



# MÜHLHÄUSER

your partner under ground



## Rolling Stock

Karl-H. Mühlhäuser GmbH & Co. KG

In den Dorfwiesen 23  
64720 Michelstadt/Germany

Phone +49 6061 7009 0

Fax +49 6061 7009 70

e-mail: [sales@khmte.com](mailto:sales@khmte.com)

[www.khmte.com](http://www.khmte.com)

MÜHLHÄUSER has pioneered rail-bound underground logistics and is the global leader in this field.

Different requirements and application areas ask for individual solutions. The MÜHLHÄUSER Rolling Stock program has a solution for all your needs and offers a complete range of products.

MÜHLHÄUSER Rolling Stock is splitted in three segments:

**Disposal**

...with different types and sizes of muck cars with various discharging methods

**Supply**

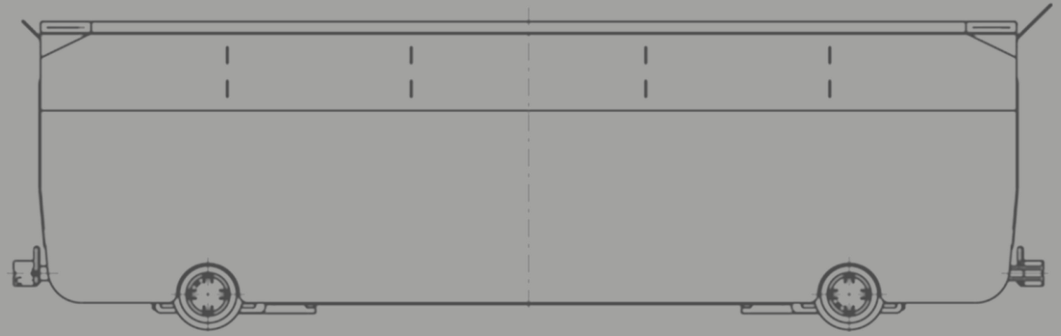
...a comprehensive range of concrete remixer, mortar and silo cars

**Service**

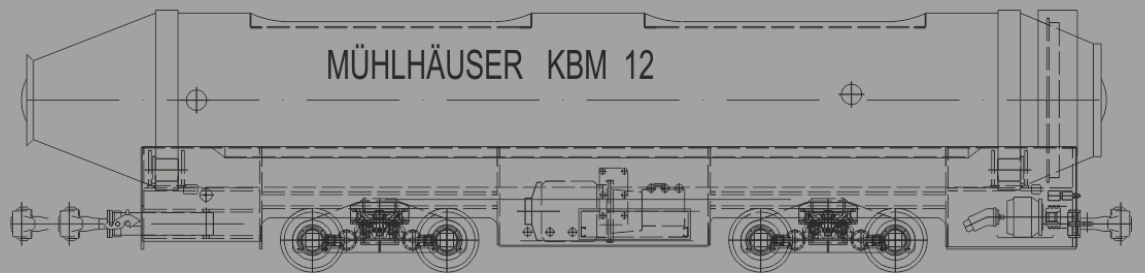
...a complete program for all types of transport with menriders and special cars such as cranes cars or emergency cars.

Discover the world of MÜHLHÄUSER which has shaped rail-bound logistics for more than 100 years.

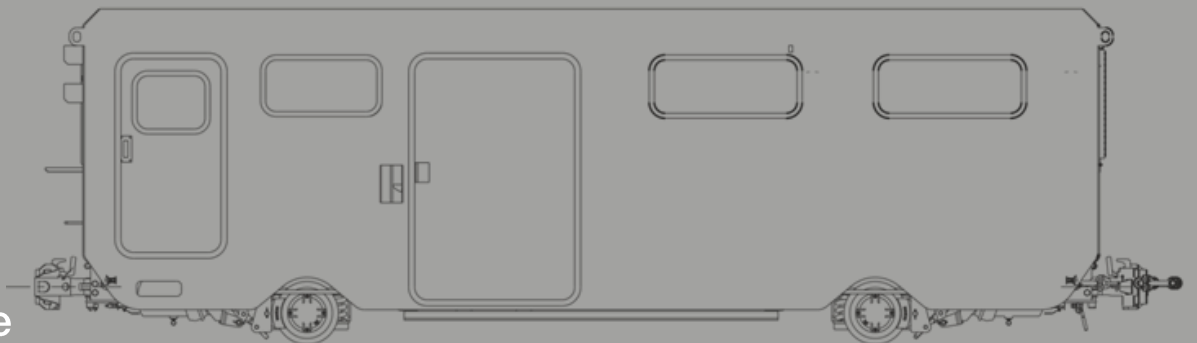
Disposal



Supply



Service



# Disposal



Self Discharger

Self discharging muck cars are used for safe and quick tipping. Discharge is done fully mechanically via a stationary or mobile tipping ramp.



