



**TECHNICAL CHARACTERISTICS
OF FOUR-WHEEL ELECTRIC DRIVEN FORK LIFT TRUCKS
VRE series**

CHARACTERISTICS	1	Type	Conditional Designation	VRE1,25	VRE1,5	VRE2,0		
	2	Useful load	Q	Load capacity	kg	1250	1500	2000
	3	Distance from the center of gravity/Load center	c	Distance from the center of gravity to the fork face	mm	500		
	4	Drive unit		Electrical (storage battery)	battery			
	5	Type of operation		Driver (standing, sitting, etc.)	sitting			
	6	Tyres		L-pneumatic, SE-super elastic, V-solid front/rear	L (SE; V)			
	7	Wheels (x-driven)		Number front/rear	pce	2x/2		
DIMENSIONS	8	Lifting mast	h ₃	Maximum lift height	mm	from 2200 to 4500	3300/4500	
	9		h ₂	Normal free lift	mm	50	70	
	10		h ₅	Special (full) free lift by lifting height 4500 mm	mm	1520	1500	
	11	Fork carriage		According to ISO 2328-93	2A			
	12	Fork dimensions		Length	mm	1150		
	13	Mast tilt angle		α - forward / β - backward	< (°)	4°30' / 9°		
	14	Overall dimensions	L ₂	Length, incl. fork face	mm	2100	2115	
	15		B	Width	mm	1040	1185	
	16		h ₁	Height, mast lowered	mm	1680/2200	2200	
	17		h ₄	Height, maximum mast raised	mm	2780/5100	3900/5105	
	18		h ₆	Height to overhead guard	mm	2130	2190	
	19		h ₇	Height of seat	mm	1100	1055	
	20	Turning radius	Wa	Outer turning radius	mm	1875	1900	

	21	Load distance	x	From the front axle center to the fork face	mm	352		415
	1	Type		Conditional Designation		VRE1,25	VRE1,5	VRE2,0
	22	Working aisle width	Ast	For pallets 1200x800 / 1200x1000	mm	3450/3650		3665/3680
PERFORMANCES	23	Speed		Travel loaded/unloaded	km/h	12 / 14	10 / 11	13/15
	24			Lifting loaded/unloaded	cm/s	28 / 35	24 / 30	32/42
	25			Lowering loaded/unloaded	cm/s	60 max / 20 min		60/32
	26	Rated drawbar pull		S2=60 min loaded/unloaded	kN	0,5		1,7
	27	Maximum drawbar pull		S2= 5 min loaded/unloaded	kN	2		7
	28	Gradient performance		S2=30 min loaded/unloaded	%	2/4		4/8
				S2=5 min loaded/unloaded	%	7/11		12/18
	29	Maximum gradient performance		S2= 1 min loaded/unloaded	max %	11/16		21/23
WEIGHT	30	Dead weight		Battery incl.	kg	2810	2910	4100
	31	Axle load		With max load front/rear	kg	3360 / 700	3910 / 600	5450/600
				Without load front/rear	kg	1300 / 1510	1380 / 1530	2000
CHASSIS	32	Tyres		Number front/rear	pce	2/2		2/2
	33			Tyre size front	mm/in	21x8-9		7,00x12
	34			Tyre size rear	mm/in	5,00-8		18x7-8
	35	Wheelbase	y		mm	1365		1440
	36	Track		front/rear	mm	820/900		960/876
	37	Ground clearance	m ₁	At lowest point with load	mm	100		110
	38		m ₂	At wheel base center with load	mm	115		130
	39	Service brake		Foot (mech.,hydr.,electr.,pneum.,comb.)		Hydraulic		
40	Parking brake		Hand, foot (mech. / mech. with electr. switch off)		handbrake/mechanical			
DRIVE	41	Storage battery		Type		panzer		
	42			Voltage/capacity at 5-hour discharge	V/Ah	80 / 210	80/240	80/280
	43	Electric motors		Traction/capacity at S ₂ =60 min	kW	3,6		9
	44			Auxiliary/capacity at S ₄ =25%	kW	6,5		10
	45			Hydroamplifier of rudder	kW	0,7		
	46	Speed control		Type / Stages		electronic/stepless		
	47	Transmission		Type / Stages		Mechanical		
48	Rated operating pressure		For exchange attachments	Mpa	12			
49	Noise level		Admissible at operator's seat	dB	70-72			