

MRT-300/2

MARKING-REMOVAL-TRUCK

ENGLISH | 01-2013





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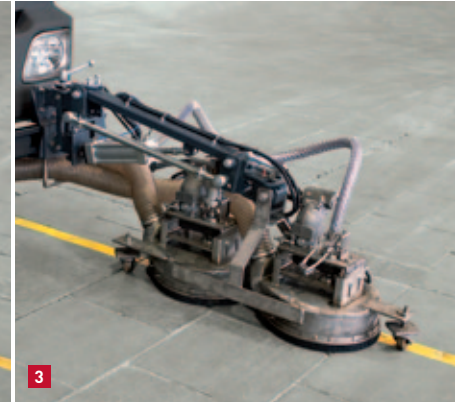
1 The tank and sound hood can be tilted hydraulically for maintenance purposes and for emptying the waste water tank. This allows easy access to all components – high pressure pump, boost pump, fan, cooler and extractor.

2 Removing device in front of the truck in lifted position

3 Removing device in working position



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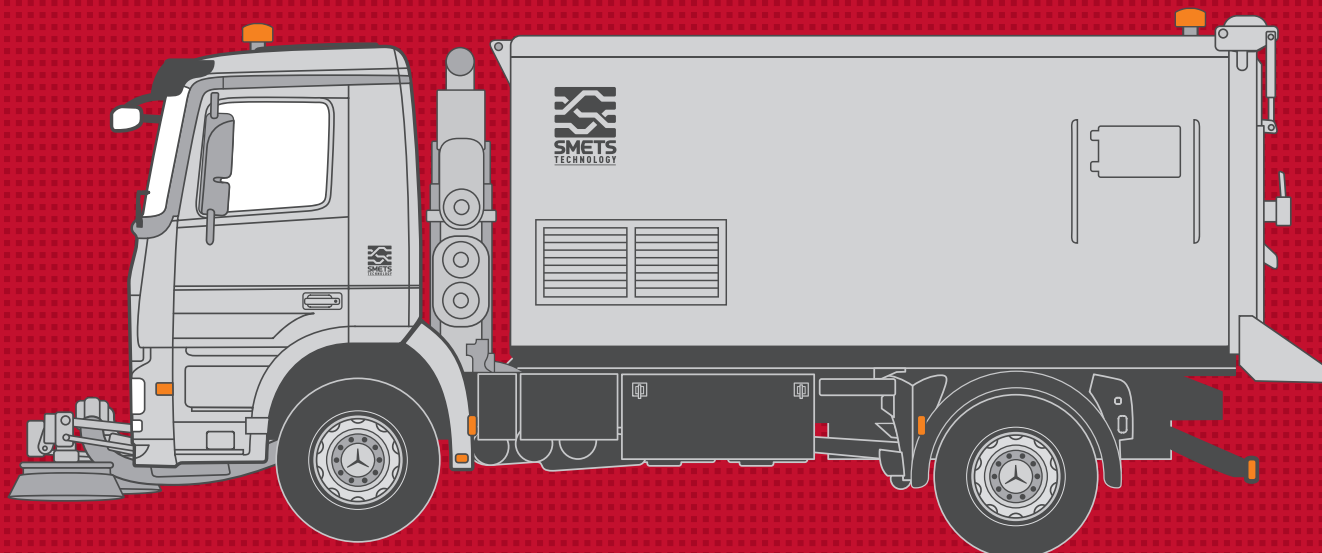
MRT-300/2

→ MARKING-REMOVAL-TRUCK

The German company SMETS-Technology GmbH designed and built this high performance vehicle for professional road marking (line) removal. The markings are removed and entirely drawn off by suction. On the vehicle, all essential components are hydraulically driven.

The required power is taken by two sources: First, via the direct auxiliary drive system and second, via a gear, which is built into the cardan shaft, with a hydrostatic drive.

The two 300 mm Ø removing devices are located in front of the truck and can be lifted up and swivelled (105°). The device can be reciprocated along the entire vehicle width via a hydraulically driven chain drive and manually swivelled out in addition. Thereby, there is the possibility to work on the left and on the right side of the vehicle.



