

REACH TRUCK

RRS 150 - 180
Stand-on Reach Truck

NOBLELIFT
Built for better.

OVERVIEW

BUILT FOR BETTER.

The RRS-150-180 is a moving-mast reach truck built for high-density racking in narrow aisles — reaching to 6000mm on a three-stage full free mast while working down to a 2690mm aisle. A compact design, 48V AC drive and electric steering keep it agile and responsive, while an active suspension stabilisation system locks the chassis under lateral load and high lifts to hold the truck steady where it matters most. Curve speed control and a front-wheel assisting brake add confidence through corners and on slippery floors, so operators move loads high, fast and safely, shift after shift.



Key Features

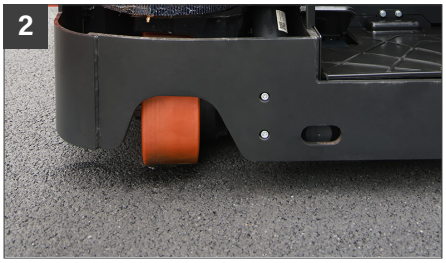
1



Reaches high in narrow aisles

A three-stage full free mast lifts to 6000mm while working down to a 2690mm aisle, opening up dense, high-rise storage.

2



Active suspension stabilisation

The suspension locks under lateral acceleration and during high-position handling to suppress front-wheel lift and rear-end sway, then floats at low mast heights for a smooth ride over uneven floors.

3



Curve speed control

Automatically matches travel speed to mast height and turning radius for smoother, safer cornering while carrying loads.

4



Front-wheel assisting brake

An extra brake on the load-bearing front wheel works with the drive-wheel brakes to shorten stopping distances and cut skidding under heavy loads or on slippery floors.

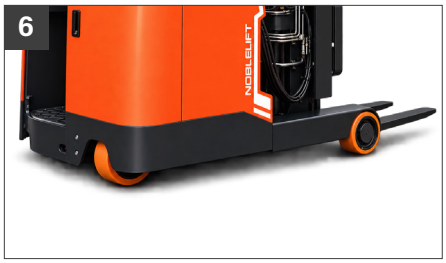
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48V AC drive and electric steering

Responsive, precise handling with the efficiency and low upkeep of AC technology.

6



Single-unit drive axle

The drive section is built as one module, simplifying servicing and speeding up after-sales maintenance to keep the truck working.

7



Operator-focused controls

A multifunction colour LCD display, centralised control console and LED work lights keep key information and functions within easy reach.

Well-designed, safe and easy to maintain.