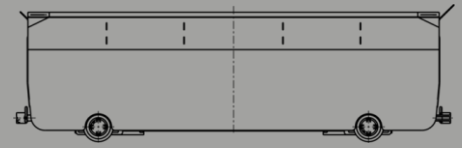
Forced Discharger

Forced dischargers are being safely discharged via external hydraulic tipping stations.



Hydraulic Discharger

Muck car with integrated hydraulic cylinders for individual discharge by remote control.



Rota Cars

Projects worldwide rely on the tailor-made rotadump car solutions for maximum haulage capacities. 180° rotating cars, closed and watertight for fast and automatic discharge of up to 10 cars simultaneously.



Floorshaft Cars

In this system one can lift either only the box or the complete car out of a shaft for discharge.



Bottom Discharger

It can be supplied as box version with a special discharge and locking system for the bottom flaps or as a complete car.

# Supply



Segment Cars

Up to 50 t loading capacity per car, available with or without turntable.



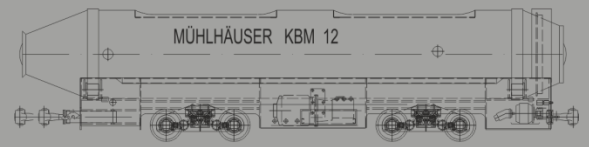
Concrete Remixers

The concrete remixer has an electro-hydrostatic drive and can be produced for capacities from 1 m<sup>3</sup> up to 12 m<sup>3</sup>. Five cars can be combined.



Mortar Cars

Our mortar cars or boxes are driven either electrically, hydraulically, pneumatically or with diesel. They have capacities of up to 35 m<sup>3</sup>.



Silo Cars

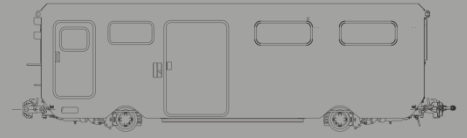
A wide range of silo cars is available at MÜHLHÄUSER. Discharge can be done by belt, automatically or manually by means of driven flap solutions and augers.



Flat Car

Our flat cars have been designed – in accordance with the required loading capacities – as two-axle or bogie version. Standard capacities are up to 50 tons and special designs up to 200 tons.

# Service



Rescue Car

The MÜHLHÄUSER rescue car is a special version of our menrider car.

It has a special basic configuration, but most elements can be chosen by the customer (e.g. stretcher, first-aid and ventilation installations, treatment areas, etc.)

This car is available as a self-driven car or as version to be pulled by a locomotive. The undercarriage can be two-axle or bogie version, depending on the weight to be carried.



Crane Car

For our crane cars, a crane that fits the customer's requirements, is put onto a MÜHLHÄUSER flat car. Crane cars with different loading capacities (from 60 to 660 kNm) are possible. The crane car can be delivered as version to be pulled by a locomotive or as a selfdriven car (Miniloco).



Menrider

Our standard design is a 2-axle-menrider with single seats, sliding doors and flap openings for emergency exit at the front and rear end. The cars are designed and built for 8 to 30 passengers and are available as car or box version.



# Tailor made solutions



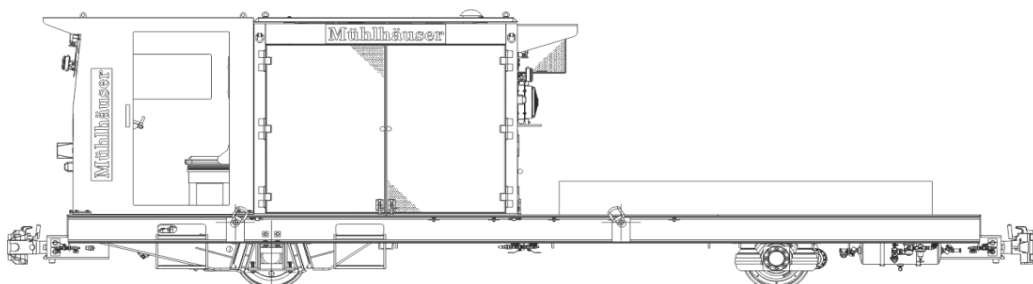
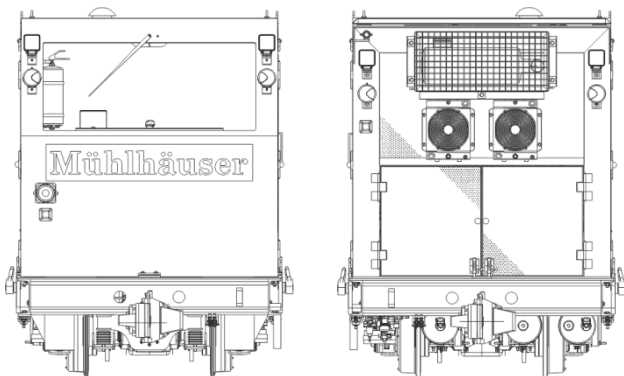
Self driven car

