

Economical, simple and efficient lateral forklift trucks, ideal for long, bulky, palletised loads.



The OMG LAT electric lateral forklift truck is the result of a thorough analysis of the technologies available on the market, able of delivering best performance under any conditions. Each component is duly tested and subjected to the most rigorous trials so that we can release a competitive and satisfactory product on the market. The motors, the electronic controls and the masts meet the strictest quality standards, bringing actual added value to this range of products.

Frame

The monobloc tilting construction of the frame ensures maximum stability and enhanced mechanical resistance during stacking and travelling, maintaining high residual capacities even at maximum height. The battery compartment can be easily opened, simplifying the daily and periodical battery recharge and check operations.

Drive

Powerful and reliable DC traction motors, able to satisfy even the most demanding requests for performance, providing the necessary amount of power every time, as the speed of the truck can be adjusted by changing the position of the accelerator.

Hydraulic functions

Powerful and silent lift motor, capable of adjusting the number of revolutions of the pump, providing the appropriate amount of oil every time. All

hydraulic functions are controlled by a mini joystick for precise and safe load handling. Mast with braking system for gradual slowdown at the end of the stroke, preventing any sudden stops that might affect the stability of the load.

Electronic system

All LAT lateral forklift trucks are fitted with high frequency electronic equipment, microprocessor and power recovery system enabled by:

- releasing the accelerator pedal;
- reversing the running direction;
- pressing the brake pedal.

These controls check and enable all machine functions and allow unlimited adjustments for performance optimisation, adapting the truck to the operation to be carried out. All hydraulic functions, electric drive and braking parameters can be set electronically, according to customer's requirements.

Masts

The OMG masts made of cold extruded profiles highly resistant to twisting and bending are available in the following versions:

- duplex and triplex with large overall free lift between 3,200 and 6,700 mm;
- braking system with lift cylinders for smooth movement without jolts and enhanced load stability;
- Tilting Forks.

Operator's compartment

Result of a meticulous ergonomic study, the driver's seat tilted at 45°, allows maximum visibility in all directions. The cabin mounted on silent-blocks ensures maximum comfort, as it absorbs all vibrations.

- comfortable adjustable seat;
- adjustable steering wheel;
- non-slip footrest;
- CHECK CONTROL dashboard that displays the battery state of charge and locks the lifting function once the battery reaches the set depth of discharge and operating hours;
- push-buttons with light indicators for automatic selection of wheels position.

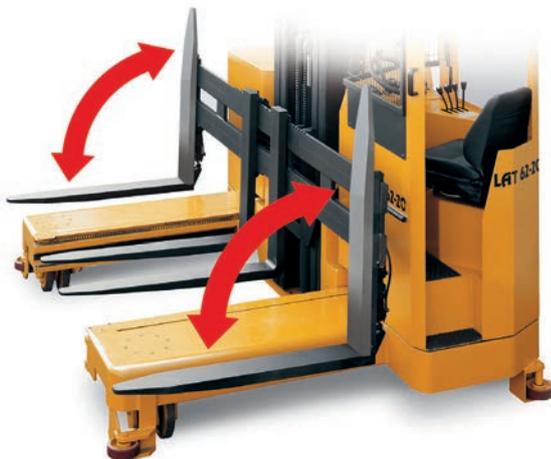
Steering

Easy to use hydraulic steering with dedicated motor for safe, precise and silent operation. Longitudinally adjustable steering wheel for unique driving comfort.



Additional hydraulic tilting forks (optional)

This option combined with the widened forks support plate helps reducing the space for manoeuvre when the machine moves without load. This way you can use LAT both for standard and for longer loads.



