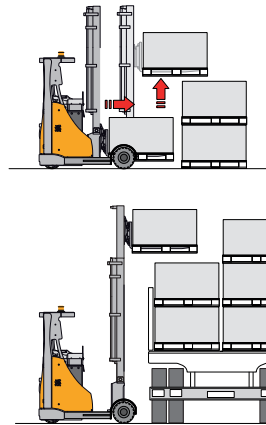


Forklift trucks with retractable mast and superelastic tyres: innovative, robust, suitable for any type of floor



The revolutionary Neos II 16 20 SE ac forklift trucks come with retractable mast and superelastic tyres. They actually can be used just like the traditional front forklift trucks while also benefiting from the functions, features and compact size of a retractable forklift truck. The superelastic wheels (drive and load) and the electric steering with dedicated motor and electronic control for safe, accurate and silent operation, render these trucks efficient on any type of floors, even on irregular ones that usually represent an obstacle for this category of products.

Frame

The monobloc construction of the chassis 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.

Steering

Easy to use servo-assisted electric steering with electronic equipment and dedicated ac motor for safe, silent and simple operation. The steering wheel can be longitudinally adjusted for enhanced driving comfort, with the possibility of selecting between 180° or 360° guidance by simply pressing the selection button.

Hydraulic functions

Powerful and silent ac lift motor, capable of adjusting the number of revo-

lutions 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 4,160 to 8,210 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.

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; a real advantage for this type of product.
- electromagnetic parking brake on the drive wheel;
- hydraulic braking on load wheels.

Electronic system

All products in the Neos II range are fitted with cutting edge electronic controls that 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.

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 and 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.



Finger tip

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

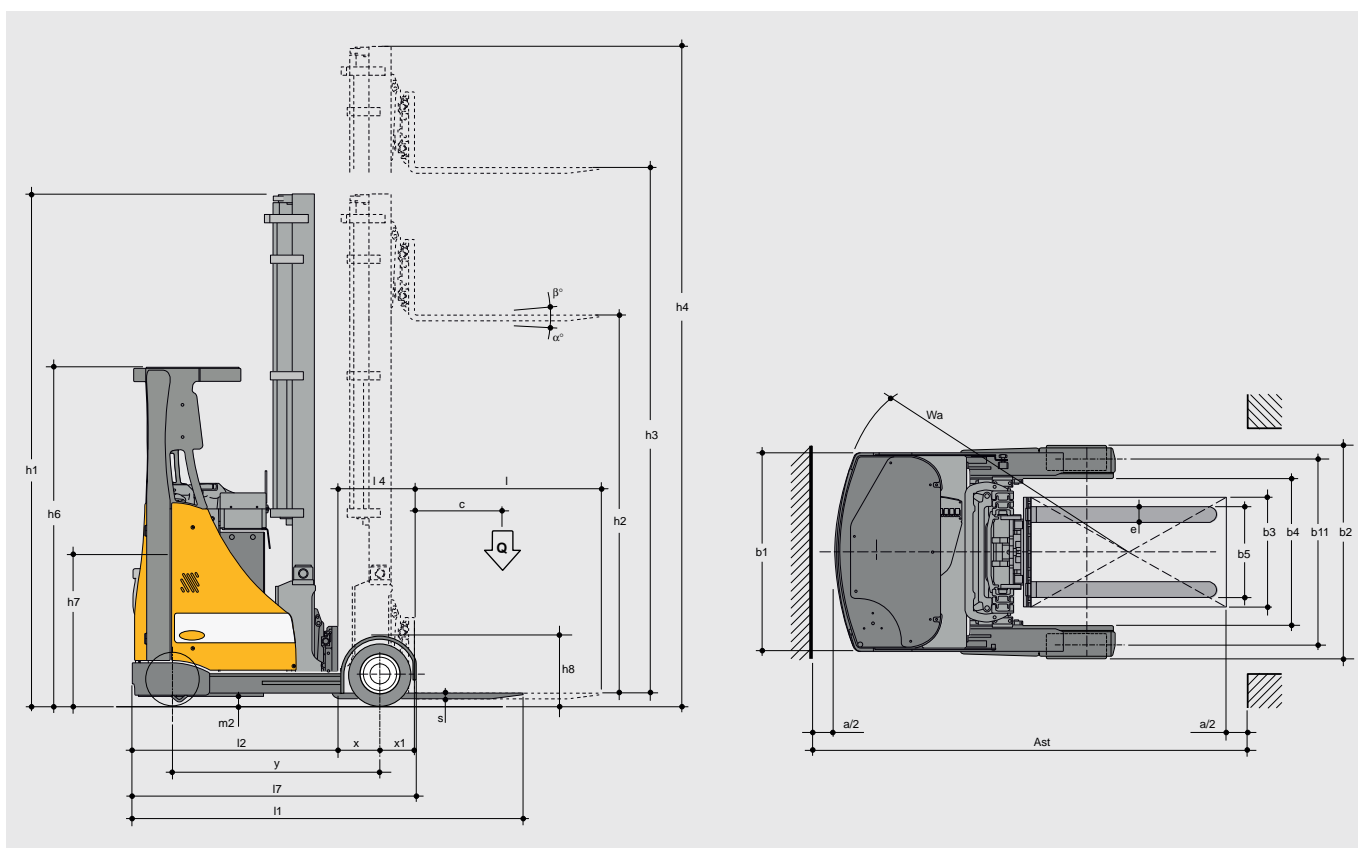


Lateral battery extraction

Lateral battery extraction system with rollers for readily battery replacement in case of intensive use during multiple work shifts.



