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Press release 08 September 2023

Lightweight tipper trailers with high payloads

Empty runs cannot always be avoided with tipper trailers in the construction industry, which is why a low empty weight is crucial in addition to a high payload. With only 5.5 tonnes in the basic version, the Fliegl three-axle **StoneMaster** with steel body Light Basic is a real lightweight. The Baustoffhandel Dresden Mitte recently added two of these tipper trailers to its fleet. Fleet manager Heiko Höntsch reports: "We only transport bulk goods such as sand, gravel and earth. A robust steel trough was therefore a important, but the vehicle should still be light, of course."



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The side panels of the payload-optimised 24.5 m³ round body are made of 4 millimetre thick wear-resistant steel; the floor is 4 millimetres thick at the front and 5 millimetres thick in the higher-load dumping zone. Thanks to the **conical shape**, the trough is 80 millimetres 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 double hook lock and two additional clamping screws with toggle locks, the curved **membrane flap** is almost completely tight even without an additional seal; moist bulk material remains in the trough. The **double-jointed hinge** offers a very large opening angle, which facilitates tipping.

The Greenline *version* is also particularly efficient: with a height of only 1.45 metres, the body is lower than the cab, which ensures low air resistance, as do the lightweight aluminium rims and the lightweight frame with patented *curved front end*.



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All supply connections as well as shovel and broom are easily accessible at the front of the vehicle. Until the next use, the hydraulic hose is parked in its holder and does not lie on the ground - this keeps the coupling clean. When loading from the side with the wheel loader, bulk material always goes astray, but thanks to the integrated and stone-repellent mudguards, it falls immediately to the ground and is not transported onto the road.

Only available for a few months, the swivelling standing platform has become **S.T.E.P.** including fold-out ladder already established with customers. Manually opening and closing a roll-up tarpaulin is inconvenient, and climbing up with a ladder can be dangerous. That's why fleet manager Höntsch wanted the standing platform on the new trailers as well; some existing vehicles are already equipped with it. Unlike a ladder, the platform cannot slip away and can be folded out without much effort. The steps are covered with non-slip chequer plate, which ensures safety even when wet. Thanks to galvanisation, it is optimally protected against rust and will last the life of the trailer. for more safety and comfort. In addition to the standing platform, Heiko Höntsch also opted for the electric **flip-top sliding roof**. It convinces with clever details: the guide rail is 1000 millimetres longer than in similar canopies, which ensures more stability; in addition, there is only one steel cable or guide roller for operation - this prevents the canopy from running crooked and getting caught. The canopy can be easily opened and closed by radio remote control.

The SAF disc brake axles in off-road design are laser-measured and optimally adjusted, which reduces rolling resistance and contributes to low consumption. In addition, the first axle of the three-axle trailer can be raised, which means that 2.8 tonnes of the trailer's weight are transferred to the fifth wheel when it is tipped, thus ensuring more stability. When moving off with a load, as much as 6.7 tonnes press on the drive axle - resulting in more traction on loose ground. From a speed of 25 km/h, the axle automatically lowers again.

The two new trailers will cover around 120,000 kilometres per year, mainly in Saxony. Fliegl offers **10-year warranty**

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against rusting through of the frame. The same applies to the arms of the air spring mounts, which are located at the lowest point and are permanently exposed to dirt and moisture. **Fliegl is therefore the only manufacturer to galvanise the air suspension arms and also offers a 10-year anti-rust guarantee for them.**

The most important things at a glance:

Three-axle rear tipping semi-trailer **StoneMaster** with steel body Light Basic, type DHKS 390 **StoneMaster light**

- **Unladen weight: 5.5 t** in the basic version
- Payload technical / perm.: 33,500 kilograms / 29,500 kilograms
- 24.5 cubic metres load volume
- **Conical**, aerodynamic round trough, only 1.45 metres high
- Swivelling standing platform **S.T.E.P.** with foldable ladder; electrical **Flip-top sliding roof** with radio remote control
- **Membrane tailgate with double-joint hinge**
- **10-year warranty** against rusting through of the frame; also for air suspension mounts thanks to hot-dip galvanising

INNOVATING FOR YOU - More than just a slogan

The company was founded 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. In 2005, with the opening of "Plant II", one of the most modern production facilities for curtainsider semi-trailers, container chassis and tipper trailers was put into service. The product capacity in Plant II - in combination with extremely short production times - guarantees that Fliegl, as a large-scale manufacturer, can successfully market its products throughout Europe. At the same time, the modern production facilities in "Plant I" ensure that special vehicle construction or order-related customised products 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, and the surplus is 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 already awarded the German Sustainability Award in 2016. The complete range of products and services of Fliegl Fahrzeugbau GmbH is available around the clock online at www.fliegl-trailer.de.

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