A flexible solution for rail freight transport

Voith CargoFlex

Voith CargoFlex is a modular system for European rail freight transport. Based on the type 10 Scharfenberg coupler the system facilitates fast and easy coupling of freight trains. The coupler is suited for UIC 530 installation space and for vehicles according to TSI standard. Due to energy absorption components and a stabilizing linkage safety can be increased and wear can be reduced. Additional components allow for further automation of operation.
**Voith CargoFlex Type Scharfenberg for freight wagons**

*For freight wagons*

This automatic center buffer coupler has been specifically designed for freight applications. The basic version of the coupler offers automatic coupling including the brake pipe. The operation without side buffers allows for lower lifecycle costs and reduced weight. A simplified car body design can be realized through central load transmission.

The low-backlash coupler with energy absorption makes for higher safety and reduces wear of trains and tracks. Furthermore the integrated stabilizing linkage reduces the risk of derailment.

The coupler allows for current and future upgrades; due to its modular design it can be equipped with additional modules.

**Additional equipment**

- Manual uncoupling device (from vehicle side)
- Air pipe connection for main reservoir pipe
- Operating gear for automatic uncoupling

**Perfectly prepared for future modules**

- Data transmission
- Power supply
- Heating elements for cylinder and front plate
- Sensors for condition monitoring
Voith CargoFlex Hybrid for locomotives

For locomotives
With a mixed coupler device and a swivel mechanism behind the coupler head the hybrid coupler is ideally suited to locomotives. For coupling with the UIC-drawhook the coupler head is swiveled upwards. The screw coupler can then be coupled manually and used with side buffers.

Additional equipment
• Heating elements for cylinders and front plates
• Sensors for condition monitoring
• Air pipe connection to the main reservoir pipe
• Operating gear for automatic uncoupling

Perfectly prepared for future modules
• Data transmission
• Power supply
Benefits of the automatic freight coupler

- Increased work safety
- Reduction of personell costs
- Faster train configuration
- Faster marshalling processes
- Longer, heavier trains possible

Voith CargoFlex
Type Scharfenberg

- Reduced share of fixed costs
- Higher speed
- Reduced transport time
- Combined transport possible
- Higher gains

Increased transport performance

- No need for side buffers
- Weight-optimized wagons
- Reduced noise emissions
- Reduced wear on wheels and tracks
- Reduced wear in curves and on switch points
- Permanent power supply of wagons
- Data transmission between the wagons
- Vantage point for integrating further innovations

Increased competitiveness of rail freight transport

- Telematic applications
- Automatic train configuration
- Automatic train integrity check
- Automatic brake test
- EP brake
- Train monitoring facilities
- Monitoring of goods (dangerous goods)
- Maintenance 4.0

Voith GmbH & Co. KGaA
St. Poeltener Str. 43
89522 Heidenheim, Germany

Contact:
Phone +49 05341 215916
cargoflex@voith.com
www.voith.com/cargoflex