Standard masts							Capacities:		
Description	Lowered mast height h ₁	Forks stroke h ₃	Total lift h ₃ +s	Extended mast height h ₄	Free lift h ₂	Forks support plate tilting system fwd/bwd / (°)	with shifter (t) c=600 mm		
							Neos II 16 SE ac	Neos II 20 SE ac	
Triplex-GAL	mm	2,085	4,160	4,200	4,820	1,470	3 / 5	1.6	2.0
	mm	2,185	4,460	4,500	5,120	1,570	3 / 5	1.6	2.0
	mm	2,415	5,160	5,200	5,820	1,800	3 / 5	1.6	2.0
	mm	2,665	5,960	6,000	6,620	2,060	3 / 5	1.6	1.9
	mm	2,925	6,660	6,700	7,320	2,310	3 / 5	1.5	1.8
	mm	3,190	7,460	7,500	8,120	2,580	3 / 5	1.4	1.7
	mm	3,490	8,210	8,250	8,870	2,880	3 / 5	1.4	1.6



Accessories and special features

multifunction monojoystick	<input type="checkbox"/>	metal cabin	<input type="checkbox"/>
reverse buzzer and beacon light	<input type="checkbox"/>	metal cabin protected against adverse weather conditions	<input type="checkbox"/>
"tilting forks" tilting system for forks support plate	<input type="checkbox"/>	protection for cold store	<input type="checkbox"/>
forks support plate with built-in lateral shift adjustment	<input type="checkbox"/>	heating system for cold storage	<input type="checkbox"/>
lateral battery extraction system	<input type="checkbox"/>	heated seat 24V	<input type="checkbox"/>
single roller for lateral battery extraction	<input type="checkbox"/>	widened spars for special pallets	<input type="checkbox"/>
digital lifting display and preselector for 10 levels	<input type="checkbox"/>	work lights	<input type="checkbox"/>
built-in shifter self-centring button	<input type="checkbox"/>	safety grid for bulky loads	<input type="checkbox"/>
button for automatic horizontal positioning of the forks	<input type="checkbox"/>	seat belts	<input type="checkbox"/>
video camera placed on the forks and colour display in the cabin	<input type="checkbox"/>	access keypad with pin code	<input type="checkbox"/>
video camera placed on the plate and colour display in the cabin	<input type="checkbox"/>	additional hydraulic function	<input type="checkbox"/>

standard



optional



Characteristics	1.1	Manufacturer			OMG S.r.l. Single member company	
	1.2	Model			Neos II 16 SE ac	Neos II 20 SE ac
	1.3	Operation			electrical	
	1.4	Operator position			ride-on	
	1.5	Capacity	Q	t	1.6	2.0
	1.6	Load centre distance	c	mm	600	
	1.8	Load distance	x	mm	370	490
		Extended mast	x1	mm	275	
	1.9	Centre distance	y	mm	1,405	1,700
Weights	2.1	Truck weight incl. battery (see line 6.5)		kg	3,775	3,560
	2.3	Weight on axis without front / rear load		kg	2,427 / 1,348	2,450 / 1,410
	2.4	Weight on axis with front / rear load and extended mast		kg	735 / 4,640	700 / 5,170
	2.5	Weight on axis with front / rear load and retracted mast		kg	2,080 / 3,295	2,300 / 3,560
Wheels Frame	3.1	Wheels and tyres			superelastic	
	3.2	Front wheel size		mm	454x200 (200/50-10)	
	3.3	Rear wheels size		mm	457x178 (18x7-8)	
	3.5	Number of front / rear wheels (x = drive)		no.	1x / 2	
	3.6	Front track	b10	mm	/	
	3.7	Rear track	b11	mm	1,310	
	Base dimensions	4.1	Mast/forks support plate inclination, forward/backward		/ °	3 / 5
4.2		Lowered mast height		h1 mm	2,665	
4.3		Free lift		h2 mm	2,060	
4.4		Forks lifting stroke		h3 mm	5,960	
4.5		Extended mast height		h4 mm	6,620	
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	476	
4.19		Overall length	l1	mm	2,480	2,655
4.20		Length including forks heel	l2	mm	1,330	1,505
4.21		Overall width	b1/b2	mm	1,275 / 1,460	
4.22		Forks size	s/e/l	mm	40 / 120 / 1,150	
4.23		Forks support plate ISO 2328, class/type A, B			2/A	
4.24		Forks support plate width	b3	mm	730	
4.25		Width over forks	b5	mm	720	
4.26		Forks internal gauge	b4	mm	948	
4.28		Mast stroke	l4	mm	645	765
4.31		Clearance under the mast with load		m1 mm	/	
4.32		Clearance at mid stroke		m2 mm	80	
4.33		Working aisle width with 1000 x 1200 transversal pallet		Ast mm	2,869	2,979
4.34	Working aisle width with 800 x 1200 longitudinal pallet		Ast mm	2,820	3,005	
Performance	4.35	Truck diagonal		D mm	/	
	4.35	Turning radius	Wa	mm	1,700	1,992
	4.37	Length including support forks	l7	mm	1,975	2,245
	5.1	Speed with / without load		km/h	11.5 / 12.5	11 / 12.5
	5.2	Lifting speed with / without load		m/s	0.35 / 0.50	0.30 / 0.50
	5.3	Lowering speed with/without load		m/s	0.50 / 0.45	
	5.4	Mast speed with/without load		m/s	0.10 / 0.10	
	5.8	Max. feasible gradient with / without load		%	13 / 20	11 / 20
5.9	Acceleration with / without load		s	6 / 5.6		
5.10	Service brake			hydraulic		
5.11	Parking brake			electrical		
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.