

**GRIMME**  
HARVESTING SUCCESS!

# Receiving Hopper RH-series

Gentle storage – harvesting success!



# More efficient: storing equipment from Grimme!

Innovative ideas, technical developments and refinement – these make the Grimme handling and storage equipment incomparable. Great importance is attached to high build quality, faultless operation and gentle crop handling. And that at all working steps, because every transfer and drop is a

critical step. Or to be precise: was a critical step! Because of the DLG-awarded Grimme innovations storing is now the most gentle, smooth and productive step. The same with the individual elements as well as with the whole storing line: gives you more.

## GRIMME KNOW-HOW

### There are many reasons why to choose the RH-series. Here are four important ones!

*Supporting position: The robust construction of the hopper floor is self-supporting. Heavy duty hopper floor chain with large diameter, outboard positioned rollers for long life, low rolling resistance and low maintenance*

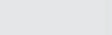
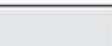


*Several advantages at once: The horizontal head end of the hopper floor breaks up the flowing crop, provides even crop discharge to the cleaning unit and ensures a continuous flow to the following machines.*



*Maximum output: The deep lamella pockets of the hopper floor ensure an optimum carrying effect and therefore a maximum filling-rate of the hopper volume. – The deep and soft lamella pockets ensure a gentle crop transport as well as an even crop flow with reduced rolling of the potatoes as well as a quick emptying.*

*Best performance – made by Grimme: Soft polyurethane rollers guarantee gentle crop handling and ensure more effective trash separation than steel rollers. Also the independent control of the roller groups “1-3-5” and “2-4-6” ensures the ideal settings can be made for all potato types and sizes. Furthermore the special shape of the rollers prevents stone and haulm blockages. Another feature is the infinite roller distance adjustment for optimum adjustment to suit the different conditions; and with direct drive to each roller in lieu of traditional, high-maintenance chain drives.*







## Index

Original Grimme know-how	2
Not cheap – but inexpensive: the beginner class	4–5
Compact and brilliant: the compact class	6–7
More than you expect: the top class	8–10
To make you completely happy: the comprehensive equipment range	11–13
Technical data	14

RH 12-40 E / RH 16-40 E / RH 20-45 E / RH 20-60 E

## Not cheap – but inexpensive: the beginner class

For starter in the Grimme class: the compact Receiving Hopper models of the E-series impress not only with a good price performance ratio, but also combine high

output with extremely gentle crop handling at the same time as applying innovative and practical solutions.

*Easy filling: The intake flap and double seals on the side avoid crop losses. Also the intake flap is height adjustable (option) to match different trailers.*



### Innovative. Gentle crop handling. Powerful: the details of the beginner class

You profit from the intake to the cleaning rollers through original detailed Grimme solutions:

#### At the filling:

- Ideal intake flap for filling from tipping trailers
- Adjustable, spring loaded intake flap (option) for quick adjustment to suit different tipping trailers – also suitable for emptying boxes

*Benefit: The hopper retaining wall ensures an even crop flow and a consistent feed to following machines. Adjustable retaining wall as option for an optimum crop flow. The soft rubber belt ensures gentle crop handling; infinite adjustment of crop flow and the soft flights ensure a fast emptying.*



#### For the crop flow:

- Soft, gentle rubber belt with 15 mm high flights
- Infinitely adjustable hopper floor speed via manual control valve

*Individual cleaning and separation: infinite roller gap adjustment from 5 to 55 mm (2) of all six polyurethane rollers via manual control valve (1) for high separation capacity with extremely gentle crop handling. The hydraulic drive enables infinite adjustment of the cleaning rollers also via manual control valve (1).*



*Safe delivery: The RH 12-40 E is equipped as standard with a crop discharge chute and soil funnel. It is possible to fit a maximum of one cross conveyor in lieu of either the funnel or the chute (option).*



RH 12-40 E





**Soil cleaning:**

- 6 polyurethane-spiral rollers with infinite speed adjustment
- High speed coil cleaning TURBO-CLEAN (option)
- Manual levelling and gap adjustment of the cleaning rollers
- Hydraulic unit with gear pump

