



# Low lift pallet truck **313 KN ac**



### The “hand pallet truck” completely electric.

Compact, light and manoeuvrable, designed and projected to work in tight spaces and inside the lorries, it is ideal for loading and unloading operations. The standard push button for vertical operation assists the operator to safely manoeuvre the truck with the steering handle in vertical operation. The low profile of the unit chassis allows an excellent view of the forks from the operating position also for small size operators mostly in tight spaces. The unit is equipped with built-in battery charger and through the battery isolator (as option) it is possible to charge the battery directly from the alternator of the lorry.

### Electronic system

The entire OMG range of pedestrian low-lift pallet trucks is equipped with high frequency electronic ac devices able to work in high temperature conditions (on the control and/or on the motor) without any unit stops. The controls are equipped with anti roll-back devices which check and control all the units functions and allow many adjustments to optimise the units performances, adapting it to the type of work application it has to carry out.

### Drive

Reliable sensor less three phase current traction drive motors ac able to meet the most demanding performance requirements, delivering the necessary power under all load conditions as the traction speed exactly depends on the position of the drive throttle.

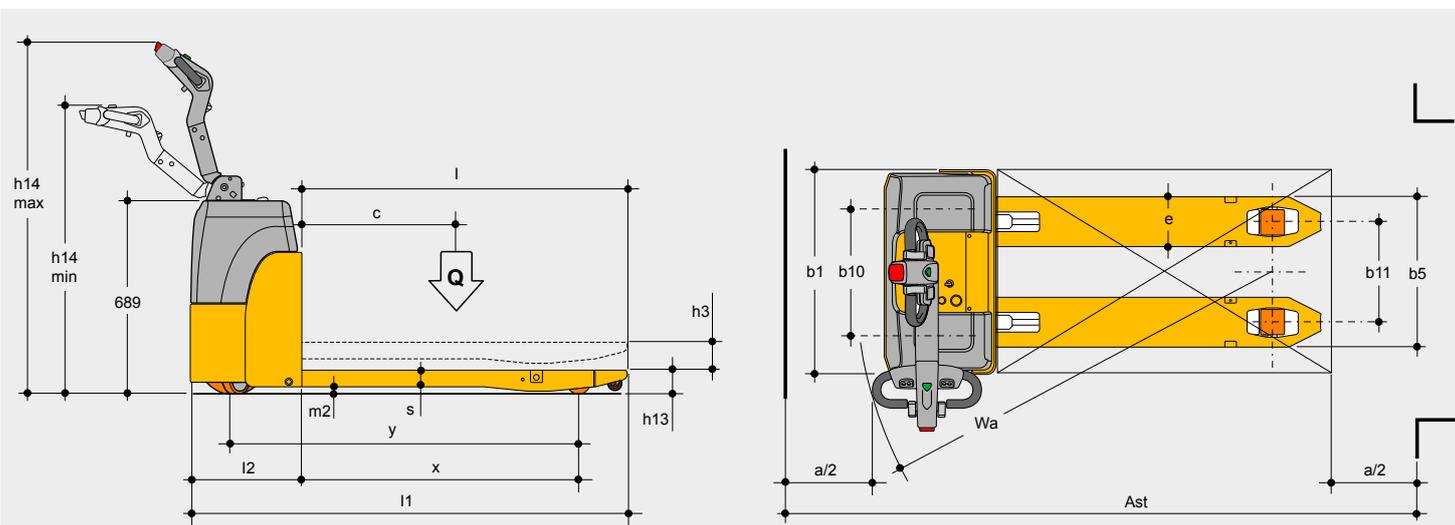
### Braking system

There are three braking systems in the range:

- braking on reversal of direction of travel (service braking);
- emergency braking which occurs automatically on release or extreme lowering of the steering handle;
- parking brake with steering handle in the vertical position.

