

SERVICE & RENT

Due to the use of components of renowned commercial vehicle manufacturers we guarantee a worldwide availability of spare parts. In case of emergencies you will get quick support by Unsinn worldwide. If necessary you will be assisted by skilled drivers with a proving ground driver's licence.

We are pleased to also provide you with Unsinn braking trailers on a rental basis.



QUALITIES - WHY UNSINN?

The unique and very innovative braking system of the Unsinn UNBRAKE braking trailer creates car-like lags. Thereby the trailer is neutral at all times. Combined with the serial ABS/EBS this is an absolute increase in safety.

Unsinn used all its 60-year-long experience for the development of the frame and the chassis. Laser-cut frame components and components of renowned German commercial vehicle manufacturers ensure the usual quality, highest stiffness and robustness of the Unsinn braking trailers. The specially adapted size of the tyres as well as the common tyre equipment are crucial for the excellent road position and grip of the trailer.

Furthermore the safety clutch ensures safe and stable driving characteristics of the UNBRAKE even in extreme conditions. The well structured accessory box includes all necessary components for daily use.

UNSINN - YOUR PARTNER IN TRAILER CONSTRUCTION FOR OVER 60 YEARS!

Modes of operation	Force control, speed control, mountain profiles
Operation	Tablet
Signal transmission	Wireless network, LAN
Tested for	Passenger cars, lighter to heavier commercial vehicles
Traction	8 – 15 kN
Power range	125 – 300 kW
Speed	Up to 160 km/h



UNSINN Fahrzeugtechnik GmbH
Rainer Straße 23
86684 Holzheim


Tel.: +49 8276 5890-0
info@unsinn.de
www.unsinn.com





TESTED SUCCESS!

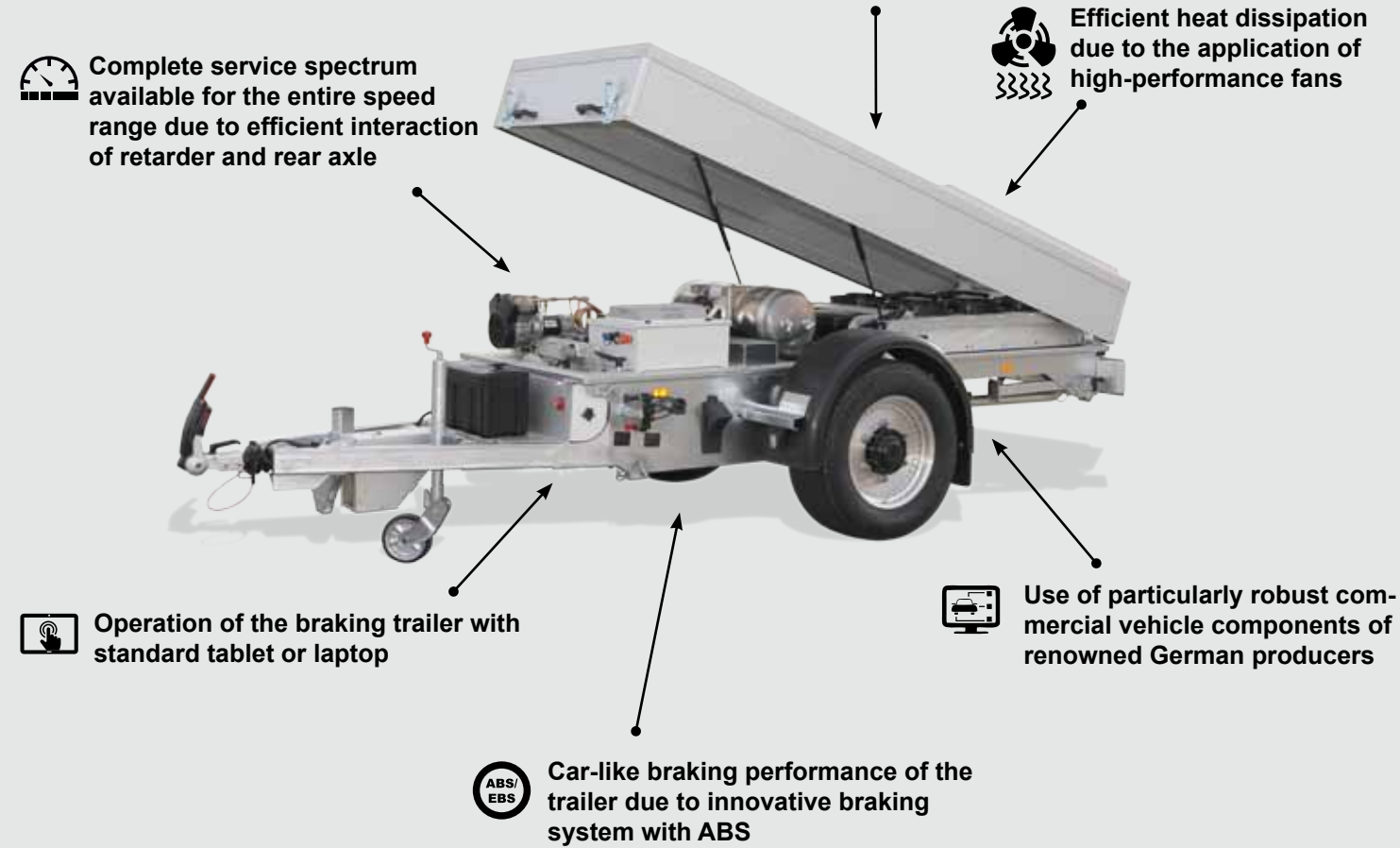
BENEFITS AT A GLANCE

-  Permanently applicable even at high ambient temperatures due to water cooling
-  Best possible customer support worldwide and short response times thanks to optimisation of the test processes, customer individual solutions or the braking trailer with driver

