

REACH TRUCK

RT15-20SP/DP

Pantograph Mast Reach Truck

NOBLELIFT

Built for better.

OVERVIEW

BUILT FOR BETTER.

The RT20SP is a stand-on scissor reach truck built to pick and place at serious height in narrow-aisle warehouses. Its high-performance scissor structure reaches smoothly into racking with minimal sway, lifting up to 1,200kg — and holding that capacity right up to its full 10.5-metre lift height. A 360° in-situ steering system and compact chassis make light work of tight aisles, while a spacious, shock-absorbed standing platform and patented multifunction joystick keep the operator comfortable and in complete control. With adaptive load sensing and automatic cornering deceleration built in, safety is designed into every movement.





LIFTING HEIGHT UP TO 10500MM

Key Features

1



High-performance scissor structure

A robust, stable scissor reaches smoothly into racking while minimising vibration and rocking, and lifts up to 1,200kg — holding that capacity right up to its full 10.5m lift height. It retracts compactly to shrink the truck's footprint and free up space.

2



Superior efficiency in tight aisles

Effortless 360° in-situ steering and a compact chassis suit the narrowest aisles, while small, short load wheels reach across racks of different heights — all with swift lifting and travel.

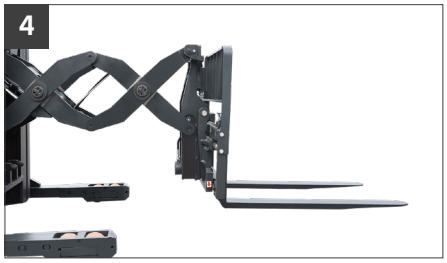
3



Built around the operator

A spacious standing platform with an integrated shock-absorbing floor, waist and elbow support, an improved roof guard for a clear upward view, and an ergonomic multifunction handle keep operators comfortable and productive.

4



Excellent stability

A one-touch levelling function keeps loading and unloading stable, and cushioned end-of-scissor retraction reduces impact for a steadier lift.

5



Safe and reliable

Automatic deceleration when cornering helps prevent accidents, backed by dual foot pedals, automatic fork levelling, fully proportional hydraulic control and a full wraparound cab.

6



Quick and easy maintenance

A centre-mounted integrated battery makes removal and inspection easy, the chassis door opens for quick internal checks, and every component is methodically arranged for fast identification.

Adaptive load sensing - safety built in

Every lift is checked before it happens. The RT series continuously senses the weight on the forks and automatically limits lift height to what the truck can safely handle — if a load is heavier than it should be for the height, the truck simply won't lift it. It's protection working quietly in the background, guarding your operators, your stock and your racking from overload, every single time.

Visibility, Performance & Safety



FEATURE	
Patented multifunction joystick	A patented Noblelift design combines drive, lift, reach and steering into a single joystick at the operator's fingertips.
180° / 360° steering	Switch in real time between 180° and 360° steering modes, with a password lock for secure access.
HD monitoring system	An onboard camera and screen give a clear view of the forks and load when working at height.
Spacious standing platform	A roomy platform with an integrated shock-absorbing floor for a smoother, more comfortable ride all shift.
Dampened reach and compartment	Cushioned reach movements and a dampened compartment reduce impact and vibration for a steadier ride.
Colour LCD display	A multifunction colour display shows speed, battery, drive mode and system status at a glance.

Type sheet acc. to VDI 2198

Model			RT15DP	RT15SP	RT20SP
Power			Electric	Electric	Electric
Operator type			Stand	Stand	Stand
Load capacity		kg	1500	1500	2000
Load centre		mm	600	600	600
Load distance		mm	See table 2	See table 6	See table 10
Wheelbase		mm	See table 2	See table 6	See table 10

