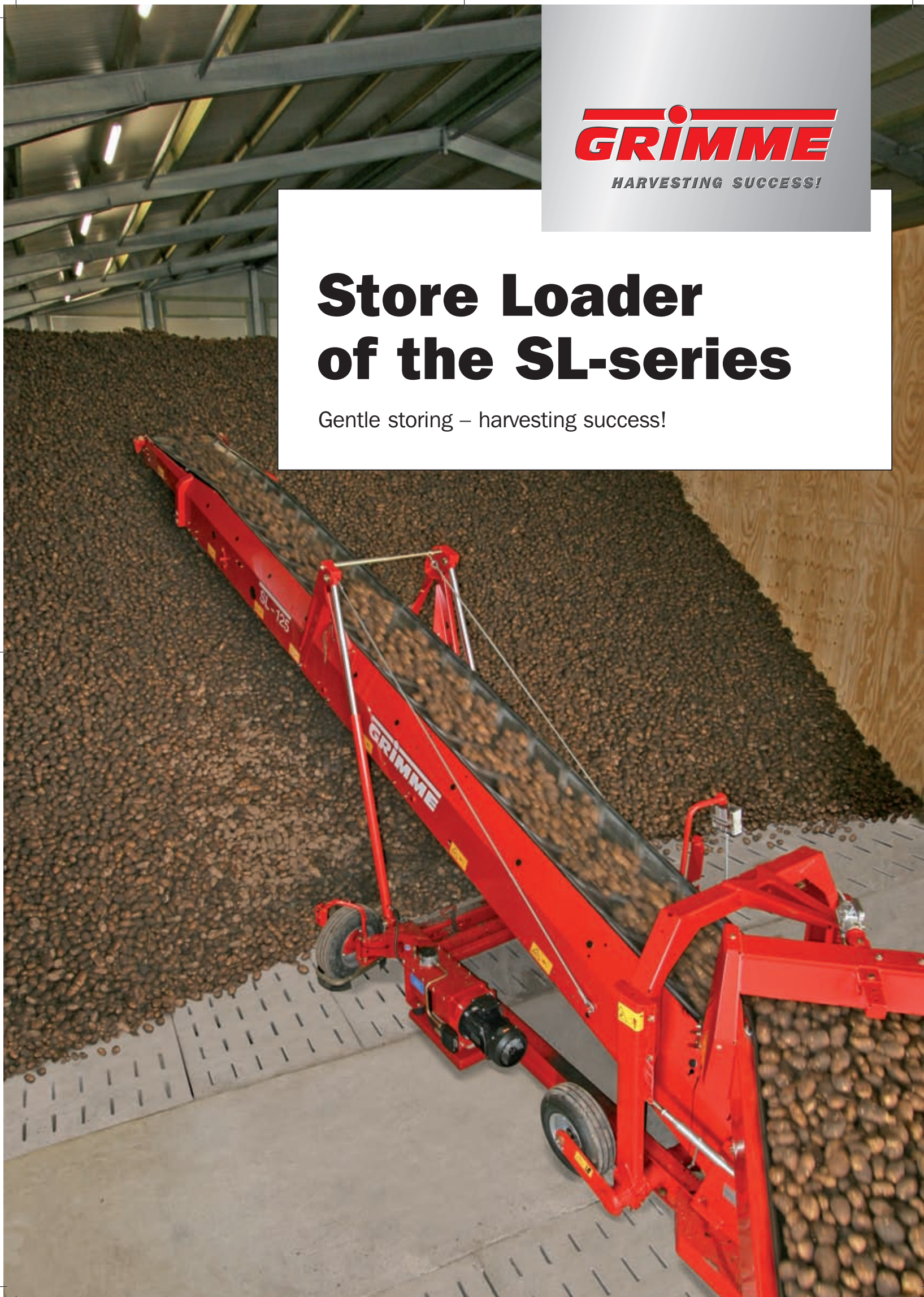


GRIMME
HARVESTING SUCCESS!

Store Loader of the SL-series

Gentle storing – harvesting success!



