



# Multi directional reach truck **Neos II 25 4-D ac**



The new reach truck multi-directional Neos II 25 4-D ac, has been designed to transport and lift long loads in very tight aisles and storage spaces. It does the job of a conventional side-loader lift truck moving in all directions but retaining very compact dimensions. It is also available with the wide opening fork positioner to handle long loads. There are nine travel programs available installed ranging from normal travel through turning to transverse, parallel and cross travel.

#### **Chassis**

The mono bloc chassis construction ensures maximum stability and superior mechanical strength in all drive and stacking situations, maintaining high residual capacities even at maximum heights. The battery compartment is easily accessible by lifting the bulkhead, simplifying daily and periodical checks and recharging. The standard lateral battery removal system on rollers simplifies battery replacement for heavy duty use over several work shifts.

#### **Drive**

Reliable sensor less three phase current traction drive motor able to meet the most demanding performance requirements, delivering the necessary

power under all load conditions as the traction speed exactly depends on the position of accelerator pedal.

#### **Electronic system**

The entire Neos II range is equipped with inverter electronic equipments. These controls monitor all the machine's functions and allow any adjustment to optimise the performance of the machine, adapting it to the type of work it has to carry out. All the parameters relating to drive, braking and hydraulic functions are electronically adjustable by the dashboard of the remote desktop directly from OMG according to the different customer needs.

