

Wheel washing system

MobyDick Duo

Art. no. MDD-100-001

Roller system in painted, water-bearing wash unit, integrated recycling tank with 2 scraper conveyors, pump technology and a control system.



Illustrations may differ from the actual scope of delivery

MobyDick Duo – A model from the TailorMade model line

RS Duo – High washing power for heavy soiling

The roller system MobyDick Duo is a high-performing and compact wheel washing system consisting of a 2.2-metre-long wash unit with rollers and an integrated recycling tank with scraper conveyor. The rollers allow the simultaneous turning and intensive cleaning of the wheels of two axles with spacing of 1.1 to 1.5 metres. Even sticky dirt between the twin tyres and in the treads is reliably washed out. The ideal solution for stationary or mobile use with heavy soiling. Installation takes just a few hours and only requires a small space.

Function description

A truck drives slowly onto the rollers of the wheel washing system. The start bars between the rollers automatically trigger the washing process. The specially designed nozzle system consisting of floor and side nozzles ensures intensive cleaning of all tyres of an axle or double-axle (axle spacing: 1.1 to 1.5 m) and of the chassis. The truck then drives with the wheels of the next axle/double-axle onto the rollers of the wheel washing system. Higher areas of the vehicle like windows and rear-view mirrors are not washed, keeping the driver's vision clear. The duration of the washing process is freely selectable based on conditions with the time relay switch installed in the control cabinet. The soiled water flows directly into the integrated recycling tank. The solid dirt settles to the bottom. The water is led to the pump chamber. There it is reused by the two robust MobyPump immersion pumps for further spraying. The two scraper conveyors remove the settled solids from the recycling tank.



Water recycling

In all MobyDick wheel washing systems the water is circulated in a closed circuit. Water treatment is via sedimentation in the recycling tank. Sedimentation can be accelerated by adding a flocculant. Settled solids are continuously conveyed out of the recycling tank by the two scraper conveyors.

Scope of supply

- Painted, water-bearing wash unit
- 3 rollers with roller drive and brake
- Additional support rollers
- Integrated recycling tank with 2 scraper conveyors (common drive)
- Control cabinet
- 2 start bars to trigger the washing process
- 2 MobyPump immersion pumps

Specifications (For dimensions see layout drawing)

• Drive-through length	220 cm
• Drive-through width	275 cm
• Suitable axle distances	1.1 to 1.5 m
• Maximum axle load	15.0 t
• Nozzles, welded	48 pcs.
• Nozzles, adjustable	18 pcs.
• Nozzle Ø	8 mm
• Recycling tank volume	5.5 m ³
• Maximum pumping capacity	2×2.5 m ³ /min
• Electrical connection values	15 kW/32 A
• Sound emission	< 75 dB
• Weight (ready to ship)	5200 kg

Areas of application

The Duo model can wash up to 200 heavily soiled trucks per day.

Typical operation sites – depending on number of trucks and degree of soiling – are

- Construction sites
- Gravel plants and quarries
- Concrete mixing plants
- Recycling facilities
- Waste plants
- Port facilities
- Food industry
- Cleaning and disinfection
- Other areas on request