

REACH TRUCK

RT 16Li

Moving-Mast Compact Reach Truck

NOBLELIFT

Built for better.

OVERVIEW

BUILT FOR BETTER.

The RT16Li is a lithium-powered ride-on reach truck built for productive indoor stacking. A four-column cabin frame and a low-mounted battery give the operator an exceptionally clear, wide field of view, while a German 6.4kW AC drive, American Curtis controller and electric power steering deliver smooth, responsive handling with real-time 180°/360° steering. It handles 1,600kg loads and turns in just 2,650mm, and a deluxe suspension seat keeps the operator comfortable through long, multi-shift days.



Key Features



Built for indoor stacking

A zero-emission lithium design suited to enclosed indoor warehousing, ready for multi-shift work with fast charging.



Class-leading visibility

A four-column cabin frame and a low-mounted battery open up an exceptionally wide field of view, so the operator can see the load, the forks and the aisle clearly — expanding the field of view well beyond a conventional reach truck.



Compact for narrow aisles

Handles 1,600kg loads and turns in just 2,650mm, making light work of tight aisles.



Faster through every cycle

AC variable-frequency drive gives smooth, precise, stepless control, with travel up to 10.5km/h and lifting up to 0.5m/s (0.4m/s at full load) to keep cycles quick.



Top-tier drivetrain

A German 6.4kW three-phase AC drive motor and American Curtis controller deliver strong power and smooth acceleration, with EPS electric power steering and real-time 180°/360° steering.



Safety built in

The full safety suite works in the background: height limiting, turning speed control, motor temperature and current monitoring, combined electromagnetic and hydraulic braking, and one-click parking.

Height limiting	Automatically stops the lift motor at maximum fork height to prevent over-lifting.
Turning speed control	Automatically limits speed through turns to prevent tipping and keep the truck stable.
Motor temperature monitoring	Real-time monitoring prevents the motor overheating.
Motor current monitoring	Real-time monitoring guards against damage from excessive current.
Electromagnetic and hydraulic braking	Combined braking delivers short, straight, impact-free stops.
Parking electromagnetic brake	One-click parking on slopes or flat ground, simple and secure.



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Visibility, Performance & Safety



FEATURE	
Fingertip control console	A centralised console places every control at the operator's fingertips.
Colour LCD display	A multifunction colour display shows speed, battery, drive mode and status at a glance.
HD monitoring system	An onboard camera and screen give real-time monitoring of cargo stacking at height.
Grammer suspension seat	A highly elastic suspension seat with bionic curved backrest reduces vibration and fatigue, adjustable to suit any operator.
Motor cooling system	Active motor cooling keeps performance steady through heavy, continuous use.
Password lock & 180°/360° steering	A multifunction password lock, with real-time switching between 180° and 360° steering modes.
One-click tilt levelling	One-click tilt levelling brings the forks back to level for fast, accurate placement.
Spacious cab and foot space	A roomy cab and generous foot space let any operator find a comfortable position all shift
LED and safety blue light	LED work lighting and a blue safety light keep the operator and others aware.
Electric adjustable pedals	Electrically adjustable pedals tailor the cab to each operator.
Lift height pre-selection	For precise stacking at height" to the features list.

Specifications - RT16-Li

Identification		
Manufacturer's type designation		RT16Li
Drive: electric (battery or mains), diesel, petrol, gas, manual		electric
Type of operation (hand, pedestrian, standing, seated, order-picker)		seated
Load capacity / rated load	Q (kg)	1600
Load centre distance	c (mm)	600
Load distance, centre of drive axle to fork	x (mm)	310 / 174
Wheelbase	y (mm)	1400
Weights		
Service weight incl. battery	kg	3730
Axle load, mast retracted without load, drive / support arm wheel	kg	2200 / 1530
Axle load, mast extended with load, drive / support arm wheel	kg	620 / 4710
Axle load, mast retracted with load, drive / support arm wheel	kg	1820 / 3510
Wheels		
Type: solid rubber, superelastic, pneumatic, polyurethane		pu
Tyres size, front	Øxw (mm)	Ø343×140
Tyres size, rear	Øxw (mm)	Ø285×110
Wheels, number front / rear (x=driven wheels)		1x / 2
Track width, rear	b11 (mm)	1160
Dimensions		
Mast / fork carriage tilt forward / backward	α/β (°)	4° / -2°
Lowered mast height	h1 (mm)	3900
Free lift	h2 (mm)	3290
Lift height	h3 (mm)	9500
Extended mast height	h4 (mm)	10410
Overhead load guard height	h6 (mm)	2200
Seat height / standing height	h7 (mm)	960
Height of support arms	h8 (mm)	270
Height of lowered forks	h13 (mm)	40
Overall length	l1 (mm)	2475
Length to face of forks	l2 (mm)	1325
Overall width	b1 (mm)	1270
Fork dimensions	s/e/l (mm)	35 / 100 / 1150
Fork carriage ISO 2328, class / type A, B		2A
Width across forks	b5 (mm)	200-740 / 200-818
Distance between support arms	b4 (mm)	900
Reach distance	l4 (mm)	485
Ground clearance, laden, under mast	m1 (mm)	90
Ground clearance, centre of wheelbase	m2 (mm)	75
Aisle width for pallets 1000×1200 crossways	Ast (mm)	2770
Aisle width for pallets 800×1200 lengthways	Ast (mm)	2820
Turning radius	Wa (mm)	1650
Length across support arms	l7 (mm)	1780

Specifications - RT16-Li

Performance Data		
Travel speed, laden / unladen	km/h	10.5 / 10.5
Lift speed, laden / unladen	m/s	0.4 / 0.5
Lowering speed, laden / unladen	m/s	0.45 / 0.45
Reach speed, with / without load	m/s	0.1 / 0.1
Max. gradeability, with / without load	%	10 / 15
Service brake		Hydraulic / electric
Electric Engine		
Drive motor rating S2 60 min	kW	6.4 / 7
Lift motor rating at S3 15%	kW	12.5
Battery voltage, nominal capacity K5	V/Ah	48 / 350
Battery weight	kg	250
Other		
Type of drive control		AC
Sound level at driver's ear according to EN 12 053	dB(A)	68



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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.