

ROTOMASTER



| UK |

DEUTZ-FAHR
RotoMaster 4014 - 4516 - 5520





LOADED, TO LIFT UP
YOUR PROFIT!



ROTOMASTER 5520 - 5520 D.

Providing a capacity of up to 55m³ and a laden weight of 12.2 tonnes RotoMaster 5520 - 5520 D are rotor loader wagons that brings titanic dimensions to forage harvesting. Offering a full level of standard specifications, the RotoMaster 5520 - 5520 D is the machine of choice for contractors and machinery rings.

- Load Capacity to DIN 11741: 32.4m³- 35.6m³
- Load Capacity, medium compression: 51m³/56m³
- Maximum Weight: 20,000kg
- Maximum Payload: 12,700kg

ROTOMASTER 4516 - 4516 D.

The RotoMaster 4516 - 4516 D has a capacity of 45m³ and a weight of 17 tonnes. It provides efficient pick-up and high quality of cut silage. As the RotoMaster 4014 it is also designed for those with smaller, lower powered tractors.

- Load Capacity to DIN 11741: 26.1/29.4m³ / 29.3/32.6m³
- Load Capacity, medium compression: 41/46m³ / 46/51m³
- Maximum Weight: 17,000kg
- Maximum Payload: 10,300kg

ROTOMASTER 4014 - 4014 D.

The RotoMaster 4014 with a capacity of 40m³ offers maximum efficiency with a lower powered tractor and with a transport height of only 3.3m and a weight of only 14 tonnes it is a very compact loader wagon.

- Load Capacity to DIN 11741: 19,9/22,9m³ - 23,1/26,1/29,2m³
- Load Capacity, medium compression: 34/39/44m³ - 36/41/46m³
- Maximum Weight: 14,000kg
- Maximum Payload: 8,050kg



POWERFUL PICK-UP FOR MAXIMUM CAPACITY.

THE PICK-UP UNIT IS A KEY FEATURE ON THE ROTOMASTER MODELS AND WITHOUT CAM TRACKS, THE INTAKE SYSTEM IS VIRTUALLY A MAINTENANCE-FREE DESIGN.



THE ADVANTAGES

- 2.00m pick-up.
- 1.83m pick-up working width (DIN 11220).
- Six tine bars, each fitted with 16/15 teeth (total of 96/90) and with 55mm tine spacing.
- Pick-up tines arranged in a V-shape pattern for fast and efficient crop transport.
- Roller crop press for even flow of material into the chamber.
- Pivoting pick-up guide wheels.
- Pick-up without cam track for low wear and smooth operation.



The swivelling pick-up guide wheels are equipped with generous floatation tyres. This ensures accurate, close raking performance and guidance of the pick-up.



The roller crop press pre-compresses the crop and helps to even out the flow of material. It provides a uniform flow of crop and reduces the risk of blockages.

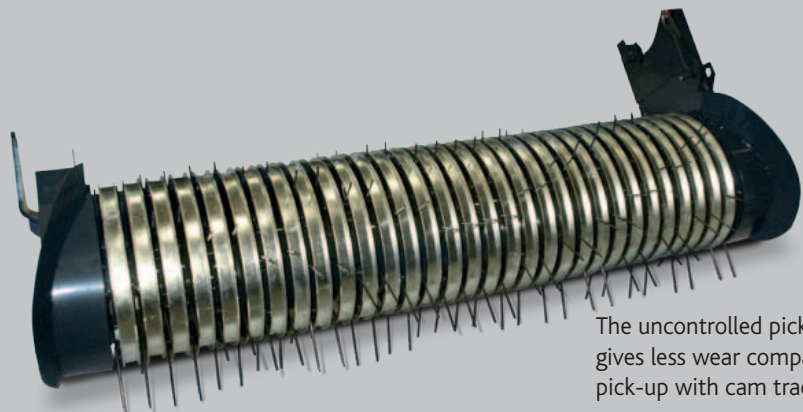
UNCONTROLLED PICK-UP STEERING.

The uncontrolled pick-up unit gives less wear compared to a pick-up with cam track steering. Thanks to uncontrolled tines there are no moving parts and no parts that need greasing. The result is smoother operation with less power requirements, low noise level and a maintenance-free system.

V-SHAPED TINE ARRANGEMENT.

The 2.00m (1.83m) wide pick-up with galvanised scrapers offers high performance with fast and efficient crop transport. Six tine bars with a tine spacing of 55mm give high performance while encouraging fast and efficient crop flow into the chamber. With a total of 96/90 pick-up tines arranged in a special V-shaped pattern every haulm even from the largest swaths is raked up.

