

Order picking stacker truck ideal for transporting and lifting loads on small aisles



The Neos II TRI ac order picking stacker trucks are designed for transporting and lifting loads in very tight spaces/aisles.

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 this 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 cold extruded profiles highly resistant to twisting and bending are available in the following versions:

- triplex masts with high overall free lift and lift capacities from 7,500 to 9,000 mm and above (on request);

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.

Braking system

Independent braking systems available on all the products in this range:

- 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.

Finger tip (standard)

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



Mono-joystick (optional)

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



Inductive guide system (wire guide)

The OMG Neos II TRI ac may be equipped with an inductive guide system (wire guide)

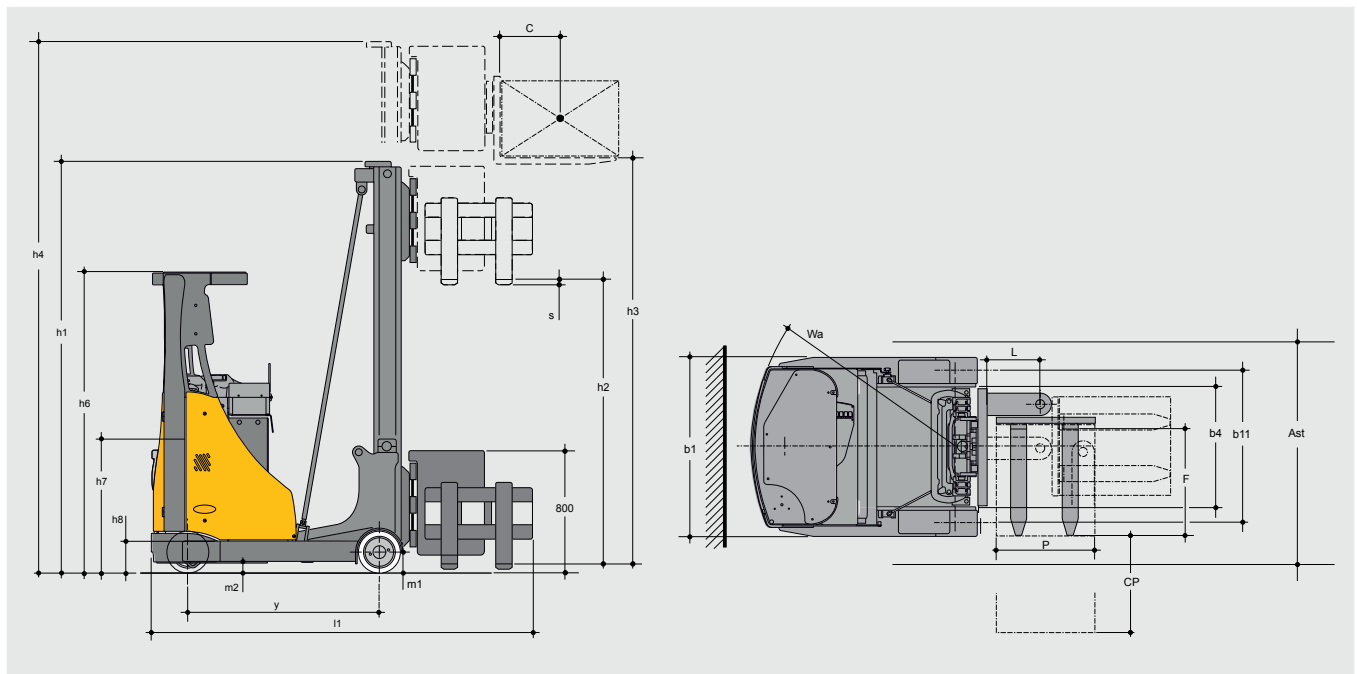
Using special detectors mounted on the chassis, the unit is safely guided along the entire lane, within a predetermined path.

Along with the detectors system, it is available a line driver and one or more magnets for automatic slow down and stop at the end of the aisle



Standard masts					Capacities:	
Description		Lowered mast height	Forks stroke	Total lift	Extended mast height	(t) c=600 mm
		h ₁	h ₃	h ₃ +s	h ₄	Neos II TRI ac
Triplex	mm	3,600	7,420	7,500	8,600	1.0
	mm	4,100	8,920	9,000	10,100	1.0

	load / pallet size		picking side	F	M	S	h ₈	L	P	CP	Ast	L1
	depth	width										
	b	d										
mm	800	1,200	800	1,150	600	45	800	470	800	1,280	1,600	2,505
mm	1,200	1,000	1,200	950	500			670	1,200	1,080	1,600	2,705
mm	1,000	1,200	1,000	1,150	600			570	1,000	1,280	1,500	2,705
mm	1,200	800	1,200	750	400			670	1,200	880	1,600	2,705