MÜHLHÄUSER self-driven cars are moved by means of their own drives in different weight classes. We offer different upper parts for the self-driven cars that can be driven hydraulically. This system is available as a cassette system, in which various upper part cassettes can be put on.

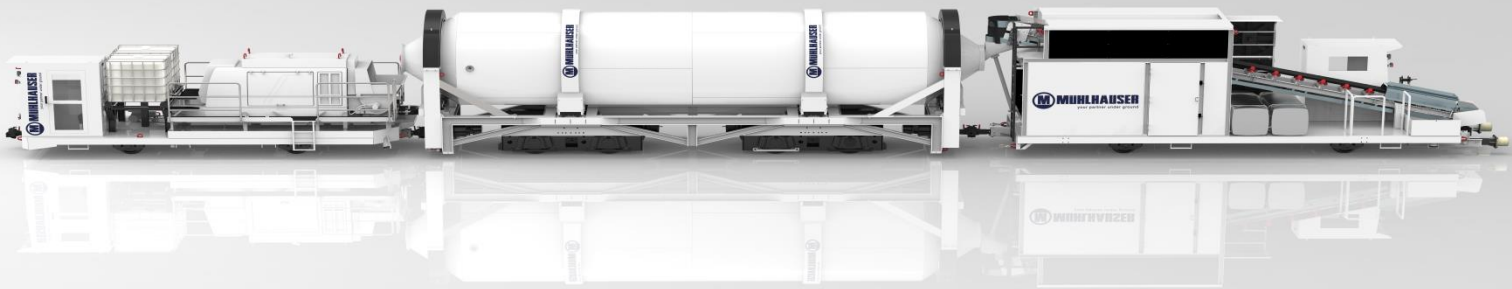
Those might be:

- Crane
- Boom & basket
- Cable drum
- Concrete remixer
- Mortar box
- Men cabin
- Sanitary cabin
- Rescue cabin
- etc.

Further cars can be coupled to the self-driven car, e.g. in order to build a service train or a rescue train. The self-driven car can be used for switching.



# Mühlhäuser Concrete



## Requirements:

- Receiving concrete transferred from the concrete shuttle
- Agitating the ready concrete mix to maintain the concrete alive during lining works
- Moving in slow motion with lining progress
- Storage capacity of buffer: 15 m<sup>3</sup> concrete
- Equipped with pumping wagon for pumping 200 m concrete
- Discharging the concrete directly into the pump

## Technical Data:

- Belt car with control cabin and Shuttle Diesel Drive 440 kW for all operations except the pump (loco drive, drum drive and belt)
- Buffer mixer with 2 x hydrostatic driven bogies
  - Drum volume: 51 m<sup>3</sup>
  - Load Capacity concrete: 15 m<sup>3</sup>
  - Drum Cable control for pump operator
- Pump car with control cabin, jet washer, water tank and Diesel Concrete Pump Schwing SP 1800 with 129 kW useable as emergency drive for drum rotation. Pump car disconnectable.

# Train - MCT



## Requirements:

- Transfer of 24 m<sup>3</sup> concrete from shaft to Buffer Shuttle
- Agitating the ready concrete mix to maintain the concrete alive during travelling
- Discharge while moving slowly with lining progress, connected with the buffer shuttle
- Travelling speed: 30 km/h

## Technical Data:

- Locomotive 35 t / 360 kW with UIC and Willison Coupling
- Coupling adaptation car (Willison – UIC) with Diesel Electric Generator 180 kW for drum drive while transport
- 2 x KBM12 can be combined with 12 m<sup>3</sup> load capacity



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