The TwinMax intake system uses staggered tines on the pick-up, operating with a roller crop press, to deliver a uniform flow of material across the full width of the chopping rotor. This ensures a consistent, even flow without load peaks.



The uncontrolled pick-up unit gives less wear compared to a pick-up with cam track steering.

TWIN-MAX
SYSTEM



V-Max Rotor.

V-MAX ROTOR FOR EXCELLENT THROUGHPUT.

ROBUST CUT-AND-FEED ROTOR.
The RotoMaster 4014, 4516 and 5520 are equipped with a high capacity intake system for maximum throughput under all conditions. The well-proven and robust cut-and-feed rotor is designed to carry the highest loads. The V-Max rotor is driven by the maintenance-free oil-immersed

gearbox that ensures trouble-free operation of the large 800mm diameter rotor. The nine V-shaped rows of tine of the rotor feature 20mm wide tines that ensure a gentle and efficient flow of material into the chamber.



V-MAX ROTOR.

The V-Max rotor offers a high capacity intake system for maximum throughput in all conditions. The special V-shape of the rotor ensures an even and fast flow of material across the entire rotor width, minimising peak loads and reducing power requirements. The V-Max rotor is utilising the full capacity of the rotor, ensuring continuous cutting performance.

PRECISE AND CLEAN CUT.

The RotoMaster pre-chopping system with 35 knives offers the ultimate solution for short chop with a chop length of 40mm. The 35 knives, positioned in a single row, work efficiently in combination with 20mm wide tines to ensure gentle and accurate cutting performance. Each individual knife is spring protected against foreign obstacles. If an obstacle hits the knife, it will pivot backwards without losing cutting quality. The knife will immediately return to working position once the obstacle has passed.

THE ADVANTAGES

- High capacity V-Max intake with 800mm diameter rotor.
- Special V-shaped rotor for even and fast crop transfer.
- Pre-chopping system with 35 knives.
- Theoretical chopping length of 40mm.
- Knives are easy to change without the need for tools.
- Individual spring protection of the knives.
- Maintenance-free oil-bath gearbox.



The knives are quickly released and changed without the use of tools.



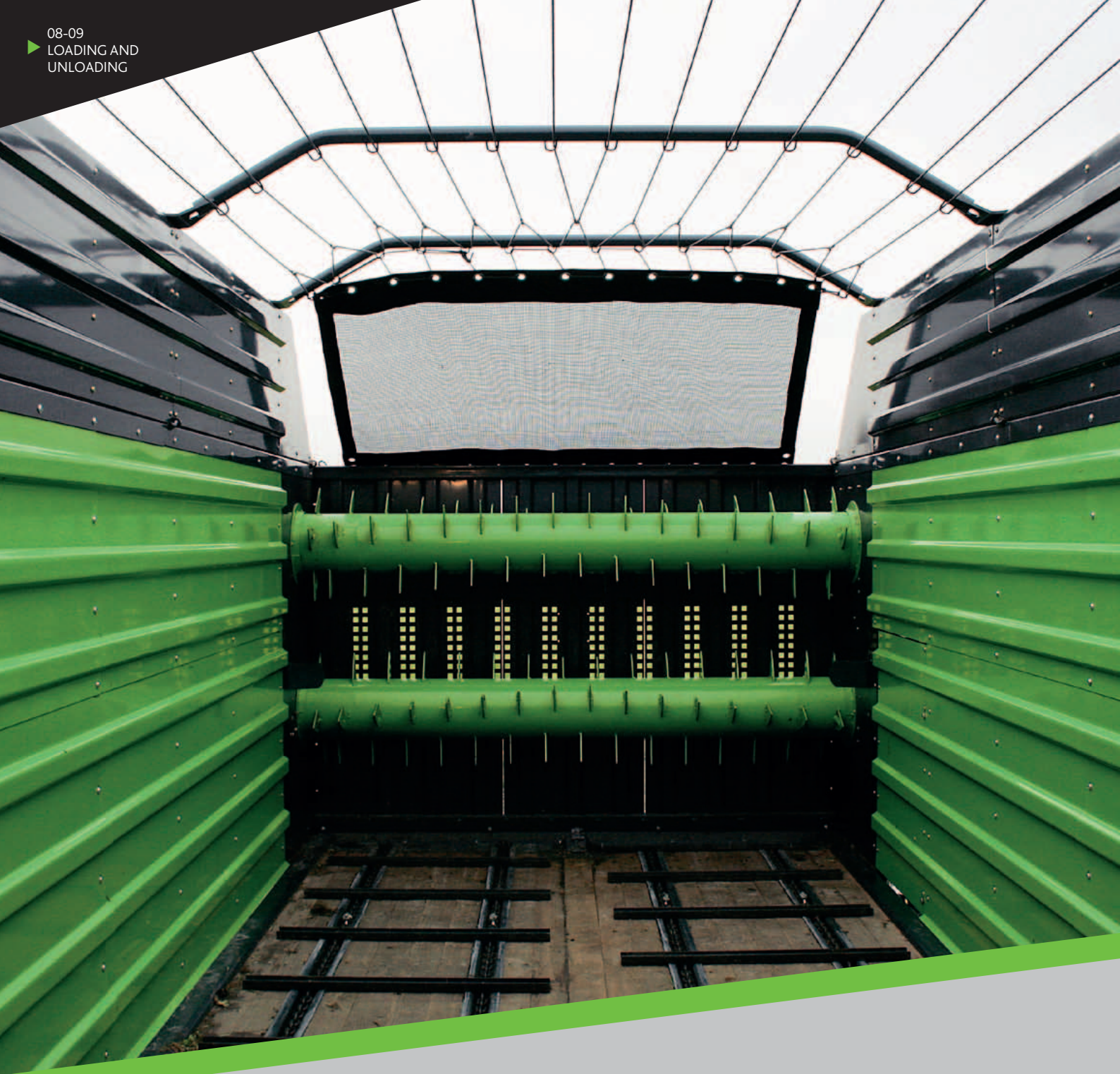
Each knife is spring protected against foreign obstacles.



