carer
Electric Forklift Trucks

Z SERIES

Capacity 14,000-16,000 kg
Centre of gravity 600 mm
Voltage 120 V
Vulkollan® tyres
Ensure high residual capacity, compact size and maximum stability

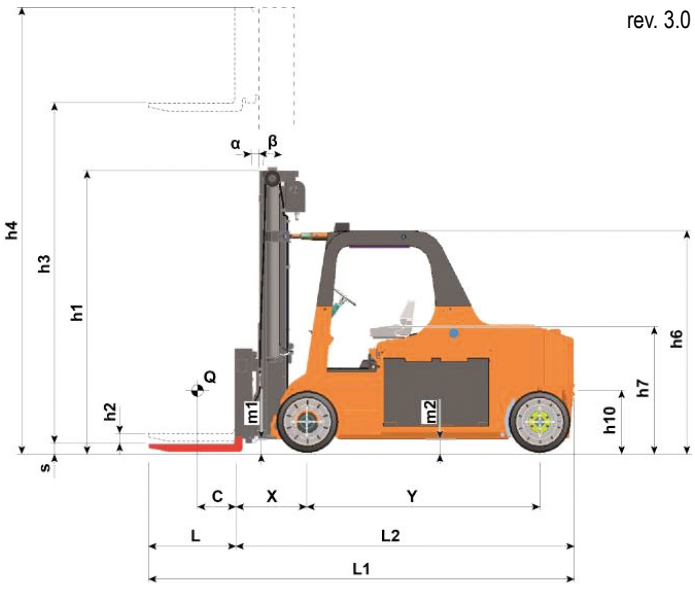


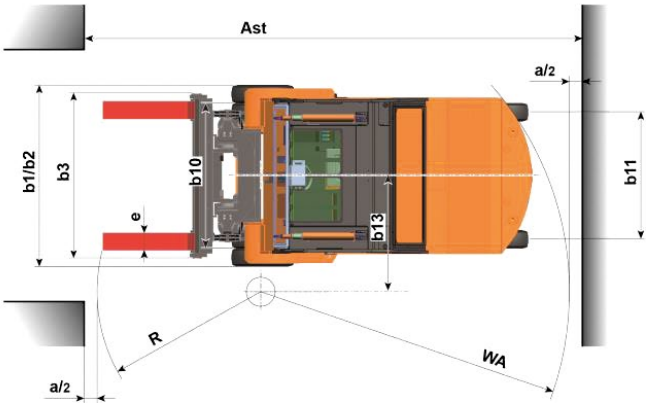
Z140 H
Z150 H
Z160 H

rev. 3.0

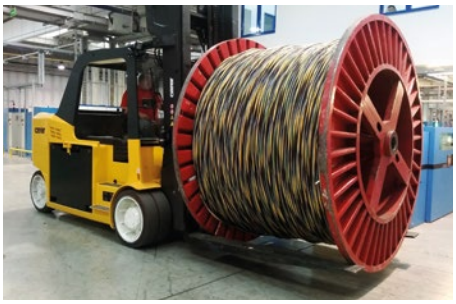
MAIN FEATURES

- Capacity: 14,000-16,000 kg
- Centre of gravity: 600 mm
- Voltage: 120 V
- Tyres: Vulkollan®
- Motors: AC
- Brakes: oil immersed
- Travel speed: 13 km/h
- Lifting speed: 0.36 m/s
- Battery 120 V - Maximum capacity 1320 Ah
- Multifunction display easy info (MDE)
- High positioned tilt cylinders





THE BENEFITS OF CHOOSING CARER



Made with Vulkollan® tyres in order to obtain a max capacity of 16.000 kg with a very compact and sturdy frame, this truck is ideal for moving heavy loads in enclosed and confined areas.

The position of the batteries between the axles ensures an extremely low centre point of gravity in order to increase the stability. The lateral battery extraction allows to change the battery very quickly and safety. The drive position is comfortable and accessibility is excellent.



A convenient handle and two wide steps provide easy access to the driving position.

The layout of the controls and instruments on board perfectly meet the ergonomic dimensioning. The driving unit allows perfect visibility in all directions.

The Carer high-performance electric motors are powerful and specifically designed for heavy duty applications thanks to the ability of Carer to use the most advanced electric technologies.



This truck is available in different battery configuration in order to set it to the specific application.

