields end (4).

The optional stone box (5) has a capacity of approximately 500 kg, the optional stone box with conveyor (6) has a capacity of approximately 600 kg. Stone box filling via well positioned chutes and mechanical emptying via foot pedal at the picking platform. As an option, a hydraulic emptying from the tractor's seat is available. This option is included for the stone box with conveyor.

The automatic final conveyor (option), control an automatic lifting in small steps as the pile grows to reach a steady low drop (7).

MOVING FLOOR BUNKER AND BAGGING PLATFORM

Variable use



The moving floor bunker (1) has a capacity of 2000 kg and has almost constant transferring widths through its discharge height of maximum 3.3 m because of the parallelogram suspension.

The optional filling optimization (2) increases the bunker capacity by ca. 300 kg.

As an option, the bagging hopper with flow brake (3) is hydraulic foldable (4) and assures essential gentle crop handling.

In lieu of a bunker, a platform for direct crop bagging on the field can be selected (5).

Only individual solutions are ideal solutions: Your Grimme options!

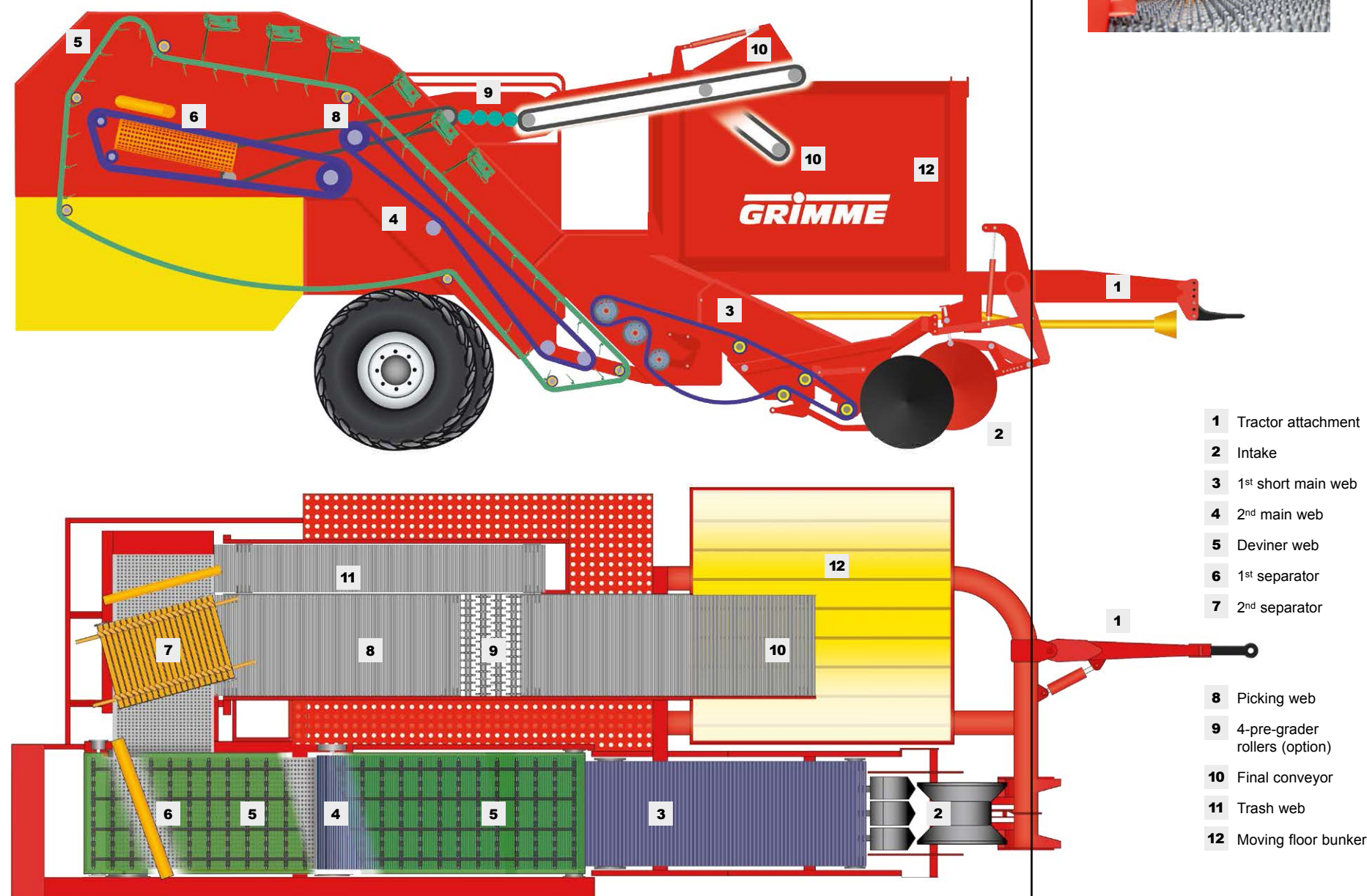
The harvesting conditions vary from campaign to campaign: different weather conditions and soils, various types of potatoes

