

VG series

2,200kg / 2,500kg / 3,000kg /
3,200kg / 3,500kg

Compact Electric Forklift Trucks



- New high Visibility Masts and optional Side Shifting Fork Positioner
- YaleStop automatic park brake eliminates uncontrolled roll-back on ramps
- Password protected eLo and HiP performance settings
- CANbus technology
- High-performance AC motor technology
- Continuous Stability Enhancement

VDI 2198 – General Specifications

	Yale	Yale	Yale	Yale	Yale	Yale	Yale
Distinguishing mark							
1.1 Manufacturer (abbreviation)	Yale	Yale	Yale	Yale	Yale	Yale	Yale
1.2 Manufacturer's type designation	ERCV22G SWB	ERC22VG MWB	ERC22VG SWB	ERC22VG MWB	ERC22VG MWB	ERC22VG LWB	ERC22VG LWB
1.3 Drive: electric (battery or mains), diesel, petrol, fuel gas	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)
1.4 Operator type: hand, pedestrian, standing, seated, order-picker	Seated	Seated	Seated	Seated	Seated	Seated	Seated
1.5 Rated capacity/rated load	Q (t)	2.2	2.2	2.5	2.5	3.0	3.2
1.6 Load centre distance	c (mm)	500	500	500	500	500	500
1.7 Load distance, centre of drive axle to fork	x (mm)	390	390	390	402	402	402
1.8 Wheelbase	y (mm)	1230	1377	1230	1377	1545	1545
Weights							
2.1 Service weight *	kg	4530	4650	4710	4650	5090	5180
2.2 Axle loading, laden front/rear *	kg	5574 / 1150	5601 / 1234	6041 / 1168	6098 / 1043	6963 / 1126	7271 / 1168
2.3 Axle loading, unladen front/rear *	kg	1809 / 2715	2009 / 2632	1762 / 2947	2009 / 2632	2031 / 3059	2233 / 2948
Tyres/brakes							
3.1 Tyres: P=pneumatic, V=viculon, SE=superelastic	V	V	V	V	V	V	V
3.2 Tyre size, front	21 x 8 x 15	21 x 8 x 15	21 x 8 x 15	21 x 8 x 15	21 x 8 x 15	21 x 8 x 15	21 x 8 x 15
3.3 Tyre size, rear	18 x 6 x 10.5	18 x 6 x 10.5	18 x 6 x 10.5	18 x 6 x 10.5	18 x 6 x 10.5	18 x 6 x 10.5	18 x 6 x 10.5
3.5 Wheels, number front/rear (x = driven wheels)	2K / 2	2K / 2	2K / 2	2K / 2	2K / 2	2K / 2	2K / 2
3.6 Tread, front	b ₁₀ (mm)	905 / 1039	905 / 1039	905 / 1039	905 / 1039	905 / 1039	929 / 1013
3.7 Tread, rear	b ₁₁ (mm)	940	940	940	940	915	915
Dimensions							
4.1 Tilt of mast/fork carriage forward/backward	o / -o (°)	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5
4.2 Height, mast lowered	h ₁ (mm)	2235	2235	2235	2235	2235	2235
4.3 Free lift ▲	h ₂ (mm)	100	100	100	100	100	100
4.4 Lift ▲	h ₃ (mm)	3452	3452	3452	3259	3259	3259
4.5 Height, mast extended +	h ₄ (mm)	4049	4049	4049	3954	3954	3954
4.7 Height of overhead guard (cabin) △	h ₅ (mm)	2248	2248	2248	2248	2248	2248
4.7.1 Cab height (open cab)		2286	2286	2286	2286	2286	2286
4.8 Seat height relating to SfP/stand height ×	h ₆ (mm)	1217	1217	1217	1217	1217	1217
4.12 Coupling height	h ₁₂ (mm)	280	280	280	280	280	280
4.19 Overall length	l ₁ (mm)	3016	3040	3143	3199	3343	3367
4.20 Length to face of forks □	l ₂ (mm)	2016	2040	2143	2199	2343	2367
4.21 Overall width	b ₁₂ /b ₁₃ (mm)	1070 / 1242	1070 / 1242	1070 / 1242	1070 / 1242	1108 / 1242	1108 / 1242
4.22 Fork dimensions DIN ISO 2331	s/h/l (mm)	100 / 40 / 1000	100 / 40 / 1000	100 / 40 / 1000	100 / 40 / 1000	125 / 50 / 1000	125 / 50 / 1000
4.23 Fork carriage ISO 2328, class/type A, B		2A	2A	2A	3A	3A	3A
4.24 Fork carriage width ●	b ₃ (mm)	977	977	977	977	977	977
4.31 Ground clearance, laden, below mast	m ₁ (mm)	85	85	85	85	85	85
4.32 Ground clearance, centre of wheelbase	m ₂ (mm)	92	92	92	92	92	92