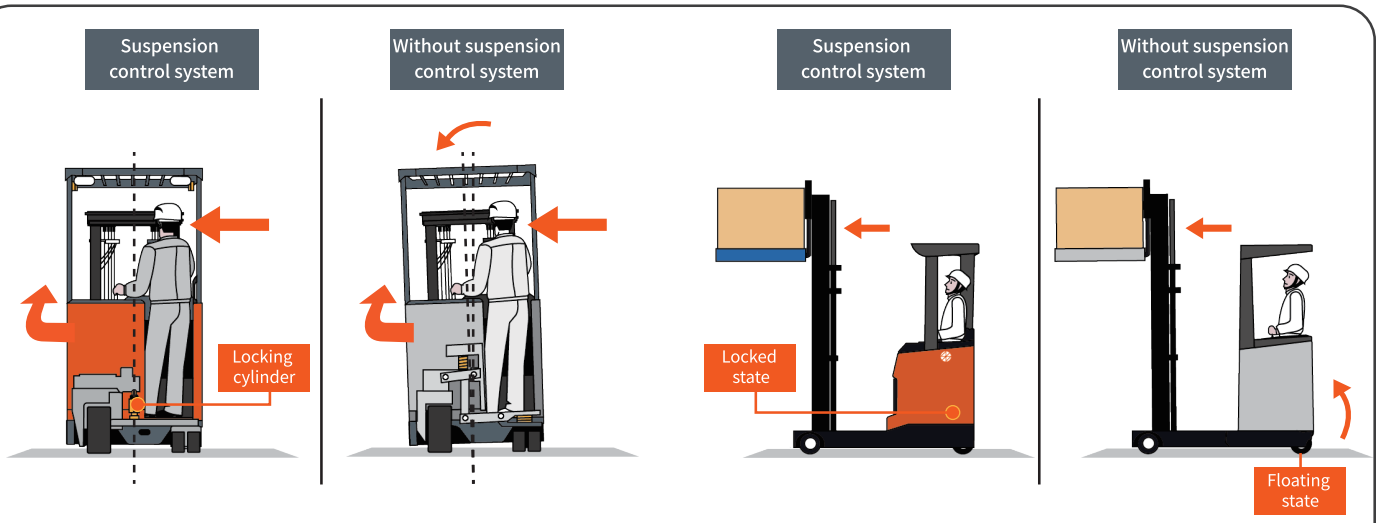


FEATURE	
Centralised control console	Key controls grouped in one console for intuitive, low-fatigue operation.
LED work lights & reverse spotlight	LED lighting and a reverse blue spotlight keep the work area and nearby pedestrians visible.
Active suspension control	Locks under lateral load and high lifts for stability, then floats at low mast heights for road adaptability.
Front-wheel assisting brake	Extra braking on the load wheel shortens stopping distances and reduces skidding.
Colour LCD display	A multifunction colour instrument panel keeps travel, lift and status information clear at a glance.
Easy hydraulic top-up	An accessible hydraulic oil filler simplifies routine checks.
Quality-brand components	Control systems sourced from established brands for proven reliability.
Single-unit drive axle	The drive section assembles as one module for fast servicing and easy after-sales maintenance.
Curve speed control	Matches turning speed to mast height and radius for safer cornering.



Stand-on Reach Truck **Noblelift New Zealand**

Excellent automatic suspension control system



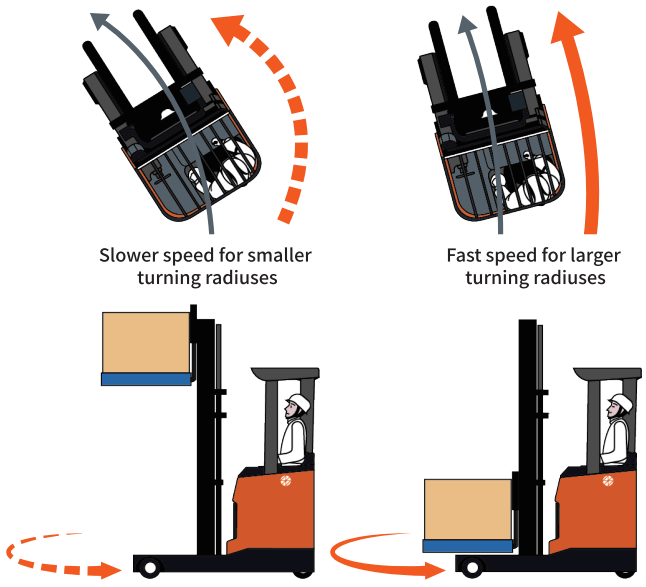
Suspension control:

When lateral acceleration is detected, the suspension locking cylinder quickly and stably locks, effectively suppressing excessive front wheel lift.

Suspension control:

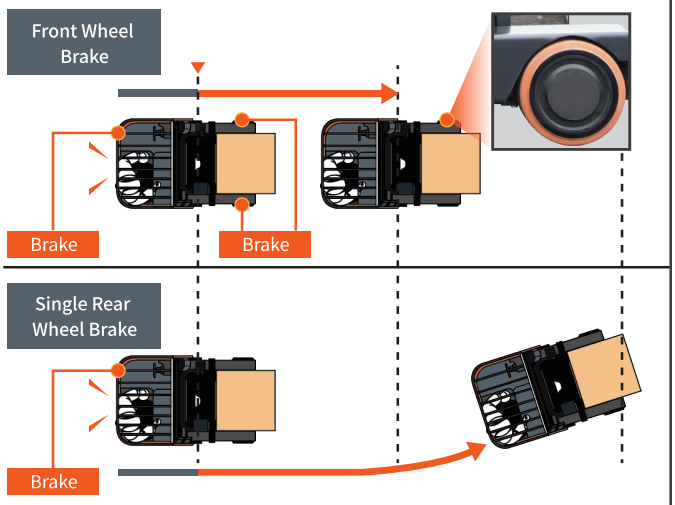
When the mast is extended forward and handling loads at a high position, the suspension sway locks, preventing the rear end from lifting and enhancing stability during high-lift operations. When the mast is in the low position, the suspension floats, providing excellent road adaptability.

