Low lift pallet truck 316 KN-320 KN ac

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

Battery side extraction facility (option)
The big battery capacity (24V 250Ah, option) ensures an optimal working autonomy, available with battery side extraction facility for a quick battery replacement for the application on different shifts.

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 All the parameters related to drive and electric braking are electronically adjustable by a programming console in accordance with the customers requirements. All the models are equipped with hour meter and battery discharge indicator with lifting cut-off at 80% discharge.

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.

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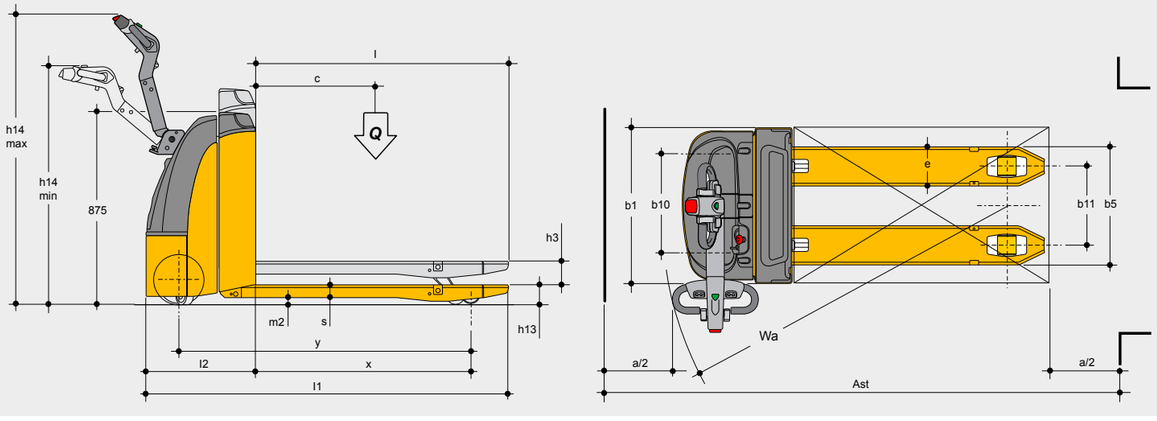
Characteristics	1.1	Manufacturer			**OMG S.r.l.**			
	1.2	Model			**316 KN ac**		**320 KN ac**	
		Execution						
	1.3	Drive			Electric		Electric	
	1.4	Operator type			Pedestrian		Pedestrian	
	1.5	Load capacity / rated load	Q	t	1.6		2.0	
	1.6	Load centre distance	c	mm	600	500	600	500
	1.8	Load distance (centre of load axle to fork face)	x	mm	980	810	980	810
	1.9	Wheelbase	y	mm	1.333	1.200	1.396	1.226
Weights	2.1	Service weight incl. battery (see line 6.5)		kg	426		462	
	2.2	Axle loading, laden front/rear		kg				
	2.3	Axle loading, unladen front/rear		kg				
Wheels Chassis	3.1	Tires		mm	polyurethane		polyurethane	
	3.2	Tire size, front		mm	230 x 75		230 x 75	
	3.3	Tire size, rear		mm	85 x 90		85 x 90	
	3.4	Additional wheels dimensions		mm	80 x 45		80 x 45	
	3.5	Wheels, number front / rear (x = driven wheels)		n°	(1x +2) / 2		(1x +2) / 2	
	3.6	Track width, front	b_{10}	mm	489		489	
	3.7	Track width, rear	b_{11}	mm	360	490	360	490
Basic dimensions	4.4	Lift	h_3	mm	115		115	
	4.9	Height of tiller arm in drive position min. / max.	h_{14}	mm	962 / 1.355		962 / 1.355	
	4.15	Forks lowered height	h_{13}	mm	85		85	
	4.19	Overall length	l_1	mm	1.650	1.480	1.714	1.544
	4.20	Length to face of forks	l_2	mm	500		564	
	4.21	Overall width	b_1	mm	710		710	
	4.22	Forks dimensions	s/e/l	mm	60/180/1.150	60/180/980	60/180/1.150	60/180/980
	4.25	Width over forks	b_5	mm	540	670	540	670
	4.32	Ground clearance, centre of wheelbase	m_2	mm	28		28	
	4.33	Aisle width for pallets 1000 x 1200 crossways	Ast	mm		2.012		2.075
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	2.182		2.245	
	4.35	Turning radius	W_a	mm	1.526	1.356	1.589	1.419
Performances	5.1	Travel speed laden / unladen		km/h	5.8 / 6.0		5.8 / 6.0	
	5.2	Lifting speed laden / unladen		m/s	0.04 / 0.05		0.04 / 0.05	
	5.3	Lowering speed laden / unladen		m/s	0.26 / 0.16		0.26 / 0.16	
	5.8	Max gradient performance		%	8 / 15		8 / 15	
	5.10	Service brake			Electromagnetic		Electromagnetic	
Electric Motor	6.1	Traction motor, rating S2 60 min		kW	1.2		1.2	
	6.2	Lift motor, rating S3 15%		kW	2		2	
	6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no			no		DIN	
	6.4	Battery voltage, nominal capacity K5		V/Ah	24/150		24/180 (250*)	
	6.5	Battery weight		kg	150		180	
	6.6	Energy consumption according to VDI cycle		kW/h				
Others	8.1	Type of drive control			ac		ac	
	8.4	Sound level at driver's ear according to EN 12 053		dB(A)	< 70		< 70	

