

Cleaning of new railway parts with BvL

Released for publication

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## **New parts reliably cleaned in all variants**

### **BvL systems demonstrate high level of flexibility at Railway Workshop**

A large range of different parts have to be cleaned during the production of any railway parts. BvL Oberflächentechnik manufactures systems which are ideally tailored to the specific application.

### **Heavy axles cleaned inside and outside**

With a special OceanRW, BvL developed a solution for cleaning true heavyweights. A portal loader lifts new train axles with a weight of approx. 1,000 kg into the cleaning system and places them on prisms. While the axle rotates, a special nozzle system removes all machining residue from the outside and from the face-side threaded holes. Integrated blow-out nozzles allow fast, targeted drying.

### **Continuous system for new train wheels**

The Yukon continuous system from BvL is also frequently used in the railway sector. In a specific application example, the system is used to clean new train wheels in a fully automated production line. The 650 kg wheels move through the system on correspondingly sturdy chains for targeted cleaning with a surrounding nozzle frame. Any cavities are then blown out specifically with drying nozzles and medium-pressure fans. A plate phase separator for oil separation and the modern filtration technology ensure a stable cleaning process.

### **Clean and dry axle boxes**

Another variant of a Yukon continuous system is used for cleaning new axle boxes, for example. Several boxes are moved into the system at the same time. The continuous washing, rinsing and drying process reliably cleans different components with a weight of up to 12,500 kg every hour. In the system described, triple filters, Topline bag filters as well

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as an additional slant type filter ensure the reliable removal of contaminations from the washing and rinsing tank.

In the box:

Efficient knowledge exchange at the BvL Railway Workshop

At the end of May, BvL invited experts from the railway industry to a workshop in Emsbüren, with the theme “Efficient and economical cleaning of railway components”. The guests from the fields of maintenance and manufacturing of new trains parts exchanged their extensive specialist knowledge with the BvL cleaning experts. The different processing technologies were illustrated with specific system demonstrations. Cleaning options for a large variety of different contaminations, for example on bogies, wheelsets, wheel bearings and motors, were explained. The informative knowledge exchange was completed with current trends regarding high pressure paint stripping with the BvL Geysler and intelligent cleaning solutions with Smart Cleaning.

More information:

[www.bvl-group.de](http://www.bvl-group.de)

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## Images



### Caption:

A special variant of the OceanRW cleans and dries new train axles inside and outside.



### Caption:

The heavy train axles are lifted in with a portal loader. The axles rotate on the chain-driven prism holder during cleaning.



### Caption:

20 new train wheels are cleaned per hour in the YukonDAL continuous system. The system is integrated into the customer's automated production line.

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**Caption:**

Experts from the railway industry were happy to accept the invitation to a knowledge exchange at the BvL Railway Workshop and discussed current trends in the cleaning of railway parts.

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**BvL Oberflächentechnik GmbH** is one of the largest suppliers for water-based industrial cleaning systems in Germany. As a system partner, BvL offers comprehensive customer solutions through integrated services – from simple washing units and filtration and automated solutions to complex large projects with process monitoring, always complemented by reliable service. BvL currently employs around 160 people. With regard to exports, the company has expanded its position on an international scale and can rely on an extensive sales and service network in 19 countries.

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