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Type sheet acc. to VDI 2198					
Weights					
Weight	Less battery	kg	See table 4	See table 8	See table 12
Tyres					
Tyres	Power unit side, drive	mm	⌀ 343 x 140	⌀ 343 x 140	⌀ 343 x 140
Tyres	Load side, standard wheel	mm	⌀ 127 x 74	⌀ 127 x 74	⌀ 127 x 104
Castor wheel	Size	mm	⌀ 205 x 101	⌀ 205 x 101	⌀ 205 x 101
Wheels (x=driven wheels)	Number power unit side/load side		1x, 4/1	1x, 4/1	1x, 4/1
Track width	Power unit size	mm	800	800	800
Dimensions					
Tilt: Fork carriage	Forward/backward	°	3/4	3/4	3/4
Mast	Collapsed height	mm	See table 1	See table 5	See table 9
Free lift		mm	See table 1	See table 5	See table 9
Lift height		mm	See table 1	See table 5	See table 9
Extended mast height		mm	See table 1	See table 5	See table 9
Overhead guard height	Overhead guard (cabin)	mm	See table 1	See table 5	See table 9
Outrigger height	Std. wheel ⌀102 /⌀127/ ⌀152	mm	125	125	125
Headlength		mm	See table 2	See table 6	See table 10
Width overall	Power unit side	mm	1080	1080	1080
Fork dimensions	Standard / optional lengths	mm	40 x 100 x 1070	40 x 100 x 1070	40 x 120 x 1070
Fork carriage	DIN 15173 class/form A, B		2A	2A	2A
Fork carriage width	Incl. load backrest	mm	820	820	820
Width across forks	With sideshifter / W.o. sideshifter	mm	200-760	200-760	240-760
Inside straddle	In 25mm increments	mm	1050/1270	1050/1270	1050/1270
Reach	With sideshifter / W.o. sideshifter	mm	1060	570	570
Ground clearance	Centre wheelbase	mm	50	50	50
Working aisle width	1000 x 1200 crosswise	mm	See table2	See table 6	See table 10
Working aisle width	800 x 1200 lengthwise	mm	See table 2	See table 6	See table 10
Turning radius		mm	See table 2	See table 6	See table 10
Length over outriggers		mm	See table 2	See table 6	See table 6
Width outrigger		mm	See table 2	1295	1295
Performance Data					
Travel speed - standard		km/h	9/9.5	9/9.5	9/9.5
Lift speed	w./w.o. load	m/s	0.35/0.50	0.35/0.50	0.35/0.50
Lower speed	w./w.o. load	m/s	0.50/0.50	0.50/0.50	0.50/0.50
Reach speed	w./w.o. load	m/s	0.15/0.15	0.15/0.15	0.15/0.15
Max. gradeability	w. load	%	5	5	5
Brakes	Service - applied / released		Electric	Electric	Electric
	Parking		Electric	Electric	Electric
Motors					
Traction motor	(60 min. rating)	kW	5.5	5.5	5.5
Lift motors	(15% on time)	kW	11	11	11
Max. battery size	DIN 43531/35/36 A, B, C, no	kW	See table 2	See table 6	See table 18
Lead-acid battery voltage	Nominal capacity 5h	L x W x H (mm)	See table 2	See table 6	See table 18
Lithium battery voltage	Nominal capacity 2h	V/Ah	See table 2	See table 6	See table 18
Battery weight	Minimum	kg	See table 2	See table 6	See table 18
Battery selection number	A, B, C, D, E	Amp	See table 3	See table 7	See table 11
Other					
Type of drive control			AC	AC	AC

RT15DP Double Reach

RT15DP Spec (Table 1) — No. 2024.4.2

Type		**DP4500**	**DP4920**	**DP6500**	**DP7500**	**DP8500**	**DP9500**	**DP10500**	**DP11000**	**DP11500**
Mast	mm	2260	2415	2940	3274	3606	3940	4274	4720	4887
Free lift	mm	1340	1495	2020	2354	2686	3020	3354	3800	3967
Lift height	mm	4500	4920	6500	7500	8500	9500	10500	11000	11500
Mast	mm	5587	6007	7587	8587	9587	10587	11587	12087	12587
Height	mm	2260	2415	2415	2415	2415	2415	2415	2415	2415

RT15DP Spec (Table 2)

Type		**B**	**C**	**D**	**E**
Load distance	mm	213/847	213/847	213/847	213/847
Wheel base	mm	1550	1550	1600	1650
Headlength	mm	1590	1590	1640	1690
Working aisle width 1000 x 1200 traverse	mm	3015	3015	3065	3115
Working aisle width 800 x 1200 length	mm	3090	3090	3140	3190
Turning radius	mm	1825	1825	1875	1925
Length over outriggers	mm	1985	1985	2035	2085
Max. battery size	mm	360 x 980 x 785	410 x 980 x 785	457 x 980 x 785	500 x 980 x 785
Lead-acid battery voltage	V/Ah	36V/600AH	36V/700AH	36V/800AH	36V/900AH
Lithium battery voltage	V/Ah	36V/560AH	36V/560AH	36V/560AH	36V/560AH
Battery weight	kg	780	900	1025	1140

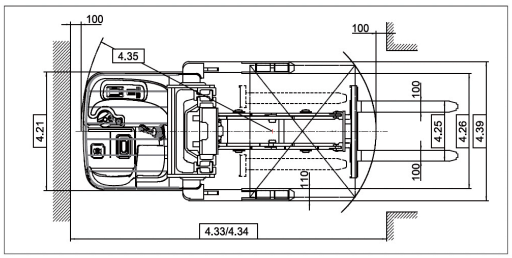
Type		**DP4500**	**DP4920**	**DP6500**	**DP7500**	**DP8500**	**DP9500**	**DP10500**	**DP11000**	**DP11500**
Width outrigger	mm	1295	1295	1295	1295	1295	1295	1295	1455	1455