<b>Characteristics</b>	1.1	Manufacturer			<b>OMG S.r.l.</b>	
	1.2	Model			<b>313 KN ac</b>	
		Execution				
	1.3	Drive			Electric	
	1.4	Operator type			Pedestrian	
	1.5	Load capacity / rated load	Q	t	1.3	
	1.6	Load centre distance	c	mm	600	
	1.8	Load distance (centre of load axle to fork face)	x	mm	980	
	1.9	Wheelbase	y	mm	1.220	
<b>Weights</b>	2.1	Service weight incl. battery (see line 6.5)			kg	270
	2.2	Axle loading, laden front/rear			kg	470 / 1.096
	2.3	Axle loading, unladen front/rear			kg	232 / 52
<b>Wheels Chassis</b>	3.1	Tires			mm	polyurethane
	3.2	Tire size, front			mm	245
	3.3	Tire size, rear			mm	85
	3.4	Additional wheels dimensions			mm	100
	3.5	Wheels, number front / rear (x = driven wheels)			n°	(1x + 2) / 2
	3.6	Track width, front	b10	mm		487
	3.7	Track width, rear	b11	mm		360
<b>Basic dimensions</b>	4.4	Lift	h3	mm		120
	4.9	Height of tiller arm in drive position min. / max.	h14	mm		950 / 1.275
	4.15	Forks lowered height	h13	mm		85
	4.19	Overall length	l1	mm		1.544
	4.20	Length to face of forks	l2	mm		394
	4.21	Overall width	b1	mm		730
	4.22	Forks dimensions	s/e/l	mm		60/180/1.150
	4.25	Width over forks	b5	mm		540
	4.32	Ground clearance, centre of wheelbase	m2	mm		25
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast	mm		
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm		1.744
4.35	Turning radius	Wa	mm		1.480	
<b>Performances</b>	5.1	Travel speed laden / unladen			km/h	5 / 5.8
	5.2	Lifting speed laden / unladen			m/s	0.05 / 0.06
	5.3	Lowering speed laden / unladen			m/s	0.26 / 0.06
	5.8	Max gradient performance			%	10 / 20
	5.10	Service brake				Electromagnetic
<b>Electric Motor</b>	6.1	Traction motor, rating S2 60 min			kW	0.7
	6.2	Lift motor, rating S3 15%			kW	0.5
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no				no
	6.4	Battery voltage, nominal capacity K5			V/Ah	2x12V / 85A
	6.5	Battery weight			kg	75
	6.6	Energy consumption according to VDI cycle			kW/h	
<b>Others</b>	8.1	Type of drive control				ac
	8.4	Sound level at driver's ear according to EN 12 053			dB(A)	< 70
						* option

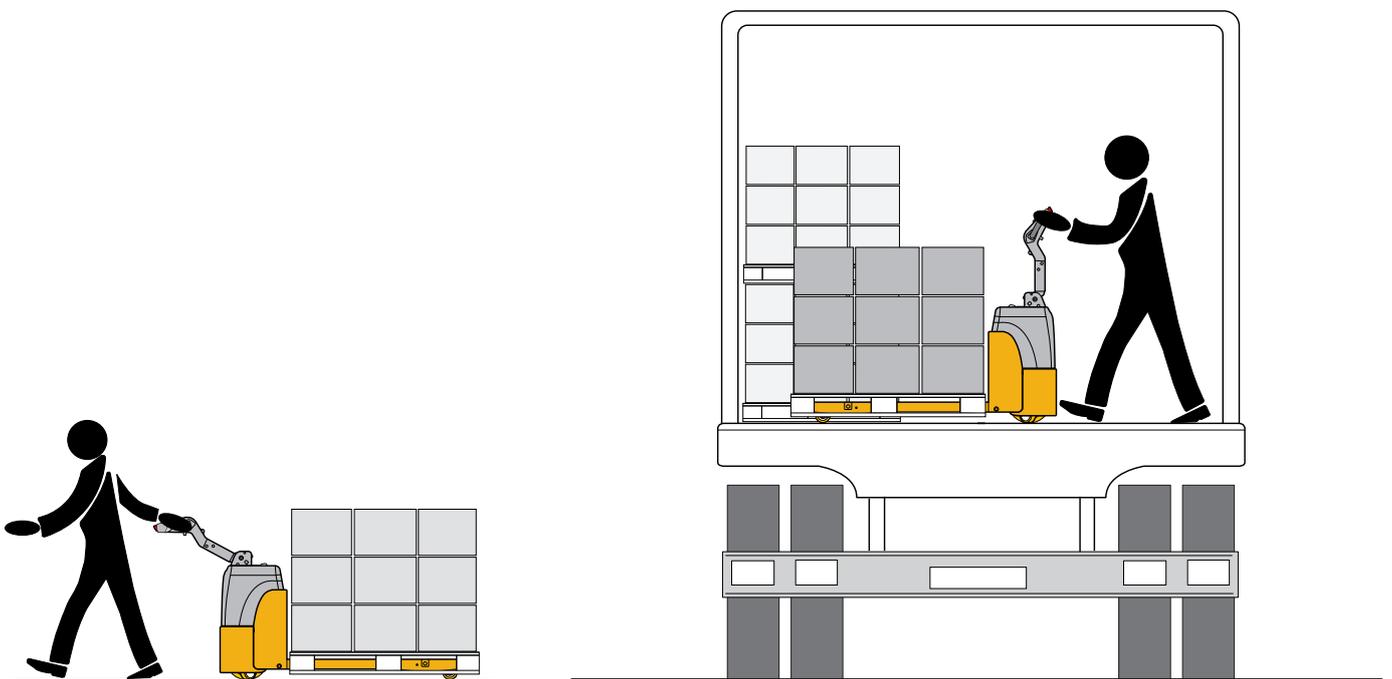
Technical specification according to VDI 2198, technical values are referred to the standard product. Different masts, different tires, additional equipment, etc. could produce other values. Information and data are given for information only, OMG S.r.l. will have the sole right for technical changes and improvements without giving any notice.