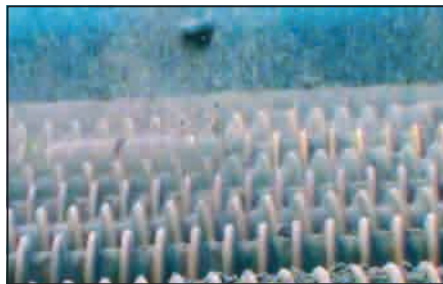
**Crop distribution:**

- Product- and soil cross conveyor with "left/off/right", as well as infinite speed adjustment via manual control valve

For the comprehensive Grimme equipment range please see pages 11–13.



*Many advantages in one: The horizontal head end breaks up the flowing crop, provides even crop flow to the soil cleaning unit and ensures a continuous flow to the following machines.*



*A clean solution: high speed coil cleaning by centrifugal force TURBO-CLEAN. Maximum speed ensures a good cleaning of the rollers – ideal for sticky soil.*

RH-series	12-40 E	16-40 E	20-45 E	20-60 E
Intake width	290 cm	290 cm	300 cm	300 cm
Hopper floor width	140 cm	180 cm	200 cm	200 cm
Hopper length	400 cm	400 cm	450 cm	600 cm
Soil cleaning width	160 cm	200 cm	200 cm	200 cm
Soil cleaning rollers	6	6	6 (option: 8)	6 (option: 8)
Hopper volume	4 m <sup>3</sup>	6.5 m <sup>3</sup>	9.5 m <sup>3</sup>	16 m <sup>3</sup>

*The different models of the beginner class*



*Opportunity: The Grimme E-models impress with their good price ratio performance.*

RH 20-45 E

RH 16-40

## Compact and brilliant: the compact class

The compact Receiving Hopper RH 16-40 with a hopper volume of 4 m<sup>3</sup> (option: 5.5 m<sup>3</sup>) impresses not only because of its combination of high output and extremely

gentle crop transfer but also because of many innovative features. The optimum combination: the RH 16-40 in combination with the box filler module of the GBF-series.

*Unique: the compact RH 16-40 with its electro-hydraulic drive via load-sensing pump. The important advantage: infinite speed adjustment of all drive components, which means infinite adjustment of the required output! Another advantage: long life and maintenance-free due to absence of sprockets and chains*



*Precise adjustment: The hydraulic spacing and levelling adjustment (option) enables a precise setting of the soil cleaning unit for different conditions.*



*Compact Receiving Hopper RH 16-40: Cross conveyor for separated crop and trash ensure an optimum crop flow.*



### Innovative. Gentle crop handling. Powerful: the details of the compact class

Standard comfort: control of the Receiving Hopper via operator terminal GBT. You profit from the intake to the cleaning rollers through original detailed Grimme solutions:

#### At the filling:

- Ideal intake flap for filling from tipping trailers
- Adjustable, spring loaded intake flap (option) for quick adjustment to suit different tipping trailers – also suitable for emptying boxes

Some data of the RH 16-40:

<b>RH-series</b>	<b>16-40</b>
<b>Intake width</b>	290 cm
<b>Hopper floor width</b>	140 cm
<b>Hopper length</b>	400 cm
<b>Soil cleaning width</b>	160 cm
<b>Soil cleaning rollers</b>	6
<b>Hopper volume</b>	4 m <sup>3</sup> Option: 5.5 m <sup>3</sup>

**For the crop flow:**

- Soft, gentle rubber belt with 15 mm high flights
- Infinitely adjustable hopper floor speed via operator terminal GBT (incl. 0–100 % display)
- FLOW-CONTROL enables the operator to switch on/off the machines in the complete handling line



*Big advantage: big receiving funnel (without hopper retaining wall) for the RH 16-40 extends the hopper volume from 4 to 5.5 m<sup>3</sup>*

