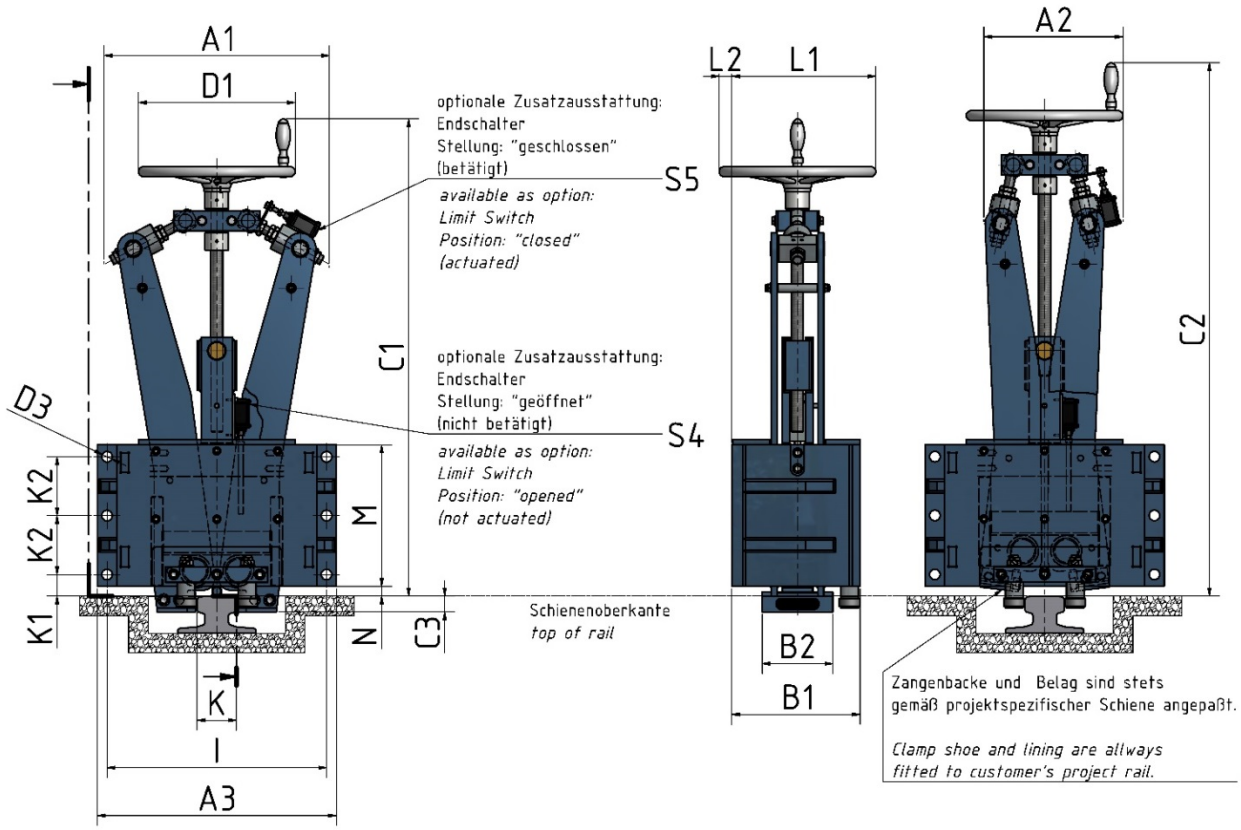
Rail Clamp
ZWVM-SG (with floating housing)



Functional principle:

- manual closing and opening
- indicator for pre-clamping
- optional limit switches monitor clamp position "closed" or "opened"

Design:

- flange mounting to the front of the rail vehicle by screws
- assembly of buffers possible optional floating housing for the horizontal movement within the wheel flange clearance to recommend SG-ZWVM/ZWVE
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- Clamp shoes are lifted above the top of the rail when the clamp is opened, therefore no danger of collision
- Assembly of buffers of all types is possible, fastening devices for the buffers are provided for each individual order
- Bolts of stainless steel and lined bearings increase operational safety and lifetime
- Disk spring package to maintain holding force
- clamp shoes with linings are adapted to the rail profile
- horizontal movement with floating housing +/- 25 mm

Technical Data

Designation	Holding force kN		Weight kg
Friction coefficient	μ = 0,25	μ = 0,4	
ZWVM-1 32	20	32	180
ZWVM-2 63	40	63	370
ZWVM-3 100	62	100	530

Dimensions

Gr .	$A1_{max}$ mm	$A2_{max}$ mm	A3 mm	B1 mm	B2 mm	C1 mm	C2 mm	C3[1] mm	D1 mm	D3 mm	l mm	K_{max}[2] mm	K1 mm	K2 mm	L1 mm	L2 mm	M mm	N mm
1 32	485	325	500	280	144	880	1010	40	315	27	450	65	66	150	300	15	360	36
2 63	575	355	610	330	180	1220	1360	40	400	27	560	100	55	150	366	35	360	25
3 100	550	310	560	365	180	1465	1605	40	500	M24	510	120	115	170	440	60	480	25

1) The data for C3 are benchmark information. C3 depends on rail profile – therefore please ask for specific project data.
2) The maximum width of rail head K_{max} is defined for standard design. Larger width of rail heads could be confirmed on request.

