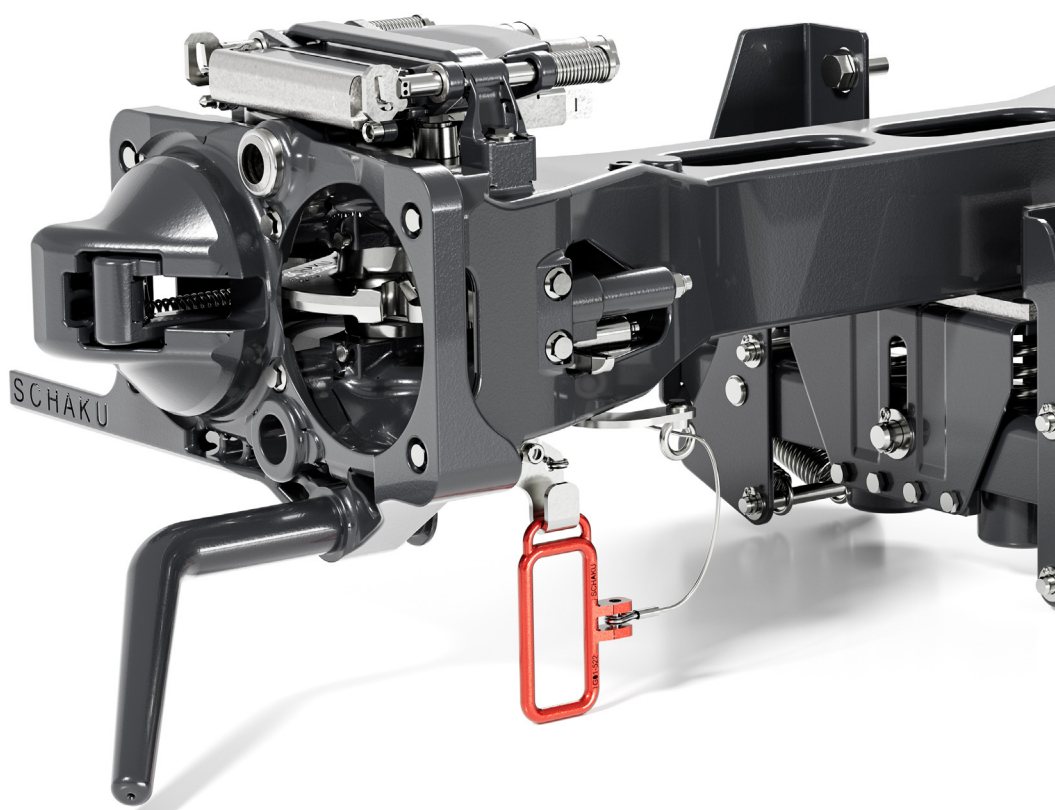


CargoFlex

Technical data



Benefits

- + Proven in commercial operation since 2019
- + TSI compatible for easy admission
- + Winter proven
- + Maintenance friendly
- + Weight optimised
- + Future oriented

Technical data

Characteristics	Value	In compliance with	Remarks
Admissible force, tension	1000 kN (yield strength) / >1500 kN (rupture load)	EN 12663, UIC 522, UIC 530	Separate load paths for tension/ compression (higher fatigue strength); no screw connection in the load path (easy maintenance)
Admissible force, pressure	2000 kN (yield strength)	EN 12663, UIC 522, UIC 530	
Deflection angle, horizontal	±17° up to 50 mm stroke; ±12° from 50 mm to 110 mm stroke	acc. to diagram UIC 530-1	
Deflection angle, vertical	±6°	acc. to diagram UIC 530-1	
Min. coupling speed	0.6 km/h		
Max. coupling speed	Up to 12 km/h	EN 12663 / category F-I	Validated through numerous tests, reversible energy absorption
Interfaces	Acc. to UIC 530	UIC 530	
Articulation length	1000 mm		Pivot to coupler face
Gathering range, horizontal	+275 mm/-370 mm	EN16019 / TSI HGV, UIC 522	Interoperability requirements, gathering range requirements UIC 522
Gathering range, vertical	±140 mm	EN16019 / TSI HGV, UIC 522	
Coupling on/driving through curved tracks, marshaling humps, ferry ramps	Acc. to UIC 522 chapter 3 requirements	UIC 522	
Minimum curve radius	r75 m		For nearly all standard wagons
Coupler head	Based on Scharfenberg coupler	EN16019 / TSI HGV, UIC 522	Standard throughout Europe
Electric head	Energy backbone (400V AC) & data backbone		Optional, also as retrofit solution
Uncouple device	Manual (option: automatic)	UIC 522, 2.1a , 3.2b	Manual uncoupling from vehicle side
Coupler joint	Stabilising linkage, restoring under compressive load, coupler to be swivelled manually	UIC 523, UIC 530-2	Reduced risk of derailment; slack in linkage for starting longer and heavier trains (optional: backlash compensation device)
Weight	~410 kg ~55 kg ~20 kg		Mechanical DAC Fixing elements of draftgear E-coupler and components
Stroke on draft	60 mm	UIC 524, UIC 530, EN 15227	UIC 524: spring devices for wagons with autom. couplers, reference freight wagon acc. to UIC 524; UIC 530: mounting area/interfaces;
Stroke on buff	120 mm	UIC 524, UIC 530, EN 15227	
Energy absorption dynamic (reversible)	75 kJ	UIC 524, UIC 530, EN 15227	EN 15227: optional enhancements to get a crash proof system
Crash energy abs. (irrevers.)	In preparation	UIC 524, UIC 530, EN 15227	
Diameter of brake pipe	1 1/4"		
Pressure in brake pipe	5 bar	EN16019	
Environmental conditions	-40°C up to +45°C	EN 50125-1	
Fire protection class	HL2	EN 45545	
Options and additional modules	Manual uncouple device with position for marshaling hump, MRP, automatic uncoupling	EN 15227, EN 16019, TSI, UIC 522	

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