**Soil cleaning:**

- 6 polyurethane-spiral rollers with infinite speed adjustment
- High speed coil cleaning TURBO-CLEAN (option)
- Manual levelling and gap adjustment of the cleaning rollers (hydraulically as option)
- Electro-hydraulic drive with load sensing pump



*A clean solution: high speed soil cleaning by centrifugal force TURBO-CLEAN. Maximum speed ensures effective cleaning of the rollers – ideal for sticky soil.*

**Crop distribution:**

- Product- and soil cross conveyor with "left/off/right", as well as infinite speed adjustment via mechanical control valve
- For efficient box filling in combination with the Grimme GBF-series Box Filler



*Under control: convenient setting of the main functions via GBT – e.g. the hopper floor speed*

For the comprehensive Grimme equipment range please see pages 11–13.



*Good combination: the RH 16-40 in combination with the GBF-series box filler. To ensure a short crop flow and reduce unnecessary transfers. Simple machine handling and extremely gentle crop handling*



RH 20-45 / RH 24-45 / RH 20-60 / RH 24-60 / RH 24-60 XXL\*

## More than you expect: the top class

The powerful and convenient Receiving Hopper of the top class with hopper volumes from 9.5 to 19 m<sup>3</sup> ideal for filling from rear tippers. Enjoy the advantage of innovative solutions of the beginner class:

*Top class: The wide intake width is ideal for filling from the rear of trailers. The rubber intake flap and seals on the sides avoid crop losses. Also the intake flap is height adjustable (option) to match different trailers.*



*Many advantages in one: The horizontal head end breaks up the flowing crop, provides even crop discharge to the soil cleaning unit and ensures a continuous flow to the following machines.*



Simple operation, extremely gentle crop handling and enormous output. The top class of the Grimme Receiving Hoppers for fast and convenient storing.

### **Innovative. Gentle crop handling. Powerful: the details of the top class**

Standard comfort: control of the Receiving Hopper via operator terminal GBT. You profit from the intake to the cleaning rollers and original detailed Grimme solutions:

#### **At the filling:**

- Ideal intake flap for filling from tipping trailers
- Adjustable, spring loaded intake flap (option) for quick adjustment to suit different tipping trailers – also suitable for emptying boxes



*Saves time: Dismantling is no longer necessary with the stable foldable drawbar.*

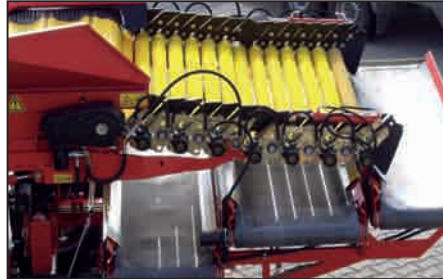


**For the crop flow:**

- Deep and soft lamella pockets ensure gentle transporting of the crop
- Infinitely adjustable hopper floor speed via operator terminal GBT (incl. 0–100 % display)
- FLOW-CONTROL enables the operator to switch on/off all machines in the handling line (option)
- Automatic control of the hopper floor speed via CAPACITY-CONTROL for optimum crop flow onto the following machines (option)

**Soil cleaning:**

- 6 polyurethane-spiral rollers with infinitely adjustable speed (option for up to 14)
- High speed coil cleaning TURBO-CLEAN (option)
- polyurethane pre-grading rollers to optimize pre-grading (option)
- Hydraulic levelling and gap adjustment of the cleaning rollers
- Electro-hydraulic drive with load sensing pump



*Clean crop: the standard hydraulic levelling and gap adjustment – for optimum cleaning of the crop*



*Direct connected: direct drive of the rollers in place of traditional high maintenance chain drives!*

*Successful system: CAPACITY-CONTROL-system (option) automatically controls the hopper belt speed and ensures a consistent crop flow through the whole line. You're advantage: even flow without manual changes. Controlled via ultra-sonic sensors, set from the operator terminal GBT.*



*More volume: The additional horizontal intake end at the hopper bottom increases the hopper volume.*

**Crop distribution:**

- Product- and soil cross conveyor with “left/off/right”, as well as infinite speed adjustment via GBT

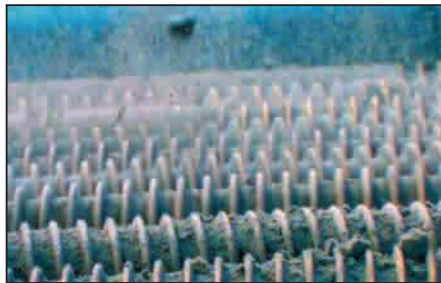
For the comprehensive Grimme equipment range please see pages 11–13.



