

REACH TRUCK

RT 16C

Moving-Mast Outdoor Reach Truck

NOBLELIFT

Built for better.

OVERVIEW

BUILT FOR BETTER.

The RT16C is a sit-on reach truck purpose-built to work outdoors — where most reach trucks can't. Solid rubber tyres on the drive and load wheels shrug off gravel, mud and rough ground, while a high-clearance 120mm chassis clears uneven terrain with ease. Compact and manoeuvrable, it handles 1,600kg loads with a robust, stable mast and smooth electro-hydraulic lifting. A 48V AC drive, German transmission and electric power steering keep it responsive, and an integrated tilt-angle safety system guards against tip-over. Reliable performance where traditional reach trucks fall short.



Key Features



Built for the outdoors

Solid rubber tyres on both drive and load wheels resist wear and punctures and grip firmly on gravel and muddy ground, for stable, slip-resistant operation where traditional reach trucks fall short.



Advanced configuration

A 48V full AC drive, German-imported transmission and electric power steering give smooth, responsive handling, with instant switching between 180° and 360° steering modes and a multifunction colour LCD dashboard.



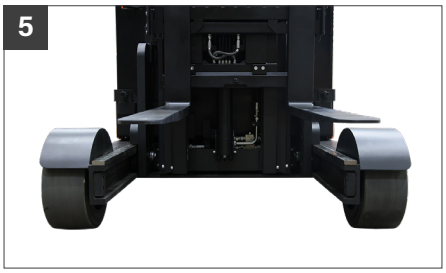
Universal mast design

A robust, rigid mast — interchangeable within series — with an upgraded clearance-adjustment system for front-to-back stability, plus electro-hydraulic proportional control and hydraulic cushioning for smooth, low-shock lifting.



Tilt-angle protection

An integrated angle sensor automatically restricts lifting when the truck reaches a certain tilt angle, helping prevent tip-over — especially valuable on uneven outdoor ground.



Comprehensive safety protection

The full safety suite works in the background: height limiting, turning speed control, motor temperature and current monitoring, combined with 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	
Colour LCD display	A multifunction colour display shows steering position, battery, warnings, fault codes, hours and speed at a glance.
180° / 360° steering	Switch in real time between 180° and 360° steering modes for greater flexibility.
High-clearance chassis	A 120mm high-clearance chassis clears uneven ground and rough outdoor surfaces with ease.
Wide vision and space	A roomy cab with wide sightlines for comfortable, confident operation.
Fingertip control console	A centralised console places every control at the operator's fingertips.
Integrated side shifter	An integrated side shift makes fine load positioning quick and precise.
Grammer suspension seat	A Grammer suspension seat with high-elasticity shock absorption for all-day comfort on rough terrain.
LED and safety blue light	LED work lighting and a blue safety light keep the operator and others aware.

