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Press release from March 13, 2025

Robust lightweight with high payload

In the tipper segment, what counts most is a high payload with a low unladen weight, and Fliegl can deliver: the ZHKS 350 Stone Master two-axle tipper semi-trailer with steel body offers a payload of 26,772 kilograms with a volume of 27 cubic meters.

With an unladen weight of 5,228 kilograms, the ZHKS saves on empty runs on the way back from a construction site. It makes no difference whether the trailer is to be coupled to a two-axle or three-axle tractor unit, as Fliegl installs a horizontally adjustable kingpin mount.

Trough and rear panel

The side sections of the payload-optimized round body are made of 4 millimetre thick wear-resistant steel; the floor is 4 millimetres thick in the front area and 5 millimetres thick in the more heavily loaded dumping zone. Thanks to its conical shape - the Greenline body is 8 centimetres wider at the rear than at the front - no load gets stuck. This is also ensured by the absolutely smooth surface without stops in the rear area. Thanks to the heat-resistant rubber seal, the membrane flap is virtually watertight, ideal for damp bulk goods. The tailgate can be opened hydraulically and has a particularly large opening at the top; a grain pusher has also been fitted in the middle.

Axles

If the tractor's drive axle loses traction on wet, muddy construction sites, the starting aid comes into play: the first axle is designed as a lift axle, which can be raised up to 30 percent above the axle load. From a speed of 25 km/h, the axle automatically lowers again. The ZHKS 350 rolls on SAF off-road disc brake axles, which are laser-measured and perfectly adjusted at the factory. This ensures low rolling resistance, low fuel consumption and less tire wear. The aluminum rims contribute to the low unladen weight.

Swivel and folding standing platform

Manually opening and closing a roller tarpaulin is inconvenient, and climbing up with a ladder can be dangerous. There is always a risk of falling and injury, and not just in wet and snowy conditions. Fliegl has therefore developed the swivel and

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S.T.E.P. platform, which makes access to the skip easier and much safer.

Unlike an attached ladder, the platform cannot slip, and the treads are covered with non-slip checker plate - guaranteeing grip even in wet, icy and snowy conditions. The special shape and fastening ensure easy access to the supply connections from both sides; the platform can be mounted on the left or right. It only weighs around 60 kilograms more than a standard standing platform and roller tarpaulin, but offers a big plus in work safety and easy handling.

Electric soft top

The electric fliptop sliding tarpaulin also scores with clever details: the guide rail is 1 meter longer than that of similar tarpaulins, which ensures greater stability; in addition, there is only one steel cable or guide roller for operation - this prevents the tarpaulin from running askew and getting caught. Thanks to the electric drive and radio remote control, there is no need for tedious manual opening and closing. What's more, the air resistance is reduced when the tarpaulin is closed and the airstream can no longer catch on the rear wall flap when the body is empty - which also saves fuel.

Useful details

Like every Fliegl vehicle, the ZHKS 350 StoneMaster also offers well thought-out details, which above all ensure the durability of the tipper semi-trailer: The upper belt, for example, is manufactured to be particularly robust, so if the excavator or wheel loader does hit something when loading, the skip remains in shape - expensive repairs are no longer necessary.

The underride guard folds in pneumatically at the touch of a button. The tipping joint of the skip is lubricated ex works with copper paste, which adheres much longer than conventional grease. All supply connections as well as the bucket and brush are easily accessible at the front of the vehicle. After unhitching, standard cross struts on the 24-ton two-speed support winch ensure stability. Until the next job, the hydraulic hose is parked in its holder and does not lie on the ground - this keeps the coupling clean.

Security

Good lighting for greater safety, and not just in the darker months of the year. Two protected LED headlights at the rear of the rear working area; the multi-chamber rear lights with dynamic indicators,

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Side marker lights as well as position and lane departure lights are also fitted as LED versions. The aluminum hook-on ladder with "safety plus" also ensures greater work safety. The tire pressure monitoring system in accordance with ECE R 141 supplies the tire pressure to a display in the cab.

Longevity

Fliegl offers a 10-year guarantee against rusting through on the painted frame. The arms of the air suspension mounts also last longer than those of other manufacturers. They are located at the lowest point of the vehicle and are constantly exposed to dirt and moisture. Fliegl is therefore the only manufacturer to galvanize the air suspension arms and also offers a 10-year anti-rust guarantee.

The most important facts at a glance

Two-axle rear tipping semi-trailer with steel body, type
ZHKS 350 StoneMaster Greenline

- Permissible payload: 26,772 kg, unladen weight: 5,228 kg
- 27 cubic meters loading volume
- Conical round steel trough, only 1,600 millimetres high
- 1st axle as lift axle with starting aid
- Pneumatic underride guard
- Swivel and folding standing platform for greater safety
- Hydraulic tailgate, with grain pusher
- Flip Top sliding roof, electrically operated by remote control
- Adjustable Kingpin holder, for two or three-axle tractors
- Galvanized air spring mounts with 10-year anti-rust guarantee

Fliegl exclusive: Every single axle of every trailer is precisely adjusted in the factory using a modern laser measuring system. As a result, the trailers run with absolute tracking accuracy, have no more unnecessary tire wear and offer lower fuel consumption. Trailer efficiency defined by Fliegl. From the roof to the wheels: Vehicle concepts thought through to the end.

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INNOVATING FOR YOU - More than just a slogan

The company was in 1991 by Helmut Fliegl in Triptis/Thuringia. On the site of a former agricultural repair plant for axles and steering systems, one of the largest series manufacturers of commercial vehicles in Europe has since developed. With the opening of "Plant II" in 2005, one of the most modern production facilities for curtainsider semi-trailers, container chassis and tipper semi-trailers was into service. The product capacity in Plant II - combined with extremely short production times - guarantees that Fliegl can successfully market its products throughout Europe as a high-volume manufacturer. At the same time, the modern production facilities in "Plant I" ensure that special vehicle construction or custom-made products can continue to be manufactured reliably. The entire company is based on a sustainable product philosophy. Electricity is generated via photovoltaics and a combined heat and power plant, with any surplus being fed into the public grid. Thanks to these and many other measures - energy efficiency in the paint shop, complete LED lighting, use of recuperation in the high-bay warehouse - the company was awarded the German Sustainability Award in 2016. The complete range of Fliegl Fahrzeugbau GmbH is available online around the clock at www.fliegl-trailer.de.