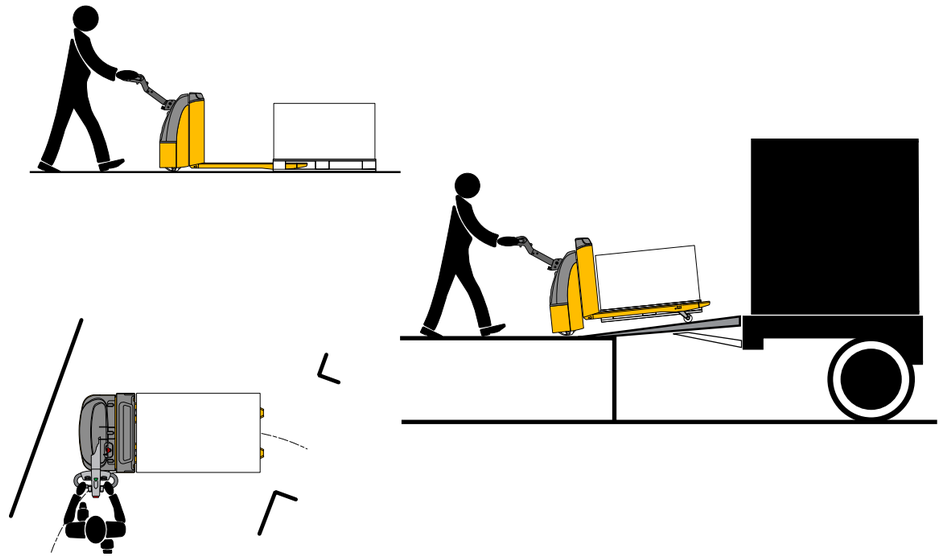
* option

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.p.A. will have the sole right for technical changes and improvements without giving any notice.



Accessories and special executions			
single load wheel	■	automatic battery refilling	□
double load wheel	□	electroni braking	■
external forks width 540 mm	■	anti roll-back system	■
external forks width 670 mm	□	electronic speed control	■
supertrack traction wheel	□	electromagnetic parking braking	■
polyurethane traction wheel	■	cold store execution	□
push button for vertical operation	□	built-in battery charger 24V 25A	□
battery side extraction facility	□	BDI/hourmeter with automatic lifting cut-off at 80% discharge	■
single battery stand	□	traction battery 24V 230Ah and 24V 250Ah (320 KN ac only)	□
pin access keypad	□		

standard ■ option □



Chassis
Of folded frame construction to minimize welding-induced stresses, it offers maximum stability and superior mechanical strength under all traction conditions. The battery compartment is accessed simply by lifting the case, thus simplifying daily and periodical checks and recharging. 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.