Each rotor ring consists of 3 bolted segments which can be replaced individually without removing the complete rotor.



The combination of large wheels and hydraulically articulated drawbar allows generous space for inspection of rotor and knives.



LOADING AND UNLOADING.

SUPERSTRUCTURE CHAMBER.

RotoMaster 4014, 4516 and 5520 boast a frame that is made of robust C-profiled 220x100x8mm steel sections (closed on the outside) as well as strong stanchions and vertical steel sides. The vertical side plates move the material to the rear of the chamber, ensuring a full load.

DEFLECTOR PLATE.

Deflector plates are installed in the front loading area to prevent material building up in this area. It is designed to optimize distribution of the crop throughout the entire width and height of the chamber.

CHAIN-AND-SLAT CONVEYOR.

The hydraulic chain-and-slat conveyor is split into two segments and features four robust chains that handle even the heaviest material. The gearbox is positioned in the middle of the two segments, ensuring equal power distribution to both sides and torque split on two shafts instead of one. It is able to smoothly move massive amounts of crop to the rear of the chamber. The scraper floor automatically disengages when the chamber is full. Loading and unloading speed is infinitely adjustable and sensors warn via the control box when the chamber is full.



The sensor controlled tailgate.



The opening angle can be set manually.



The speed of the chain-and-slat conveyor is infinitely adjustable.

FAST AND EFFICIENT UNLOADING.

Thanks to the automatic unloading function unloading is very easy. The speed of the chain-and-slat conveyor is infinitely adjustable to give an even layer of crops into the silo. Via the control terminal it is possible to choose between manually controlled or fully automatic unloading operation.

With the RotoMaster 4014D, 4516D and 5520D you can opt for two large-diameter discharge rollers, which are driven by a maintenance-free driveshaft, to unload the material in a uniform and even mat, reducing the need for evening out the clamp afterwards.

The sensor controlled tailgate is operated hydraulically. The tailgate is mechanically closed and is monitored through two sensors, showing the position on the control terminal. The opening angle can be set manually to ensure even unloading of material with the two discharge rollers.

The interior lighting kit provides generous light into the chamber when working at night.

THE ADVANTAGES

- SuperStructure chamber made from strong C-profiled steel sections.
- Chain-and-slat conveyor with split driveline and gearbox positioned in the middle.
- Conveyor with 4 robust chains designed for even the heaviest material.
- Deflector plates in the front area.
- Opening angle of the tailgate can be set manually.
- RotoMaster 4014D, 4516D and 5520D with two large diameter discharge rollers.



Chain-and-slat conveyor with split driveline and gearbox positioned in the middle.



Strong and straight side walls ensure smooth transfer of crop to the rear of the chamber.



The deflector plates ensure optimum distribution of the crop throughout the entire chamber.



Easy access to the chamber is provided by the access door and ladder.



GEARED FOR TOP PERFORMANCE.

HYDRAULIC ARTICULATION DRAWBAR.

