

Rail wagons

We are experts in the equipment and maintenance of bulk rail wagons.

In addition to the engineering of bulk rail wagons and the construction of rail wagon unloading systems, our rail wagon service will also ensure a trouble-free operation of your rail wagons.



Projects



Service



Products



Rail wagons



We are your partner for the optimisation or maintenance of bulk material systems. Our offer includes service backups designed to take care of, among others, the inspection and optimisation of your stock-keeping as well as continuous improvement of your conveying technology.

Trust in our strengths.



Rail wagons



Our services at a glance

- | | |
|--|-------------------------|
| ✓ Repair works in the workshop | G1.0, G2.0 |
| ✓ On-site repair – mobile interventions | G3.0 |
| ✓ Revision of substructure (all revision levels acc. to VPI) | G4.0, G4.2, G4.3, G4.8 |
| ✓ Brake controls | BR 0 / 2 / 3 |
| ✓ Maintenance of wheelsets | IS0 (IS1, IS2 external) |
| ✓ Revision of bogies – chassis | D 2 / D 3 |
| ✓ Revision – control of superstructure (hoppers) | P5 |
| ✓ Inspection and revision of bulk containers | (CSC reviewed) |
| ✓ Paintwork and lettering | |
| ✓ Cleaning operations interior / exterior | |

Mobile intervention – Description of services

- ✓ Fully equipped service vehicle for mobile interventions
- ✓ Intervention throughout Switzerland incl. neighboring countries
- ✓ Replacement of brake pads
- ✓ Replacement of brake hoses
- ✓ Braking tests Br0
- ✓ Replacement of dome cover joints
- ✓ Replacement, cleaning, filling of water separator
- ✓ Replacement of any devices and piping components incl. 3-way ball valve
- ✓ Replacement of manometer
- ✓ Replacement of buffer and draw gear
- ✓ All lubrication works incl. buffer
- ✓ Minor repairs and lettering





Rail wagons

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Standardized, customer-specific maintenance programs are thoroughly implemented and completely documented. In addition, we will be pleased to elaborate suitable maintenance programs adapted to your specific needs and requirements.

Measurement and testing technology

We use the latest measuring and test equipment

- ✓ **Braking tests** – Pdr 7/Pdr 5 through automated default protocol // Pdr 1 even for mobile interventions
- ✓ **Measuring of bogies** – 3D Measurement technology through automated default protocol
- ✓ **Measuring of wheelsets** – Laser measurement through automated default protocol
- ✓ **Leakage tests** – Pressure vessel incl. piping (G1.0)
- ✓ **Pressure testing** (4.2 / 4.0)



Welding

- ✓ Any welding work on bogies, rail wagons and pressure vessel
- ✓ Visual inspection VT1 and VT2
- ✓ Other inspections are carried out by qualified service providers



Rail wagons

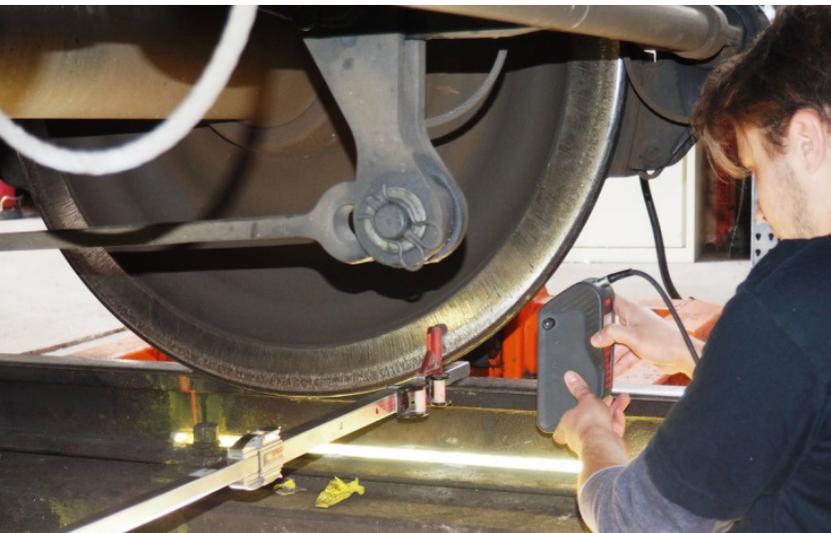
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Cleaning

- ✓ Internal cleaning (dry) of powder product wagons
- ✓ High-performance vacuum cup for complete emptying of bulk material
- ✓ External cleaning (wet) for any type of wagon

Spare part management

- ✓ Retrofits on rail wagon components, for example breaking-up, unloading systems, etc.
- ✓ Repair of components / devices such as butterfly valves
- ✓ All components of most important devices held in stock with STAG AG
- ✓ For in-house products see www.stag.net



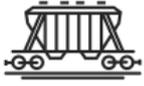
Organisation Transport / Shunting

Shunting operations carried out by STAG employees with our own shunter from/to Sargans station

Our strengths

- ✓ High flexibility
- ✓ Customer and solution-oriented approaches
- ✓ Customer-specific processes and maintenance schedules
- ✓ Personal support by workshop manager
- ✓ More than 15 years of experience in the area of rail wagon service
- ✓ Specialist in bulk material engineering
- ✓ More than 60 years of experience in the area of rail unloading systems
- ✓ Short-term mobile interventions throughout Switzerland and the neighboring countries
- ✓ Committed and highly qualified team of employees





Rail wagons



Customer-specific developments

- ✓ Optimization (control, performance) of rail unloading systems
- ✓ Automatic dome cover closing system
- ✓ 3-way ball valve for optimization of air distribution and efficient unloading
- ✓ Water separator with automatic discharge valve
- ✓ Complete rail wagon unloading systems



Rail wagon types

STAG is your specialist for bulk rail wagons of all kind. We are at your disposal for carrying out the revision and/or repair of the following wagon types in our workshop:

UCS – UACS – UACNS – FACCS – FACCNs – FALS –SGNSS – Bulk returnable containers

For any other wagon type, please contact us for a non-binding request.

Due to the special infrastructure including a rotary disc and pit tracks, we can provide service for freightwagons of the following dimensions:

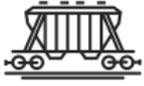
- Wheel center distance up to 16m
- Overall length over buffers up to 20m

We are certified and approved according to the following regulations

- ✓ **ISO 9001:2017** – Quality management certificate
- ✓ **VPI** – Maintenance guide: 2019
- ✓ **ECM EU VO 445/2019** – Executing workshop for maintenance and repair of rolling stock
- ✓ **DIN EN 15085-2:2020** – Welding of rail vehicles and vehicle parts (DL- external)
- ✓ **OHSAS 18001:2007/ ISO 45001** – Occupational health and safety
- ✓ **CSC** – Inspection and maintenance of bulk returnable containers

All of the above-mentioned certificates can be downloaded on our website www.stag.net.

We are a member of the Cargo Rail Service Center (CRSC) Association.



Rail wagons

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Your STAG Rail Wagon Service Team



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