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carer

the power of clean energy

F16M

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The Carer forklifts range is meant to be a practical response to the demands of handling many application areas.
And ‘the fruit of attention and listening to our customers who have reserved all these years.
We understand however that every activity and every company has its own characteristics that determine its competitive advantage.
So we are ready to share your ideas and transform them as quickly as possible in a new logistics solution.

Carer has a wide range of three and four wheels electric forklifts with capacity ranging from 0.8 to 25 t, chosen by careful, demanding and international customers.

carer F16M

F16M is the space saver forklift

The innovative 180° twin wheels rear steering axle, the four actual rest points assured by the trapezoidal area of stability and the extreme stiffness of its frame, grant high residual capacities to great lift heights.
Among the traditional 4-wheels trucks of equal capacity, F16M stand out for its reduced stowage isle and turning radius.
F16M is the real alternative to the reach-trucks because it keeps all the exciting performances of all Carer lift trucks concentrated in the smallest space possible with all the advantages and comfort of the usual front drive.
Performances, safety, reliability:
F16M
is guarantee of quality for your job

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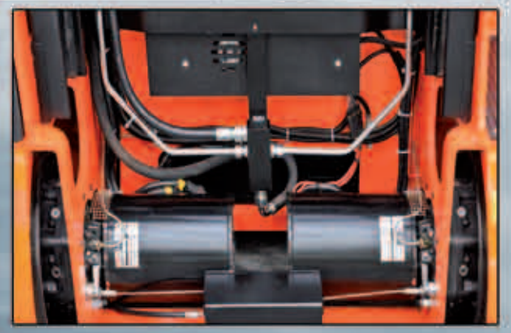
COMFORT
Despite its small size F16M driver's seat offers a high standard comfort and make possible long stay on board.
The steering wheel has a tilt steering column and seat is fully adjustable.
Controls are arranged rationally and are also easily reachable.
The instrument panel has a large range of indicator lights and incorporates a liquid crystal display.

INSTRUMENTATION
Forklift drivers should never be distracted. All details on the functionality of the truck are condensed into a single, comprehensive tool of control "Easy Info" that consists of a set of warning lights and a display showing the hours worked and the state of battery charge. When the battery reaches the download limit, the Easy Info locks the lifting function.

ELECTRONICS
All truck functions are managed by a sophisticated microprocessor-controlled high frequency MOSFET electronics and regenerative braking. The chopper is protected against rainwater infiltration and is cooled by apposite fans. Installation behind the driver's seat facilitates accessibility and maintenance.



MOTORS
Two AC (alternating current) electric motors are characterized by high efficiency and torque.
The electronically dosed power confers unparalleled acceleration, speed and maneuverability. The pump motor is DC.

DRIVE
The front differential gear is made of two units with helical gears connected to the front wheels.

MASTS
The lift units allow excellent visibility.
The mast profiles are cold treated to provide optimum resistance to bending and twisting.
The integrated side shift does not reduce the rated capacity of the truck.
The mast and truck frame are tightly joined to improve the overall

STEERING AXLE
The innovative twin rear axle allows to obtain a 180° steering angle.
F16M steers as a real three wheel truck. Furthermore, to improve operator's safety, the new CARER rear axle performs a trapezoidal area of stability assuring four actual rest points. Twin rear wheels.

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BRAKING SYSTEM
The brake is a multi-disc equipped with an extraordinary effective oil-bath system.
The braking system is powerful and can be easily modulated.
The friction material used is asbestos free.
The electronic braking energy regeneration occurs by reversing the direction of travel, released and lightly pressing the brake pedal.

TYRES
Cushion tyres are fitted as standard.
With lifting heights higher than 6000 mm F16M is fitted with front wulkollan tyres.

BATTERY
F16M adopts two batteries (80V – 460 Ah) that can be taken out sideways by special rolls equipment.