Accessories and special executions		
single load wheel	■	electronic braking
double load wheel	■	anti roll-back system
external forks width 540 mm	■	electronic speed control
no-marking rubber traction wheel	■	electromagnetic parking braking
supertrack traction wheel	■	built-in battery charger 24V 10A
polyurethane traction wheel	■	battery isolator
push button for vertical operation	■	

standard	■	option	■
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### Chassis

Of folded frame construction to minimize welding-induced stresses, it offers maximum stability and superior mechanical strength under all traction conditions. Particular attention has been given to provide easy access to wearing parts in order to minimize routine maintenance costs. The forks are composed by high resistance steel. The painting is made in modern painting plants.

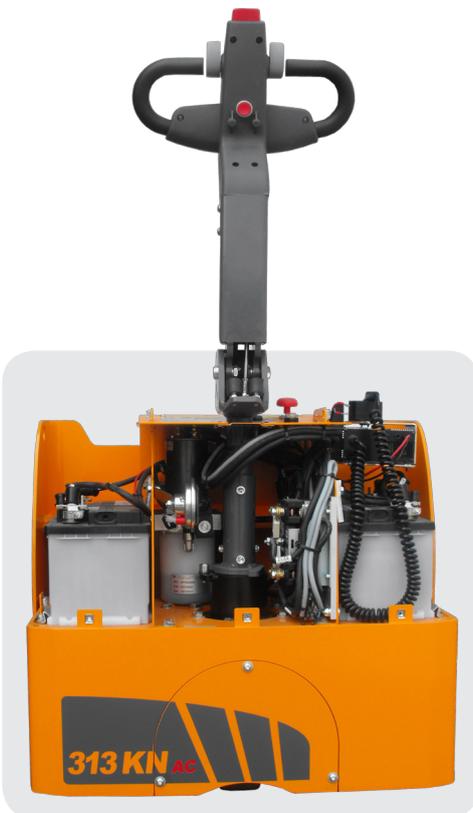




### Steering handle

This is the result of detailed ergonomic study, combining the requirements of operating comfort with modern industrial design. All the controls on the handle are easy to reach, ensuring productivity and precision and so greater efficiency. When released, the handle returns to the vertical position without bumping or rebound, thanks to a gas spring with integrated braking system.

- handle tiller arm made of ABS with steel core able to absorb heavy impact without deformation;
- lifting and lowering of the forks by push buttons positioned on both sides;
- acoustic warning button in central position;
- active safety system with anti-crush device
- standard push button for vertical operation



### Battery and charger

The unit is equipped with 2 semi-traction batteries 12V 85A and with built-in battery charger 24V 10A. As standard the unit is complete with push button for vertical operation in order to move the power pallet truck in very tight spaces such as inside lorries. The maintenance is easier thanks to the opening in the chassis to check the traction wheel with no need to lift the unit.



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