



Three-way tipper
HKD 302 / TKD 302





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Proven thousands of times.

Modern chassis technology means it feels like you are driving on rails.

The 18 tonne articulated train has established itself in agricultural use as the most economic and flexible transport combination. As harvesting machines become more and more powerful, larger and larger transport capacities are needed. At the same time, high transport speed must be guaranteed and both the tractor unit and the trailer must meet the same standards. We recognised this trend early and specialised on high-speed technology completely as one of the first providers in the industry. When hitched up, the *agroliner* has particularly stable tracking characteristics which provide the driver with a large degree of security and trust.



The central axle trailer – the mobile alternative

Here the transfer of the drawbar load to the tractor unit has a positive effect on drive stability and traction as opposed to with swivel head steered trailers. This applies in particular to pairs with a centre pivot trailers. Good handling when manoeuvring in solo mode and high stability when tipping are among its particular strengths.

In addition, a great advantage is offered with the height-adjustable and shock absorbing draw gear. Here the vehicle can be attached to any tractor unit and both trailer hitch and frame are protected at the same time. For the central axle trailer a bogie axle (up to 60 km/h) and steering axles are available instead of the standard parabolic suspension unit.

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The three-way tipping system – maximum power with highest stability.

The matched balance between the stable chassis and the optimally calculated tipping points ensure that you have the best possible tipping stability. The overload protection for the parabolic spring suspension on the rear axle offers additional safety if the load slides out poorly or on one side when tipping to the rear. The tipping system has a cardanic mounted telescopic cylinder with plenty of redundant performance. When tipping to the rear, a tipping angle of 45° can be achieved. Dampeners absorb unwanted impacts and noise from the tipping bridge during travel and protect the whole vehicle frame.

Long-lasting quality thanks to high-grade components

Transport speeds from 40 to 80 km/h and a forecast usage life of over 25 years can only be guaranteed using first-class components. Our experience gained over decades has taught us that we can only meet these demands by using high-quality components to construct our vehicles.

With targeted use of high-strength steels, we have managed to significantly reduce the empty weight. The vehicle, however, does not lose anything in terms of its stability. Ask our specialist advisers about the possible concepts – and bid farewell to high maintenance costs!

Best quality. And that across the range.

The ladder

is ergonomically designed and, thanks to its generous catwalk and accident protection bar, offers a high level of safety. The ability to easily climb up and down simplifies checks on the loading procedure and also operating the roller tarpaulin. Folding steps mean that it is possible to climb into the load space.



Underride protection and the towing hitch

Lights and number plate are protected and integrated into the underride protection. The coupling heads to connect a second trailer are ergonomically fitted to one side.





Superstructure additional equipment

The drop chute is an effective aid for the gentle loading of potatoes. The length of the drop and the pressure on impact are effectively reduced.



Automatic tailgate is opened by a mechanical forced unlocking system when the rear tipping procedure is initiated. The raised and forward-tilting swivel bearings ensure that the tailgate fully mates with the corner rails when the tipping bridge is lowered so that the locking process can be completed correctly.



The side panel system with special aluminium design and stable, swappable rubber seals, guarantees a superstructure which is absolutely sealed against rape seed and easy to open board walls. This solution was designed in-house and has revolutionised side panel systems. Many different versions of the board walls are available, whether divided or not divided, with or without a centre post, with weather-proof multilayer boards (with a protective UV film on the outside), plastic boards or aluminium profiled boards.



Removable **rear tipping bridge extension** over the whole vehicle width.



The Remote unlocking allows for the lower locking device to be opened from the tractor cab.



Smart Lock With our patented hydraulic board wall locking system, the side tipping process can be handled completely from the tractor cab. With the purely mechanical alternative solution, the centre locks for horizontal undivided board walls are automatically locked or unlocked, respectively. This provides gains in safety, time, and comfort.



In detail.

Continuous swivel side panel without a centre post.



The discharge chute with slide gate The large slide gates can be easily operated. As an option, up to three slide gates can be supplied.



The split board wall give more ground clearance when tipping and reduce the load's surge pressure.



The portal function As the first in the industry, we provide our customers with a board wall portal function for easy loading of pallets or other bulky goods (available for the rear and also the side board walls). Naturally, the swivel function of the board walls remains. Handling is safer and even more user-friendly.



The overhead loading side panels To effectively reduce the height potatoes fall when being overhead loaded, we have developed a special side panel system. They are secured using two long-lever locks and can be easily and quickly folded up and locked using a hand-pump or the tractor unit's hydraulics.



The foldable centre post With single-lever operation, the centre post can be unlocked and then easily folded down and removed.



The overhead loading screw



Individually configured.



Chassis additional equipment

Underride protection made of round pipe with raised lighting units. Gives you the benefit of less accumulation of dirt, more ground clearance and protects the lighting units.



The Y-drawbar for a tighter steering angle, optionally length adjustable.



Special paint jobs and advertising markings are something we would be happy to provide.



The plastic mudguards



Tyres

Protect the ground thanks to low-pressure tyres. Select from a wide range of diagonal or radial tyres.



The all-round service which impresses.

Our 100 % service package covers the complete service spectrum of maintenance, servicing and repair. We are available 24 hours a day as your reliable partner. Our mobile customer service is there for you when and wherever you need our support. Being frame alignment systems, vehicle measurements or brake testing rigs: you get everything from one source with us. We are also able to

assist with repairs to other manufacturer's equipment if desired. In summary, we are your partner for every event!



agroliner for special demands.

Steel side panels with rubber seals are available in our special models with a total weight of 14 to 18 tonnes.



HKD 250 – 16 tonnes total permissible weight (these tippers are also still available with 14 tonnes total permissible weight – similar appearance to HKD 250).



HKD 290 – 18 tonnes total permissible weight

You want to use your vehicle for particularly special tasks, too? Tell us your requirements and our experienced designers will work out practical suggestions for you. There is a suitable solution for nearly every transport problem.

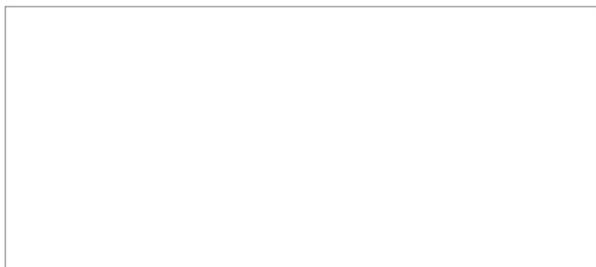
Our route to you.

Your **agroliner** will be delivered on a special vehicle – spotless and ready for use immediately. Let us convince you of our services. We would be delighted to welcome you in Rechterfeld and to provide you with information on site.



Commercial vehicles one can rely on.

Authorised specialist dealer



For technical data and the details of the standard and optional equipment, please refer to our current price list. All figures show vehicles with optional equipment. We are constantly developing and improving our products for the benefit of our customers. We therefore reserve the right to make modifications to the design during production runs without prior notice.
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