



ELECTRIC LIFT TRUCK ORDER PICKERS

RB10-15, RBC7-10



ORDER PICKER, RB and RBC Series

Work Efficiency and Safer Operation

We've introduced several new functions that satisfy both of these contradictory needs.

Greatly extended operating cycle
Lift lowering regeneration

Smoother, more powerful operation
Innovative SICOS AC Control for traveling & hydraulic operation

Enhanced safety
Equipped with a digital load indicator as standard equipment.

Extended picking range
Reel-type safety belt

Prevention of unintentional pallet loss
Auto pre-stop function



Enhanced operability ensures significantly increased efficiency.

Incorporating the SICOS AC multifunctional integrated control system.

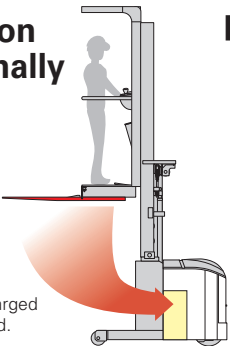


Nichiyu has adopted advanced AC motors for travel and material handling. What's more, we've ensured quiet operation by eliminating the sound of the control chopper. In addition, contact with motor brushes has been eliminated, significantly reducing maintenance costs.

■ Dramatically increased operability

■ Lift lowering regeneration contributes to exceptionally efficient operation.

NEW

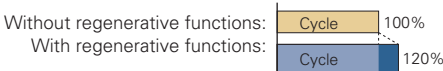


* According to Nichiyu's tests

The battery is recharged as the lift is lowered.

■ An industry-leading regenerative function

Regenerative functions extend the operating cycle by up to 20%.



Model RB10-70-300, with a battery capacity of 48V201H/5HR (75% electrical discharge)
Testing conforms to JIVAS (Japan Industrial Vehicles Association Standard) F30.

- Lift lowering
- Braking
- Coasting
- Plugging
- Speed suppression on downslope
- Speed suppression on turning

A wide array of 10 models across a diverse picking site

All models are available with a choice of two types of driver's compartments.

The drive-front type is optimal for efficient picking operations.

D-type



The fork-front type ensures easier stacking operations with the same ease as the Platter model.

F-Type



	RBC Series			RB Series	
Load	0.7 t	0.9 t	1 t	1 t	1.5 t
Drive-front type	 RBC7D-70	 RBC9D-70	 RBC10D-70	 RB10D-70	 RB15D-70
Fork-front type	 RBC7F-70	 RBC9F-70	 RBC10F-70	 RB10F-70	 RB15F-70

For Safer, Simpler, and Easier Operation

Design for safety increases work efficiency.

Innovative functions that contribute to enhanced safety

■ Digital Load Indicator

NEW

The dead weight of the load is displayed on the indicator panel.

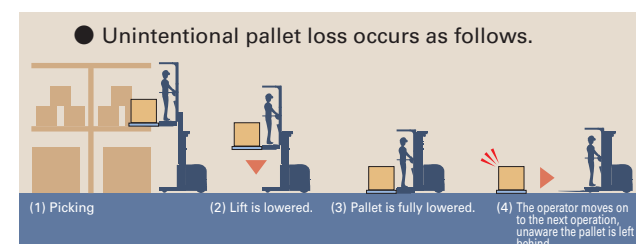


An alarm can be set to sound automatically when an overload is detected (optional).

■ Auto Pre-stop



This feature temporarily stops the pallet before it lands even when the operator holds down the lowering button. This prevents unintentional pallet loss. (The pallet is fully lowered when the lowering button is pressed a second time.)



■ Reel-type Safety Belt

NEW



The reel-type safety belt extends the work range without creating unnecessary slack. If sudden tension is detected, the safety feature locks to prevent further extension of the safety belt.

■ Auto Pallet Lock

The electric pallet lock automatically locks the pallet with a lock bar when the pallet is raised more than 300 mm.



Auto Pallet Lock activated



Auto Pallet Lock released

■ Significantly Reinforced Mast

The enhanced rigidity of the mast and body greatly reduce mast shaking compared to conventional models. This ensures stability and greater peace of mind during operation.

