Wheel washing system
MobyDick ConLine KIT Flex 400 C

Art. no. MDK-A300-400C

Galvanised, water-bearing wash unit with splash guard walls, recycling tank with scraper conveyor, pump technology, and a control system.

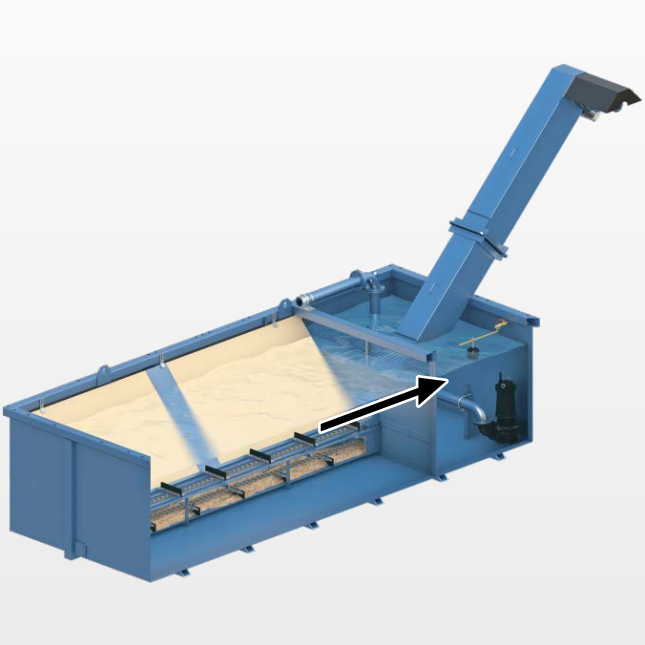
KIT Flex 400 C – A model from the ConLine KIT Flex range

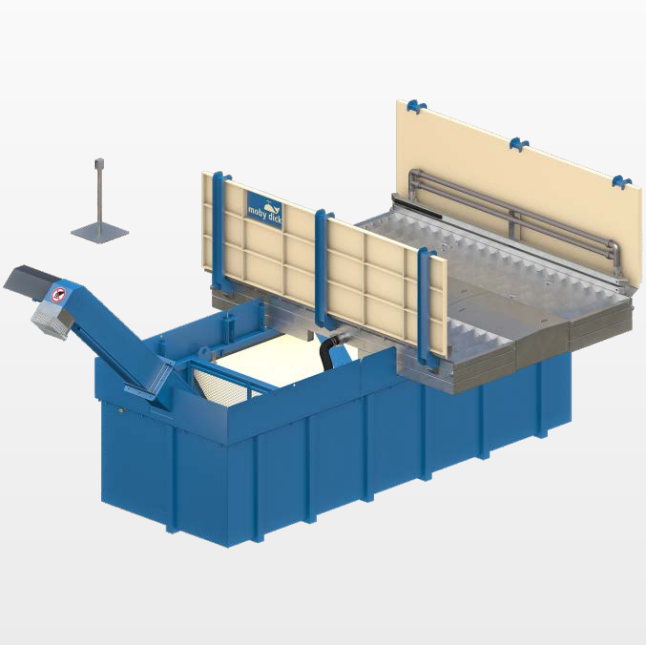
ConLine KIT Flex – The modular concept for the construction industry

The wheel washing systems of the ConLine KIT Flex line were developed by our engineers specifically for the needs of the construction industry. The basic unit of the modular concept consists of a robust four metre-long wash unit and a recycling tank. It can be combined with a scraper conveyor, a mobility package or a second basic unit to form eight different wheel washing systems that are four or eight metres in length. All models can be installed quickly and impress thousands of operators around the world.

Function description

A truck drives slowly 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 tyres and the entire chassis in one wheel rotation. Higher vehicle areas such as windows and rear-view mirrors are not washed, to leave the driver's field of vision clear. The kneading effect created by the angle profiles gives the tyre profiles 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 from the wash unit directly into the recycling tank below. 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 a robust MobyPump immersion pump 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.

Scope of supply

- Galvanised, water-bearing wash unit
- Splash guard wall per side
- Double side nozzle bars per side
- Control cabinet
- Optical sensor to trigger the washing process
- 2 MobyPump immersion pumps
- Pump bracket and piping
- Recycling tank 20 C with scraper conveyor
- Edge elevation on recycling tank to end at ground level

Specifications (Dimensions see layout)

• Drive-through length	400 cm
• Passage width	280 cm
• Maximum axle load	15.0 t
• Splash guard wall height	136 cm
• Nozzles	130 pcs
• Nozzle Ø	7 mm
• Recycling tank volume	20.0 m³
• Maximum pumping capacity	2×2.5 m³/min
• Electrical connection value	11.5 kW
• Sound emission	< 75 dB
• Weight (ready to ship)	6,500 kg

Fields of application

The KIT Flex 400 C model can wash up to 150 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