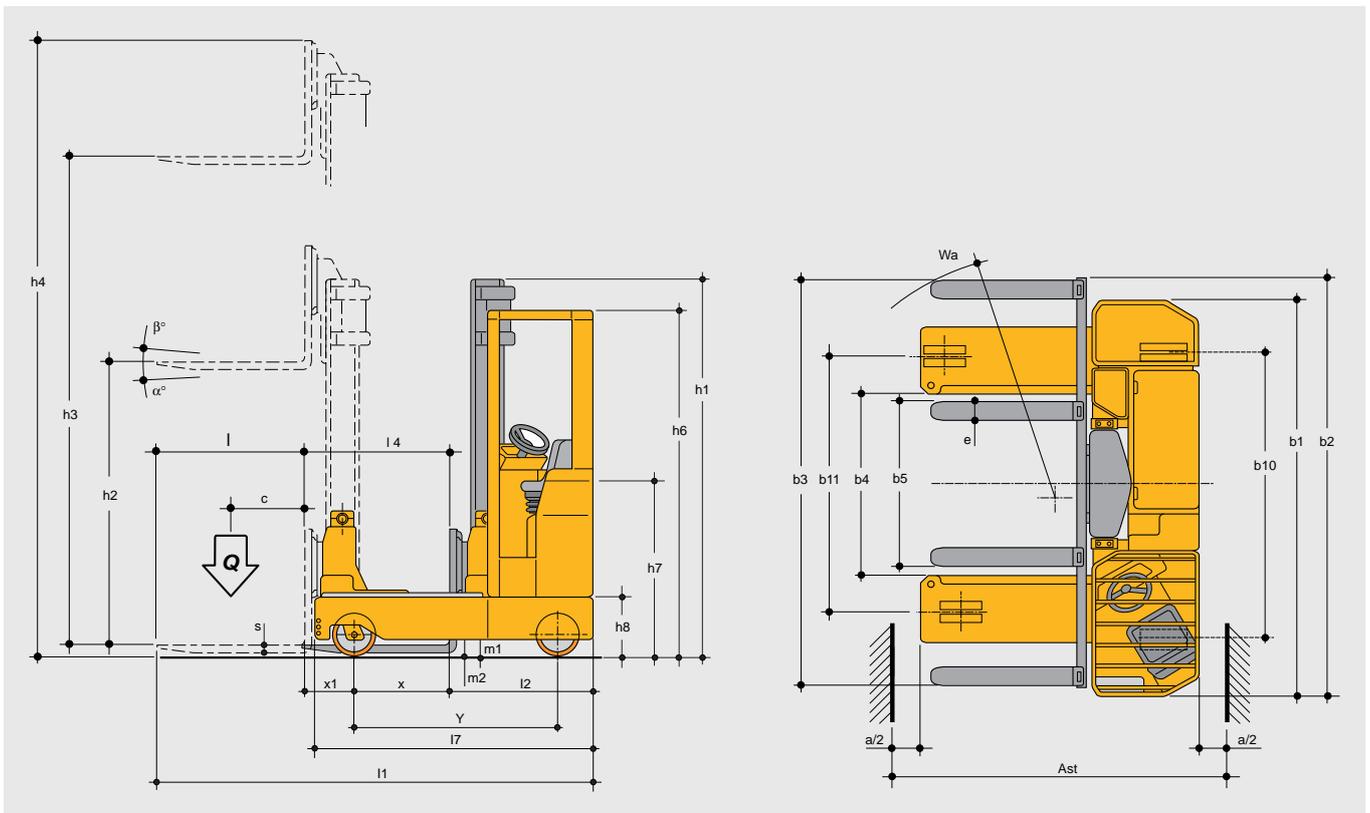
Version with special legs (optional)

The legs can be customised according to the requirements of the customer and can be made longer or shorter, depending on the particular load to be handled.



Standard masts								Capacity			
Description	Lowered mast height $h_{1^{**}}$	Forks stroke h_3	Total lifting h_{3+s}	Lowered mast height $h_{4^{**}}$	Free lift h_2	Forks support plate tilting system fwd/bwd α/β (°)	(t) c=600 mm				
							LAT 20	LAT 25	LAT 30	LAT 35	
Duplex	mm	2,450	3,160	3,200	4,200	1,600*	2/5	2.0	2.5	3.0	3.5
	mm	2,950	4,160	4,200	5,200	2,100*	2/5	2.0	2.5	3.0	3.5
	mm	3,450	5,160	5,200	6,200	2,600*	2/5	2.0	2.5	2.8	3.2
	mm	3,450	5,160	6,200	7,200	3,100*	2/5	1.8	2.3	2.5	2.8
	mm	4,200	6,660	6,700	7,700	3,350*	2/5	1.7	2.2	2.3	2.5
Triplex-GAL	mm	2,610	5,160	5,200	6,200	1,710	2/5	2.0	2.5	2.8	3.2
	mm	2,940	5,160	6,200	7,200	2,040	2/5	1.8	2.3	2.5	2.8
	mm	3,110	6,660	6,700	7,700	2,210	2/5	1.7	2.2	2.3	2.5

* optional ** for models 30 and LAT 30 and LAT 35, h1 and h4 increased by 50 mm



Accessories and special features

widened forks support plate	<input type="checkbox"/>	digital lifting display and preselector for 10 levels	<input type="checkbox"/>
legs with customised length (beyond standard length)	<input type="checkbox"/>	additional hydraulic function	<input type="checkbox"/>
2 additional forks	<input type="checkbox"/>	video camera placed on the forks with colour display in the cabin	<input type="checkbox"/>
additional hydraulic tilting forks	<input type="checkbox"/>	access keypad with pin code	<input type="checkbox"/>
lateral guide rollers	<input type="checkbox"/>	work lights	<input type="checkbox"/>
free lift for duplex column	<input type="checkbox"/>	tilting system for forks support plate	<input type="checkbox"/>
5 buttons for automatic wheel positioning	<input type="checkbox"/>	logic control with voltmeter-timer	<input type="checkbox"/>
		standard	<input type="checkbox"/>
		optional	<input type="checkbox"/>

