GET UP AND GROW

Order picking
stacker trucks

Neos II TRI ac

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 over-heating);
  - 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)

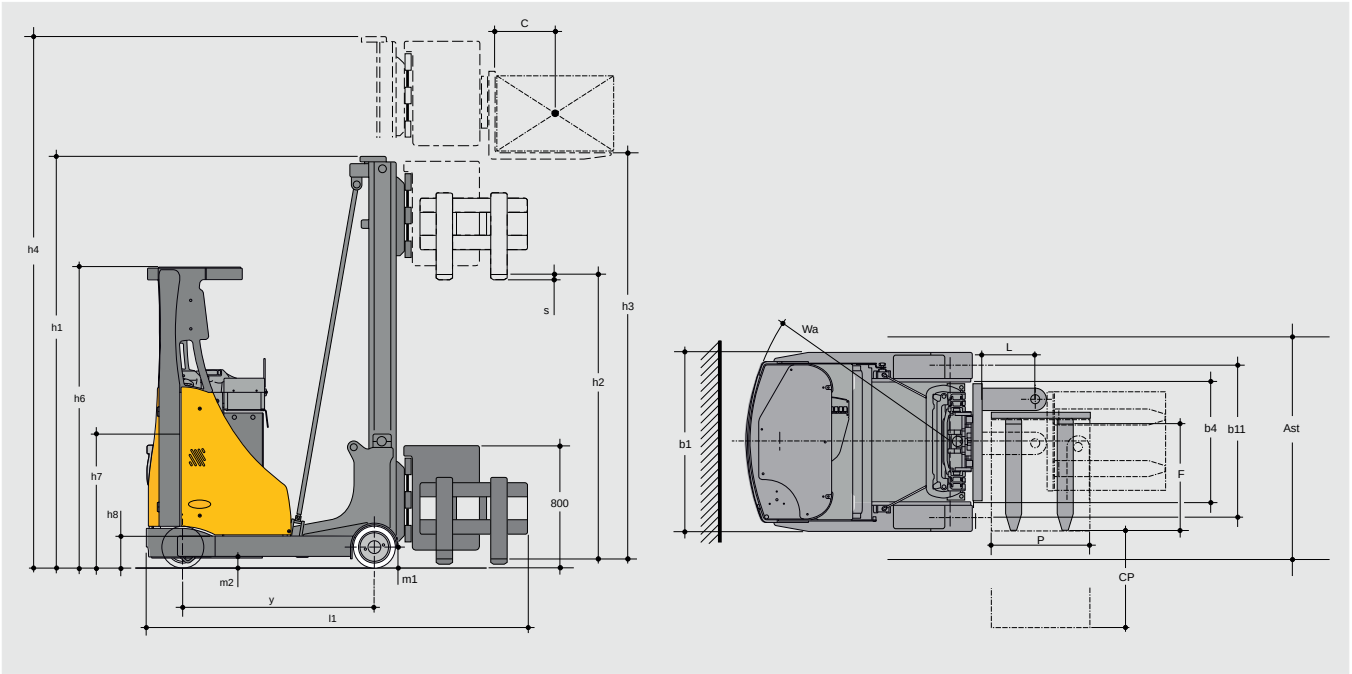
The mono-joystick controls all hydraulic functions of the machine.

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

■ 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	α/α	°	/
	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.