

REACH TRUCK

RT20G

Moving Mast Reach Truck

NOBLELIFT

Built for better.

OVERVIEW

BUILT FOR BETTER.

The RT20G is a sit-on reach truck built for indoor warehousing, pairing a zero-emission lithium design with an ultra-compact body that slips easily into narrow aisles. Despite its size, it handles 2,000kg loads to a 9.5-metre lift height, with upgraded lift, lowering and travel speeds that push productivity well above comparable trucks. An 80V full AC drive, German transmission and Curtis controller deliver smooth power and endurance, while electric power steering keeps handling light and precise. A comprehensive safety system works constantly in the background, making it a fast, efficient and dependable choice for high-bay operations.





Key Features

1



Built for indoor warehousing

A zero-emission lithium design purpose-built for enclosed indoor spaces, with no fumes to manage.

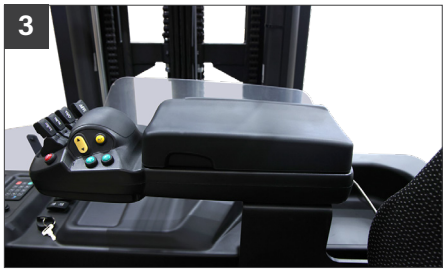
2



Compact for narrow aisles

An ultra-compact body handles the tightest aisles, yet still lifts 2,000kg loads to a 9.5-metre height.

3



Faster through every cycle

Upgraded speeds — 450mm/s lifting at full load, 500mm/s lowering and up to 14km/h travel — lift efficiency well above comparable trucks and get more done in a single shift.

4



Top-tier drivetrain

An 80V full AC drive, high-performance German transmission and Curtis controller combine power with endurance, and electric power steering comes standard.

5



Safety built in

A 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.
Wide vision and space	A roomy cab with wide sightlines for comfortable, confident operation.
Grammer suspension seat	A Grammer suspension seat with high-elastic shock absorption for all-day comfort.
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.
HD monitoring system	An onboard camera and screen give a clear view of the forks and load at height.
Built-in side shift	An integrated side shift makes fine load positioning quick and precise.
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.

Type sheet acc. to VDI 2198 - RT20G

Identification		
Model		RT20G
Drive		Electric
Operator type		Seated
Load capacity / rated load	Q (kg)	2000
Load centre	c (mm)	600
Load distance, centre of support arm wheel to face of forks	x (mm)	385 / 200
Wheelbase	y (mm)	1530
Weights		
Service weight including battery	kg	4120
Axle load, mast retracted without load, drive / support arm wheel	kg	2554 / 1563
Axle load, mast extended with load, drive / support arm wheel	kg	713 / 5484
Axle load, mast retracted with load, drive / support arm wheel	kg	2231 / 3922
Wheels		
Drive / support arm wheel		PU
Wheel size, front	Øxw (mm)	Ø 343 x 140
Wheel size, rear	Øxw (mm)	Ø 330 x 110
Wheels, number front / rear (x=driven wheels)		1x / 2
Track width, rear	b11 (mm)	1160
Dimensions		
Tilt of fork, forward / backward	α/β (°)	4° / -2°
Height, mast extended	h1 (mm)	3900
Free lift	h2 (mm)	3290
Lift height	h3 (mm)	9500
Extended mast height	h4 (mm)	10410
Height of overhead guard (cab)	h6 (mm)	2200
Seat height	h7 (mm)	1090
Height of support arms	h8 (mm)	270
Height of lowered forks	h13 (mm)	40
Overall length	l1 (mm)	2525
Length to face of forks	l2 (mm)	1382
Overall width	b1 (mm)	1270
Fork dimensions	s/e/l (mm)	40 / 120 / 1150
Fork carriage ISO 2328, class / type A, B		2/A
Width across forks	b5 (mm)	240-740 / 240-818
Distance between support arms	b4 (mm)	900
Reach distance	l4 (mm)	585
Ground clearance, with load, below mast	m1 (mm)	90
Ground clearance, centre of wheelbase	m2 (mm)	75
Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	2826
Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2874
Turning radius	Wa (mm)	1767
Length across support arms	l7 (mm)	1930