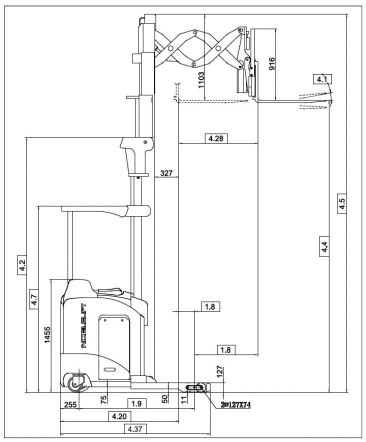
RT15DP Battery Options (Table 3)

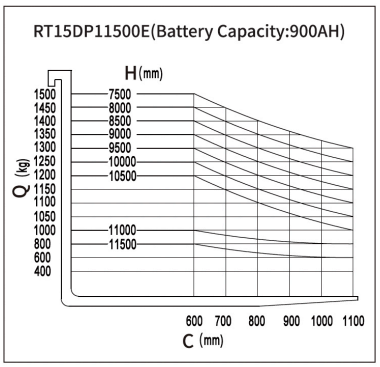
	Mast Model			**DP4500**	**DP4920**	**DP6500**	**DP7500**	**DP8500**	**DP9500**	**DP11000**	**DP11500**	**DP11500**
RT15DP	Battery Pack Model Height	B	Truck Model	RT15DP4500B	RT15DP4920B	RT15DP6500B	n/a	n/a	n/a	n/a	n/a	n/a
		C		RT15DP4500C	RT15DP4920C	RT15DP6500C	RT15DP7500C	n/a	n/a	n/a	n/a	n/a
		D		RT15DP4500D	RT15DP4920D	RT15DP6500D	RT15DP7500D	RT15DP8500D	n/a	n/a	n/a	n/a
		E		RT15DP4500E	RT15DP4920E	RT15DP6500E	RT15DP7500E	RT15DP8500E	RT15DP9500E	RT15DP10500E	RT15DP10500E	RT-15DP10500E

RT15DP Truck Weight (Table 4)

	Mast Model			**DP4500**	**DP4920**	**DP6500**	**DP7500**	**DP8500**	**DP9500**	**DP11000**	**DP11500**	**DP11500**
RT15DP	Battery Pack Model	B	Truck Weight (kg)	3994	4050	4240	n/a	n/a	n/a	n/a	n/a	n/a
		C		4114	4170	4360	4480	n/a	n/a	n/a	n/a	n/a
		D		4249	4305	4495	4615	4735	n/a	n/a	n/a	n/a
		E		4374	4430	4620	4740	4860	4980	5100	5100	5300







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RT15SP Single Reach

RT15SP Spec (Table 5) — No. 2024.4.2

Type		15SP4500	15SP4920	15SP6500	15SP7500	15SP8500	15SP9500	15SP10500
Mast	mm	2260	2415	2940	3274	3606	3940	4274
Free lift	mm	1340	1495	2020	2354	2686	3020	3354
Lift height	mm	4500	4920	6500	7500	8500	9500	10500
Mast	mm	5587	6007	7587	8587	9587	10587	11587
Height	mm	2260	2415	2415	2415	2415	2415	2415

RT15SP Spec (Table 6)

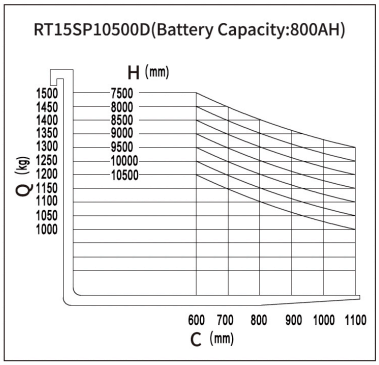
Type		B	C	D	E
Wheel base	mm	1550	1550	1600	1650
Headlength	mm	1500	1500	1550	1600
Working aisle width 1000 x 1200 traverse	mm	2945	2945	2995	3045
Working aisle width 800 x 1200 length	mm	3005	3005	3055	3105
Turning radius	mm	1825	1825	1875	1925
Length over outriggers	mm	1985	1985	2035	2085
Max. battery size	mm	360 x 980 x 785	410 x 980 x 785	457 x 980 x 785	500 x 980 x 785
Battery voltage	V/Ah	36V/600AH	36V/700AH	36V/800AH	36V/900AH
Battery weight	kg	780	900	1025	1140