The RotoMaster 4014, 4516 and 5520 offers a ground clearance of more than 70cm when the pick-up is raised. The hydraulically articulated drawbar allows the tractor to climb steep clamps, while the cab-mounted terminal offers operators convenient and safe drawbar control.

The RotoMaster 4014, 4516 and 5520 are available with two different drawbar executions. The pin-hitch drawbar is standard fitted onto the RotoMaster models, offering generous clearance when collecting huge swaths. High drawbar is optional available. The bottom-mounted drawbar puts more loads on the front axles and is able to cope with higher loads.



The RotorMaster models are as optional fitted with hydraulically articulated pin-hitch drawbar.

STRONG AXLES AND RUNNING GEAR.

The strong and stable tandem axles offer smooth operation and are designed for safe and fast transport of the crop to the silo clamp. The tandem axle is rated to a maximum loading of up to 20 tonnes (up to 16 tonnes for RotoMaster 4516 and up to 14 tonnes for RotoMaster 4014).

The standard level of specification comprises a hydraulic brake system and XXL tyres. Pneumatic breaking system is available as option. The large tyre sizes reduce soil compaction when operating in the field.

The RotoMaster 5520 is standard fitted with actively steered wheels, improving manoeuvrability when space is limited. Also it reduces ground damages when turning in the field and tyre wear.

The drawbars are available with different hitching rings.



The bottom-mounted drawbar is available as standard.



The ball heads makes it possible to choose the solution suiting your tractor.



Actively steered wheels for improved manoeuvrability.



Large 600/55 - 22.5 tyres are standard fitted on RotoMaster 5520.



Air brake system for safe transport is available as option.



EVERYTHING UNDER
CONTROL WITH ISOBUS
TERMINALS.



ISOMATCH TELLUS – THE UNIVERSAL ISOBUS TERMINAL

The IsoMatch Tellus is a virtual terminal, offering 2 interface screens in 1 terminal. The large 12" easily programmable touchscreen offers ergonomic use and is designed for long days of operation. Due to the increasing number of functionalities that can be added to a machine such as cameras, the operator can use the loader wagon interface in the top screen and a camera display in the bottom screen, to monitor the unloading process. Another possibility is to use the loader wagon interface in the top screen and the tractor interface screen at the bottom.

The following functions are operated with the IsoMatch Tellus and IsoMatch Tellus GO control terminals:

- Choose between manual/automatic loading function.
- Choose between manual/automatic unloading function.
- Cut and uncut loadings counter per customer/field.
- Service menu to change specifications according to your personal needs.
- Adjustment of chain-and-slat conveyor speed.
- Work light on/off.
- Pick-up up/down.
- Drawbar up/down.
- Tailgate close/open.
- Knives in/out.



ISOBUS - GET CONNECTED.

The RotoMaster models are fully ISOBUS 11783 compliant. This means that they will plug directly into an ISOBUS compatible tractor without the need for a separate terminal. Standardisation of controls and the possibility to operate the functions via tractor joystick easier connection between tractors and implements, together with potential lower machine purchase costs are just some of the benefits that the ISO 11783 standard will bring you.

ISOMATCH TELLUS GO.

The range of Universal ISOBUS Terminals is extended with the new IsoMatch Tellus GO. This new multifunctional one-screen terminal is developed for fast and simple control of any ISOBUS implement, giving the farmer a 'custom made' experience as it suits all needs for plain and efficient handling of farming machinery and tasks.

FIRST STEP INTO PRECISION FARMING.

IsoMatch Tellus GO is the farmers first step into Precision Farming. With the easy to use application, IsoMatch GEOcontrol, it is possible to boost efficiency and save time and costs. The application includes Manual Guidance, Section Control and Variable Rate. Whether it is used with fertiliser spreaders, sprayers or seed drills, Precision Farming is just one click away.



The Focus Control Terminal.



Central drive provides a powerful, yet adjustable moving floor discharge system.



Maintenance-free gearboxes.

EFFICIENT POWER TRANSMISSION.

INCREASED THROUGHPUT REQUIRES A STRONG DRIVELINE.

The RotoMaster models are fitted with a PTO shaft driveline that efficiently transmits the power, even to the very end of the wagon. Together with the maintenance-free gearboxes it reduces power requirements.

