

Forklift truck with retractable mast Neos II 25 MULTI ac

Multi-directional forklift truck with retractable mast: the ideal match between technology, flexibility and robustness



The Neos II 25 MULTI ac multi-directional forklift trucks with retractable mast are specially designed and constructed for transporting long loads through even the smallest spaces and warehouses. They represent the perfect combination between the versatility of a traditional lateral forklift truck, as they can move in all directions, and the convenience of a compact truck, thanks to their small sizes. Available with large opening for forks positioning, specially designed for transporting long loads. Nine automatic wheel positioning programmes are available for normal operation, rotation, lateral and transversal movement.

Frame

The monobloc 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. Standard lateral battery extraction system with rollers for readily battery replacement in case of intensive use during multiple work shifts.

Drive

Powerful and reliable three-phase ac 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 pedal.

Electronic system

All products in the Neos II range come with electronic inverters. 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 from dashboard or remote desktop (directly by OMG), according to customer's requirements.

Hydraulic functions

Powerful and silent ac lift motor, capable of adjusting the number of revolutions of the pump, providing the appropriate amount of oil every time. All hydraulic functions can be controlled using finger tips for precise and safe load handling. Mast with built-in braking system for gradual slowdown at the end of the stroke, preventing any sudden stops that might affect the

stability of the load.

Masts

The masts made of external profiles highly resistant to twisting and bending, are available in the following versions:

- triplex masts with high overall free lift and lift capacities from 4,160 to 10,460 mm and above (on request);
- · Tilting Forks;
- forks with built-in lateral shift adjustment to prevent changing the centre
 of gravity and for maintaining optimal residual capacities at any height.

Operator's compartment

- · fabric seat adjustable in depth and height;
- · depth adjustable steering wheel;
- non-slip footrest;
- LCD display showing the most important operating data:
 - · parking brake indicator;
 - warning lights (neutral position, controller overheating, motor overheating);
 - · operating hours timer;
 - travel speed display;

- speed limiter "ON" indicator (tortoise button);
- various operating modes E/S/H, E=economy S=standard H=super;
- battery level indicator.
- Graphic display for automatic wheels positioning:
 - F1 normal
 - F2 lateral (steering on load wheels)
 - F3 multi-directional at 360°
 - F4 free "ad hoc" movement (6 modes available)

Braking system

- · regenerative braking by reversing the running direction;
- regenerative braking by releasing the accelerator pedal;
- electromagnetic parking brake on the drive wheel;
- hydraulic braking on load wheels.



Mono-joystick (optional)

The mono-joystick controls all hydraulic functions of the machine.

Finger tip (standard)

All hydraulic functions can be controlled using proportional finger tips for precise and safe load handling.

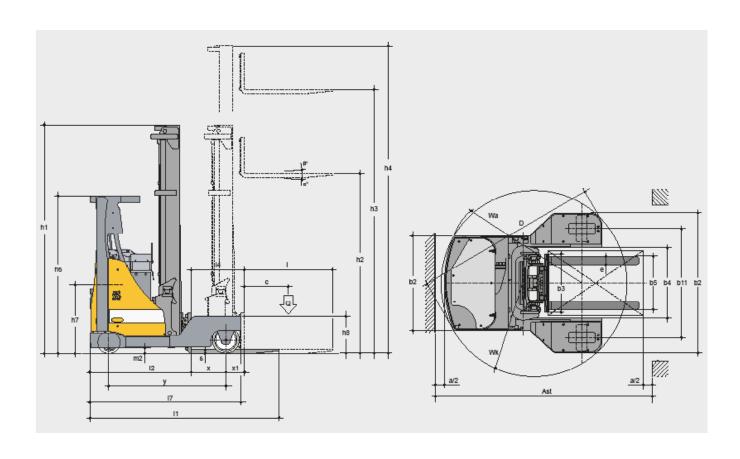


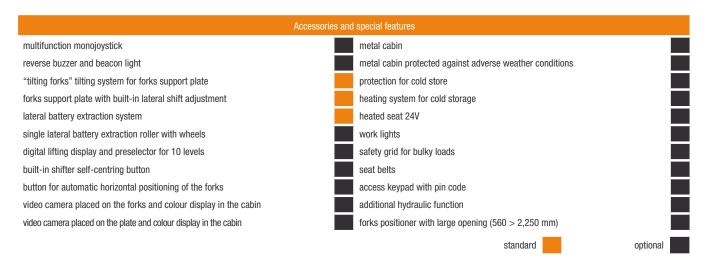
Forks positioner (optional)

Neos II 25 MULTI ac can be equipped with an optional large opening forks positioner (560 > 2,250 mm) for safe and precise picking and stacking of long and bulky loads.