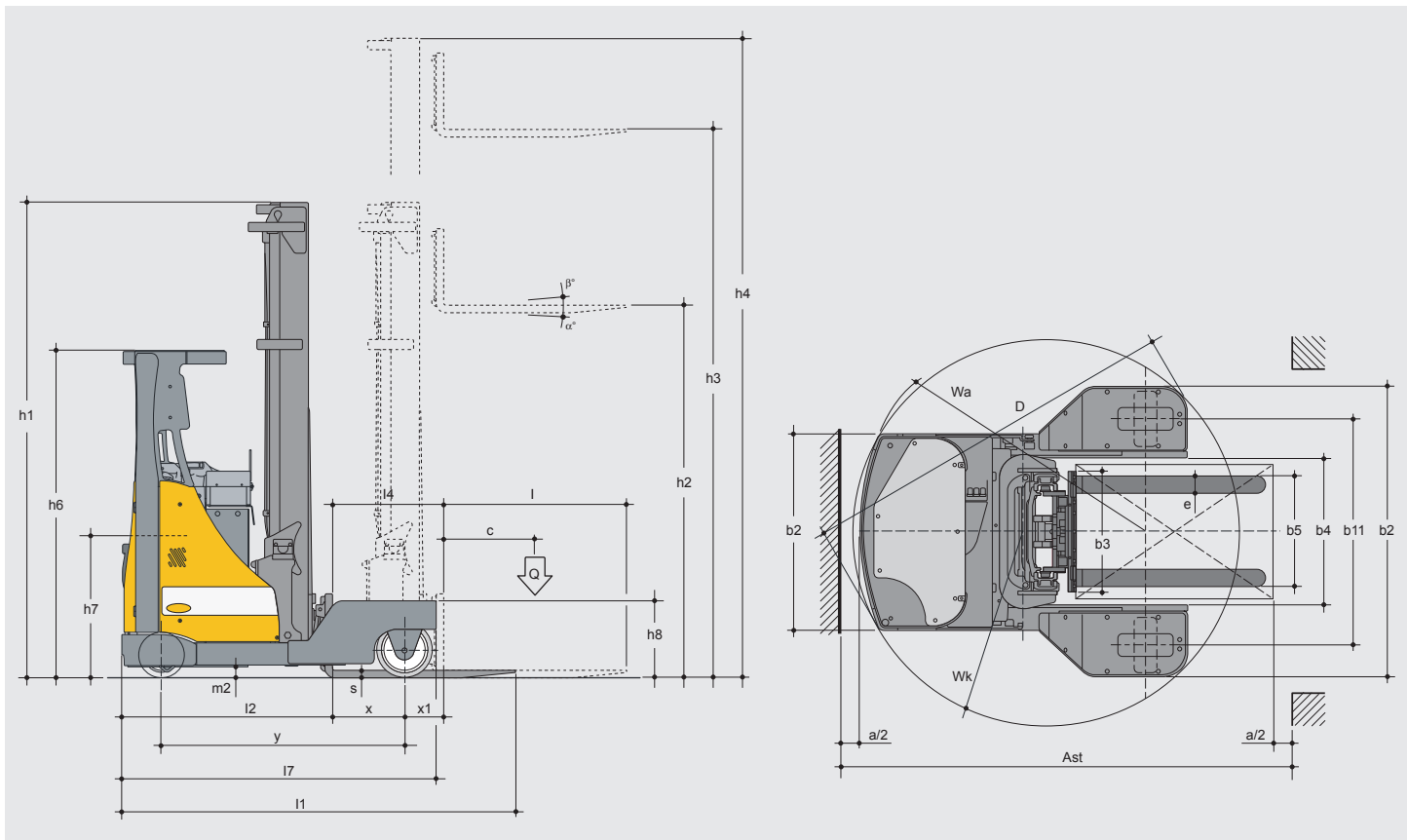
#### **Hydraulic functions**

Powerful and noiseless lift motor in alternated current ac controlled by proportional solenoids which regulates the pump rpm, always providing the right quantity of oil. All the hydraulic functions are controlled by finger tips which ensure precise and safe load handling for the operator. Lifting gear with integrated braking system granting gradual slow down at end of travel avoiding rough stops which could compromise load stability.

Characteristics	1.1	Manufacturer		OMG S.p.A.		
	1.2	Model		<b>NEOS II 25 4-D ac</b>		
	1.3	Drive		electric		
	1.4	Operator type		seat		
	1.5	Load capacity / rated load	Q	t	2.5	
	1.6	Load centre distance	c	mm	600	
	1.8	Load distance (centre of load axle to fork face)	x	mm	454	
		Mast pushed forward	x1	mm	245	
	1.9	Wheelbase	y	mm	1.600	
Weights	2.1	Service weight incl. battery (see line 6.5)		kg	4.250	
	2.3	Axle loading, mast retracted unladen front/rear		kg	2.600 / 1.640	
	2.4	Axle loading, mast advanced, laden front /rear		kg	668 / 6.160	
	2.5	Axle loading, mast retracted, laden front /rear		kg	2.300 / 4.440	
Wheels Chassis	3.1	Tires		Polyurethane		
	3.2	Tire size, front		mm	343 (350)	
	3.3	Tire size, rear		mm	350	
	3.5	Wheels, number front / rear (x = driven wheels)		n°	1x / 2	
	3.6	Track width, front	b10	mm	/	
	3.7	Track width, rear	b11	mm	1.450	
	Basic dimensions	4.1	Fork carriage tilt forward /backward	$\alpha/\beta$	°	3 / 5
4.2		Mast lowered height	h1	mm	2.275	
4.3		Free lift	h2	mm	1.750	
4.4		Lift height	h3	mm	5.250	
4.5		Mast extended height	h4	mm	5.775	
4.7		Overhead load guard (cab) height	h6	mm	2.155	
4.8		Seat height	h7	mm	1.140	
4.10		Height of wheel arms	h8	mm	495	
4.19		Overall length	l1	mm	2.551	
4.20		Length to face of forks	l2	mm	1.401	
4.21		Overall width	b1/b2	mm	1.270 / 1.870	
4.22		Forks dimensions	s/e/l	mm	45 x 120 x 1.150	
4.23		Fork carriage ISO 2328, class /type A, B			2/A	
4.24		Fork carriage width	b3	mm	720	
4.25		Width over forks	b5	mm	700	
4.26		Distance between support arms	b4	mm	948	
4.28		Reach distance	l4	mm	699	
4.31		Ground clearance under mast, laden	m1	mm	70	
4.32		Ground clearance, centre of wheelbase	m2	mm	73	
4.33		Aisle width for pallets 1000 x 1200 crossways	Ast	mm	2.953	
4.34		Aisle width for pallets 800 x 1200 lengthways	Ast	mm	2.901	
		Truck diagonal	D	mm	2.445	
4.35		Turning radius	Wa	mm	1.855	
4.37	Length across wheel arms	l7	mm	2.055		
Performances	5.1	Travel speed laden / unladen		km/h	11.5 / 12.5	
	5.2	Lifting speed laden / unladen		m/s	0.35 / 0.50	
	5.3	Lowering speed laden / unladen		m/s	0.50 / 0.45	
	5.4	Reach speed, laden /unladen		m/s	010 / 010	
	5.7	Max gradient performance		%	10 / 15	
	5.9	Acceleration time, laden /unladen		s	6.5 / 7	
	5.10	Service brake		hydraulic		
	5.11	Parking brake		electromagnetical		
	Electric Motor	6.1	Traction motor, rating S2 60 min		kW	6.5
		6.2	Lift motor, rating S3 15%		kW	15
		6.3	Battery according to DIN 43531 / 35 / 36 A, B, C, no			no
6.4		Battery voltage, nominal capacity K5		V/Ah	48 / 620 (*775)	
6.5		Battery weight		kg	960	
6.6		Energy consumption according to VDI cycle		kW/h		
Others	8.1	Type of drive control		inverter ac		
	8.2	Operating pressure for attachments		bar	180	
	8.3	Oil volume for attachments		l/min	25	
	8.4	Sound level at driver's ear according to EN 12 053		dB(A)	<80	
					* option	