We have something in store: the Grimme handling line

Innovative ideas, technical developments and refinement – make the Grimme handling and storing equipment unique. Great importance is attached to high build quality, faultless operation

and gentle crop handling – and that throughout the line, where every transfer unit or drop is a critical point – or better said: was. The well chosen and several DLG awarded Grimme innovations

ensure a high capacity storing and gentle handling of the crop at the same time. With single machines or with a complete handling line: for more success!

2

GRIMME STORE LOADER

Quick, robust, economically: the SL-series

Simply perfect: compact, efficient and agile – the standard for the new SL 125 with 12.5 m and the new SL 145 with 14.5 m length from Grimme.

More information of the extensive basic equipment and options are shown on pages 4–7.



First class: faster, wider and longer – with 14.5 m, 16.5 m and 18.5 m length.

The Store Loader of the SL 80-series persuades with its gentle handling facilities and many extras.

More information of the extensive basic equipment and options are shown on pages 8–11.





GRIMME
HARVESTING SUCCESS!



SL 125 , SL 145

Simply perfect: the compact Store Loader

Compact, efficient and agile – that is standard for the new SL 125 (12.5 m long) and the new SL 145 (14.5 m long). Both models are qualified for the storing of potatoes, onions, carrots or grain. The large wheel overhang ensures maximum manoeuvrability. Your advantage: reduces the need to move the machine very

often. The electro-hydraulic drive with the infinitely speed adjustment of all drives ensures an optimum crop flow. For gentle storing also with high crop flow! Another advantage is the reduced costs because of the low maintenance of the robust Store Loaders from Grimme.

Measurements:

| |
|------------------|
| SL 125 |
| Length 12.5 m |
| Belt width 65 cm |
| SL 145 |
| Length 14.5 m |
| Belt width 65 cm |

4



Increased quality: The swan neck ensures minimum drop height and gentle handling of the crop (1).

Double features: the compact, sealed rubber covered intake funnel for gentle intake and loss-free crop intake as well as the easily accessible intake funnel for a direct intake. Beneficial for coupled to Twin-Conveyor or tipping trailers (2)

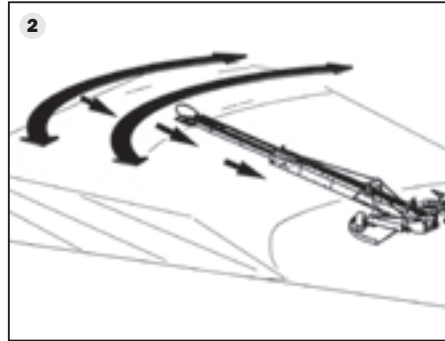
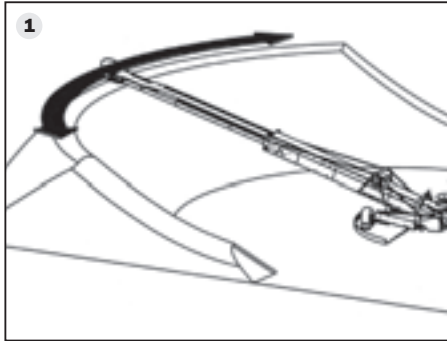
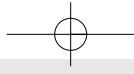
Smooth running: with the V-belt (3) designed and developed by Grimme.

The 65 cm wide belt for high transport capacity. Besides the high durability it is also very temperature resistant and does not become fragile under extreme conditions.

Pulled instead of pushed: The belt drive is pulled at the S-bend to ensure a slip control but with high power. The steel support rollers with sealed for life bearings (4)

Just a matter of position: automatic detection of the swivelling range and sidewalls via none wearing and maintenance free sensors in the head end (5)





Standard swivelling automatic: Sensors fitted at the head end as standard or at the chassis (option) control the swivelling range (1).

Store filling function (option): Ultra-sonic sensors constantly monitor the distance to the stored crop (2). The Store Loader retraces automatically at the set time without angle adoption.



Well connected: The stable drawbar (3) ensures a safe machine transport but is easily removed.

