

**The electric pallet truck used
in the airport sector, a perfect
combination of technology,
flexibility and robustness.**



The NEOS 3F electric pallet trucks with on-board operator are used in the airport sector, particularly for handling ULDs (Unit Load Devices), pallets or containers used for loading cargo onto aircraft. Equipped with three forks, the length of which can be customised, the NEOS 3F is agile and manoeuvrable in all manoeuvres, thanks also to the elevated driving position of the operator, which guarantees a wide view. For greater user comfort, the machine is equipped with a knob and access step.

Frame

The monobloc construction of the frame ensures maximum stability and enhanced mechanical resistance during stacking and travelling, maintaining high capacities. 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 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.

Forks

The NEOS 3F are equipped with forks of customisable length, the tips of which are reinforced. The machine is equipped with a 6-bearing fork carrier plate to improve robustness during forking. In addition, there is a front fork guard made of nylon with a thickness of approximately 15 mm and a height of 150 mm across the entire width.

Operator's compartment

- fabric seat and steering wheel adjustable;
- 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);
 - battery level indicator.



Driver's seat

The driver's seat is equipped with a side seat. The central position of the operator inside the chassis ensures a high level of protection and all-round visibility. For greater comfort, the workplace is equipped with an access knob and step, as well as two multifunctional displays.



Forks

The NEOS 3F can be equipped with reinforced tip forks of customisable length. Available with nylon load stop protection.

Braking system

- regenerative braking by reversing the running direction;
- regenerative braking by releasing the accelerator pedal;
- electromagnetic parking brake on the drive wheel;

Forks lifting

- NEOS 3F are available with two lifts: 330 mm and 520 mm.

Functional Components

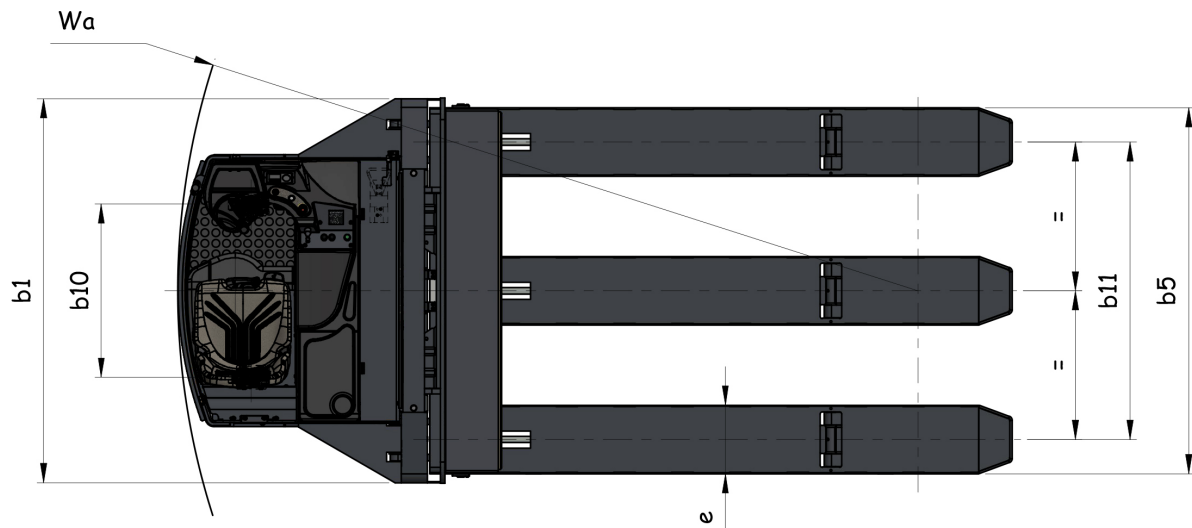
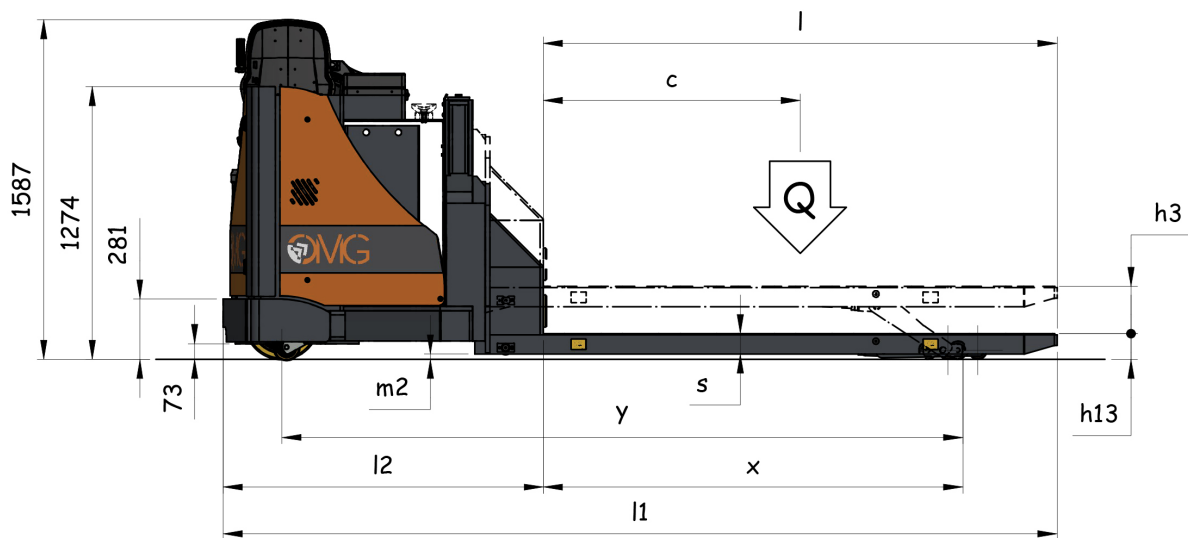
The NEOS 3F has a steering wheel and a travel direction selector, as well as two lift/lower control buttons and a lift release button.