Your control centre: simple setting of the main functions via GBT – e.g. the hopper floor speed, gap and levelling adjustment of the pre-grading rollers, conveyor speed or the TURBO-CLEAN option



Best separating and grading: up to 14 polyurethane spiral rollers with the optional pre-grading unit – for extremely gentle and effective cleaning. And special: You already have gentle pre-grading.



A clean solution: high speed coil cleaning by centrifugal force TURBO-CLEAN. Maximum speed ensures effective cleaning of the rollers – ideal for sticky soil!

RH-Series	20-45	24-45	20-60	24-60	24-60 XXL
Intake width	300 cm	300 cm	300 cm	300 cm	340 cm
Hopper floor width	200 cm	240 cm	200 cm	240 cm	240 cm
Hopper length	450 cm	450 cm	600 cm	600 cm	600 cm
Soil cleaning width	200 cm	240 cm	200 cm	240 cm	240 cm
Soil cleaning rollers	6	6	6	6	6
Hopper volume	9,5 m <sup>3</sup>	11 m <sup>3</sup>	16 m <sup>3</sup>	19 m <sup>3</sup>	21 m <sup>3</sup>

The different models of the top class



Fast emptying for increased output: The 300 cm wide intake width enables an easy moving at the intake side, and even better at the XXL-version increases the intake width to 340 cm and the hopper volume to 21 m<sup>3</sup>.



OPTIONS

# To make you completely happy: the comprehensive equipment range

11

	BEGINNER CLASS				COMPACT CLASS	TOP CLASS				
	RH 12-40 E	RH 16-40 E	RH 20-45 E	RH 20-60 E	RH 16-40	RH 20-45	RH 24-45	RH 20-60	RH 24-60	RH 24-60-XXL
<b>1</b> Spring loaded intake flap	●	●	●	●	●	●	●	●	●	●
<b>2</b> Big receiving funnel (without hopper retaining wall)	●	●	—	—	●	—	—	—	—	—
<b>3</b> Retaining wall (for big receiving funnel)	●	●	—	—	●	—	—	—	—	—
<b>4</b> CAPACITY-CONTROL (sensor and software)	—	—	—	—	—	●	●	●	●	●
<b>5</b> Two additional pre-cleaning rollers	—	—	●	●	—	●	●	●	●	●
<b>6</b> TURBO-CLEAN	●	●	●	●	●	●	●	●	●	●
<b>7</b> Side cross conveyor	—	—	—	—	—	●	●	●	●	●
<b>8</b> Pre-grading unit	—	—	—	—	—	●	●	●	●	●
<b>9</b> Hydraulic gap and levelling adjustment	—	●	—	—	●	○	○	○	○	○
<b>10</b> Cross conveyor 350 cm (in lieu of 300 cm)	—	—	—	—	—	●	●	●	●	●
<b>11</b> Electrically operated cross conveyor	—	—	—	—	○	○	○	○	○	○
<b>12</b> Flow brake (for cross conveyor)	●	●	●	●	●	●	●	●	●	●
<b>13</b> Gas cylinder operated chute (for cross conveyor)	●	●	●	●	●	●	●	●	●	●
<b>14</b> Onion distributor	—	—	—	—	—	—	●	—	●	●
<b>15</b> FLOW-CONTROL (hard- and software for line control)	—	—	—	—	●	●	●	●	●	●
<b>16</b> AFG-box 220 V (connection for following machines)	—	—	—	—	○	●	●	●	●	●
<b>16</b> AFG-box 400 V (connection for following machines)	—	—	—	—	○	●	●	●	●	●

