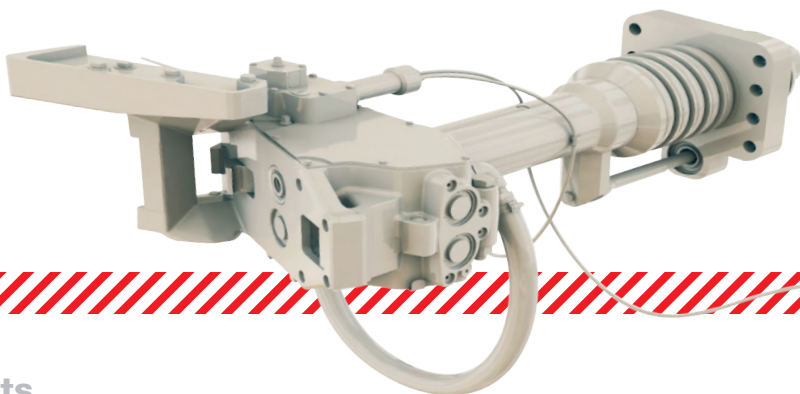




Connecting the world's train systems



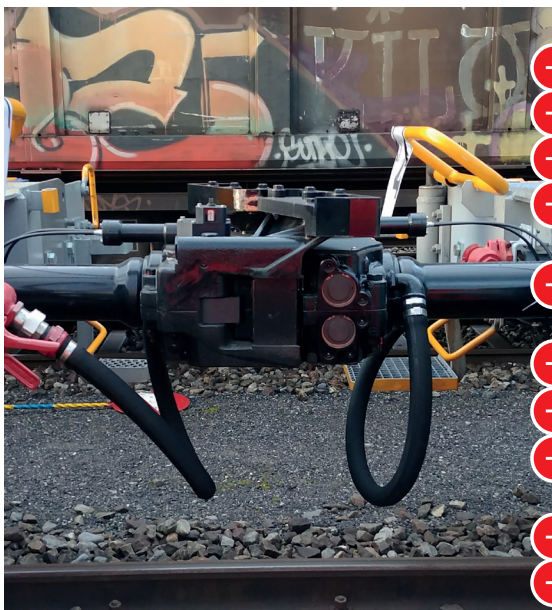
Automatic Freight Coupler



Unique operational benefits

Wabtec Faiveley lightweight automatic coupler for freight wagons is able to transmit loads of 1500kN (buff) and 1000kN (draw). Due to its coupling mechanism, uncoupling under draw forces up to 300kN is possible which brings additional value in operation.

Forces out of the coupling process and service loads are damped with proven elastomer pad system with dynamic energy capacity of appr. 50kJ in buff. The coupler is equipped with a vertical support and an anti-rotation device.



CUSTOMER BENEFITS :

- + Lightest coupler in the market with 280 kg in total
- + Safe operation with double locking mechanism
- + Closed design for snow, ice and dirt protection
- + Uncoupling with draw-force up to approx. 300 kN successfully tested with SBB
- + Reduced space envelop compared to other coupler types
- + High safety level for working staff
- + Better coupling in curves than UIC screw-coupling
- + UIC pocket frame (spacer) available for conversion projects
- + Potential for heavy duty application (1500 kN draw force)
- + Potential for crash functionality

Prototype



Ready to quote



Ready to produce



In production



Target application:

- All types of freight wagons
- Freight locomotives for hybrid version
- New builds and conversion projects

References:

Successfully implemented on SBB/5L and VTG/BMVI demonstrator trains

- Design integrity validated according to the latest simulation tools (FEA, thermal, etc.) and based on normative requirements EN12663
- Compliant with UIC pocket envelop
- Positive cold climate tests
- Successful operational tests on 5L train

Specifications

Space envelop head	X 420 mm ; Y 450 mm ; Z 380 mm (about 72 liters)
Total length	37,5 kg
Total weight	280 kg
Draw force	1000 kN (optional 1500 kN)
Compression force	1500 kN (optional 2000 kN)
Automatic coupling	Optional
Automatic air connection	Two Pipes
Dataline and Powerline coupling	Optional



To discover the benefits the **Automatic Freight Coupler** can bring to your operations, please contact:

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