Accessories and special features

- | | | | |
|--|--------------------------|---------------------------------|--------------------------|
| multifunction monojoystick | <input type="checkbox"/> | metal cabin | <input type="checkbox"/> |
| reverse buzzer and beacon light | <input type="checkbox"/> | protection for cold store | <input type="checkbox"/> |
| lateral battery extraction system | <input type="checkbox"/> | heating system for cold storage | <input type="checkbox"/> |
| single lateral battery extraction roller with wheels | <input type="checkbox"/> | heated seat 24V | <input type="checkbox"/> |
| digital lifting display and preselector for 10 levels | <input type="checkbox"/> | work lights | <input type="checkbox"/> |
| video camera placed on the forks and colour display in the cabin | <input type="checkbox"/> | safety grid for bulky loads | <input type="checkbox"/> |
| video camera placed on the plate and colour display in the cabin | <input type="checkbox"/> | seat belts | <input type="checkbox"/> |
| metal cabin protected against adverse weather conditions | <input type="checkbox"/> | access keypad with pin code | <input type="checkbox"/> |
| wire guidance 6,25 kHz +/- 30Hz (others frequencies available) | <input type="checkbox"/> | line driver | <input type="checkbox"/> |
| magnet for automatic slow down and stop at the end of the aisle (each) | <input type="checkbox"/> | | |

standard ■ optional ■

Characteristics	1.1	Manufacturer			OMG S.r.l. Single member company		
	1.2	Model			NEOS II TRI ac		
	1.3	Operation			electrical		
	1.4	Operator position			ride-on		
	1.5	Capacity	Q	t	1.0		
	1.6	Load centre of gravity	c	mm	600		
	1.8	Load distance	x	mm			
		Extended mast	x ₁	mm			
	1.9	Centre distance	y	mm	1,600		
Weights	2.1	Truck weight incl. battery (see line 6.5)			kg	5,150	
	2.3	Weight on axis without front / rear load			kg	3,600 / 1,620	
	2.4	Weight on axis with front / rear load and extended mast			kg	7,000 / 970	
	2.5	Weight on axis with front / rear load and retracted mast			kg	/	
	Wheels Frame	3.1	Wheels and tyres			Polyurethane	
3.2		Front wheel size			mm	343	
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	b ₁₁	mm	1,130		
Base dimensions		4.1	Mast/forks support plate inclination, forward/backward	/	°	/	
	4.2	Lowered mast height	h ₁	mm	3,600		
	4.3	Free lift	h ₂	mm	/		
	4.4	Forks lifting stroke	h ₃	mm	7,420		
	4.5	Extended mast height	h ₄	mm	8,600		
	4.7	Upper edge overhead guard height (cabin)	h ₆	mm	2,155		
	4.8	Seat height / Platform height	h ₇	mm	1,140		
	4.10	Forks height	h ₈	mm			
	4.19	Overall length	l ₁	mm	2,505		
	4.20	Length including forks heel	l ₂	mm	1,400		
	4.21	Overall width	b ₁ /b ₂	mm	1,404		
	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			Fem 2A		
	4.24	Forks support plate width	b ₃	mm			
	4.25	Width over forks	b ₅	mm			
	4.26	Forks internal gauge	b ₄	mm			
	4.28	Mast stroke	l ₄	mm			
	4.31	Clearance under the mast with load	m ₁	mm			
	4.32	Clearance at mid stroke	m ₂	mm	95		
	4.33	Working aisle width with 1000 x 1200 transversal pallet	Ast	mm	see table		
	4.34	Working aisle width with 800 x 1200 longitudinal pallet	Ast	mm	see table		
		Truck diagonal	D	mm			
	4.35	Turning radius	Wa	mm			
4.37	Length including support forks	l ₇	mm				
Performance	5.1	Speed with / without load			km/h	11 / 12	
	5.2	Lifting speed with / without load			m/s	0.30 / 0.50	
	5.3	Lowering speed with/without load			m/s	0.50 / 0.50	
	5.4	Mast speed with/without load			m/s	/	
	5.8	Max. feasible gradient with / without load			%		
	5.9	Acceleration with / without load			s	6.5 / 7	
	5.10	Service brake			hydraulic		
	5.11	Parking brake			electromagnetic		
	Electric motors	6.1	Traction motor, performance with S2 60 min			kW	6.5
		6.2	Lift motor, performance with S3 15%			kW	15
		6.3	Battery as per DIN 43531 / 35 / 36 A, B, C, no			no	
6.4		K5 battery voltage, nominal capacity			V/Ah	48 / 620 (*775)	
6.5		Battery weight			kg	1,020	
6.6		Power consumption as per VDI cycle			kW/h		
Miscellaneous	8.1	Type of electronic system			AC inverter		
	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.