



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

	CHARACTERISTICS			DIMENSIONS			
	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		
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		$\alpha$ - forward / $\beta$ - backward	< ( $^\circ$ )	4 $^\circ$ 30' / 9 $^\circ$		
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
	<b>1</b>	<b>Type</b>		<b>Conditional Designation</b>		<b>VRE1,25</b>	<b>VRE1,5</b>	<b>VRE2,0</b>
	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 <sub>1</sub>	At lowest point with load	mm	100		110
	38		m <sub>2</sub>	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 <sub>2</sub> =60 min	kW	3,6		9
	44			Auxiliary/capacity at S <sub>4</sub> =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			