Technical specification according to VDI 2198, technical values are referred to the standard product. Different masts, different tires, additional equipment, etc. could produce other values. Information and data are given for information only, OMG S.p.A. will have the sole right for technical changes and improvements without giving any notice.

Standard masts							Capacity	
Denomination	Mast lowered height	Lift height	Total Lift height	Mast extended height	Free lift	Fork carriage tilt forward/backward $\alpha/\beta$ (°)	with side-shift (t) c=600 mm	
	h1	h3	h3+s	h4	h2		Neos II 25 4-D ac	
Triplex-FFL	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	2.575	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	3.375	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



Accessories and special executions		
multifunctions monojoystick	■	all weather metal cab
flashing beacon with reverse buzzer	■	metal cab for cold store execution
tilting on forks holder plate "tilting forks"	■	cold store execution
integrated side-shift	■	heating system for cold store cab
battery side extraction	■	24V heated seat
single battery stand with wheels	■	adjustable spot lamps
digital lifting height indicator and pre-selector for 10 levels	■	load protection guard
automatic side-shift centralising	■	safety belt
automatic horizontal positioning of forks	■	pin access keypad
camera on the forks with color monitor inside the cab	■	additional hydraulic function
camera on the forks holder plate with color monitor inside the cab	■	wide opening fork positioner ( 560 > 2.250 mm)
standard	■	option

## Masts

The masts, cold drawn section, ensure torsional and bending rigidity, and are available with the following characteristics:

- triplex with full free lift large total free lift and lifting heights available from 4.165 to 10.500 mm;
- tilting forks holder plate (Tilting Forks);
- integrated side-shift to avoid forward movement of the centre of gravity and maintain optimum residual capacities at all lifting heights.

## Operator's driving position

- adjustable comfort seat;
- longitudinally adjustable steering wheel;
- anti slippery operator's feet platform;
- LCD dash board showing the following necessary data for the manoeuvre:
  - parking brake indicator;
  - warning lights (neutral position, controller overheating, motor overheating);
  - operating hours indicator;
  - speedometer;
  - "ON" indicator for the slow traction (turtle push button);
  - different power output ways E/S/H, E=economy S=standard E=super;
  - battery charge indicator.
- Graphic display for automatic positioning of the wheels:
  - F1 standard direction
  - F2 side direction (3 wheels steering)
  - F3 multi directional 360°
  - F4 free directions "ad hoc" (six different modalities)

## Brakes

Independent braking systems throughout the range:

- electric braking with energy recovery on reversal of direction of travel;
- electric braking with energy recovery on release of the accelerator pedal;
- automatic parking brake with drive inhibition;
- hydraulic braking on drive wheel;
- hydraulic braking on load wheels.



**Mono-joystick (option)**  
The mono-joystick includes all the machine hydraulic function.



## Finger tip (standard)

The hydraulic functions by finger tip ensure the operator to make a precise and safe load handling.



## Fork positioner (option)

The Neos II 25-D ac can be equipped as option by a wide opening fork positioner (560 > 2.250 mm), this allow and make safe the operation of stacking and picking large and long loads.



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