Lateral battery extraction

The large capacity 48V 620 Ah battery ensures long working autonomy. The easy lock system for battery removal ensures fast battery change for multi-shift use.





Accessori ed esecuzioni speciali

weighing kit	polyurethane drive wheel	
reverse buzzer and beacon light	metal cabin protected against adverse weather conditions	
limit switch for lift lock at preset position (excludable)	12 km/h speed	
nylon protection bar	heating system	
lateral battery extraction system	heated seat 24V	
blue spot beacom light	work lights	
digital lifting display and preselector for 10 levels	centralised battery topping-up	
built-in shifter self-centring button	seat belts	
button for automatic horizontal positioning of the forks	access keypad with pin code	
video camera placed on the forks and colour display in the cabin	electronic braking system	
supertrack drive wheel	electronic speed control	
electromagnetic parking brake	display with voltmeter-timer, auto-lock function at 80% low battery	

standard optional

Characteristics	1.1	Manufacturer			OMG S.r.l.	
	1.2	Model			NEOS 3F	
	1.3	Operation			electrical	
	1.4	Operator position			ride-on	
	1.5	Capacity	Q	t	7.5	
	1.6	Load centre distance	c	mm	1.200	
	1.8	Load distance	x	mm	1.960	
	1.9	Centre distance	y	mm	3.181	
	Weights	2.1	Truck weight incl. battery (see line 6.5)			kg
2.2		Weight on axis with front / rear load			kg	4.467 / 6.721
2.4		Weight on axis without front / rear load			kg	2.709 / 979
Ruote Telaio	3.1	Wheels and tyres			Polyurethane	
	3.2	Front wheel size		mm	343	
	3.3	Rear wheels size		mm	n°12 - 85 x 70	
	3.4	Stabiliser wheels size		mm	n°12 - 125 x 54	
	3.6	Front track	b10	mm	810	
	3.7	Rear track	b11	mm	1.390	
	Wheels Frame	4.4	Forks lifting stroke	h3	mm	330 / 520
4.15		Forks lowered height	h13	mm	120	
4.19		Overall length	l1	mm	3.896	
4.20		Length including forks heel	l2	mm	1.496	
4.21		Overall width	b1	mm	1.794	
4.22		Forks size	s/e/l	mm	95 / 320 / 2.400	
4.25		Width over forks	b5	mm	1.710	
4.32		Clearance at mid stroke	m2	mm	25	
4.35		Turning radius	Wa	mm	3.456	
Performance	5.1	Speed with / without load			km/h	4 / 9
	5.2	Lifting speed with / without load			m/s	
	5.3	Lowering speed with/without load			m/s	
	5.7	Max. feasible gradient with / without load			%	
	5.9	Acceleration with / without load			s	
	5.10	Service brake			Electromagnetic	
Electric motors	6.1	Traction motor, performance with S2 60 min			kW	6.0
	6.2	Lift motor, performance with S3 15%			kW	
	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
	6.5	Battery weight			kg	905
	6.6	Power consumption as per VDI cycle			kW/h	
Miscellaneous	8.1	Type of electronic system			ac	
	8.2	Equipment operating pressure			bar	
	8.3	Oil flow rate for equipment			l/min	
	8.4	Noise threshold as per EN 12 053			dB(A)	<70

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..