Curve Speed Control



The Curve Speed Control automatically and precisely controls turning speed based on the mast height and turning radius, ensuring smoother and more reliable cornering during load-lifting operations.

Front Wheel Assisting Brake System



A highly efficient assisting brake is specially added to the front load-bearing wheel. When the vehicle is heavily loaded or driving on slippery roads, this assisting brake works in conjunction with the drive wheel brake system to provide stable and reliable braking force, effectively shortening stopping distances and significantly reducing vehicle skidding.

Type sheet acc. to VDI 2198 — RSS 150-180

Identification			
Model		RRS-150	RRS-180
Drive		Electric	Electric
Operator type		Stand	Stand
Load capacity / rated load	Q (kg)	1500	1800
Load centre	c (mm)	500	500
Load distance, centre of support arm wheel to face of forks	x (mm)	400 / 175	550 / 175
Wheelbase	y (mm)	1365	1515
Weights			
Service weight including battery	kg	3200	3280
Axle load, mast retracted without load, drive / support arm wheel	kg	2020 / 1180	2124 / 1156
Axle load, mast extended with load, drive / support arm wheel	kg	705 / 3950	595 / 4685
Axle load, mast retracted with load, drive / support arm wheel	kg	1877 / 2823	1930 / 3350
Wheels Chassis			
Drive / support arm wheel		PU	PU
Wheel size, front	Øxw (mm)	310 x 120	310 x 120
Wheel size, rear	Øxw (mm)	254 x 120	254 x 120
Wheel size, rear, caster	Øxw (mm)	150 x 80	150 x 80
Wheels, number front / rear (x=driven wheels)		2 / 1x+2	2 / 1x+2
Track width, rear	b11 (mm)	970	970
Tread, rear	b11 (mm)	360	360
Dimensions			
Tilt of fork, forward / backward	α/β (°)	4° / -2°	4° / -2°
Height, mast extended	h1 (mm)	1995	1995
Free lift	h2 (mm)	415	415
Lift height	h3 (mm)	3000	3000
Extended mast height	h4 (mm)	3885	3885
Height of overhead guard (cab)	h6 (mm)	2260	2260
Platform height	h7 (mm)	260	260
Height of support arms	h8 (mm)	275	275
Height of lowered forks	h13 (mm)	40	40
Overall length	l1 (mm)	2085	2085
Length to face of forks	l2 (mm)	1165	1165
Overall width	b1 (mm)	1090	1090
Fork dimensions	s/e/l (mm)	35 / 100 / 920	35 / 100 / 920
Fork carriage ISO 2328, class / type A, B		2/A	2/A
Width across forks	b5 (mm)	220-730	220-730
Distance between support arms	b4 (mm)	750	750
Reach distance	l4 (mm)	575	725
Ground clearance, with load, below mast	m1 (mm)	80	80
Ground clearance, centre of wheelbase	m2 (mm)	80	80
Aisle width for pallets 1100 x 1100	Ast (mm)	2650	2700
Turning radius	Wa (mm)	1605	1755
Length across support arms	l7 (mm)	1705	1855
Performance Data			
Travel speed, with / without load	km/h	10 / 10	10 / 10
Lift speed, with / without load	m/s	0.30 / 0.56	0.30 / 0.56
Lowering speed, with / without load	m/s	0.50 / 0.55	0.50 / 0.55
Reach speed, with / without load	m/s	0.22 / 0.24	0.22 / 0.24
Max. gradeability, with / without load	%	10 / 10	10 / 10
Service brake		Hydraulic / electric	Hydraulic / electric
Electric Motor			
Drive motor rating S2 60 min	kW	4.9	4.9
Lift motor rating S3 15%	kW	8	8
Battery voltage / nominal capacity K5	V/Ah	48 / 280	48 / 375
Battery weight	kg	515	545
Other			
Electric and controller		AC	AC
Sound level at the driver's ear according to EN 12053	dB(A)	60	60

Standard mast is two-stage, 3000 mm lift. Further two-stage and three-stage mast options are listed below.