Characteristics	1.1 Manufacturer		OMG S.r.l. Single member company					
	1.2 Model		LAT 20	LAT 25	LAT 30	LAT 35		
	1.3 Operation		electrical					
	1.4 Operator position		ride-on					
	1.5 Capacity	Q	t	2.0	2.5	3.0	3.5	
	1.6 Load centre of gravity	c	mm	600				
	1.8 Load distance	x	mm	1,090		1,078		
		Extended mast	x1	mm	247			
	1.9 Centre distance	y	mm	1,800				
Weights	2.1 Truck weight incl. battery (see line 6.5)		kg	5,700	5,800	5,900	5,950	
	2.3 Weight on axis without front / rear load		kg					
	2.4 Weight on axis with front / rear load and extended mast		kg					
	2.5 Weight on axis with front / rear load and retracted mast		kg					
Wheels Frame	3.1 Wheels and tyres			Vulkollan				
	3.2 Front wheel size		mm	300				
	3.3 Rear wheels size		mm	300 / 343				
	3.5 Number of front / rear wheels (x = drive)		no.	1x + 2 / 4				
	3.6 Front track	b10	mm					
	3.7 Rear track	b11	mm	1,880				
Base dimensions	4.1 Mast/forks support plate inclination, forward/backward	/	°	2 / 5				
	4.2 Lowered mast height	h1	mm	see table				
	4.3 Free lift	h2	mm	see table				
	4.4 Forks lifting stroke	h3	mm	see table				
	4.5 Extended mast height	h4	mm	see table				
	4.7 Upper edge overhead guard height (cabin)	h6	mm	2,498				
	4.8 Seat height / Platform height	h7	mm	1,263				
	4.10 Forks height	h8	mm	420				
	4.19 Overall length	l1	mm	3,430				
	4.20 Length including forks heel	l2	mm	940		955		
	4.21 Overall width	b1/b2	mm	2,860				
	4.22 Forks size	s/e/l	mm	40/120/1,200		45/130/1,200		
	4.23 Forks support plate ISO 2328, class/type A, B							
	4.24 Forks support plate width	b3	mm	1,200 / 2,940				
	4.25 Width over forks	b5	mm					
	4.26 Forks internal gauge	b4	mm	1,287				
	4.28 Mast stroke	l4	mm	1,340		1,345		
	4.31 Clearance under the mast with load	m1	mm					
	4.32 Clearance at mid stroke	m2	mm	113				
	4.33 Working aisle width with 1000 x 1200 transversal pallet	Ast	mm					
4.34 Working aisle width with 800 x 1200 longitudinal pallet	Ast	mm	2,400					
	Truck diagonal	D	mm					
4.35 Turning radius	Wa	mm	1,880					
4.37 Length including support forks	l7	mm	2,200					
Performance	5.1 Speed with / without load		km/h	8.5 / 9.5				
	5.2 Lifting speed with / without load		m/s	0.25 / 0.30	0.22 / 0.30	0.20 / 0.25	0.20 / 0.25	
	5.3 Lowering speed with/without load		m/s	0.30 / 0.48		0.26 / 0.29		
	5.4 Mast speed with/without load		m/s	0.53 / 0.60				
	5.7 Max. feasible gradient with / without load		%	5				
	5.9 Acceleration with / without load		s					
	5.10 Service brake			mechanical / hydraulic				
	5.11 Parking brake			mechanical / hydraulic				
	Electric motors	6.1 Traction motor, performance with S2 60 min		kW	6			
		6.2 Lift motor, performance with S3 15%		kW	9			
6.3 Battery as per DIN 43531 / 35 / 36 A, B, C, no								
6.4 K5 battery voltage, nominal capacity			V/Ah	48 / 700				
6.5 Battery weight			kg	1,119				
6.6 Power consumption as per VDI cycle			kW/h					
Miscellaneous	8.1 Type of electronic system			MOS DC				
	8.2 Equipment operating pressure		bar	180				
	8.3 Oil flow rate for equipment		l/min	25				
	8.4 Noise threshold as per EN 12 053		dB(A)	<80				
				* 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. Single member company reserves the right to modify the documentation without prior notice.