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ELECTRIC FORKLIFTS **F16M**

SPECIFICATION	1,1	Manufacturer			CARER
	1,2	Model			F16M
	1,3	Power unit: electric, diesel, L.P.G.			electric
	1,4	Drive: hand operated, on foot, seated operator			driver seated
	1,5	Capacity	Q	(t)	1.6
	1,6	Load centre	C	(mm)	600
	1,8	Load distance	X	(mm)	260
	1,9	Wheelbase	Y	(mm)	977
WEIGHTS	2,1	Weight		(kg)	4900
	2,2	Axle weight with nominal load front/rear		(kg)	5300/1200
	2,3	Axle dead weight front/rear		(kg)	2300/2600
WHEELS AND TYRES	3,1	Tyres type: CU=cushion, SE=superelastic, PN=pneumatic, SEG=twin superel. VLK=vulkollan			C - VLK
	3,2	Front wheels dimensions			457x178x308 (1)
	3,3	Rear wheels dimensions			300/100-203 (2)
	3,5	Wheels: front/rear number (x=drivewheels)			2X/4
	3,6	Front tread	b10	(mm)	1042
DIMENSIONS	3,7	Rear traed	b11	(mm)	965
	4,1	Tilt lifting group, α=forward / β=backward	α/β	(°)	3°/ 5° (3)
	4,2	Minimum collapsed mast height	h1	(mm)	2250
	4,3	Free lift	h2	(mm)	0
	4,4	Lifting height	h3	(mm)	4360
	4,5	Maximum collapsed mast height	h4	(mm)	5150
	4,7	Height of operator's overhead protection guard	h6	(mm)	2250
	4,8	Seat height	h7	(mm)	1240
	4,12	Towing hook height	h10	(mm)	-
	4,19	Overall length	L1	(mm)	2675
	4,20	Length including fork thickness	L2	(mm)	1475
	4,21	Maximum width	b1	(mm)	1220
	4,22	Fork dimensions	exsxL	(mm)	100x45x1200
	4,23	Fork carriage width iso 2328/30, FEM/A,B			2A
	4,24	Fork carriage width	b3	(mm)	720
	4,31	Mast height from ground (braking of load)	m1	(mm)	45
	4,32	Centre from ground (braking of load)	m2	(mm)	70
	4,33	Aisle width with pallet 1000x1200 and 1200 side loading	Ast	(mm)	1810
	4,34	Aisle width with pallet 800x1200 and 800 side loading	Ast	(mm)	1930
	4,35	Turning radius	Wa	(mm)	1210
PERFORMANCE	4,36	Minimum distance from the truck centre line rotation travel speed	b13	(mm)	0
	5,1	Travel speed, loaded/unloaded		(km/h)	13/13.5
	5,2	Lift speed, loaded/unloaded		(m/s)	0.36/0.42
	5,3	Lift descent speed, loaded/unloaded		(m/s)	0.50/0.40
	5,5	Drawbar pull, loaded/unloaded (S2 60')		(N)	1500/1800
	5,6	Max. drawbar pull, loaded/unloaded (S2 5')		(N)	7000/7500
	5,7	Gradeability, loaded/unloaded (S2 30')		(%)	5/8
	5,8	Max. gradeability, loaded/unloaded (S2 5')		(%)	11/16
	5,9	Acceleration time, loaded/unloaded (10 m)		(s)	4.4/4.2
ENGINE/ BATT.	5,10	Service brake: mech./hydr./electr.			hydraulic/electric
	6,1	Drive motor, power (S2 60')		(kW)	4.5x2
	6,2	Lift-motor, power (S3 20%)		(kW)	12
	6,4	Battery's voltage	U	(V)	80
	6.4.1	Rated capacity	K5	(Ah)	460
OTHERS	6,5	Battery min/max weight		(kg)	1250/1350
	8,1	Command type			mosfet
	8,2	Equipment work pressure		(bar)	160
	8,4	Noise level at driver's ear		(dBA)	-

VDI 2198

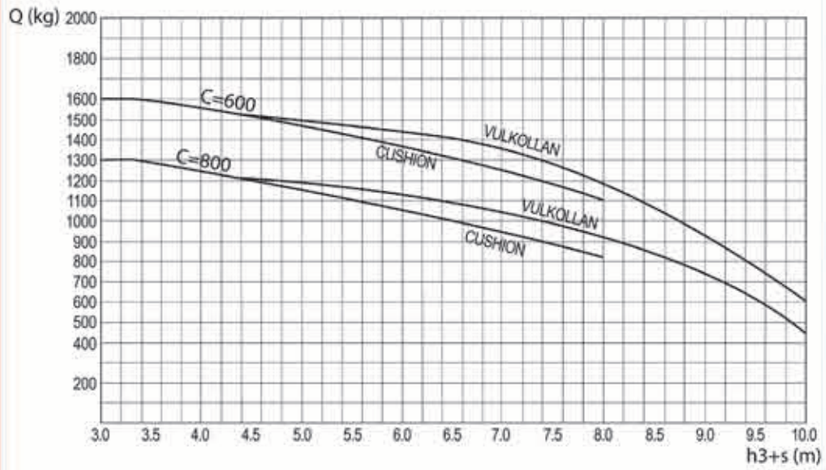
Rev2 28/03/2011

(1) Standard wheels. With height > 8.00 m VLK wheels

(2) Only CHS tyres type

(3) Fixed tilting mast on the fork carriage

The performances are referred to the forklift truck under perfect conditions, with a battery weight corresponding to the value indicated at point 6.5



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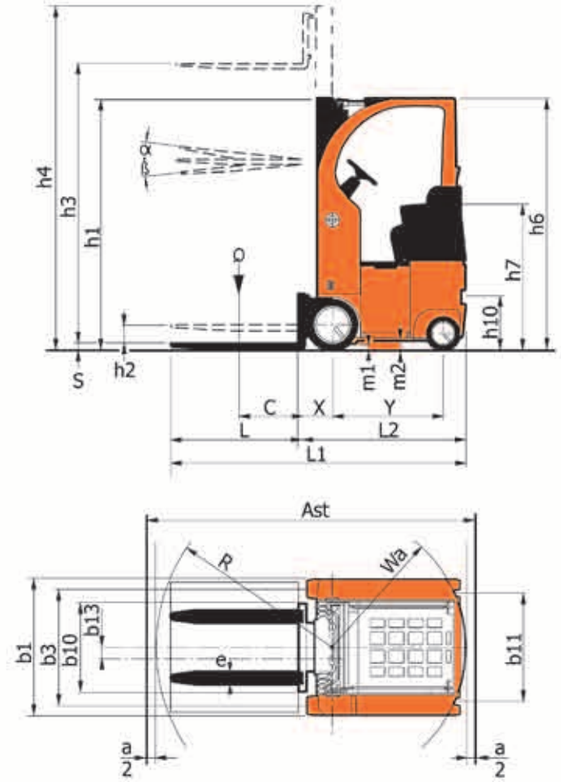

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CARER srl

CARRELLI ELEVATORI ELETTRONICI
ELECTRONIC FORK LIFT TRUCKS

Italy
48010 Cotignola Ravenna I
Via Copernico 13
Tel:+39 0545 908611
Fax:+39 0545 41615
www.carer.it info@carer.it

Carer Deutschland GmbH
Enschedestraße 14
48529 Nordhorn
Tel: +49 (0)5921 879 198
Fax:+49 (0)5921 879 150
email: info@carerdeutschland.de

Carer Nederland
Fleminglaan 5
2289CP Rijswijk
Tel: +31 (0)70 413 55 99
Fax: +31 (0)70 413 55 90
email: info@carernederland.nl