

VNA TRUCK

OPK 160
Man-Up Turret Truck

NOBLELIFT
Built for better.

OVERVIEW

BUILT FOR BETTER.

The OPK-160 is a man-up turret truck built for the tallest, tightest high-density racking — operating in aisles as narrow as 1.7 metres and lifting the operator and load to 16.28 metres. A true dual-purpose machine, it handles full-pallet stacking and retrieval as well as single-item picking in high-rack environments, so one truck covers both jobs. The operator works seated or standing from a spacious cabin with an adjustable control console, while coordinated control of travel speed, lift height and load keeps everything stable up high. An 80V AC drivetrain and CAN-BUS control make it built for demanding, high-throughput sites.



Key Features

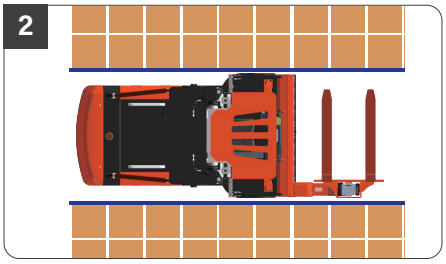
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Man-up, dual-purpose operation

Stacks and retrieves full pallets and picks single items from height in one machine, with a single-button multi-purpose control coordinating mast lift and the picking/stacking functions for simpler cycles.

2



Ultra-narrow aisle capability

Works in aisles as tight as 1.7 metres to pack more racking into the same footprint and lift productivity per square metre.

3



Reaches up to 16.28 metres

A high-lift mast opens up the full height of tall racking, whether working the mid-level area or right at the top.

4



Coordinated dynamic stability

Travel speed, lift height and load capacity are managed together to hold the truck steady during high-level operations.

5



Multi-level safety alarm system

Laser collision-avoidance sensors, emergency braking and audible-visual alarms work together to protect both operator and truck.

6



80V AC drivetrain

A stable, reliable, maintenance-free AC motor delivers strong, consistent performance shift after shift.

7



Gravitational energy recovery

Recovers potential energy on lowering to extend battery operating time between charges.

8



Three selectable travel speeds

Slow, medium and fast modes match the truck to the task and conditions.

9



Foldable seat

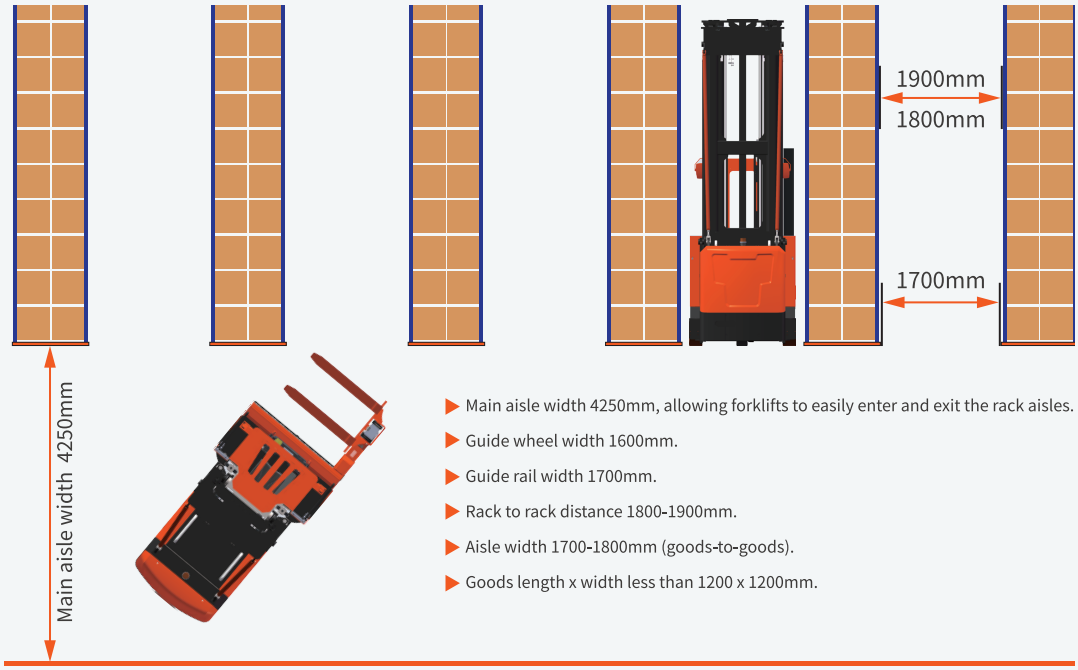
Folds to let the operator sit or stand, whichever suits the job.