and much more. – How do you achieve an optimal output? With the different Grimme options for the SE 75-20. Several options

enable adaption to the individual digging requirements.

Sophisticated from start to finish

We always attach greatest importance to high output, sturdiness as well as lowest impact crop treatment. Minimum drop heights, maximum gentle harvesting: owing to the small drop height of the 1st and 2nd main web (1). Made possible by an almost horizontal transfer. The small drop height from the 2nd main web to 1st separator (2) ensures gentle handling. – As well as the active running web bars, which in addition clean the side wall.

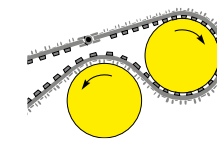


- 1 Tractor attachment
- 2 Intake
- 3 1st short main web
- 4 2nd main web
- 5 Deviner web
- 6 1st separator
- 7 2nd separator
- 8 Picking web
- 9 4-pre-grader rollers (option)
- 10 Final conveyor
- 11 Trash web
- 12 Moving floor bunker

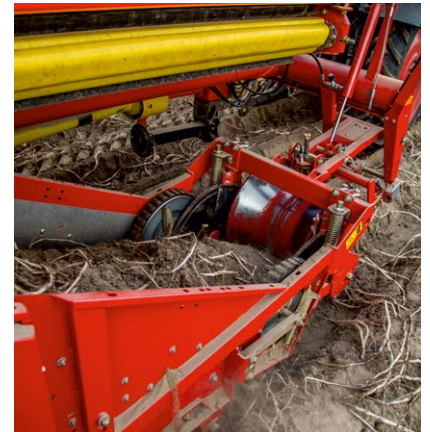
SIEVING AIDS

Taking important things and leave unimportant stuff behind – the sieving aids

1st and 2nd main web

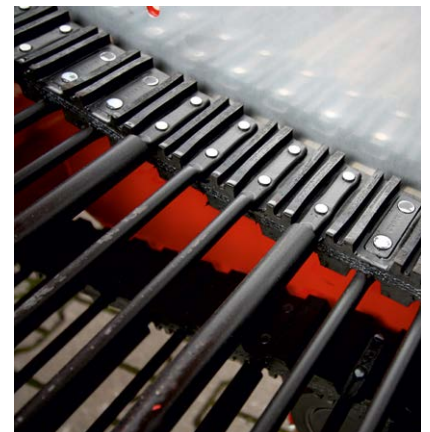


The main webs convince with their smooth running, durability as well as the special rubber covered drive rollers. Drive under the bars is part of the standard equipment. Staggered bars (option) improve soil transport on light soils and avoid crop rolling on slopes - the drive is then under the belts.



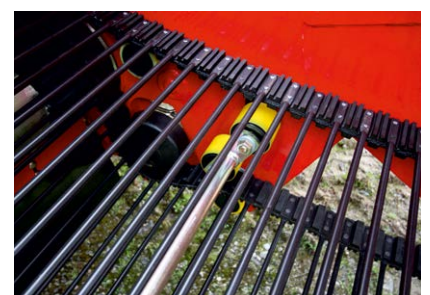
Patent High cam belts

High protection of potatoes with high cam belt: a special gentle and non-damaging conveying. The tubers are pampered and do not come in contact with metal parts.



