

ARC 2400®



RETEXTURING & ROAD LINE REMOVAL TRUCK



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

1. **Retexturing** (roughening) of too smooth road surfaces
2. **Demarking** of traffic lines (all kind of materials) — on the left or the right side of the vehicle
3. **Rubber removal** on runways

AVERAGE CLEANING RESULTS:

Retexturing of asphalt or concrete surfaces (increasing of friction value) Ø 3,000 m²/h

Demarking of traffic lines (e. g. drainasphalt) Ø 2,200 m/h

Runway Rubber Removal Ø 2,500 m²/h

TECHNICAL DATA

Controls and settings from driver's cabin

- Monitor for 3 cameras mounted behind the surface cleaner at the rear side and 2 behind the demarking 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)
- Switch for every surface cleaner ON/OFF
- Control for all hydraulic circuits
- Control of all parameters of the auxiliary diesel engine
- Pressure gauge for booster pressure
- Control of water temperature
- Control of water level



All deposits and dirt on the treated surface are removed by using **ultra-high-pressure water** and are entirely withdrawn by suction. The system is powered by a powerful high-pressure pump (250 kW). All 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.



Truck with lowered rear cleaning device (working position) (3 x 850 mm Ø) and one lowered demarking device (left side).



Both demarking 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.

TECHNICAL PARAMETERS

CHASSIS

3- (standard), 4-, 5-axle chassis or semi-trailer/tractor version

ULTRA-HIGH-PRESSURE PUMP

250 kW, P max 2,500/3,000 bar
Q max 53 l/min

SPEED DURING OPERATION

3 to 80 m/min, stepless adjustable

MAX. WORKING WIDTH

2,400 mm, (OPTIONAL – additional demarking device on 1 or 2 sides)

SUCTION / AIR BLOWER

16,800 m³/h, free air flow and - 0.15 bar

ROTATION OF NOZZLES

0-2,500 RPM, stepless adjustable for every cleaning device

TANK VOLUME

17 m³ standard, optional up to 32 m³ (semi-trailer version)

Every surface is faced under heavy traffic load to change the structure of the surface texture gradually. If the measured friction values fall below a certain level described in international or national regulations, it must be restored by either cleaning or retexturing the surface structure.

The ARC 2400® is designed to support these requirements and to restore friction on all kind of surfaces without damaging the macro texture.

Nowadays it is no longer common to remove paint markings

on roads and airport traffic areas by applying grinding technology as they cause damage to the surface structure. The resulting grooves (striation) are dangerous when passing with a vehicle at a certain speed as steering wheel breaks away.

The modern technology using ultra-high water pressure reestablish good friction to the surface, removes paint markings without damaging the surface, prolongs the life time of the surface texture by 50% and is environmentally friendly because of the low water consumption used during the process.