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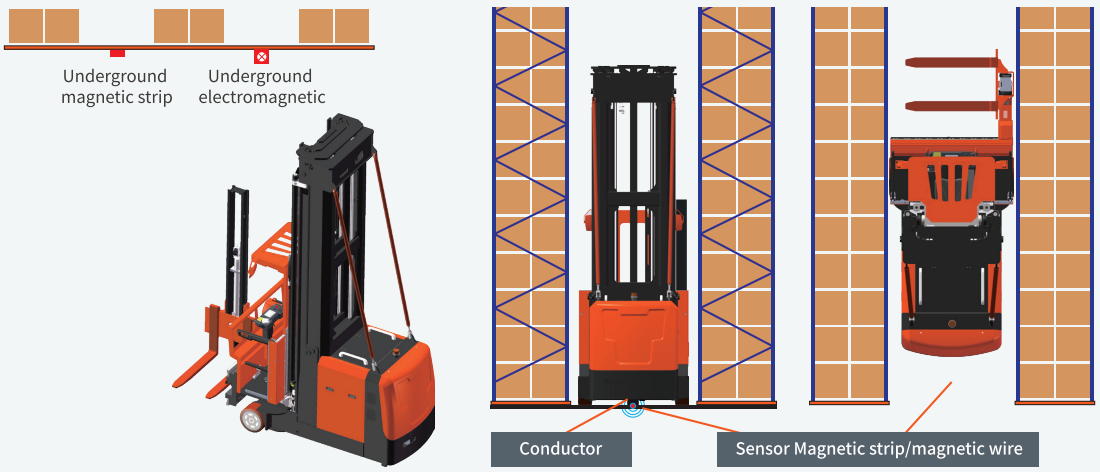
FEATURE	
Centralised console & display	Controls and instrument panel grouped in one console for intuitive, fingertip operation.
LED work lights & fan	LED lighting improves visibility in the rack while a cab fan keeps the operator comfortable.
Foldable seat & adjustable console	The seat folds for sit-or-stand operation and the console adjusts to suit each operator.
Side-accessible battery	The battery can be worked from either side to speed up shift changeovers.

Rack requirements



- Main aisle width 4250mm, allowing forklifts to easily enter and exit the rack aisles.
- Guide wheel width 1600mm.
- Guide rail width 1700mm.
- Rack to rack distance 1800-1900mm.
- Aisle width 1700-1800mm (goods-to-goods).
- Goods length x width less than 1200 x 1200mm.

Magnetic strip/wire navigation (optional)



Specifications – OPK 160

Identification		
Manufacturer's type designation		OPK-160
Drive (electric – battery or mains, diesel, petrol, fuel gas, manual)		Elektro
Type of operation (hand, pedestrian, standing, seated, order picker)		tri-lateral stacker
Load capacity / rated load	Q (kg)	1600
Load centre distance	c (mm)	600
Load distance, centre of drive axle to fork	x (mm)	1260
Wheelbase	y (mm)	1950
Centre drive wheel / Counter weight	z (mm)	280
Weights		
Service weight incl. battery (see line 6.5)	kg	9280
Axle loading, laden front / rear	kg	8610/2270
Axle loading, unladen front / rear	kg	5515/3765
Wheels		
Tyres (solid rubber, superelastic, pneumatic, polyurethane)		PU
Tyre size, front	Ø×w (mm)	380 x 192
Tyre size, rear	Ø×w (mm)	400 x 160
Wheels, number front / rear (x = driven wheels)		2/1x
Track width, front	b10 (mm)	1330
Dimensions		
Lowered mast height	h1 (mm)	4690
Free lift	h2 (mm)	3760
Lift height	h3 (mm)	9500
Extended mast height	h4 (mm)	12220
Overhead load guard (cab) height	h6 (mm)	2550
Seat height / standing height	h7 (mm)	430
Additional lift	h9 (mm)	1780
Stand height, elevated	h12 (mm)	9930
Overall length (unladen)	l1 (mm)	3775
Length to face of forks	l2 (mm)	3465
Overall width	b1/b2 (mm)	1520
Fork dimensions	s/e/l (mm)	50 x 125 x 1200
Fork carriage ISO 2328, class / type A, B		2/B
Fork carriage width	b3 (mm)	860
Width over forks	b5 (mm)	820
Width across guide roller	b6 (mm)	1600
Reach, lateral	b7 (mm)	1320
Reach, lateral from vehicle centreline	b8 (mm)	486
Ground clearance, laden, under mast	m1 (mm)	75
Ground clearance, centre of wheelbase	m2 (mm)	75
Aisle width for pallets 1200 x 800	Ast (mm)	1700
Turning radius	Wa (mm)	2220
Distance to swivelling-fork pivot	l8 (mm)	1050
Total lift	h3+h9 (mm)	11280
Order picking height	h12+1600 (mm)	11530
Distance swivelling forks pivot point – steering rack	l8–x (mm)	610
Pallet width	b12 (mm)	1200
Pallet length	l6 (mm)	1200
Clear width driver compartment entrance	mm	420
Clear driver compartment height inside	mm	2100
Driver compartment width outside	b9 (mm)	1490
Width swivelling reach frame	b14 (mm)	1494
Width extension arm	l10 (mm)	175
Distance swivelling forks pivot point – fork carriage	r (mm)	170