Stability with power: Heavy-duty steel base plates (4) rest on the ground via rubber buffers when the machine is in swivelling position. That means: gentle and stable at the same time



One for all: The central electro-hydraulic unit controls the speed of all drives (5).

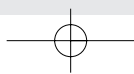
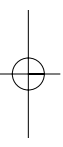
Everything in view: The clearly arranged and simple operator control box with 15m long cable ensures easy operation from the lorry or transfer web (6).



Practical in wide halls: Sensors at the main wheels control the swivelling range (7).

Speed you up: The hydraulic, low maintenance wheel drive enables infinite adjustment of the swivelling speed without interfering with the swinging (8). Uneven filling of the store because of limited movement is a thing of the past.

Easy to move: Extend the support wheels (9) hydraulically, move the machine and retract the machine hydraulically – ready!



SL 125 , SL 145 EQUIPMENT

Following requests for more equipment: the features

| | SL 125 | SL 145 |
|---|--------|--------|
| 1 Stainless steel funnel for grain | ● | ● |
| 2 Fluid (Certified food save drive medium) | ● | ● |
| 3 Coupling (To connect a Twin Conveyor) | ● | ● |
| 4 FLOW-CONTROL line control | ● | ● |
| 5 | ● | ● |
| 6 2 optical sensors in the head end | ○ | ○ |
| 7 Swivelling control (2 optical sensors at the chassis) | ● | ● |
| 8 AFG-Box 220 V (Connection for other machines) | ● | ● |
| 8 AFG-Box 400 V (Connection for other machines) | ● | ● |
| 9 Hydraulically operated support wheels | ● | ● |
| 10 Time operated discharge height/ swivelling area adoption (2 sonar sensors) | ● | ● |
| Belt speed 3–55 m/min | ○ | ○ |
| Belt speed 3–70 m/min | ● | ● |
| 24" Wheels | ● | ○ |

○ Series
● Option

Loss free intake: with the stainless steel funnel (1) for grain attached to the standard funnel. The twin sealing ensures a loss free intake and transfer of the grain.



Runs well lubricated: Grimme offers an exclusive food grade drive medium to suit the high demands of modern quality assurance schemes – the Grimme fluid (2).



Soft landing: The coupling not only connects the Twin Conveyor it also ensures, that the crop is always transferred to the centre of the funnel for gentle landing independent of the angle and position of the conveyor to the Store Loader (3).





Well connected: a unique FLOW-CONTROL connector for all Grimme storing machines (4).

Under control: FLOW-CONTROL (5) (option) to operate all Grimme handling and storage equipment through just one operator terminal. With the possibility to start / stop the machine in a logical time chronology for gentle storing



Ultra practical: Two ultra-sonic sensors (6) (option) (marked red) fitted to the right- and left-hand side of the chassis constantly monitor the distance to the stored crop. The standard sensor (marked black) at the head end detects sidewalls for the swivelling automatic.

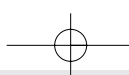


Up to the limit: Sensors at the wheels control the swivelling range (option) in wide stores or stores with moveable walls (7).

Control centre: The AFG-Box (option) controls the additional machines in the storing line via the central operator terminal (8).



Hydraulically operated main wheels (option) for quick moving into the store hall and simple change from transport to work setting (9), turned position (10)



SL 80-14 , SL 80-16 , SL 80-18

Full range for your store: the Store Loader for the professionals

Measurement:

SL 80-14
Length 14.5 m
Belt width 80 cm

SL 80-16
Length 16.5 m
Belt width 80 cm

SL 80-18
Length 18.5 m
Belt width 80 cm

The Store Loader of the SL80 series with 14.5 m, 16.5 m and 18.5 m lengths convince with their high efficiency as well as the robust and long living design – low maintenance inclusive! Loose products as potatoes, onions, carrots or grain are quickly and well stored with the remote control. The electro-hydraulic drives with

infinitely speed adjustment ensure gentle storing of the crop. The large wheel overhang reduces the movements to a minimum. Saving time and money. At the same time the whole store under control with just one machine!

