

ARC-2400°

RETEXTURING & ROAD LINE REMOVAL TRUCK

ENGLISH | 09-2013



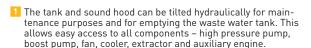
AVERAGE CLEANING RESULTS

Retexturing of asphalt or concrete surfaces (increasing friction value)

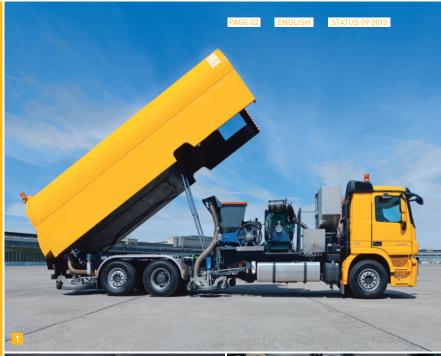
 $\emptyset 3,000 \,\mathrm{m}^2/h$

Cleaning of surfaces
(e.g. drain-asphalt)

 $\emptyset 10,000 \,\mathrm{m}^2/\,\mathrm{h}$



- Retexturing of road surfaces with pressure up to 2,500 bar and a working width of up to 2,400 mm
- 3 Complete removal of firmest and thickest road markings with an average performance of more than 2,200 m/h.







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RETEXTURING & ROAD · LINE · REMOVAL · TRUCK

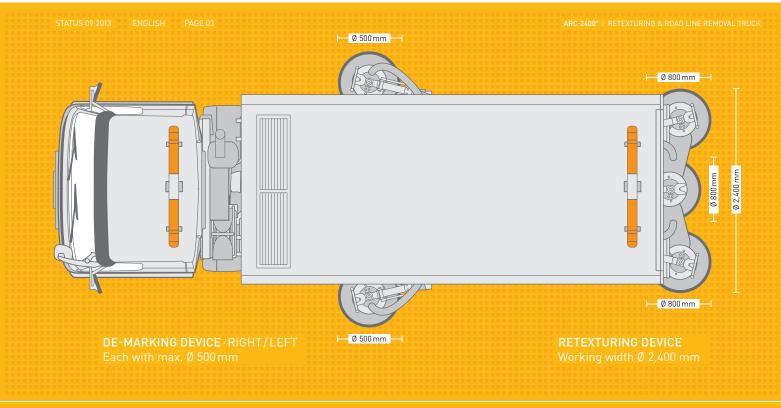
The German company SMETS-Technology GmbH designed and built with partners this high performance vehicle for professional surface treatment and line/marking removal.

The ARC·2400° can be used professionally for three main applications:

- 1. Retexturing (roughening) of too smooth road surfaces
- De-marking of traffic lines (all kind of materials) on the left and the right side of the vehicle
- 3. RRubber removal on runways

All deposits and dirt on the treated surface are removed by means of ultra-high pressure water and entirely withdrawn by suction. An auxiliary engine is driving a strong and powerful high pressure pump [250 kW] whereas all other aggregates are hydraulically driven. The additional required power is taken from two sources: First, via a PTO from the truck's engine and second, via a hydrostatic gear, which is built into the drive shaft.

The 2,400 mm surface cleaner, which is located at the rear of the vehicle, can be lifted up within 3 seconds by means of pneumatic cylinders.



TECHNICAL DATA

→ CONTROLS AND SETTINGS FROM THE DRIVER'S CABIN

- Monitor for 3 cameras mounted behind the surface cleaner at the rear side and 2 behind the de-marking device on each side of the vehicle
- RPM counter on each surface cleaner to show the speed of the nozzle bars
- Pressure gauge for the working pressure
- Joystick for forward and reverse movement
- Potentiometer to set the driving speed during operation
- Setting of the rotation speed of every surface cleaner (rpm)
- Setting of the suction operation (rpm of the blower)
- Setting of the working pressure (1,000 to 2,500 bar)

