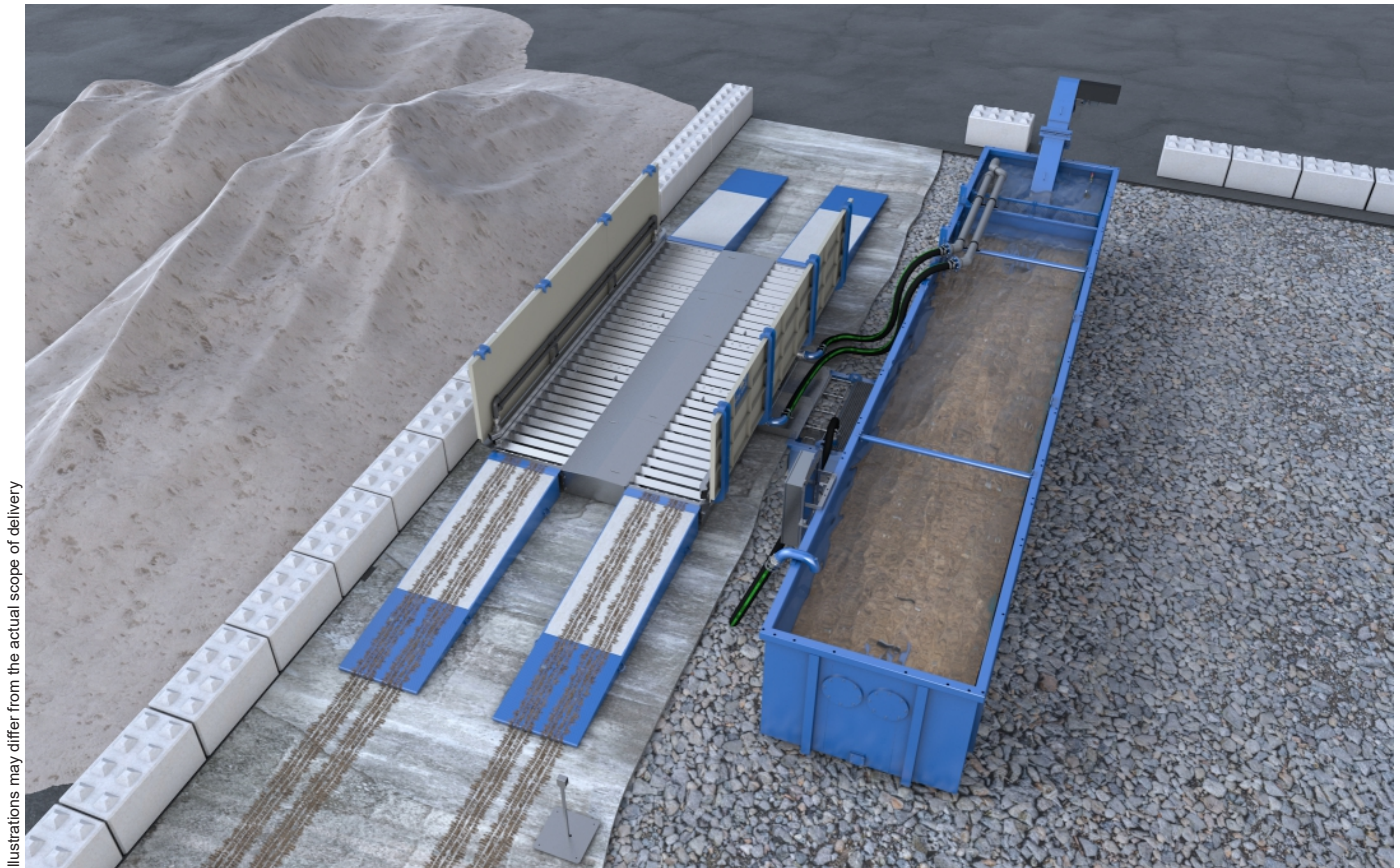


# Wheel washing system MobyDick Plus 600 MC-50P

Art. no. MDC-100-017-1

Mobile, hot-dip galvanised, water-bearing wash unit with splash guard walls, pump sump tank, recycling tank with scraper conveyor, pump technology, solid concrete ramps, and a control system.