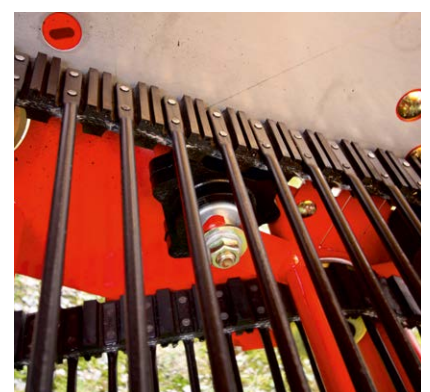
Mechanical rotary agitator

For better sieving performance of the 1st main web: depending on the digging conditions, the effect of the mechanical rotary agitator can be adjusted. Very comfortable: the hydraulic control unit via operator terminal.



Triangular rollers in the main web channel (option)

To increase the sieving performance even more, connectable triangular rollers (option) can be fitted. The stainless steel plates in the swing frame (option) suit everyone, who requires less sticky soil and improved crop protection due to reduced friction effect.



Original Grimme Know-how: the multi-function web. More sieving. More separating. More conveying.

Patent Patented multi-function web

Sieving, separating, conveying: three functions in one work procedure – thanks to the multi-function web.

Sieving

The 2nd main web effectively and gently separates soil, clods and stones; and transfers the crop to the following separator.

Separating

The deviner web runs closely above the 2nd main web and separates the large haulm from the crop flow and returns it to the field. 2 Scraper shafts support this separating process. As an option, a safety mechanism via slip clutch is available. The spring suspension of the scraper combs ensures long durability.

Conveying

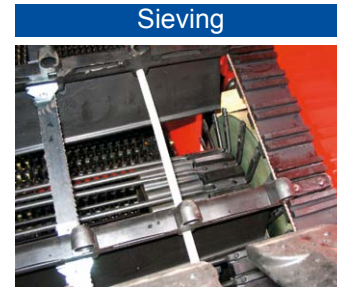
The combination of 2nd main web and deviner web create pockets for gentle harvesting. They convey the potatoes in “portions” onto the 1st separator. This creates a calm crop flow and therefore prevents conveying-related tubers damages.



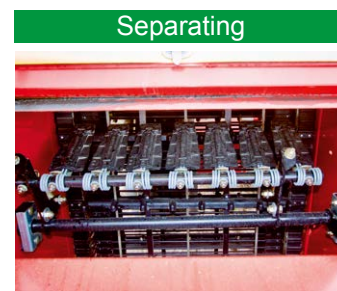
Optimal crop protection: deviner web with soft PU flights (distance each 210 mm)



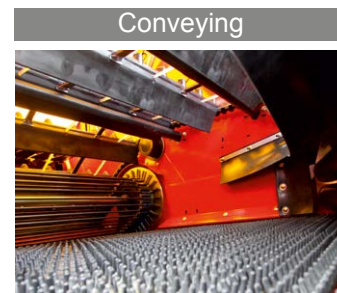
Manuel adjustable: 6 scraper combs of the deviner web



