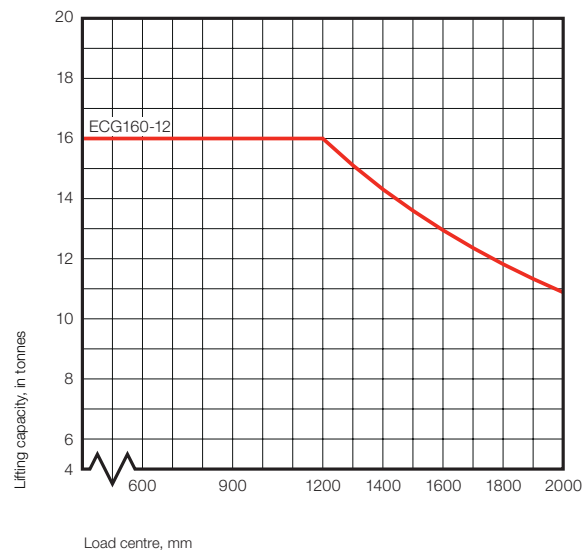
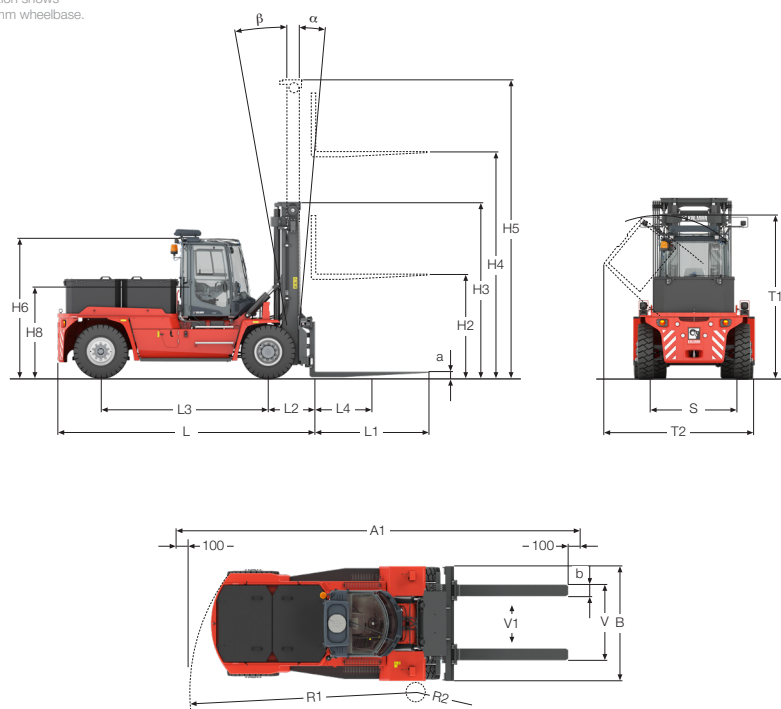


ECG160-12 | Electrical drivetrain | Duplex, clear view, free lift - LH 4000

Lifting data		ECG160-12
Lifting capacity, rated (kg)		16000
Lifting speed, unloaded – at 70% of rated load (m/s)		0,35 - 0,35
Lowering speed, unloaded – at rated load (m/s)		0,40 - 0,40
Driving data		
Travelling speed forward, unloaded – at rated load (km/h)		25 - 25
Travelling speed backward, unloaded – at rated load (km/h)		25 - 25
Gradeability max., unloaded – at rated load (%)		22 - 13
Gradeability at 2 km/h, unloaded – at rated load (%)		21 - 12
Drawbar pull, max. (kN)		53
Weight of truck		
Weight, with battery - without battery (kg)		-
Axle load front, unloaded – at rated load (kg)		-
Axle load rear, unloaded – at rated load (kg)		-
Drivetrain		
Drive axle – type		Differential and hub reduction
Drive motor, hourly capacity (kW)		2 x 37 kW
Speed control, principle – number of steps		High frequency MOSFET, AC - Stepless
Pump motor hydraulics, intermittent capacity – duty factor (kW)		2 x 50 kW - S3 15%
Pump motor brakes, intermittent capacity – duty factor (kW)		1x 2,5kW - S1 100%
Pump control, principle – number of steps		High frequency MOSFET, AC - Stepless
Battery		
Battery type		Lead-Acid
Number of batteries		2
Dimensions, W x H x L (mm)		1638x1150x780
Capacity at 5h discharging – voltage (Ah – V)		2x1085 - 120
Max. charging current (A – V)		x - 120
Weight, with battery - without battery (kg)		25000 - 17200
Wheels		
Type		Pneumatic
Dimension, front – rear (inch)		12.00R20
Number of wheels, front – rear (*driven)		4* - 2
Pressure (MPa)		1,0
Miscellaneous		
Steering system, type – maneuvering		Hydraulic servo - Steering wheel
Service brake system, type – affected wheels		Oil cooled disc brakes – Drive wheel
Parking brake system, type – affected wheels		Dry, spring activated disc brakes - Drive wheel
Max. hydraulic pressure (MPa)		20,0
Noise level EN12053 with ECO modes - equivalent inside cabin LpAZ (dB(A))		69
Noise level EN12053 with ECO-modes - equivalent outside cabin LwAZ (dB(A))		100
Hydraulic oil volume (l)		220

Illustration shows
3500 mm wheelbase.



Dimensions

Length of truck (mm)	L	5420
Width of truck (mm)	B	2540
Height of basic machine (mm)	H6	2920
Height of seat (mm)	H8	1790
Distance between centre of front axle – front face of fork arm (mm)	L2	1000
Wheelbase (mm)	L3	3500
Load centre (mm)	L4	1200
Track (c-c), front – rear (mm)	S	1855 – 1960
Turning radius, outer – inner (mm)	R1-R2	4785 – 420
Ground clearance, min. (mm)		350
Max. height when tilting cab (mm)	T1	3390
Max. width when tilting cab (mm)	T2	3380
Min. aisle for 90° stacking with forks (mm)	A1	8385
Lifting height (mm)	H4	4000
Mast height, min. (mm)	H3	3695
Mast height, max. (mm)	H5	5695
Free lift (mm)		2000
Tilting of mast, forward - backward (°)	α - β	5 - 10
Fork width (mm)	b	250
Fork thickness (mm)	a	100
Length of forkarm (mm)	l	2400
Width across fork arms, max. - min. (mm)	V	2360 – 700
Sideshift \pm at width of across fork arms (mm)	V1-V	415 – 1530

The design and materials specification are subject to alternation without prior notice.
Tolerances according to K-standard 95430.0008/0009



Kalmar (Nasdaq Helsinki: KALMAR) is moving goods in critical supply chains around the world, with the vision to be the forerunner in sustainable material handling equipment and services. The company offers a wide range of industry shaping heavy material handling equipment and services to ports and terminals, distribution centres, manufacturing and heavy logistics. Headquartered in Helsinki, Finland, Kalmar operates globally in over 120 countries and employs approximately 5.000 people. In 2023, the company's sales on a carve-out basis totalled approximately EUR 2,0 billion.
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