Standard masts										
Description		Lowered mast height	Forks stroke	Total lift	Extended mast height	Free lift	Forks support plate fwd/bwd tilting / (°)	with shifter (t) c=600 mm		
		h1	hз			h2		Neos II 25 MULTI ac		
Triplex-GAL	mm	2,125	4,800	4,850	5,325	1,600	3/5	2.5		
	mm	2,275	5,250	5,300	5,775	1,750	3/5	2.5		
	mm	2,275	6,050	6,100	6,575	2,050	3/5	2.2		
	mm	2,875	6,950	7,000	7,475	2,350	3/5	2.0		
	mm	3,075	7,500	7,550	8,025	2,550	3/5	1.9		
	mm	3,175	8,250	8,300	8,775	2,850	3/5	1.6		
	mm	3,675	9,050	9,100	9,575	3,150	3/5	1.4		
	mm	3,875	9,450	9,500	9,975	3,350	3/5	1.3		
	mm	4,275	10,450	10,500	10,975	3,750	3/5	1.0		





Characteristics	1.1	Manufacturer		OMG S.r.I.	
	1.2	Model			NEOS II 25 MULTI ac
	1.3	Operation		electrical	
	1.4	Operator position		ride-on	
	1.5	Capacity	Q	t	2.5
	1.6	Load centre distance	С	mm	600
	1.8	Load distance	Х	mm	454
	4.0	Extended mast	X1	mm	245
	1.9	Centre distance	у	mm	1,600
Weights	2.1	Truck weight incl. battery (see line 6.5)		kg	4,250
	2.3	Weight on axis without front / rear load	kg	2,600 / 1,640	
	2.4	Weight on axis with front / rear load and extended mast	kg	668 / 6,160	
	2.5	Weight on axis with front / rear load and retracted mast	kg	2,300 / 4,440	
Wheels	3.1	Wheels and tyres		Vulkollan	
Frame	3.2	Front wheel size	mm	343 (350)	
	3.3	Rear wheels size	mm	350	
	3.5	Number of front / rear wheels (x = drive)	no.	1x / 2	
	3.6	Front track	b 10	mm	/
	3.7	Rear track	b11	mm	1,450
Base	4.1	Mast/forks support plate inclination, forward/backward	/	0	3 /5
dimensions	4.2	Lowered mast height	h ₁	mm	2,275
	4.3	Free lift	h2	mm	1,750
	4.4	Forks lifting stroke	hз	mm	5,250
	4.5	Extended mast height	h4	mm	5,775
	4.7	Upper edge overhead guard height (cabin)	h6	mm	2,155
	4.8	Seat height / Platform height	h7	mm	1,140
	4.10	Forks height	h8	mm	495
	4.19	Overall length	l1	mm	2,551
	4.20	Length including forks heel	12	mm	1,401
	4.21	Overall width	b1/b2	mm	1,270 / 1,870
	4.22	Forks size	s/e/l	mm	45 x 120 x 1,150
	4.23	Forks support plate ISO 2328, class/type A, B		2/A	
	4.24	Forks support plate width	b 3	mm	720
	4.25	Width over forks	b 5	mm	700
	4.26	Forks internal gauge	b4	mm	948
	4.28	Mast stroke	l 4	mm	699
	4.31	Clearance under the mast with load	m1	mm	70
	4.32	Clearance at mid stroke	m ₂	mm	73
	4.33	Working aisle width with 1000 x 1200 transversal pallet	Ast	mm	2,953
	4.34	Working aisle width with 800 x 1200 longitudinal pallet	Ast	mm	2,901
		Truck diagonal	D	mm	2,445
	4.35	Turning radius	Wa	mm	1,855
	4.37	Length including support forks	17	mm	2,055
Performance	5.1	Speed with / without load		km/h	11.5 / 12.5
	5.2	Lifting speed with / without load		m/s	0.35 / 0.50
	5.3	Lowering speed with/without load	m/s	0.50 / 0.45	
	5.4	Mast speed with/without load	m/s	010 / 010	
	5.7	Max. feasible gradient with / without load		%	10 / 15
	5.9	Acceleration with / without load	S	6.5 / 7	
	5.10	Service brake			hydraulic
	5.11	Parking brake			electromagnetic
Flootric	6.1	Traction motor, performance with S2 60 min	kW	6.5	
Electric motors	6.2	Lift motor, performance with S3 15%	kW	15	
11101013	6.3	Battery as per DIN 43531 / 35 / 36 A, B, C, no	1744	no	
	6.4	K5 battery voltage, nominal capacity	V/Ah	48 / 620 (*775)	
	6.5	Battery weight		960	
	6.6	, ,	kg kW/h	900	
Minnelle		Power consumption as per VDI cycle		KVV/II	40 im
Miscellaneous	8.1	Type of electronic system	hor	AC inverter	
	8.2	Equipment operating pressure	bar	180	
	8.3	Oil flow rate for equipment Noise threshold as per EN 12 053	I/min dB(A)	25	
	8.4			<80	

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.