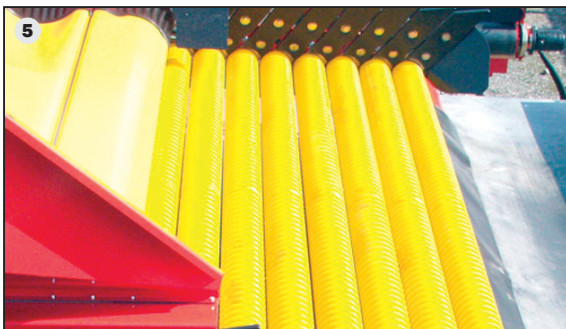
○ Series   ● Option   — Not available



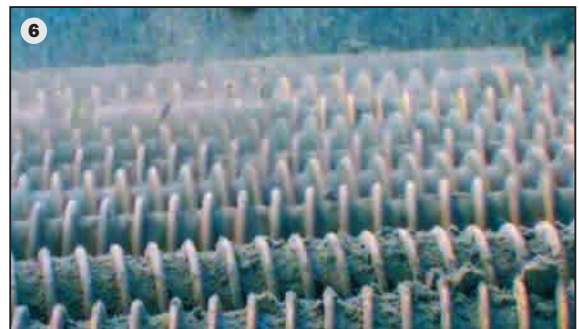
Simple: simple height adjustment to suit different trailers in steps with the spring loaded intake flap



Big advantage: the big receiving funnel (without hopper retaining wall) for the RH 12-40 E or RH 16-40 to extend the hopper volume



Increase your cleaning: two additional pre-cleaning rollers



A clean solution: high speed coil cleaning by centrifugal force TURBO-CLEAN. Maximum speed ensures effective cleaning of the rollers – ideal for sticky soil!



More flexible: hydraulic gap and levelling adjustment for flexible and simple adaptation to suit individual storing conditions



More reach: cross conveyor extension from 300 cm to 350 cm



Less drop: gas cylinder operated chute to reduce the drops dramatically and even more gentle box filling



Onion distributor to loose the crop flow and ensure a gentle transfer onto the following pre-grading unit





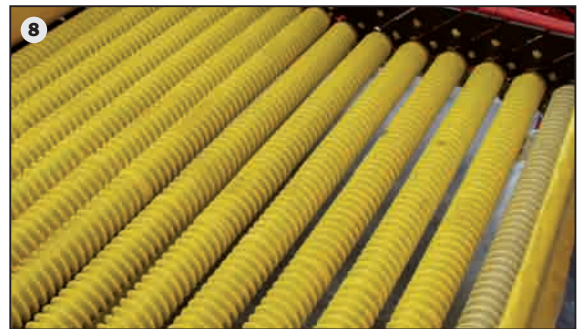
Even flow: The hopper retaining wall ensures even crop flow and a consistent feed to the following machines.



Successful system: CAPACITY-CONTROL-system (option) automatically controls the hopper belt speed and ensures an optimum crop flow through the whole line. You're advantage: even flow without manual changes. Controlled via ultra-sonic sensors



Good separation: special polyurethane pre-grading rollers for high output and gentle pre-grading. Gap adjustment is possible according to the required grading size.



For best separation and grading results: with up to 14 polyurethane pre-grading rollers (7+7 rollers) for an effective and gentle pre-grading as well as high cleaning with highest gentle crop handling also under heavy conditions



Simple solution: electrically operated "left/off/right" flow direction of the cross conveyor – optimum control via operator terminal



Reduced drop: Flow brake reduces the drop speed for gentle delivery into boxes.



Complete control: FLOW-CONTROL (15) enables the operator to start/stop all machines in the handling line via the operator terminal. It is possible to connect all machines to FLOW-CONTROL. – If required it is also possible to connect machines from other manufacturers into the FLOW-CONTROL. If so then an AFG-box (16) is necessary.

### NEW

Doubled success through the whole line: With FLOW-CONTROL-DUO (option) it is for the first time possible to coordinate two crop flows with the GBT. One for storing the crop into boxes and at the same time coordinating the second flow with the main crop to store into the storage hall with a twin-conveyor and store loader.