Illustrations may differ from the actual scope of delivery

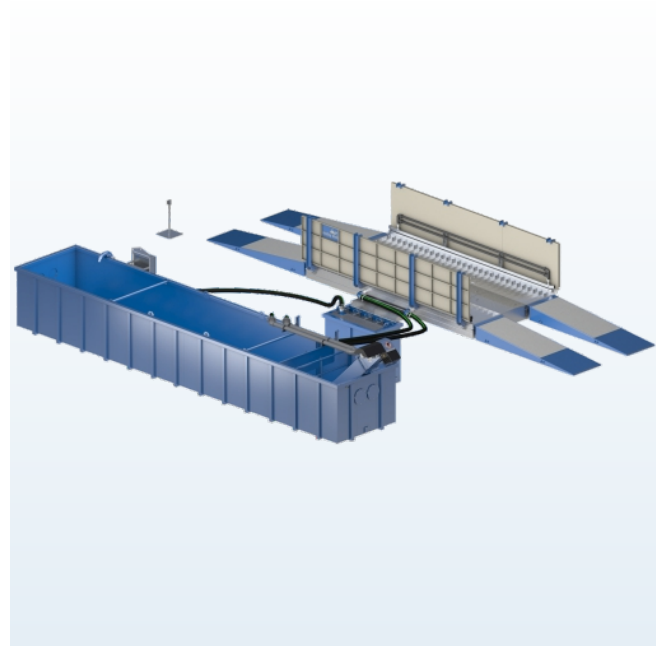
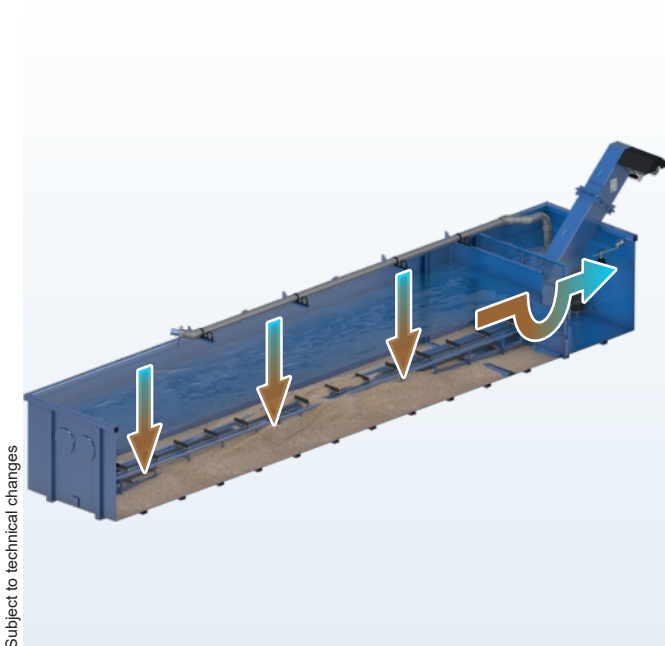
## Plus 600 MC-50P – A model from our Standard Line

Plus - Greater performance for high demands

The Standard Line Plus series consists of a large selection of mobile and stationary wheel washing systems that are particularly suitable for use with high truck drive-through frequencies. These modern drive-through systems are based on more than 30 years of experience with wheel washing systems and, in addition to the classic MobyDick advantages, also offer a large choice of options and an attractive price/performance ratio. All Plus systems are quick and easy to install and require only minimal maintenance.

### Function description

A truck drives slowly up the ramps into the wheel washing system. The vehicle identification sensor automatically triggers the washing process. The specially coordinated nozzle system, consisting of a large number of bottom and side nozzles, then ensures the intensive cleaning of all tires and the entire chassis in just over one wheel rotation. Higher vehicle areas such as windows and rear-view mirrors are not washed, so as to leave the driver's field of vision clear. The kneading effect created by the angle profiles gives the tire treads additional cleaning. The duration of the washing process can be freely selected using the timer relay in the control cabinet, in accordance with the relevant operating conditions. The waste water runs via two return channels from the wash unit to the side pump sump tank. From there it is pumped into the recycling tank by two MobyPump macerating pumps. This is where the washed-off solids settle out. The water is fed via the partition wall with sieve insert into the pump chamber. There it is reused by two robust MobyPump immersion pumps for further spraying. The scraper conveyor conveys settled solids out of 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 on the scraper conveyor.

## Specifications (Dimensions see layout)

|                                |                           |
|--------------------------------|---------------------------|
| • Drive-through length         | 600 cm                    |
| • Drive-through width          | 280 cm                    |
| • Maximum axle load            | 15.0 t                    |
| • Splash guard wall height     | 136 cm                    |
| • Nozzles                      | 198 pcs.                  |
| • Nozzle Ø                     | 7 mm                      |
| • Recycling tank volume        | 50.0 m <sup>3</sup>       |
| • Maximum pumping capacity     | 4×2.5 m <sup>3</sup> /min |
| • Electrical connection values | 23 kW/55 A                |
| • Sound emission               | < 75 dB                   |
| • Weight (ready to ship)       | 18,500 kg                 |

## Scope of supply

- Hot-dip galvanised, water-bearing wash unit
- Splash guard wall per side
- Double side nozzle bars per side
- 2 hot-dip galvanised return channels for the waste water
- Control cabinet
- Optical sensor to trigger the washing process
- 2 MobyPump immersion pumps
- 2 MobyPump macerating pumps
- Pump bracket and piping
- Recycling tank 50 C with scraper conveyor
- Pump sump tank
- 4 ramps to the wash unit
- Scraper conveyor access protection

## Areas of application

The Plus 600 MC-50P model can wash up to 250 moderately soiled trucks per day.

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

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