TECHNICAL DATA

→ CONTROLS AND SETTINGS FROM THE DRIVER'S CABIN

- Monitor for the three cameras mounted in front of the truck (2 pcs. - behind the removing device) and the rear side of the truck
- RPM counter for the rotating speed of the removing device no. 1
- RPM counter for the rotating speed of the removing device no. 2
- Setting of the rotation speed for removing device no. 1
- Setting of the rotation speed for removing device no. 2
- Setting of the driving speed during operation (2 preselected speed levels)
- Setting of the suction operation (RPM of the blower)
- Setting of the working pressure (1,000 to 2,750 bar – stepless)
- Joystick for forward and reverse movement
- Pressure gauge for the working pressure
- Water consumption – flow rate in litres per minute
- Temperature of the hydraulic system
- Booster pressure (inlet to high pressure pump)
- Temperature of water (inlet of high pressure pump)

CHASSIS

wheelbase 4,500 | 4x2 | max. total weight 19 tons

ENGINE PERFORMANCE

approx. 500 HP | 370 kW

SPEED DURING OPERATION

0.12 to 4.80 km/h

WORKING WIDTH

300 mm Ø

HYDROSTAT AND PTO DRIVE

booster pump | high pressure pump | suction pump (blower) | tilt mechanism | opening device for the back door | crawling speed (operation)

WORKING PRESSURE

1,000 to 2,750 bar | stepless regulation

FLOW RATE OF HP PUMP

15 to 29 l/min | stepless regulation

TANK VOLUME

3,000 litres fresh water | 4,000 litres waste water

SUCTION

max. 16,800 m³/h

SPEED OF THE 2 NOZZLE ARMS

stepless regulation

SAFETY & RELIABILITY



4

4 Truck in operation. Dubai

5 The driver is able to keep a constant control of the removing process – two cameras installed behind the device at the front of the vehicle transmit a perfect colour picture directly to a monitor in the driver's cabin.

6 User-friendly control board with touch screen to control all aggregates and setting of all parameters (actual/theoretical)

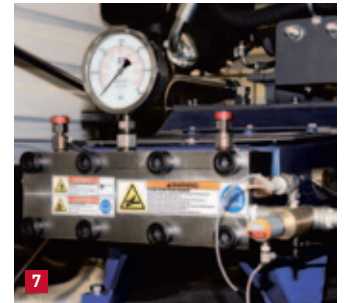
7 The heart of the vehicle is a 155 kW JETSTREAM high pressure pump with a performance of maximum 29 l/min at a working pressure up to 2,750 bar. Two water filters (100 and 25 µm) are assembled in line in the inlet to the water tank. In addition, there is a 6 µm filter fitted in the inlet side between the booster pump and the high pressure pump.



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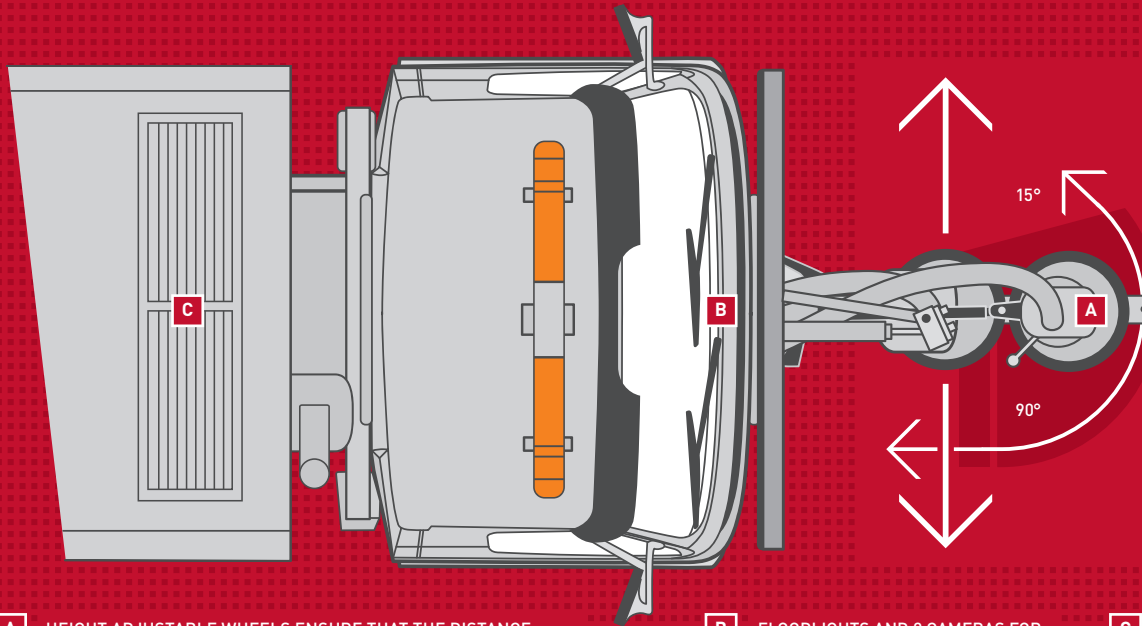
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→ INNOVATIVE ENVIRONMENT-FRIENDLY ECONOMICAL