Sieving



Separating

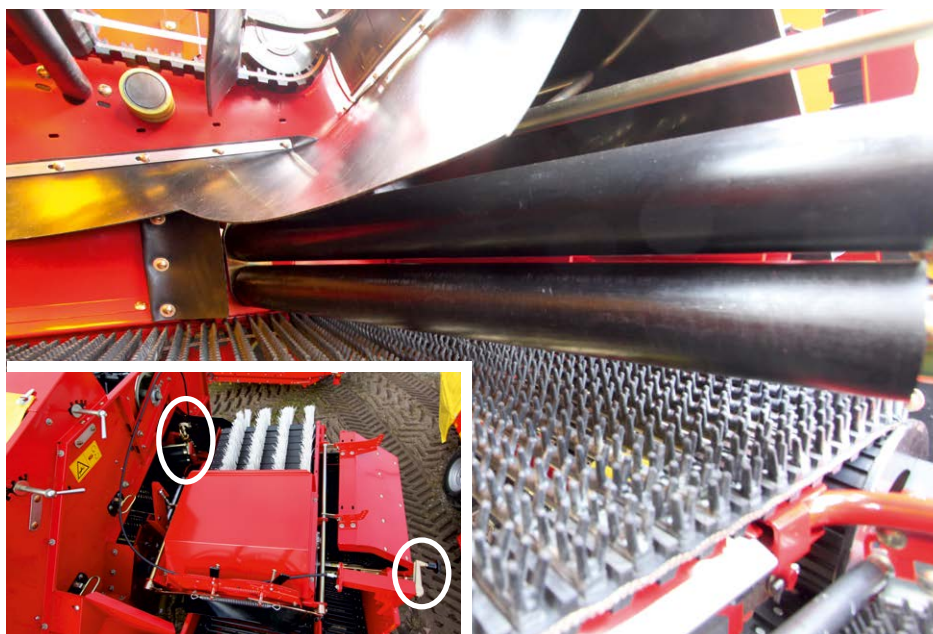


Conveying

Effective trash separation and gentle crop conveying at once

Double roller scraper

Efficient separation of remaining haulm and small trash via double roller scraper and hedgehog web (1), which is available in different pitches. For an optimum adaption to the crop, the double roller scraper is height adjustable as an option via bowden cable from the picking table (2). For the quick adaption to changing conditions, the hedgehog web and double scraper roller can be regulated via PTO shaft speed and the mechanic drive. Ideal at slopes is the levelling adjustment of the 1st separator via adjusting screw to optimise separating from trash and crop.



Who separates properly, will have an easier job at the picking table!

UB-/UP-separator – for cloddy soil with few stones

The 2-row finger web separates potatoes and clods carefully and is available for the bunker (UB) machine as well as for the platform (UP) version. The hedgehog web is available either with plates for light and medium soil as well as bars for heavy soils.



Infinitely hydraulic speed adjustment of the finger web.

Roller scraper rear of the finger web

Roller scraper rear of the finger web transfer the remaining trash like stones and clods as well as potatoes, which had not been transferred via finger web, onto the trash web. The pickers can return this crop back to the crop flow on the picking web.



The roller scraper ensures a loss-free separation of potatoes and trash.

SB-/SP-separator – for stony soils

The 4-row brush web separates potatoes and stones effectively and is available for the bunker (UB) machine as well as for the platform (UP) version. With manual hedgehog web drive. Stones and misguided potatoes are transferred directly onto the extended trash conveyor.