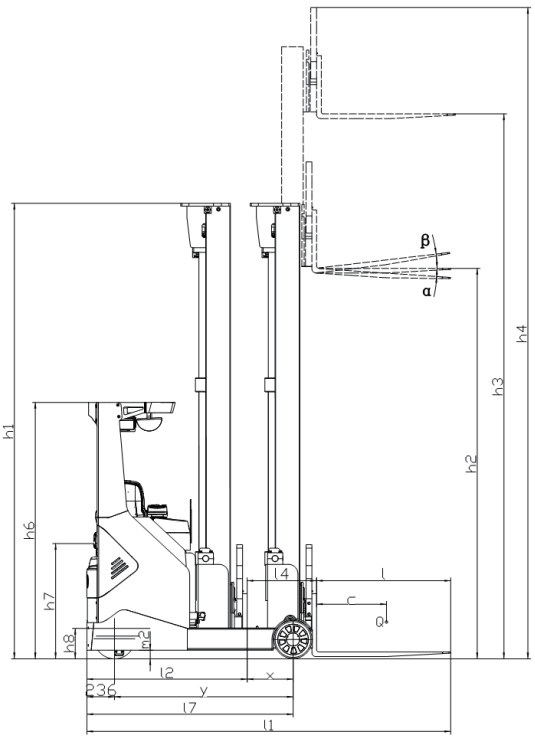
Type sheet acc. to VDI 2198 - RT20G

Performance Data		
Travel speed, with / without load	km/h	14 / 14
Lift speed, with / without load	m/s	0.45 / 0.58
Lowering speed, with / without load	m/s	0.5 / 0.5
Reach speed, with / without load	m/s	0.12 / 0.12
Max. gradeability, with / without load	%	10 / 15
Service brake		Hydraulic / electric
Electric Engine		
Drive motor rating S2 60 min	kW	8.1
Lift motor rating S3 15%	kW	20
Lithium Battery Voltage	V/Ah	76.8 / 300
Battery weight	kg	500
Other		
Type of drive control		AC
Sound level at the driver's ear according to EN 12 053	dB(A)	62

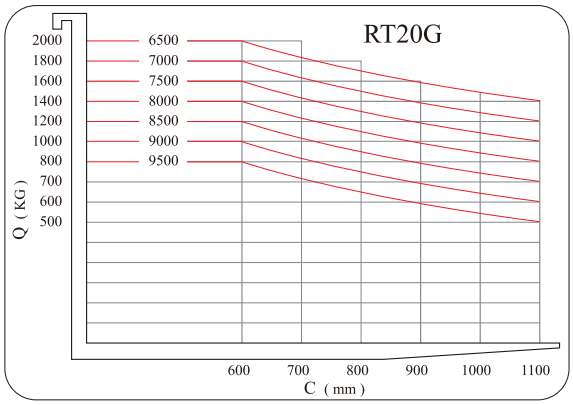
Mast options (No. 2025.07.26)

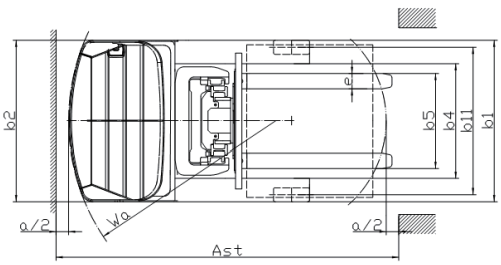
Type		4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500
Mast, collapsed height	h1	2235	2400	2568	2735	2900	3068	3234	3400	3567	3734	3900
Free lift	h2	1563	1730	1897	2063	2230	2397	2563	2730	2897	3063	3230
Lift height	h3	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500
Extended mast height	h4	5410	5910	6410	6910	7410	7910	8410	8910	9410	9910	10410
Recommended masts (h3)	h3	4500	5500	6500	7500	8500	9500					

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%.



NOBLELIFT
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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.