The water level in the fresh water tank is monitored continuously. If the level reaches the lower point, the driver/operator is warned visually. If the level drops even further, the system switches automatically to the pressureless mode avoiding dry running of the high pressure pump. To ensure that the surface being treated is not damaged, the high pressure system shuts off at the very moment the driver steps on the clutch or brake. The high pressure

system can only be activated when the vehicle is actually in motion. Even at the full load (2,750 bar and 29 l/min, at a vehicle speed of 4.8 km/h) the water and debris is entirely withdrawn by suction into the waste water tank.

The MRT 300/2 – a further example of our modern technology which more than meets today's demands for environment-friendly, innovative and economical products.



A HEIGHT ADJUSTABLE WHEELS ENSURE THAT THE DISTANCE BETWEEN THE NOZZLES AND THE SURFACE REMAINS CONSTANT

B FLOODLIGHTS AND 2 CAMERAS FOR CONTROLLING THE WORK PROCESS

C PUMP AND SUCTION SYSTEM

→ OUR SYSTEM REMOVES ANY KIND OF LINE MARKING MATERIAL



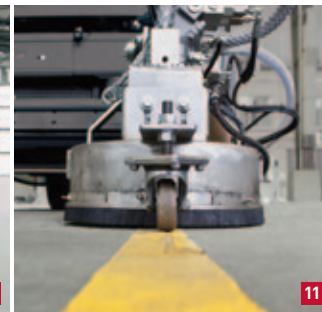
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- Dispersions, 1- or 2-components
- Thermoplastics, e.g. sprayed or layer plastics
- Reactive systems, e.g. cold plastics

8 Removing device in working position

9 Front view - removing device in working position

10 Front view - removing device in travelling position

11 Height adjustable wheels keep the device in ideal working position

COMPANY PROFILE

The owners of the company SMETS -Technology GmbH are very experienced and have been in that field of business since 1975. SMETS -Technology has partnerships in order to build and deliver professional and multipurpose vehicles for a wide range of cleaning applications in municipalities, authorities and in the contracting business (industrial cleaning).

The company attaches great importance to customer support in initial aspects of application technology, right up to the design and layout of specific vehicles required for the job to be done. And of course the service does not end here: Once the vehicle is handed over to the customer he receives professional on-the-job training and can rely on a competent after-sales service.

Long-term customer relations stand as a proof of acceptance of the products and customer satisfaction.



ISO 9001 CERTIFIED

OUR RANGE OF PRODUCTS

- Sewer cleaning trucks (combined vehicles for cleaning and vacuuming, vacuum vehicles, cleaning vehicles)
- Sewer inspection systems and vehicles
- Accessories for sewer cleaning (maintenance and protection systems, hoses and cleaning pumps)
- Nozzles for sewer cleaning and high pressure cleaning
- Garbage trucks & industrial cleaning combination trucks
- Small high pressure cleaning units for sewer pipes with reduced dimensions
- Sweeping trucks
- Tipping container trucks
- Well cleaning and inspection trucks
- Runway cleaning trucks with high pressure water pumps (up to 2,500 bar) **ARC-1000®**
- Trucks for cleaning tanks or any other dangerous substances
- Road marking removal truck | MRT-300/2
- Friction testing unit | Mu-METER FT-256

VARIOUS TYPES OF HIGH PRESSURE WATER CLEANING TRUCKS

- Direct drive via cardan shaft of vehicle transmission
- Drive via separate diesel engine
- Equipped with soundproof insulation, water tank, complete workshop



PARTNER NETWORK

Algeria · Australia · Austria · Bahrain · Brazil · Egypt · England · France · Greece · Hungary
India · Indonesia · Ireland · Japan · Jordan · Kenya · Korea · Kuwait · Lebanon · Libya
Malaysia · Morocco · Oman · Pakistan · Philippines · Qatar · Romania · Saudi Arabia · Scotland
Serbia · Singapore · Sri Lanka · South Africa · Syria · Tanzania · Thailand · Tunisia · Uganda
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