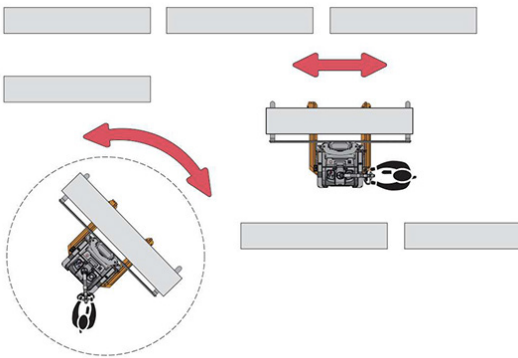# The economical and safe bi-directional electric stackers, ideal for transporting and storing long and / or bulky loads

The 716 BD-R ac walk behind bi-directional electric stackers are specially designed for warehouses with small spaces and long and/or wide loads. Economical and versatile, these machines are the perfect solution for all those who need to transport long loads on narrow aisles without guidance. The bi-directional stackers are available both with mechanical drive and electric drive version. The application of a retractable mast guarantees operation in narrow work aisles with loads that cannot be loaded on by a traditional overlapping forklift. The various options available such as Tilting Forks and integrated lateral shifting make this forklift a small and versatile reach truck.

Frame

Made of bended sheet metal to minimise any tensions induced by welds, ensuring maximum stability and best mechanical resistance under any conditions of transport and storage. The configuration with four support points provides maximum stability. The simple pivoting wheel adjustment system helps maintaining the same grip level, compensating for any wearout of the drive wheel. The highly visible masts and the lateral tiller ensure optimal visibility for load storage, picking and transport. The battery compartment cover is hinged, facilitating battery top-up and daily and periodical maintenance operations. Particular attention was paid to simplify the access to mechanical parts so as to minimise the routine maintenance costs.

Masts

The OMG masts are made of cold extruded profiles, ensuring high resistance to bending and twisting. The lift cylinders are installed outside of the mast profiles and the chains are protected to ensure perfect visibility and maximum safety.

Hydraulic functions

The 3kW powerful and silent lift motor with high torque ration offers high performance with low power consumption. The pumps are highly efficient and very quiet. The mini joystick installed on the tiller (finger touch) allows the operator to lift and lower the forks without releasing the tiller.
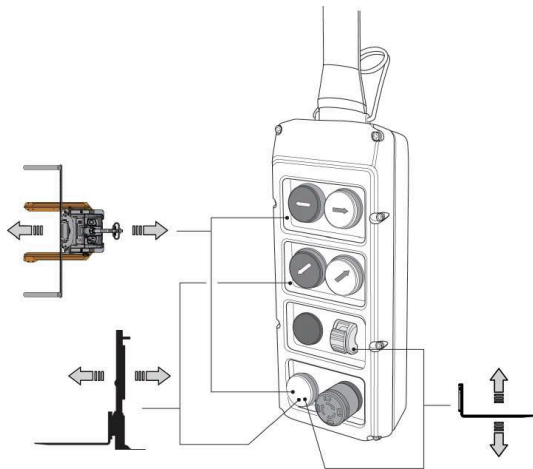
Drive

Powerful and reliable ac traction motor, capable of meeting even the most demanding requests in terms of performance, under any conditions. Travel speed controlled directly by the throttle installed on the tiller.

Braking system

There are three braking systems in this range:
- braking by reversing the running direction and releasing the throttle (service braking that can be adjusted from the control panel);
- emergency braking that takes place automatically if the tiller is suddenly released or lowered (electromagnetic brake);
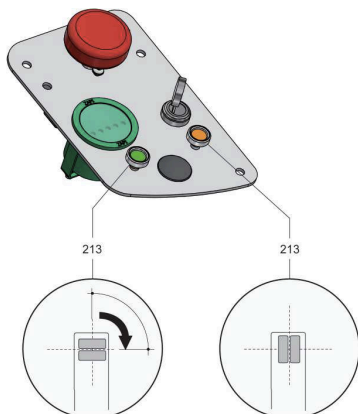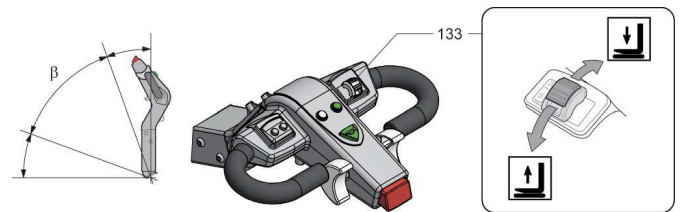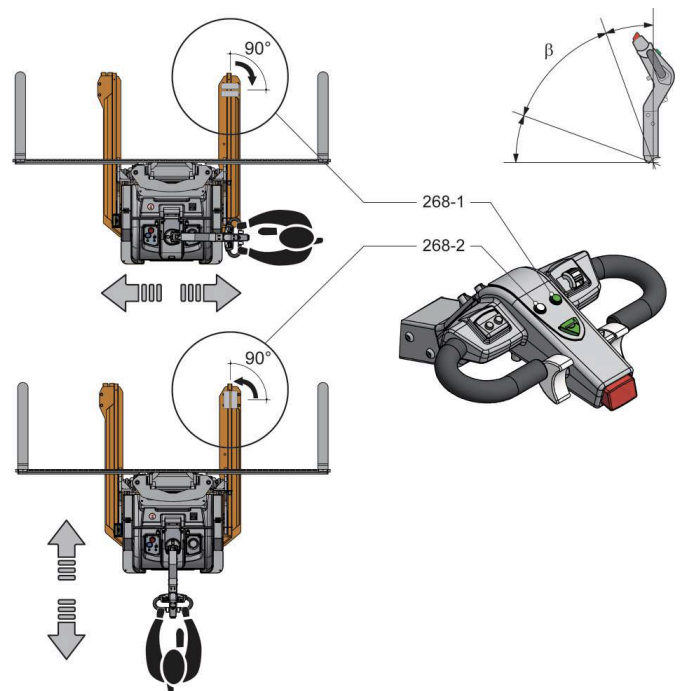- parking brake.