8



SL 80-16
16.5 m

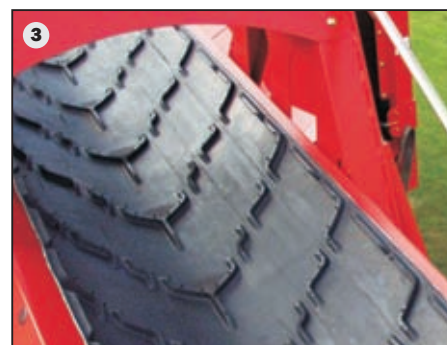
SL 80-14
14.5 m

High manoeuvrability in a limited area: simple moving enabled by the short design. The standard wheel guards avoid rolling over the crop and other items (1).



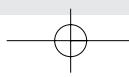
Good solution: The large rubber round intake hopper (2) ensures loss-free and gentle crop flow.

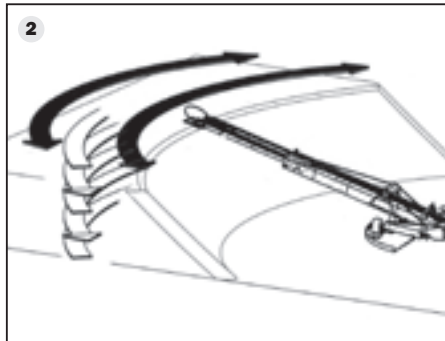
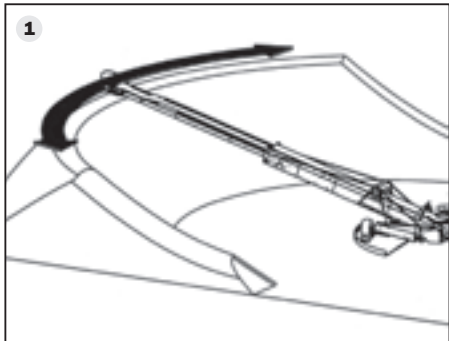
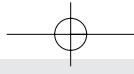
Know-how with profile: From the Grimme designed conveyor belt (3) persuades with its high transport capacity. The V-shaped, 16 mm high flights increase the transport capacity of the 80 cm wide belt. Active side panels improve this effect as well. The fabric texture ensures flexibility and long life of the belt.



Hydraulic web drive at the pulling end: The direct, slip controlled and maintenance-free drive ensures under all conditions an optimal belt guiding. The infinitely drive ensures a gentle crop handling (4).

Smart head: The standard sensors at the head end detect walls and control the swivelling range (5).

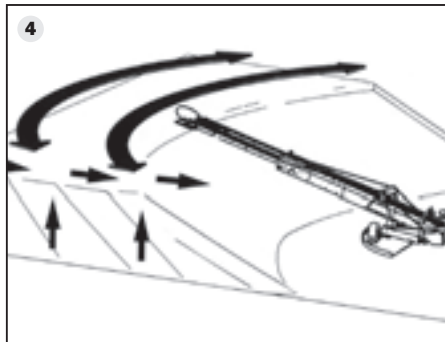
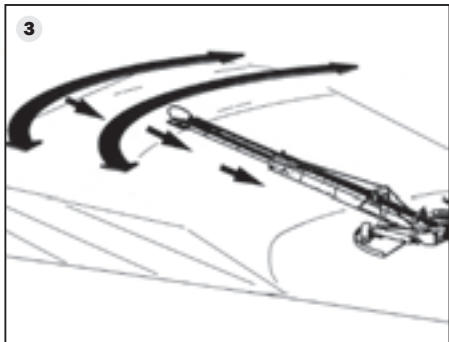




Automatic swivelling: continuous swivelling control between both pre-set points from the operator terminal (1)

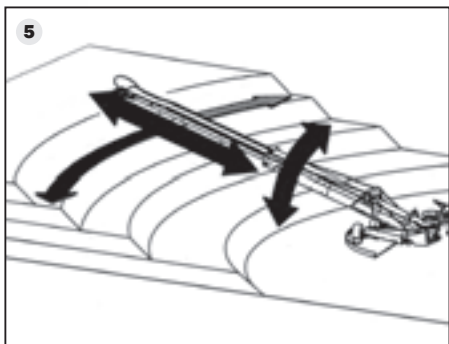
Swivelling automatic with automatic adoption of the swivelling angle and the discharge height (option) (2): Two ultra-sonic sensors control continuously the distance on the right and left hand side of the chassis.