CHASSIS

Wheelbase 6,000 + 1,350 mm | 6 x 2 max. total weight 25 tons

TRUCK'S ENGINE PERFORMANCE

Approx. 267kW

AUXILIARY ENGINE PERFORMANCE

285 kW

SPEED DURING OPERATION

0.12 to 4.80 km/h

WORKING WIDTH

Rear device 2,400 mm | Side device 500 mm (each side)

- Switch for every surface cleaner ON/OFF
- Control for all hydraulic circuits
- Control of all parameters of the auxiliary VOLVO diesel engine
- Pressure gauge for booster pressure
- Control of water temperature
- Level of fresh and waste water

WORKING PRESSURE

1,000 to 2,500 bar | stepless regulation

FLOW RATE OF HP PUMP

20 to 45 l/min | stepless regulation

TANK VOLUME

8,000 litres fresh water | 9,000 litres waste water

SUCTION

max. 16,800 m³/h

SPEED OF NOZZLE ARMS

stepless regulation



- 4 De-Marking devices installed on both sides of the vehicle with a working width of 250 500 mm each. The working width can be chosen individually.
- 5 Truck with lowered rear cleaning device (working position) (3 x 830 mm Ø) and one lowered de-marking device (left side)
- Both de-marking devices in working position. Each device (3 x at the rear and 2 x at both sides) can be activated separately or in combination – the system is able to work on several and different applications





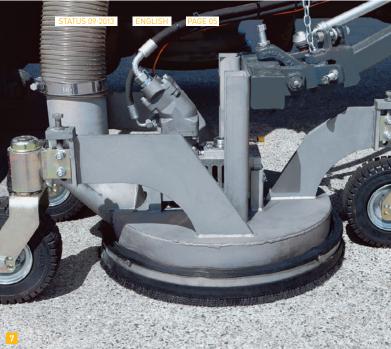
INNOVATIVE ENVIRONMENT-FRIENDLY ECONOMICAL

Every surface becomes a smooth structure after a period of being used by different vehicles. If the friction value falls below a certain level the surface has to be treated/roughened in order to grant an acceptable friction afterwards.

The ARC·2400° is designed to meet this requirement and to treat such a surface in a professional manner.

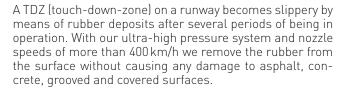
Nowadays road markings are not removed anymore with grinders. Grinders cause damage to the surface structure and the grooves (striation) are dangerous by passing with a vehicle at a certain speed (steering wheel breaks away).

The ARC·2400° is designed to meet this requirement and to remove all kind of road marking paints without causing damage to the surface structure.









The ARC·2400° is designed to meet this requirement and to remove all rubber deposits without causing damage to the surface structure.

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.



SAFETY & RELIABILITY

- One de-marking device in working position. The build-in nozzle bar can be equipped with insert nozzles to perform different working widths from 250 up to 500 mm. (depending on width of road line).
- Color monitor in driver's cabin allows a constant control of the cleaning performance.
- 9 A central control board with a color touch screen for an easy control of all parameters and easy settings.
- The nozzle configurations guarantee extreme high nozzle speeds which avoids any damage on the treated surface because it creates the minimum stress of ALL world-wide available systems.

To ensure that the surface being treated is not damaged, the high pressure system shuts off the moment the driver steps on the clutch or coupling. The high pressure system can only be activated when the vehicle is actually in motion. Even at the full load (2,500 bar and 45 l/min at a vehicle speed of 4,8 km/h) the water and debris are entirely sucked off the surface and drawn off into the waste water tank

The ARC·2400° – a further example of our modern technology which more than meets today's demands for environment-friendly, innovative and economical products.

ADDITIONAL **OPTIONS**

Runway Cleaner ARC-2400®.







MAGNET SYSTEM

BLINE LASER

COMPANY PROFILE





OUR RANGE OF PRODUCTS

VARIOUS TYPES OF HIGH PRESSURE WATER CLEANING TRUCKS



PARTNER NETWORK

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