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Specifications - OPK 160

Performance data		
Travel speed, laden / unladen	km/h	9
Lift speed, laden / unladen	m/s	0.30/0.4
Lowering speed, laden / unladen	m/s	0.19/0.32
Reach speed, laden / unladen	m/s	0.2/0.2
Service brake		reverse current / regenerative
Parking brake		electric spring loaded / laminated
Wheelbase	y (mm)	1950
Centre drive wheel / Counter weight	z (mm)	280
Electric motor		
Drive motor rating S2 60 min.	kW	7.5
Lift motor rating at S3 15%	kW	20
Battery acc. to DIN 43531 /35 /36 A, B, C, no		4PZS620
Battery voltage, nominal capacity K5	V/Ah	80/620
Battery weight	kg	1570
Other		
Type of drive control		AC drive control
Sound level at driver's ear according to EN 12 053	dB(A)	70
Steering		electric

Configuration list - OPK 160

Configuration	Availability
AC Full-AC Power System	Standard
EPS Electronic Steering System	Standard
Electro-hydraulic Proportional Control System	Standard
80V High-Capacity Lead-Acid Battery	Standard
Central control instrument panel displays parking brake, driving direction, hour meter, driving speed, fault codes, etc	Standard
Eckerle low-noise gear pump	Standard
Gravitational potential energy recovery	Standard
180-degree fork rotation, 1.7-meter aisle width	Standard
German-made low-noise gearbox	Standard
Reversing camera system	Optional
Obstacle warning system	Optional
All-wheel electromagnetic braking system	Standard
Combined lateral and rotation operation	Standard
One-button centering	Optional
Foldable seats	Standard
Side-accessible battery	Standard
80V high-capacity lithium battery	Optional
Side guide wheels	Standard
Magnetic strip guidance within the passageway	Optional
Electromagnetic guidance within the passageway	Optional

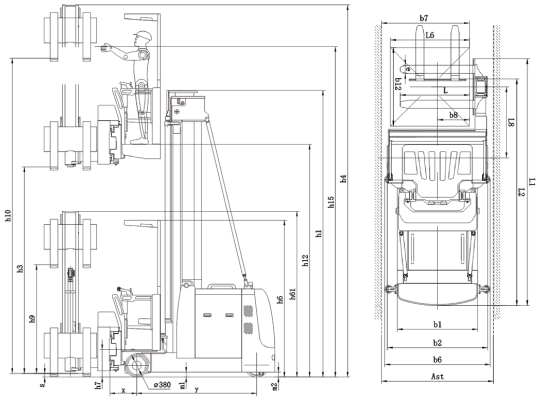
Mast Table - Two stage mast ZT (mm)