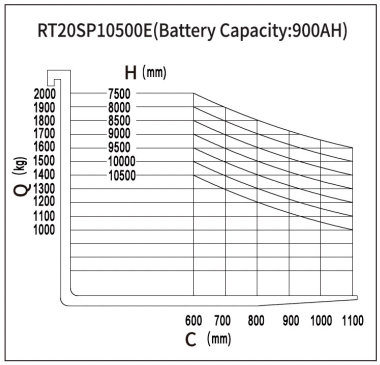
RT15SP Battery Options (Table 7)

	Mast Model			15SP4500	15SP4920	15SP6500	15SP7500	15SP8500	15SP9500	15SP10500
RT15SP	Battery Pack Model Height	B	Truck Model	RT15DP4500B	RT15DP4920B	RT15DP6500B	RT15DP7500B	RT15DP8500B	n/a	n/a
		C		RT15DP4500C	RT15DP4920C	RT15DP6500C	RT15DP7500C	RT15DP8500C	RT15DP9500C	n/a
		D		RT15DP4500D	RT15DP4920D	RT15DP6500D	RT15DP7500D	RT15DP8500D	RT15DP9500D	RT15DP10500D
		E		RT15DP4500E	RT15DP4920E	RT15DP6500E	RT15DP7500E	RT15DP8500E	RT15DP9500E	RT15DP10500E

RT15DP Truck Weight (Table 8)

	Mast Model			DP4500	DP4920	DP6500	DP9500	DP11000	DP11500	DP11500
RT15SP	Battery Pack Model	B	Truck Weight (kg)	3550	3590	3750	3850	3950	n/a	n/a
		C		3670	3710	3870	3970	4070	4180	n/a
		D		3800	3840	4000	4100	4200	4300	4400
		E		3920	3960	4120	4220	4320	4420	9965





RT20DP Single Reach

RT20SP Spec (Table 9)								**No. 2024.4.2**
Type		**20SP4500**	**20SP4920**	**20SP6500**	**20SP7500**	**20SP8500**	**20SP9500**	**20SP10500**
Mast	mm	2260	2415	2940	3274	3606	3940	4274
Free lift	mm	1340	1495	2020	2354	2686	3020	3354
Lift height	mm	4500	4920	6500	7500	8500	9500	10500
Mast	mm	5587	6007	7587	8587	9587	10587	11587
Height	mm	2260	2415	2415	2415	2415	2415	2415

RT20SP Spec (Table 10)					
Type		**B**	**C**	**D**	**E**
Wheel base	mm	1550	1550	1600	1650
Headlength	mm	1500	1500	1550	1600
Working aisle width 1000 x 1200 traverse	mm	2945	2945	2995	3045
Working aisle width 800 x 1200 length	mm	3005	3005	3055	3105
Turning radius	mm	1825	1825	1875	1925
Length over outriggers	mm	1985	1985	2035	2085
Max. battery size	mm	360 x 980 x 785	410 x 980 x 785	457 x 980 x 785	500 x 980 x 785
Battery voltage	V/Ah	36V/600AH	36V/700AH	36V/800AH	36V/900AH
Battery weight	kg	780	900	1025	1140

RT20SP Battery Options (Table 7)									
RT20SP	**Mast Model**			**20SP4500**	**20SP4920**	**20SP6500**	**20SP7500**	**20SP8500**	**20SP9500**	**20SP10500**
	Battery Pack Model Height	B	Truck Model	RT15DP4500B	RT15DP4920B	RT15DP6500B	RT15DP7500B	RT15DP8500B	n/a	n/a
		C		RT15DP4500C	RT15DP4920C	RT15DP6500C	RT15DP7500C	RT15DP8500C	n/a	n/a
		D		RT15DP4500D	RT15DP4920D	RT15DP6500D	RT15DP7500D	RT15DP8500D	RT15DP9500D	n/a
		E		RT15DP4500E	RT15DP4920E	RT15DP6500E	RT15DP7500E	RT15DP8500E	RT15DP9500E	RT15DP10500E

RT20DP Truck Weight (Table 4)									
RT20SP	**Mast Model**			**20SP4500**	**20SP4920**	**20SP6500**	**20SP7500**	**20SP8500**	**20SP9500**	**20SP10500**
	Battery Pack Model	B	Truck Weight (kg)	3894	3950	4140	4260	n/a	n/a	n/a
		C		4014	4070	4260	4380	4500	n/a	n/a
		D		4149	4205	4395	4515	4635	4755	n/a
		E		4274	4330	4520	4640	4760	4880	5000

RT15DP (Double Reach)
Fork reaching distance: **1060mm**

RT15/20SP (Single Reach)
Fork reaching distance: **570mm**



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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
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.