

Dump-body concept

Thanks to the elaborate overall design concept of their dump bodies, Carnehl has become one of the largest manufacturers of half-pipe bodies in Europe. Several thousand vehicles are built every year at the two plants in Pattensen and Wittstock.

Carnehl vehicles are exported into more than 25 countries across Europe and parts of Asia.



Insulated half-pipe dump body

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Further examples from our product portfolio:



Container chassis with double telescope



Building-material semitrailer with roller crane



Carnehl all-aluminium moving-floor



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www.carnehl.eu



Half-pipe bodies

Features and customer benefits



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Vehicles - cranes
Trailers of any type
Dump, tipper and box bodies
Special-purpose vehicles - tail lifts
Repairs - brakes service - frame-straightening

Dump-body concept

Carnehl half-pipe dump bodies are made of highly wear-resistant **HARDOX** steel. This material is extremely robust, **keeping the tare weight low**.

Aluminium half-pipe bodies are available for tasks that require **maximum payloads**.



Folded half-pipe sections

All dump bodies are made of two halves with multiple folds. The halves are joined by **one continuous longitudinal weld seam**. This ensures ultimate body stability and **optimal discharging**. Even sticky material exits the body smoothly, accurately and safely without sticking.

Membrane effect

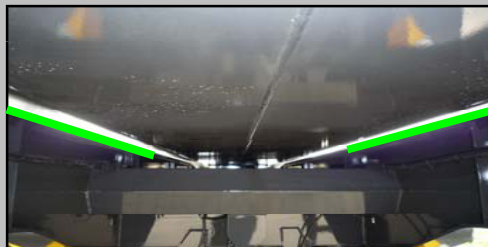
The dump bodies are connected to the chassis at **three elevated points** at the bulkhead and the tipping shaft only. This creates an **air gap** of approx. 15 mm between the body and the rubber pads on the longitudinal members, allowing the body to absorb load impacts elastically like a membrane. Body and chassis are well protected. Also, this **membrane effect** largely prevents critical loads such as clay or damp sand from sticking to the body interior.

Half-pipe dump bodies



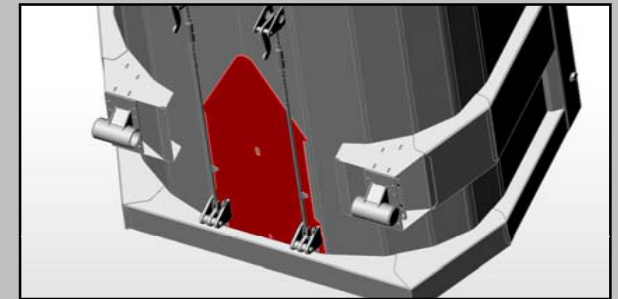
Body-specific chassis frame

Being adjusted to the body's geometry, the top rails of the chassis are welded at an angle. This design provides the **lateral support of the body over its entire length and a low centre of gravity**. Driving characteristics are optimal, and tipping stability is very high.



Reinforcement panels

Carnehl half-pipe dump bodies made of steel or aluminium are reinforced by exterior panels in the rear discharge area. This increases the **material thickness of the body** in this area.



Hydraulic tailgate

Bodies with a standard wall height of 1.46 m are available with a hydraulic tailgate that **swings upward automatically to provide an internal opening height of 2.10 m**. This allows the load to exit without restrictions and without causing damage to the tailgate. **A second pivoting point** allows the tailgate to **swing freely**, avoiding damage caused by the load when the vehicle is moved forward, for example when discharging asphalt into a spreader. For transporting mixed loads, the **hydraulic opening system can be disabled by an optional cut-out device**. In this case the tailgate functions like any standard top-hinged gate.