SL 80-18
18.5 m



Store hall filling function I (option) (3): Two sensors control the distance to the r/h and l/h-side. The machine automatically retraces while reaching the outer limit. Manual filling of the final level

Store hall filling function II (option) (4): Two sensors control the distance to the r/h- and l/h-side. The machine automatically retraces while reaching the outer limit and also adjusts the height to store at an even level.



Terrace filling (option): automatic filling of the store shed within the working range (5). Benefit from the gentle crop handling with terrace filling

The compact hydraulic unit with powerful load sensing hydraulic pump (6) controls only the necessary power requirement. It is possible to fill the hydraulics with Grimme fluid (option).



To fill closed trailers from the rear the lifting option gives the necessary mobility (7).

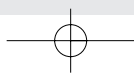
Mobile and agile: Castor wheels (8) with hydraulic height adjustment guarantee high manoeuvrability while simple machine transport.



Simply attached: easy assembling and dismantling of the drawbar (9) to the Store Loader for simple transport with the tractor

A heavy-duty steel base plate, which rests on the ground via rubber buffers when it is in its swivelling position (10)

Central control: The GBX operator terminal (11) controls all machine functions.



SL 80-14 , SL 80-16 , SL 80-18 EQUIPMENT

A class on its own: more comfort, more power – more efficiency

10

| | SL 80-14 | SL 80-16 | SL 80-18 |
|--|----------|----------|----------|
| 1 FLOW-CONTROL line control | ● | ● | ● |
| 2 BIG BAG-filling device | ● | ● | ● |
| 3 Opto-sensors at the head end (For store hall filling) | ● | ● | ● |
| 4 Coupling (To connect a Twin Conveyor) | ● | ● | ● |
| 5 Stainless steel funnel for grain | ● | ● | ● |
| 6 Lorry filling web | ● | ● | ● |
| 7 Remote control (To control the main functions) | ● | ● | ● |
| 8 GBT 2100 operator terminal (Incl. joystick) | ● | ● | ● |
| Store hall filling function I (Retracing of the machine) | ● | ● | ● |
| Store hall filling function II (Retracing of the machine and height adjustment) | ● | ● | ● |
| Terrace filling | ● | ● | ● |
| Discharge height adoption (Automatic adoption of the drop height via 2 ultra sonic sensors) | ● | ● | ● |
| Hydraulically operated support wheels | ● | ● | ● |
| Swivelling control (4 opto-sensors inside of the head end) | ● | ● | ● |
| Automatic adoption to the swivelling range | ● | ● | ● |
| Constant intake height | ● | ● | ● |
| Transfer web (Total loading length 1.5 m extended) | ● | ● | ● |
| Fluid (Certified food safe drive medium) | ● | ● | ● |
| Remote control for joystick-box or GBT 2100 | ● | ● | ● |
| Belt speed 3–50 m/min | ● | ○ | ○ |
| Belt speed 3–75 m/min | ● | ● | ● |
| AFG-Box 220 V (Connection for other machines) | ● | ● | ● |
| AFG-Box 400 V (Connection for other machines) | ● | ● | ● |

○ Series

● Option



Under control: with FLOW-CONTROL (1) easy start and stop of the whole storing line from the operator terminal of the Receiving Hopper or Store Loader. Ideal: possible to set the start and stop function in line

Good connection: same FLOW-CONTROL connector (2) for all machines

Enlarge the possibilities: the new filling device from Grimme for quick BIG BAGs (3) filling from 500 to 1,200 kg capacity – gentle handling and optimized dropping height. Big but easy to assemble, maintenance free and low cost



Watch you: Four opto-sensors inside the head end (4) detect and avoid collisions. Two sensors control the height to the crop and automatically adjust the height and swivelling range.