4.33 Load dimension b ₁₄ x l ₄ crossways	b ₁₄ x l ₄ (mm)	1200 x 1000	1200 x 1000	1200 x 1000	1200 x 1000	1200 x 5000	1200 x 1000
4.34 Aisle width predetermined load dimensions	A ₁₅ (mm)	3329	3475	3351	3475	3518	3676
4.34.1 Aisle width with pallets 1 000 x 1 200 wide	A ₁₅ (mm)	3329	3475	3351	3475	3518	3676
4.34.2 Aisle width with pallets 800 x 1 200 long	A ₁₅ (mm)	3525	3674	3547	3674	3717	3876
4.35 Turning radius	W ₁ (mm)	1735	1884	1757	1884	1915	2074
4.36 Internal turning radius	b ₁₅ (mm)	501	501	501	561	630	630
4.41 90° turning aisle with pallet W = 1200mm, L = 1000mm	(mm)	1774	1824	1781	1824	1853	1941
4.42 Step height (from ground to running board)	(mm)	772	772	772	772	772	772
4.43 Step height	(mm)	475	475	475	475	475	475
Performance data							
5.1 Travel speed, laden/unladen ▶	km/h	19.6 / 19.7	19.6 / 19.7	19.6 / 19.7	19.9 / 19.7	19.4 / 19.7	19.0 / 19.7
5.2 Lift speed, laden/unladen	m/s	0.52 / 0.72	0.52 / 0.72	0.52 / 0.72	0.49 / 0.72	0.42 / 0.63	0.40 / 0.63
5.3 Lowering speed, laden/unladen	m/s	0.57 / 0.51	0.57 / 0.51	0.57 / 0.51	0.57 / 0.51	0.56 / 0.46	0.57 / 0.46
5.5 Drawbar pull, laden/unladen †	N	13460 / 14271	13460 / 14271	13315 / 14271	13315 / 14271	12963 / 14150	12837 / 14129
5.6 Max. drawbar pull, laden/unladen ***	N	22100 / 16785	22100 / 16785	21914 / 16785	21914 / 16785	21485 / 17272	21342 / 18165
5.7 Gradeability, laden/unladen ****	%	20 / 32	20 / 32	19 / 32	19 / 32	16 / 29	16 / 28
5.8 Max. gradeability, laden/unladen ***	%	34 / 39	34 / 39	33 / 39	33 / 39	28 / 36	26 / 37
5.9 Acceleration time, laden/unladen ▶	s	4.9 / 4.9	4.9 / 4.9	4.9 / 4.9	4.9 / 4.9	4.9 / 4.9	4.9 / 4.9
5.10 Service brake		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Electric engine							
6.1 Drive motor rating S2 60 min	kW	23.6	23.6	23.6	23.6	23.6	23.6
6.2 Lift motor rating at S3 15%	kW	24.0	24.0	24.0	24.0	24.0	24.0
6.3 Battery according to DIN 43531/35/36 A, B, C, no	No	No	No	No	No	No	No
6.4 Battery voltage/nominal capacity K5	(V/Ah)	80 / 375	80 / 450	80 / 375	80 / 450	80 / 600	80 / 600
6.5 Battery weight (min./max.)	kg	1050 / 1500	1320 / 1770	1050 / 1500	1320 / 1770	1550 / 2000	1550 / 2000
6.6 Energy consumption according to VDI cycle	Wh/m ³ /t/1000	6.31	6.31	6.31	6.70	7.89	8.58
Addition data							
10.1 Operating pressure for attachments	bar	155	155	155	155	155	155
10.2 Oil volume for attachments ▶	l/min	20-40	20-40	20-40	20-40	20-40	20-40
10.3 Hydraulic oil tank, capacity	l	29.7	29.7	29.7	29.7	29.7	29.7
10.7 Sound pressure level at the driver's seat *	dB(A)	67	67	67	67	67	67
10.8 Towing coupling, type Dih	Pin	Pin	Pin	Pin	Pin	Pin	Pin
▪ Max. battery	▪ Full suspension in compressed condition, add 40mm for nominal position	▪ Maximum flow set through dash display	▪ eLo performance setting	Specification sheet truck based on Standard seat and overhead guard with standard side shift carriage and 1000mm forks with extended shift on 2 stage LFL mast - EPC22-25VG 3490mm, EPC30-35VG 3305mm			
▼ Bottom of forks		▪ UNL2 measured according to the test cycles and based on the weighting values contained in EN12850	□ With side shift carriage add 36mm for 22VG SWB, 37mm for 25VG MWB-25VG, 31mm for 30VG-32VG, 30mm for 35VG				
♦ Without load bracket	● Add 43mm with load bracket						
All figures subject to +/- 5mm tolerance							