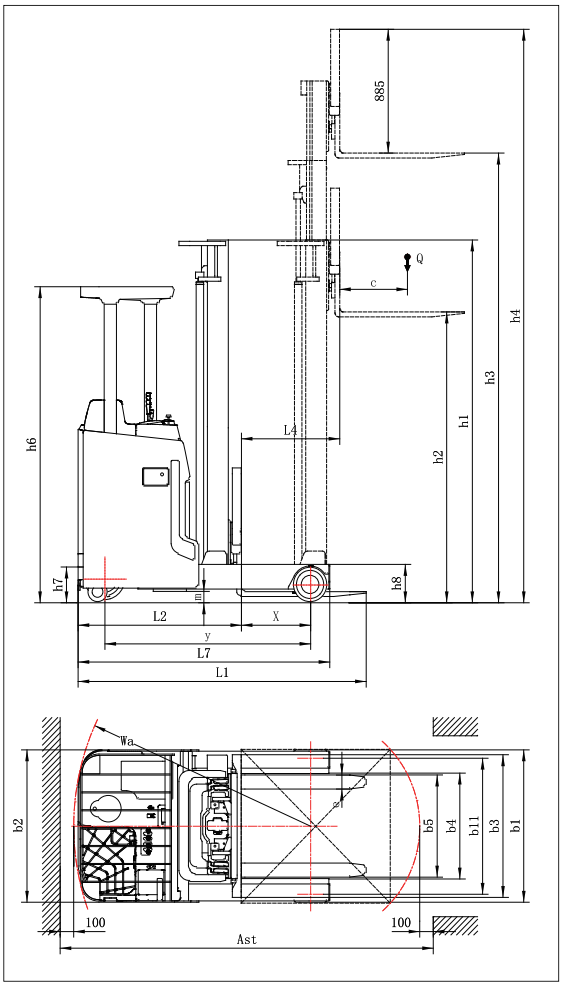
Mast options — two-stage (No. 2025.10.24)

Type		3000	3500	4000
Mast, collapsed height	h1	1995	2245	2495
Free lift	h2	415	415	415
Lift height	h3	3000	3500	4000
Extended mast height	h4	3885	4385	4885

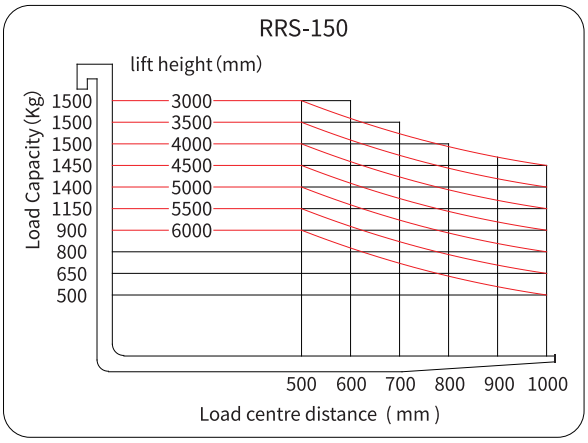
Mast options — three-stage (No. 2025.10.24)

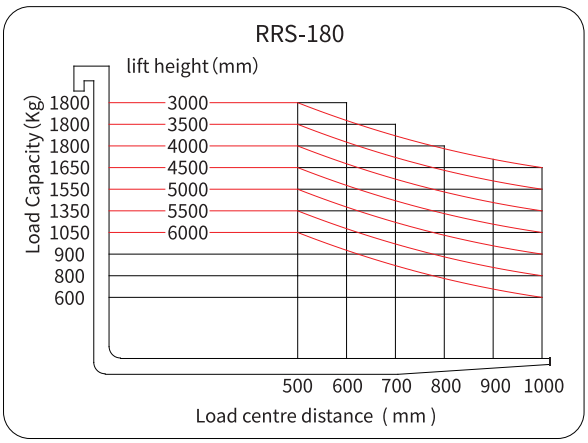
Type		5000	5500	6000
Mast, collapsed height	h1	2270	2430	2595
Free lift	h2	1385	1545	1710
Lift height	h3	5000	5500	6000
Extended mast height	h4	5885	6385	6885

Structure diagram



Load curve diagram







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%.



NOBLELIFT
Built for better.

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.



NOBLELIFT

Built for better.

Talk to our team for sales and enquires

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Noblelift New Zealand.