Power is evenly distributed throughout the RotoMaster 4014, 4516 and 5520 via a heavy duty gearbox and driveline with a double wide angle PTO and integral cam clutch – all capable of handling up to 1800Nm of torque. This means more output, and better power transmission to the chopping rotor.


| TECHNICAL SPECIFICATIONS | | ROTOMASTER | | | | | |
|---|----------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| | | 4014 | 4014 D | 4516 | 4516 D | 5520 | 5520 D |
| BODY DESIGN | | | | | | | |
| Load capacity to DIN 11741 (average) | m ³ | 23.1/26.1/29.2 (40) | 19.9/22.9/26 (40) | 29.3/32.6 (45) | 26.1/29.4 (45) | 35.6 (55) | 32.4 (55) |
| PICK-UP / DRAWBAR | | | | | | | |
| Pick-up total width / work width | m | 2.00/1.83 | 2.00/1.83 | 2.10/1.95 | 2.10/1.95 | 2.10/1.95 | 2.10/1.95 |
| Tine rows / tine spacing | no./mm | 6/55 | 6/55 | 6/55 | 6/55 | 6/55 | 6/55 |
| Drawbar load rating | kg | 3.000 ● / 2.000 ○ | 3.000 ● / 2.000 ○ | 3.000 ● / 2.000 ○ | 3.000 ● / 2.000 ○ | 3.000 ● / 2.000 ○ | 3.000 ● / 2.000 ○ |
| Drawbar suspension | | ○ | ○ | ○ | ○ | ● | ● |
| Pick-up / art. drawbar ground clearance | mm | 300/700 | 300/700 | 300/700 | 300/700 | 300/700 | 300/700 |
| ROTOR / CUTTING SYSTEM | | | | | | | |
| Rotor width (tine to tine / full width) | m | 1.42/1.50 | 1.42/1.50 | 1.42/1.50 | 1.42/1.50 | 1.42/1.50 | 1.42/1.50 |
| Rotor diameter | mm | 800 | 800 | 800 | 800 | 800 | 800 |
| Rotor tine rows in chevron formation | no. | 9 | 9 | 9 | 9 | 9 | 9 |
| No. of knives on cutting system | | 35 | 35 | 35 | 35 | 35 | 35 |
| Theoretical chop length | mm | 40 | 40 | 40 | 40 | 40 | 40 |
| SPECIFICATION | | | | | | | |
| Drawbar / option | | Low ● / high ○ | Low ● / high ○ | Low ● / high ○ | Low ● / high ○ | Low ● / high ○ | Low ● / high ○ |
| Feed rollers | | - | 2 serial | - | 2 serial | - | 2 serial |
| Tellus Go operator box / Tellus operator box | | ○/○ | ○/○ | ○/○ | ○/○ | ○/○ | ○/○ |
| WEIGHTS | | | | | | | |
| Kerb weight | kg | 5,950 | 6,350 | 6,700 | 7,200 | 7,300 | 7,800 |
| Kerb payload | kg | 8,050 | 7,650 | 10,300 | 9,800 | 12,700 | 12,200 |
| Gross vehicle weight rating | kg | 14,000 | 14,000 | 17,000 | 17,000 | 20,000 | 20,000 |
| AXLE AGGREGATE | | | | | | | |
| Tandem axles with caster axle | | - | - | ○ | ○ | ● | ● |
| Tyres (standard) | | 500/50-17 | 500/50-17 | 550/60-22.5 | 550/60-22.5 | 600/55-22.5 | 600/55-22.5 |
| Maximum speed | km/h | 40 | 40 | 40 | 40 | 40 | 40 |
| DIMENSIONS | | | | | | | |
| Length / width | m | 8.13/2.55 | 8.63/2.55 | 8.82/2.55 | 8.82/2.55 | 9.50/2.55 | 9.50/2.55 |
| Height (standard tyres fitted) | m | 3.23/3.48/3.75 | 3.23/3.48/3.75 | 3.68 | 3.68 | 3.93 | 3.93 |
| Platform height | m | 1.28 | 1.28 | 1.57 | 1.57 | 1.64 | 1.64 |
| Body height / length / width | m | 1.95/2.20/2.47 x5.45x2.18 | 1.95/2.20/2.47 x5.45x2.18 | 2.30/6.10/2.18 | 2.30/5.70/2.18 | 2.30/6.89/2.18 | 2.30/6.49/2.18 |
| Tractor power | kW/hp | 66/90 | 66 (90) | 89/120 | 89/120 | 111/150 | 111/150 |
| Chain-and-slat conveyor / automatic loading system | | 4 chains, 10mm, 10 t breaking load | 4 chains, 10mm, 10 t breaking load | 4 chains, 10mm, 10 t breaking load | 4 chains, 10mm, 10 t breaking load | 4 chains, 10mm, 10 t breaking load | 4 chains, 10mm, 10 t breaking load |
| * Minimum requirement on weight of tractor. ● = Standard ○ = Option - = Not available | | | | | | | |

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