Type SB: for stony soils

The single-row potato harvester family

SE 75-20

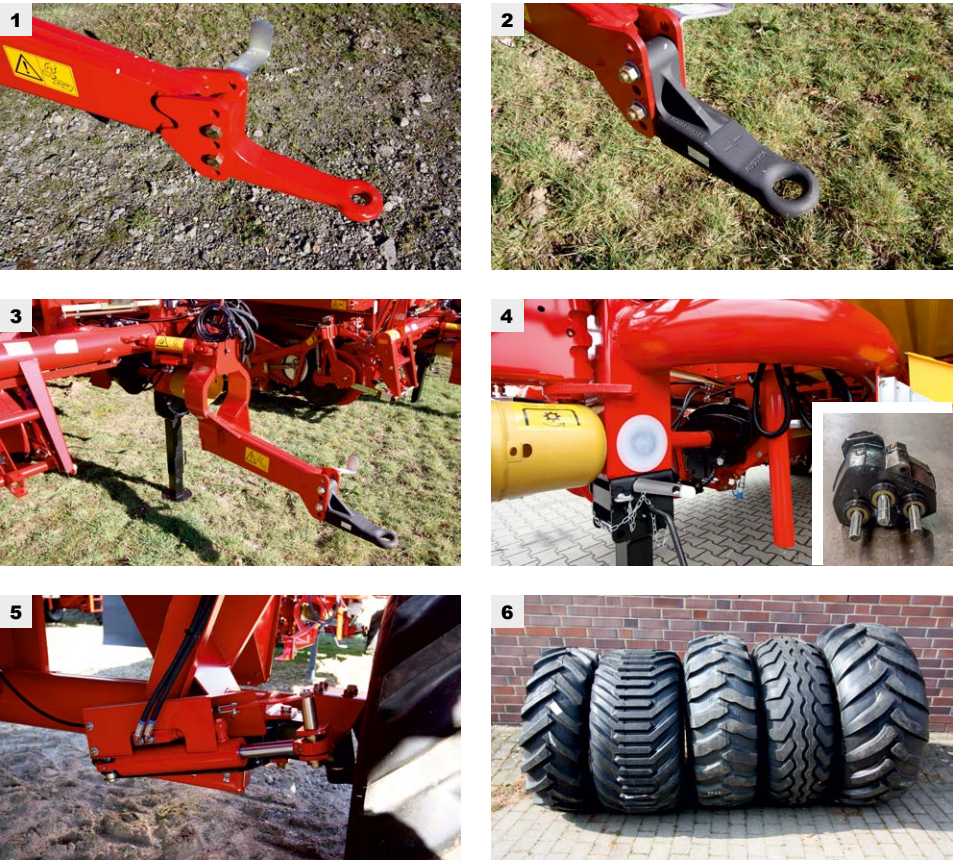
Features

- 2-ton bunker
- Intake width 580 mm
- Sieving area 1st and 2nd main web: 1.05 m² and 1.46 m²
- 580 mm wide picking table
- Picking table for 2 + 2 persons
- Moving floor bunker or bagging platform selectable
- Two different separators selectable
- Analog operation with simple and clear operator box
- Simple adjustment and handling
- Drawbar eye or hitch selectable
- Top or bottom drawbar
- Machine dimension: length 7900 mm, width 3000 mm, height 3100 mm
- Low and compact design for a manoeuvrable machine
- Required tractor power from 40 kW
- Empty weight: from 3800 kg (basic machine)



DRIVE, DRAWBAR AND WHEELS

Strong drive, robust drawbar, various types of wheels



Drawbar choice between drawbar eye (1) and hitch (2). Furthermore, the p.t.o.-shaft position is selectable above (3) or under the drawbar connection.

The hydraulic drawbar offset adjustment (3) and the drive shaft's centered progress make a smooth running of the drive line and a long durability.

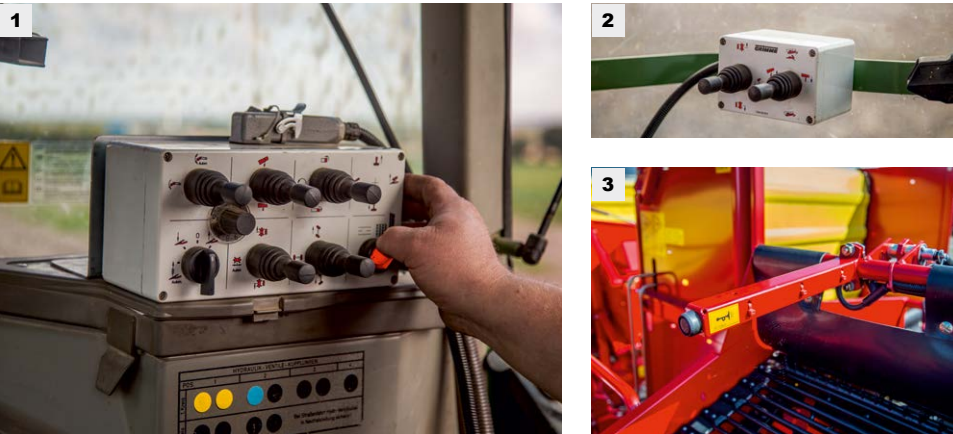
Three step gearbox (option) (4): simple speed adjustment of all manual driven units to adapt the machine to sensitive crop.

Hydraulic axle steering enables high agility and quick turning manoeuvre (5).

The SE 75-20 can be equipped with five different types of wheels (6). So matching wheels for all conditions are available.

MACHINE CONTROL SYSTEM

Simple. Practical. Good: the operating concept of SE 75-20



All important machine functions like the ridge pressure regulation as an option can be regulated easily via main operator terminal (1). For comfortable bunker unloading a practical additional operator box is assembled as standard at the left-hand side (2). The machine functions can be operated directly by the picking staff via two Bowden cables at the picking table. If necessary, the driver can be warned with the horn (3).