 Customer specific modifications at single software modules of the test software are quickly feasible due to internal development

 Complete service spectrum available for the entire speed range due to efficient interaction of retarder and rear axle

 Efficient heat dissipation due to the application of high-performance fans



FIELDS OF APPLICATION OF THE BRAKING TRAILER

Braking trailers are applied for testing motor vehicles and prototypes to simulate driving resistance, as for example at tours in mountainous regions or with varying trailer loads.

Following tests can be realised with the Unsinn braking trailer:

- examination of the cooling system
- assessment of the thermal resilience of the interior of the engine
- interpretation of the passenger compartment air conditioning
- application of engine control and transmission control
- complete vehicle testing for all components

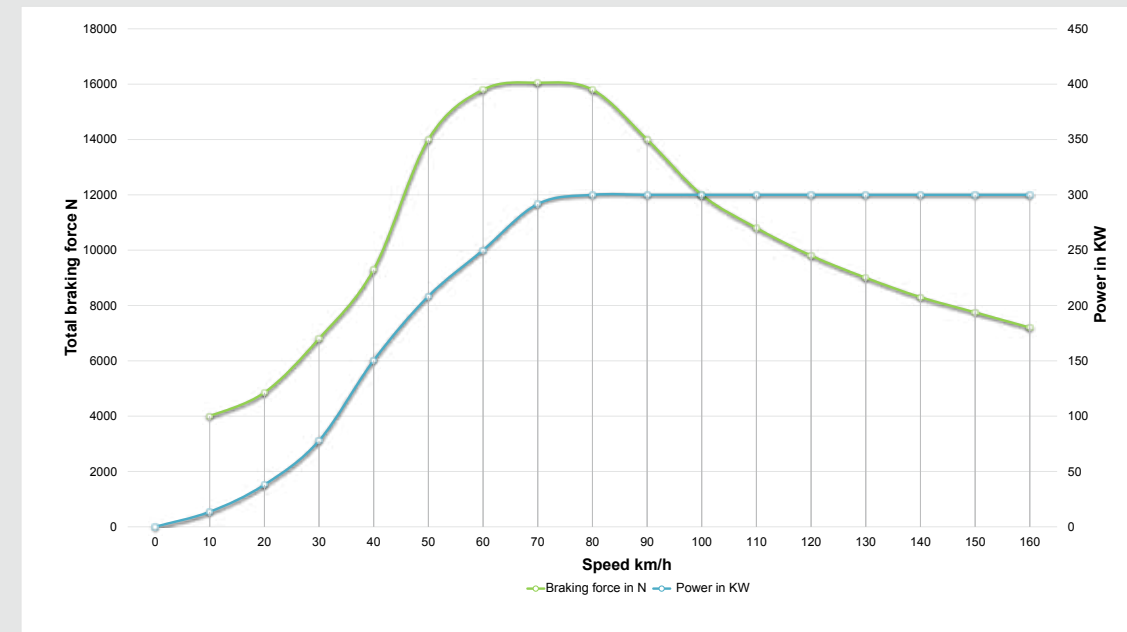
 **UNBRAKE**
braking trailer





FUNCTION OF THE UNSINN BRAKING TRAILER UNBRAKE

To create defined brake forces for motor vehicles the Unsinn braking trailer is equipped with a digitally controlled endurance braking system with water cooling. Thanks to this water cooling a permanent application of the UNBRAKE braking trailer is ensured even at full braking power and high ambient temperatures. Due to the efficient interaction of retarder and rear axle the complete service spectrum is available for the entire speed range.



The Unsinn braking trailer has maximum traction of 8 kN to 15 kN and a power range of 125 kW to 300 kW at a maximum speed of 160 km/h.

The regulation of the system by temperature and speed prevents overheating and therefore a failure of the system. The resulting heat in the UNBRAKE is discharged downwards thanks to high-performance fans and thus can be used to dry the possibly wet test track.

DEVELOPMENT

Not only the development of the entire braking trailer, but also the applied software for the regulation of the hydraulic retarder took place on the Unsinn premises. Thus Unsinn can flexibly respond to your requests and individually adapt the software modules.

Interfaces at the Unsinn board computer enable the feeding with specific application data and your requests. In addition to that a simple operation of the braking trailer with a tablet, laptop or even smartphone is ensured thanks to the created interface. For a quick adjustment of the motor speed of the test vehicle and trailer it is displayed on the UNBRAKE device (for the operation of the braking trailer).

Worldwide tracking as well as the recording of trip data simplify research in case of need (observation of latest operation site). Diagnostic possibilities with certified mobile data systems ensure worldwide service.