Z 140 H
Z 150 H
Z 160 H

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Electric Forklift Trucks

IDENTIFICATION	1.1	Manufacturer			C.A.R.E.R. Srl		
	1.2	Manufacturer's type designation			Z 140 H	Z 150 H	Z 160 H
	1.3	Drive			electric	electric	electric
	1.4	Operator type			seat	seat	seat
	1.5	Load capacity/rated load	Q	(t)	14	15	16
	1.6	Load centre distance	C	(mm)	600	600	600
	1.8	Load distance	X	(mm)	815 (1) (2)	850 (1) (2)	850 (1) (2)
	1.9	Wheelbase	Y	(mm)	2700	2700	2700
WEIGHTS	2.1	Weight		(kg)	21470	22770	24650
	2.2	Axle loading, laden front / rear		(kg)	32265 / 3205	34600 / 3170	36854 / 3796
	2.3	Axle loading, unladen front / rear		(kg)	10930 / 10540	11540 / 11230	12260 / 12390
WHEELS	3.1	Tyres type			VLK	VLK	VLK
	3.2	Tyre size, front			711x(203+203)	711x(203+203)	711x(203+203)
	3.3	Tyre size, rear			711x203	711x203	711x203
	3.5	Wheels, number front rear (x = driven wheels)			2X / 2	2X / 2	2X / 2
	3.6	Track width, front	b10	(mm)	1605	1605	1605
	3.7	Track width, rear	b11	(mm)	1400	1400	1400
DIMENSIONS	4.1	Tilt of mast / fork carriage forward / backward	α/β	(°)	7 / 10 (2)	7 / 10 (2)	7 / 10 (2)
	4.2	Closed mast height	h1	(mm)	2950	3340	3340
	4.3	Free lift	h2	(mm)	0	0	0
	4.4	Lift (standard mast)	h3	(mm)	3400	3400	3400
	4.5	Height, mast extended	h4	(mm)	4850	5260	5260
	4.7	Height of overhead guard	h6	(mm)	2560	2560	2560
	4.8	Seat height	h7	(mm)	1400	1400	1400
	4.12	Coupling height	h10	(mm)	860	860	860
	4.19	Overall length	L1	(mm)	5165	5200	5200
	4.20	Length to face of forks	L2	(mm)	3965	4000	4000
	4.21	Overall width	b1/b2	(mm)	2000	2000	2000
	4.22	Fork dimensions	ExSxL	(mm)	200x70x1200	200x70x1200	200x80x1200
	4.23	Fork carriage iso 2328/30, FEM/A,B			CARER	CARER	CARER
	4.24	Fork-carriage width	b3	(mm)	1800	1800	1800
	4.31	Ground clearance, laden, below mast	m1	(mm)	180	180	180
	4.32	Ground clearance, centre of wheelbase	m2	(mm)	150	150	150
	4.33	Aisle width for pallets 1000x1200 crossways	Ast	(mm)	5770	5800	5800
	4.34	Aisle width for pallets 800x1200 lengthways	Ast	(mm)	5970	6000	6000
	4.35	Turning radius	Wa	(mm)	3750	3750	3750
	4.36	Internal turning radius	b13	(mm)	1600	1600	1600
PERFORMANCE	5.1	Travel speed, laden / unladen		(km/h)	12 / 13	10.5 / 11.5	9 / 10
	5.2	Lift speed, laden / unladen		(m/s)	0.21 / 0.36	0.26 / 0.33	0.22 / 0.28
	5.3	Lowering speed, laden / unladen		(m/s)	0.5 / 0.4	0.4 / 0.4	0.35 / 0.4
	5.5	Drawbar pull, laden / unladen (S2 60')		(N)	17900 / 19800	16300 / 18000	13900 / 15300
	5.6	Max. drawbar pull, laden / unladen (S2 5')		(N)	53700 / 55600	48900 / 50600	41550 / 43000
	5.7	Gradeability, laden / unladen (S2 30')		(%)	10 / 17	9,2 / 15,8	8 / 13
	5.8	Max. gradeability, laden / unladen (S2 5')		(%)	14.5 / 25.5	13.1 / 23.2	11 / 18
	5.9	Acceleration time, laden / unladen (10 m)		(s)	6.8 / 5.6	6.1 / 5.1	5 / 4.3
	5.10	Service brake			hydraulic/electric	hydraulic/electric	hydraulic/electric
MOTOR / BATT.	6.1	Drive motor rating (S2 60')		(kW)	35	35	35
	6.2	Lift motor rating (S3 20%)		(kW)	2x35	2x35	2x35
	6.4	Battery voltage	U	(V)	120	120	120
	6.4.1	Rated capacity	K5	(Ah)	1120 / 1240 / 1320 (TENSOR)	1120 / 1240 / 1320 (TENSOR)	1120 / 1240 / 1320 (TENSOR)
	6.5	Battery weight minimum/maximum		(kg)	4400 / 4700	4400 / 4700	4400 / 4700
OTHERS	8.1	Type of drive control			inverter	inverter	inverter
	8.2	Operating pressure for attachments		(bar)	160	160	160
	8.4	Sound level at the driver's ear		(dBA)	-	-	-

VDI 2198

Rev6 03/04/2015

(1) With side-shifter integrated in the mast. (2) Depending on kind of mast.

Wheels tyre legend: SE super elastic - SEGEM super elastic twins - C cushion - L pneumatic - VLK vulkolan.
The performance data refer to a forklift truck in perfect working condition, with battery weight corresponding to the values given in 6.5.

In accordance with VDI Guideline 2198 this specification sheet provides details of the standard truck only. Non-standard tyres, different masts, optional equipment, etc. may result in different values.
The C.A.R.E.R. products and specifications are subject to change without notice.

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