The configuration with four support points provides optimal stability, ensuring maximum safety and comfort during load picking and storage. The mini joystick (finger touch) allows the operator to control the truck by simply moving his finger along the tiller, ensuring precise and smooth load lifting and lowering, without taking his hands off the tiller. The hydraulic motor with fluid adjustment system reduces the noise, ensuring at the same time smooth and precise load lifting. Enhanced lifting and lowering speed for faster operations. Side cylinders fitted with silent blocks to prevent any kickbacks that might affect the stability of the load during forks lowering.

Easy maintenance thanks to a wide opening in the chassis that allows you to replace the drive wheel without having to lift the entire forklift.

Commands Pushbutton panel

This device allows the operator to control the truck functions, safely and with a direct and more precise view. The controls with the push-button panel can only be operated with double consent. The operator must engage both hands in order to operate the various controls.

Bi-Directional Function

The hydraulic system fitted on the 716 BD-R ac, which can be activated by the operator with the push of a button, located on the tiller, allows one of the front wheels to turn at 90 °, thus ensuring bi-directionality of the forklift.

Wheel position control device, to facilitate handling, both empty and loaded.

Characteristics	1.1	Manufacturer				OMG S.r.l.
	1.2	Model				716 BD-R ac
	1.3	Operation				Electric
	1.4	Operator position				at ground level
	1.5	Capacity	Q	t		1.1
	1.6	Load centre of gravity	c	mm		400
	1.8	Load distance	x	mm		
	1.9	Wheel centre distance	y	mm		1380
Weights	2.1	Truck weight incl. battery (see line 6.5)		kg		2.512
	2.2	Weight on axis with front / rear load		kg		
	2.3	Weight on axis without front / rear load		kg		
Wheels Frame	3.1	Wheels and tyres				vulkollan
	3.2	Front wheel size		mm		310 x 110
	3.3	Rear wheels size		mm		200
	3.4	Stabiliser wheels size		mm		
	3.5	Number of front / rear wheels (x = drive)		n°		1x / 4
Base dimensions	4.2	Lowered mast height	h₁	mm		3.055
	4.4	Forks lifting stroke	h₃	mm		4.601
	4.19	Overall length	l₁	mm		1.843 / 2.630
	4.21	Larghezza totale	b₁/ b₂	mm		3.000
	4.22	Forks size	s/e/l	mm		40 / 100 / 800
Performance	5.1	Speed with / without load		km/h		5.8 / 6
	5.2	Lifting speed with / without load		m/s		0.14 / 0.18
	5.3	Lowering speed with/without load		m/s		0.38 / 0.30
	5.8	Max. feasible gradient with / without load		%		6 / 10
	5.10	Service brake				Electromagnetic
Electric motors	6.1	Traction motor, 60 min performance with S2		kW		2,5
	6.2	Lift motor, 15% performance with S3		kW		3
	6.3	Battery as per DIN 43531 / 35 / 36 A, B, C, no				
	6.4	K5 battery voltage, nominal capacity		V/Ah		24 / 240
	6.5	Battery weight		kg		205 / 215
	6.6	Power consumption as per VDI cycle		kW/h		1.25
Miscellaneous	8.1	Type of electronic system				ac
	8.4	Noise threshold as per EN 12 053		dB(A)		< 70
						* optional

Technical data sheet referring to pallet truck in standard version; data determined in compliance with VDI 2198. These values may differ if your product is fitted with other types of wheels and tires, supports and accessories. All data and images herein are indicative, OMG S.r.l. reserves the right to modify the documentation without prior notice.