## Technical data

	RH 12-40 E	RH 16-40 E	RH 20-45 E	RH 20-60 E	RH 16-40	RH 20-45	RH 24-45	RH 20-60	RH 24-60	RH 24-60 XXL
<b>Hopper floor width</b>	140 cm	140 cm	200 cm	200 cm	140 cm	200 cm	240 cm	200 cm	240 cm	240 cm
<b>Hopper length</b>	400 cm	400 cm	450 cm	600 cm	400 cm	450 cm	450 cm	600 cm	600 cm	600 cm
<b>Soil cleaning width</b>	120 cm	160 cm	200 cm	200 cm	160 cm	200 cm	240 cm	200 cm	240 cm	240 cm
<b>Intake width</b>	290 cm	290 cm	300 cm	300 cm	290 cm	300 cm	300 cm	300 cm	300 cm	340 cm
<b>Intake height</b>	85–100 cm	85–100 cm	85–100 cm	85–100 cm	85–100 cm	85–100 cm	85–100 cm	85–100 cm	85–100 cm	85–100 cm
<b>Discharge height:</b>										
<b>Crop cross conveyor</b>	120–135 cm	120–135 cm	125 cm	125 cm	120–135 cm	125 cm	125 cm	125 cm	125 cm	125 cm
<b>Soil cross conveyor</b>	120–135 cm	120–135 cm	120 cm	120 cm	120–135 cm	120 cm (95 with CF)	120 cm (95 with CF)	120 cm (95 with CF)	120 cm (95 with CF)	120 cm (95 with CF)
<b>Soil cross conveyor</b>	65x200 cm*	65x300 cm*	65x300 cm**	65x300 cm**	65x300 cm	65x300 cm**	65x300 cm**	65x300 cm**	65x300 cm**	65x300 cm**
<b>Crop cross conveyor</b>	–	65x300 cm*	65x300 cm	65x300 cm	65x300 cm	65x300 cm	80x300 cm	65x300 cm	80x300 cm	80x300 cm
<b>Pre-grading cross conveyor</b>	–	–	–	–	–	80x300 cm*	80x300 cm*	80x300 cm*	80x300 cm*	80x300 cm*
<b>Hopper volume</b>	4 m <sup>3</sup> /5.5 m <sup>3</sup> *	4 m <sup>3</sup> /5.5 m <sup>3</sup>	9.5 m <sup>3</sup>	16 m <sup>3</sup>	4 m <sup>3</sup> /5.5 m <sup>3</sup> *	9.5 m <sup>3</sup>	11 m <sup>3</sup>	16 m <sup>3</sup>	19 m <sup>3</sup>	21 m <sup>3</sup>
<b>Total length</b>	600 cm	600 cm	580 cm	730 cm	600 cm	680 cm	680 cm	830 cm	830 cm	830 cm
<b>Soil cleaning rollers</b>	6	6	6 (8*)	6 (8*)	6	6 (8*)	6 (8*)	6 (8*)	6 (8*)	6 (8*)
<b>Soil cleaning-/ Pre-grading rollers*</b>	–	–	–	–	–	7+7	7+7	7+7	7+7	7+7
<b>Hopper belt speed</b>	Infinite 0.5–5 m/min	Infinite 0.5–5 m/min	Infinite 0.5–4 m/min	Infinite 0.5–5 m/min	Infinite 0.5–4 m/min	Infinite 0.5–4 m/min	Infinite 0.5–4 m/min	Infinite 0.5–4 m/min	Infinite 0.5–4 m/min	Infinite 0.5–4 m/min

\* Option \*\* Depending on equipment

### Successful storing through the whole line with Grimme



Receiving Hoppers



Single- and Twin-Conveyors



Store Loaders



Combi Unit with integrated picking and separating unit



Box Filler as stand-alone version or module



Web Grader

Your Grimme Partner for advice and service:

**GRIMME**  
HARVESTING SUCCESS!

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