

Swiss Construction Machinery Shower

After commissioning the world's first demucking system MobyDick HD-1, the international market leader for tyre washing systems FRUTIGER laid the foundations for a new business field around 10 years ago: the automatic cleaning of extremely dirty construction, military and rail vehicles. The systems are meanwhile in service throughout the world under the brand MobyDick – from the zinc mines of Asia and NATO military training grounds in Europe through to the world's largest borax mines in North America.

Numerous employees in the maintenance departments of construction firms, armed forces and rail companies are all too familiar with the laborious cleaning work associated with high-pressure jets on construction machinery, military vehicles and railway wagons. The muck removal systems made by the Swiss company FRUTIGER Company AG provide a remedy to this. With the latest generation, chassis, underbodies and crawler tracks of diverse vehicles can be cleaned automatically within just a few minutes and without wasting precious resources.



Companies from the construction and recycling industry are increasingly discovering the potential of these solutions for their purposes. Thus, for example, the world's largest borax mine in California has been cleaning its terrain vehicles regularly with a demucking system for two years, so as to prevent damage resulting from lumps of earth having become deposited. Yet also in the tar sands of Canada or among larger construction machinery hire companies, thousands of diggers, dumpers and wheel-loaders have been cleaned with a MobyDick system after use over the past few years.

Cleaning in two steps

At the beginning of 2016, India's first demucking system was installed in a Hindustan zinc mine.

After impressive tests on the Atlas and Sandvik dumpers weighing up to 70 tonnes, two further systems were ordered by the mine operator Vedanta for other sites. The technology used allows over 80% of the dirt on wheeled and caterpillar vehicles to be removed in an initial cleaning step using low pressure and without chemicals. The washing water used and hence also the washed-off mud is not contaminated with oils and greases because of the low pressure and automatically flows back into the system during the cleaning process. This water is then reprocessed for the next washing operation, which allows the mud accumulated during the cleaning procedure to be discharged automatically in semi-solid form by the integrated chain conveyor and then effortlessly disposed of. The second cleaning step, fine cleaning with high-pressure jets, then lasts just a few minutes instead of hours. Besides making the workplace more worker-friendly, a demucking system also enables washing times to be reduced considerably while saving large amounts of water and chemicals, which not only lowers operating costs but also reduces environmental pollution.



By adapting the technology of the MobyDick tyre washing systems, which have been used at high-volume construction sites, mines and recycling facilities for over 30 years, MobyDick muck

removal systems are easy to use, low in wear and require very little maintenance.

MobyDick can do even more

Besides cleaning and demucking systems, FRUTIGER has also been offering leading solutions in the area of dust control for over two years, under the brand MobyDick Dust Control. The modern dust control systems already underlie our claim to outstanding performance in dust suppression and a customer-oriented price in Germany, Switzerland, USA, China and many other countries: Performance ratio. Many conventional systems still work with low-pressure pumps, these generating large and thereby differently sized water droplets. The MobyDick dust suppression system relies on water misting using special 20-25 bar pumps and suitable nozzles, which generate a high number of very small water droplets. The Cannon 50 model generates from 50 μ up to 150 μ outdoors and 20 μ to 80 μ indoors. This „dense fog“ with a high number of very small water droplets of homogeneous sizes works more efficiently than the technology with low pressure pumps.



With their lower flight and rate of fall, they remain in the air longer and their suction effect is reduced, letting them bind more dust particles so that these can fall to the ground together with them. This technology has evolved into a proven system of dust control that makes manufacturing processes cleaner and satisfies labour protection regulations.

Home in Switzerland, at home in the world

With its headquarters in Switzerland along with ISO-certified production plants in Europe and Asia, an assembly centre in the USA, as well as an international network of service and sales offices, FRUTIGER is represented with MobyDick specialists throughout the world. For further In-formation please [click here](#).