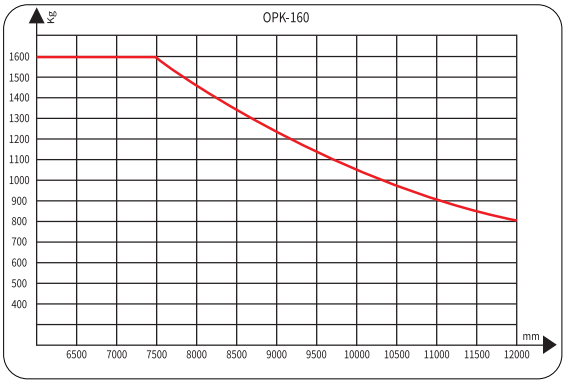
Lift height (h3)	Total lift (h3+h9)	Stand height, elevated (h12)	Order picking height (h15)	Lowered mast height (h1)	Extended mast height (h4)	5720	6200
6000	7780	6430	8030	4205	8720	2415	2575
7000	8780	7430	9030	4805	9720	1495	1655
8000	9780	8430	10030	5305	10720	5720	6200
9000	10780	9430	11030	5905	11720	6636	7116
10000	11780	10430	12030	6405	12720		
10500	12280	10930	12530	6655	13220		

Mast Table - Three stage mast DT (mm)

Total lift (h3+h9)	Stand height, elevated (h12)	Order picking height (h15)	Lowered mast height (h1)	Extended mast height (h4)	Extended mast height (h4)	5720	6200
8280	6930	8530	3495	9220	8720	2415	2575
9280	7930	9530	3895	10220	9720	1495	1655
10280	8930	10530	4295	11220	10720	5720	6200
11280	9930	11530	4695	12220	11720	6636	7116
12280	10930	12530	5045	13220	12720		
13280	11930	13530	5395	14220	13220		
14280	12930	14530	5750	15220			
15280	13930	15530	6250	16220			
16280	14930	16530	6850	17220			

Structural diagram / Load curve graph





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LITHIUM BATTERY

LONG LASTING AND SAFE LITHIUM POWER.

NOBLELIFT uses LiFePO4 chemistry — the longest-lasting and safest lithium battery chemistry available. Every battery is equipped with a Battery Management System (BMS), a thermal management system, and an intelligent control system. The BMS monitors all charging and discharging data to keep the battery safe throughout its life cycle.

Our lithium battery packs are backed by a 5-year / 10,000 hour warranty.

Advantages of Lithium Power

	LEAD-ACID BATTERY	LITHIUM BATTERY
PRODUCTIVITY	Lower fleet availability — work is interrupted because the battery must be fully charged before next use.	100% fleet availability — opportunity charging tops the battery up between use.
SERVICE LIFE	Periodic battery replacement.	Lasts up to 3 times longer and doesn't need replacing.
ONGOING MAINTENANCE	Outsourced or in-house maintenance personnel required.	No maintenance cost.
CHARGE DURATION	8–10 hours — 2 or more batteries per machine.	2–3 hours — 1 battery per machine.
BATTERY ROOM	Requires an expensive, ventilated battery room.	No battery room needed.
SAFETY	Releases hydrogen while charging (explosion risk); acid burns possible during maintenance.	No dangerous substances.
POWER SAVINGS	Power loss.	No power loss — reduces energy consumption by up to 35%.



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SERVICING, PARTS & SUPPORT.

At Noblelift, we understand that reliable servicing and maintenance are essential to keeping your operation running smoothly. That's why we offer comprehensive support tailored to the needs of your Noblelift fleet. With our commitment to excellence and customer satisfaction, you can trust us to keep your equipment operating at peak performance.

Through our nationwide New Zealand network we can provide:

NATIONAL TECHNICAL SUPPORT

Help by phone or on site, nationwide.

FULLY STOCKED PARTS

Genuine parts held in stock across NZ.

MAINTENANCE & SERVICE CONTRACTS

Flexible plans built around your operation.

DEDICATED SERVICE TEAM

Factory-trained technicians with the product knowledge and diagnostic tools to keep your fleet running.

GENUINE PARTS & ACCESSORIES

A full inventory of genuine Noblelift parts, ready when you need them.

BACK-UP MACHINERY

A rental and support fleet on standby to keep you moving through any downtime.

CUSTOMER TRAINING & SUPPORT

Hands-on operator and maintenance training so your team works safely and efficiently.

SCHEDULED MAINTENANCE PROGRAMS

Proactive, tailored servicing that catches issues early and prevents costly breakdowns.

24/7 EMERGENCY SUPPORT

Round-the-clock help to get you back up and running fast.



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Talk to our team for sales and enquires

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Noblelift New Zealand.