An earning connection: The coupling (5) connects the Twin-Conveyor to the Store Loader and ensures a drop height optimized transfer. It enables an automatic relocating with the Store Loader.



Loss free intake: A stainless steel funnel (6) put on the standard funnel ensures a loss free intake and transport.

Lorry filling web: ensures a gentle filling of the trailers. The head end is controlled from the operator terminal. The effective length of the telescopic area is reduced (7).



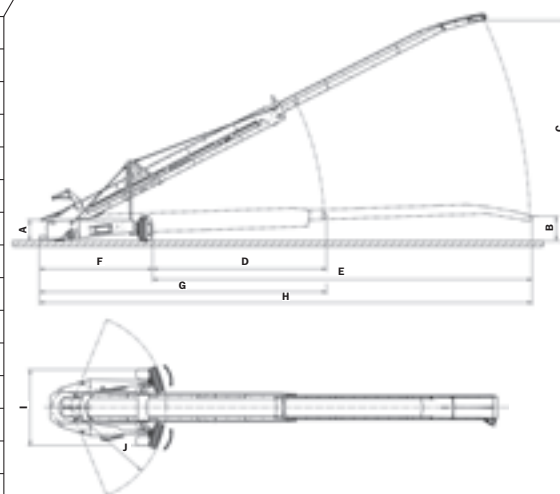
Increase the comfort and mobility: Control the main operations with the remote control (8).

Visible terrace filling: The GBT 2100 (9) controls the filling. The big display enables several optical displays of the parameter and diagnostic functions.



Technical data

| | SL 125 | SL 145 | SL 80-14 | SL 80-16 | SL 80-18 |
|---------------------------|------------|------------|------------|------------|------------|
| Intake height (A) | 950 mm | 950 mm | 1,050 mm | 1,050 mm | 1,050 mm |
| Discharge height min. (B) | 800 mm | 1,200 mm | 400 mm | 550 mm | 800 mm |
| Discharge height max. (C) | 5,800 mm | 7,000 mm | 6,200 mm | 7,800 mm | 8,900 mm |
| Minimum reach (D) | 4,400 mm | 5,500 mm | 5,000 mm | 5,700 mm | 6,700 mm |
| Maximum reach (E) | 9,000 mm | 11,000 mm | 10,800 mm | 12,500 mm | 14,500 mm |
| Chassis length (F) | 3,500 mm | 3,500 mm | 3,900 mm | 4,250 mm | 4,300 mm |
| Belt length retracted (G) | 7,800 mm | 9,100 mm | 8,700 mm | 9,700 mm | 10,700 mm |
| Belt length extended (H) | 12,500 mm | 14,500 mm | 14,500 mm | 16,500 mm | 18,500 mm |
| Transport width (I) | 1,950 mm | 2,250 mm | 2,700 mm | 2,700 mm | 2,900 mm |
| Swivelling radius (J) | 2,800 mm | 2,900 mm | 3,500 mm | 3,500 mm | 3,600 mm |
| Swivelling area at 135° | 23,000 mm | 26,800 mm | 26,000 mm | 30,000 mm | 34,000 mm |
| Weight | 3,800 kg | 4,200 kg | 4,600 kg | 5,500 kg | 6,400 kg |
| Electro-hydraulic drive | 4.0 kW | 4.0 kW | 5.5 kW | 7.5 kW | 7.5 kW |
| Belt width | 650 mm | 650 mm | 800 mm | 800 mm | 800 mm |
| Belt speed | 3-35 m/min | 3-35 m/min | 3-35 m/min | 3-35 m/min | 3-35 m/min |



Success through the whole line: with winning handling technology from Grimme



Receiving Hoppers



Single- or Twin-Conveyors



Store Loaders



Combi Unit Picking/Separating Unit



Box Filler



Web Grader

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