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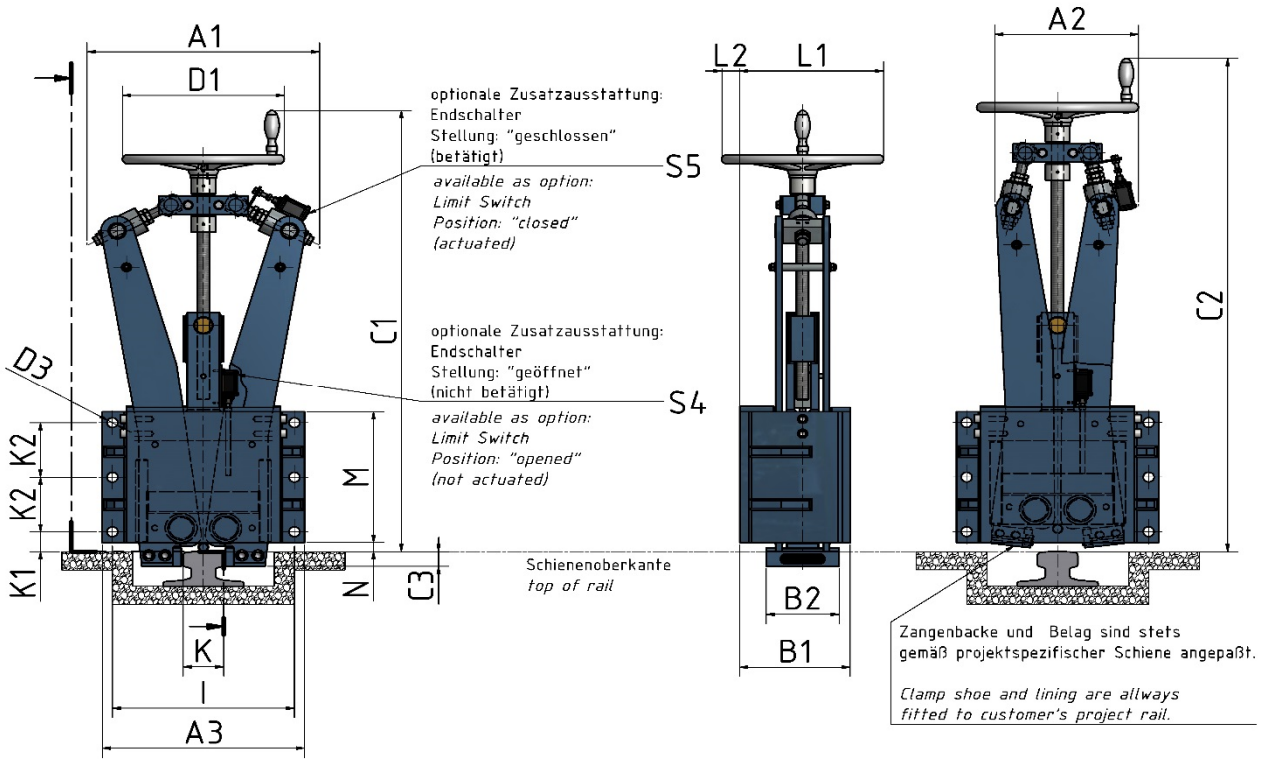
Rail Clamp
ZWVM (without floating housing)



Functional principle:

- manual closing and opening
- indicator for pre-clamping
- optional limit switches monitor clamp position "closed" or "opened"

Design:

- flange mounting to the front of the rail vehicle by screws
- assembly of buffers possible optional floating housing for the horizontal movement within the wheel flange clearance to recommend SG-ZWVM/ZWVE
- Optional floating housing for the horizontal movement within the wheel flange clearance to recommend SG-ZWVE/ZWVM
-

- Clamp shoes are lifted above the top of the rail when the clamp is opened, therefore no danger of collision
- Assembly of buffers of all types is possible, fastening devices for the buffers are provided for each individual order
- Bolts of stainless steel and lined bearings increase operational safety and lifetime
- Disk spring package to maintain holding force
- clamp shoes with linings are adapted to the rail profile
- horizontal movement -/+ 7 mm

Technical Data

Designation	Holding force kN		Weight kg
Friction coefficient	μ = 0,25	μ = 0,4	
ZWVM-1 32	20	32	120
ZWVM-2 63	40	63	240
ZWVM-3 100	62	100	340

Dimensions

Gr .	$A1_{max}$ mm	$A2_{max}$ mm	A3 mm	B1 mm	B2 mm	C1 mm	C2 mm	C3[1] mm	D1 mm	D3 mm	l mm	K_{max}[2] mm	K1 mm	K2 mm	L1 mm	L2 mm	M mm	N mm
1 32	485	325	380	245	144	880	1010	40	315	18	340	65	66	120	298	17	315	36
2 63	575	355	500	275	180	1220	1360	40	400	27	450	100	55	150	355	45	360	25
3 100	550	310	560	280	180	1465	1605	40	500	27	510	120	115	170	408	92	480	25

1) The data for C3 are benchmark information. C3 depends on rail profile – therefore please ask for specific project data.
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