SE 140

Features

- 4-ton bunker
- Three different intake widths from 580 to 660 mm selectable
- Sieving area 1st and 2nd main web: 1.48 m² and 1.71 m²
- 684 mm wide picking table, 765 mm as an option
- Picking table for 4 + 2 persons
- Hydraulic final conveyor lowering for a gentle bunker filling
- Moving floor bunker with bunker head lowering as an option
- Two different separators selectable: 750 mm wide finger or brush web
- Analog operation with simple and clear operator box
- Simple adjustment and handling
- Drawbar eye, hitch or drawbar with ball bearing hitch selectable
- Top or bottom drawbar
- Machine dimension: length 8300 mm, width 3000 mm, height 3160 mm
- Compact design for a manoeuvrable machine
- Required tractor power from 55 kW
- Empty weight: from 5000 kg (basic machine)



SE 75-55

Features

- Large 5,5-ton bunker
- Three different intake widths from 580 up to 660 mm selectable
- Sieving area 1st and 2nd main web: 1.69 m² and 2.01 m²
- 765 mm wide picking table, 850 mm as an option
- Picking table for 4 + 2 persons
- Hydraulic final conveyor lowering for a gentle bunker filling
- Moving floor bunker with bunker head lowering as an option
- Three different separators selectable: 750 mm wide finger or brush web or N-separator
- 900 mm wide finger or brush web available as an option
- Digital operation with simple operator terminal, touchscreen display and additional operator boxes for frequent used functions, analog operation as an option with simple and clear operator boxes
- Simple adjustment and handling
- Drawbar eye, hitch or drawbar with ball bearing hitch selectable
- Bottom drawbar
- Machine dimensions: length 8920 mm, width 3000 mm, height 3500 mm
- Compact design for manoeuvrable machine
- Required tractor power from 60 kW
- Empty weight: from 5100 kg (basic machine)





Technical data

	SE 75-20
	Machine in transport position
Length	7900 mm
Width	3000 mm
Height	3100 mm
Weight (empty)	3800 kg (basic machine)

Tractor attachment	Drawbar eye, drawbar connection above or under p.t.o.-shaft
Power transmission	Drive shaft, belt drive, PTO shaft speed max. 540 R.P.M
Axle	Hydraulic axle steering (option)
Tyres	12.5/80-20
Intake	Pulled intake section 2 pulled spring loaded discs, 580 mm; 2- or 3-share blade selectable Pulled diablo roller 2 haulm intake rollers, diameter 400 mm
1st main web	750 mm wide, 1400 mm long
2nd main web	750 mm wide, 2280 mm long
Haulm separation	Deviner web with scraper unit incl. 6 scraper combs Deviner web 850 mm wide, 3700 mm long
1st separator	Straightly running hedgehog web with double roller scraper, mechanically driven and mechanically adjustable at inclination Double roller scraper adjustable in height via adjusting spindle (standard) or via bowden cable (option): 900 mm wide, 1150 mm long
2nd separator	Hedgehog web, mechanically driven and mechanically levelling adjustment, 650 mm wide, 1450 mm long Type UB/UP: hydraulically driven finger web (2 rows) with scraper rollers Type SB/SP: hydraulically driven brush web (4 rows) with extended trash web
Picking table	580 mm wide picking table for type UB/UP/SB/SP 280 mm wide trash conveyor Picking web drive: infinitely hydraulically adjustable Trash conveyor drive: infinitely hydraulically adjustable Picking platform: on both sides for 2 and 2 (total 4) persons with warning system for tractor driver
Moving floor bunker	Unloading height: max. 3300 mm Capacity: max. 2300 kg (in conjunction with filling optimisation) Drive: infinitely hydraulically adjustable
Hydraulics	Electro-magnetic control box
Electric system	Analog control

No claims can be raised in respect of texts, illustrations, technical specifications, dimensions and weights, equipment as well as performance specifications. They are approximate and non-binding. Changes in the course of technical enhancement are possible at any time.



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