Type sheet acc. to VDI 2198 - RT 16C

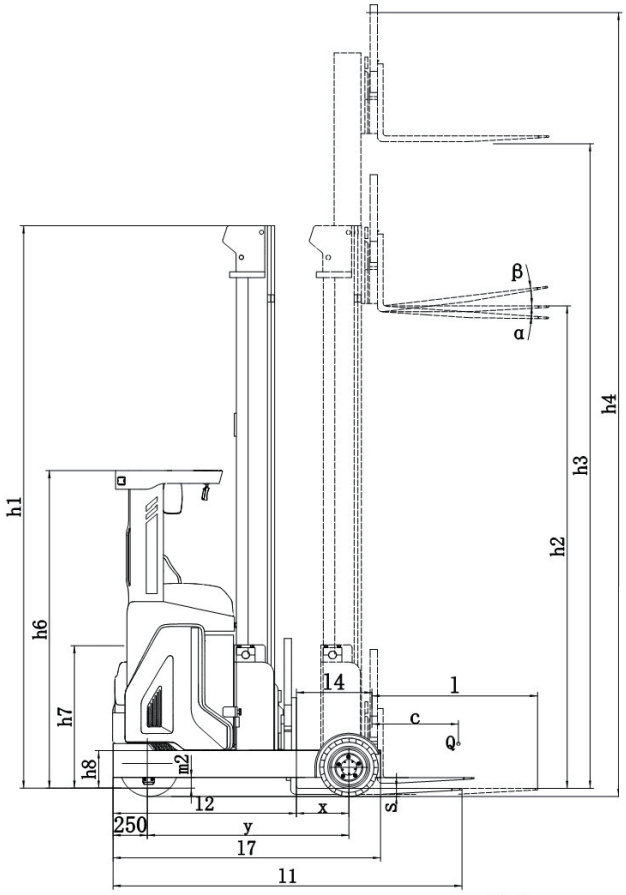
Identification		
Type designation		RT16C
Drive		Electric
Operator type		Seated
Rated capacity	Q (kg)	1600
Load centre	C (mm)	600
Load distance, centre of drive axle to fork	x (mm)	325 / 270
Wheelbase	y (mm)	1420
Weights		
Service weight including battery	kg	4090
Axle load, mast retracted without load, drive / support arm wheel	kg	2474 / 1616
Axle load, mast extended with load, drive / support arm wheel	kg	772 / 4961
Axle load, mast retracted with load, drive / support arm wheel	kg	2131 / 3584
Wheels		
Drive / support arm wheel		Rubber solid tire
Wheel size, front	Øxw (mm)	406 x 178
Wheel size, rear	Øxw (mm)	406 x 178
Wheels, number front / rear (x=driven wheels)		1x / 2
Track width, rear	b11 (mm)	1222
Tread, rear	b10 (mm)	964
Dimensions		
Tilt of fork, forward / backward	α/β (°)	4° / -2°
Height, mast extended	h1 (mm)	3280
Free lift	h2 (mm)	2563
Lift height	h3 (mm)	7500
Extended mast height	h4 (mm)	8456
Height of overhead guard (cab)	h6 (mm)	2240
Seat height	h7 (mm)	1130
Height of support arms	h8 (mm)	270
Height of lowered forks	h13 (mm)	40
Overall length	l1 (mm)	2520
Length to face of forks	l2 (mm)	1338
Overall width	b1 (mm)	1400
Fork dimensions	s/e/l (mm)	40 / 120 / 1150
Fork carriage ISO 2328, class / type A, B		2
Width across forks	b5 (mm)	200-740 / 200-818
Distance between support arms	b4 (mm)	900
Reach distance	l4 (mm)	595
Ground clearance, with load, below mast	m1 (mm)	105
Ground clearance, centre of wheelbase	m2 (mm)	120
Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2680
Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2845
Turning radius	Wa (mm)	1770
Length across support arms	l7 (mm)	1902
Performance Data		
Travel speed, with / without load	km/h	10 / 10
Lift speed, with / without load	m/s	0.35 / 0.5
Lowering speed, with / without load	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
Lift motor rating S3 15%	kW	12.5
Battery voltage, nominal capacity K5	V/Ah	48 / 560
Lithium Battery Voltage	V/Ah	48 / 400
Battery weight	kg	950
Other		
Type of drive control		AC
Sound level at the driver's ear according to EN 12 053	dB(A)	68

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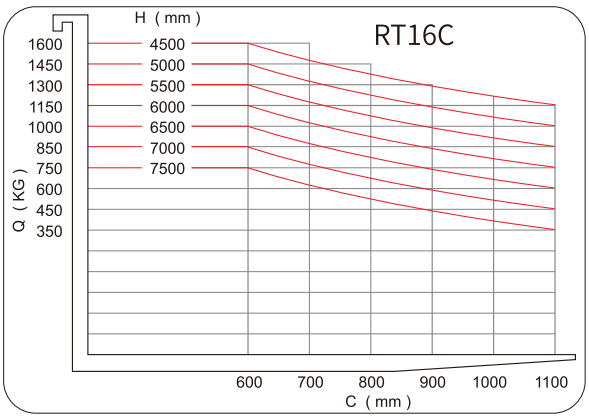
Mast options (No. 2025.07.26)

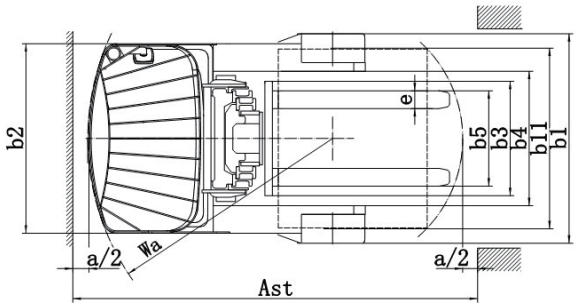
Type		4500	5000	5500	6000	6500	7000	7500
Mast, collapsed height	h1	2281	2446	2614	2781	2946	3114	3280
Free lift	h2	1563	1730	1897	2063	2230	2397	2563
Lift height	h3	4500	5000	5500	6000	6500	7000	7500
Extended mast height	h4	5456	5956	6456	6956	7456	7956	8456
Recommended masts (h3)	h3	4500	5500	6500	7500			

Structure diagram



Load curve diagram







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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.