Assured Safety and Enhanced Protection

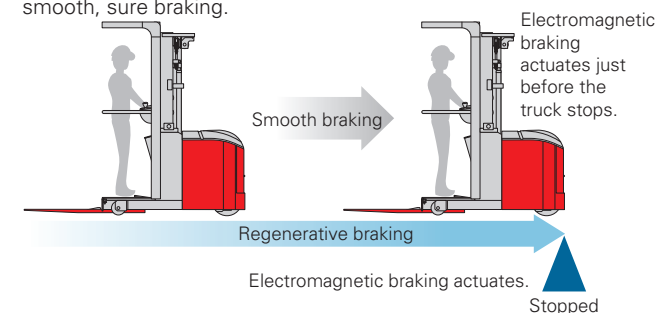
■ Extensive Interlock Functions

- Safety guard is not in place. → • Travel and lift lock activated.
- Top cover is closed. → • Charging lock activated.
- Truck is being charged. → • Travel and lift lock activated.
- Forks are sitting on rack (or chain is slack). → • Travel and lift lowering lock* activated.

*Except RB Series

■ Smooth Assured Braking System

Electromagnetic braking followed by regenerative braking ensures smooth, sure braking.



■ Safety Cruise with Anti-roll back Function

When the forklift truck is temporarily stopped on a slope, the operator can easily restart because the forklift reverses at the extremely slow speed of 1 km/h, even if the brake is released with the accelerator off.



■ Auto Speed Control

■ Travel speed suppression for higher lifts

Smooth deceleration is activated at lifting heights of 0.5 m and up. Furthermore, when a certain lifting height is exceeded, traveling is stopped.

■ Lift speed suppression and travel speed suppression on turning

The lift speed is smoothly reduced as the speed of the forklift increases. Also, the traveling speed is smoothly reduced as the steering angle becomes tighter.

■ Neutral Safety Feature

The neutral safety function prevents unintended operation even if the key switch is accidentally turned ON when the accelerator/lift button is activated.

■ Auto Power-Off

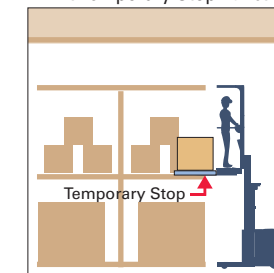
To prevent wasteful power consumption, power is automatically shut off when the forklift is left idle for 15 minutes with the key switch accidentally left ON. This ensures peace of mind before a holiday period.



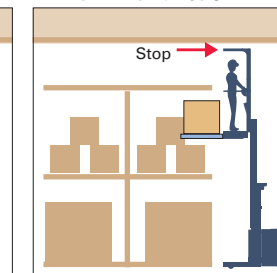
■ Emergency Lowering Device

In case of emergency, the driver compartment can be controlled from the ground. To lower the lift, simply operate the valve on the main unit.

■ Lift Temporary Stop Function



■ Lift Limit Function



Note: Contact a Nichiyu Service Technician to set the lift stop position.

■ Control Panel



Equipment

Series		RBC			RB
Model		RBC7D(F) -70	RBC9D(F) -70	RBC10D(F) -70	RB10D(F) -70
Control	SICOS-AC Control	○	○	○	○
	Lift lowering	○	○	○	○
	Braking	○	○	○	○
Regenerative Functions	Coasting	○	○	○	○
	Speed suppression on turning	○	○	○	○
	Plugging	○	○	○	○
Multifunctional Display	Speed suppression on downslope	○	○	○	○
	Speed-meter	○	○	○	○
	Odometer	○	○	○	○
Lift Functions	Mode setting*	○	○	○	○
	Multi-hour meter	○	○	○	○
	Battery discharge indicator	○	○	○	○
Safety Functions & Devices	Lift height indicator	○	○	○	○
	Load indicator	○	○	○	○
	Clock	○	○	○	○
Accessories	Wheel indicator	○	○	○	○
	Safety monitor	○	○	○	○
	Self-diagnostics	○	○	○	○
Battery	Charge time extension for low temperature	○	○	○	○
	Supplemental thermal charge	○	○	○	○
	Reset for power cutting	○	○	○	○
Options	Rapid recharge	△	△	△	△
	Lift limit (one stage)	○	○	○	○
	Lift limit (two stages)	△	△	△	△
Safety Functions & Devices	Temporary lift stop (one stage)	○	○	○	○
	Shock absorption	○	○	○	○
	Soft landing mechanism	○	○	○	○
Accessories	Auto pallet lock	○	○	○	○
	Charging / Top cover	○	○	○	○
	Operation / Charging	○	○	○	○
Battery	Operation / Safety guard	○	○	○	○
	Neutral safety	○	○	○	○
	Auto pre-stop	○	○	○	○
Options	Safety cruise	○	○	○	○
	Overload alarm buzzer	△	△	△	△
	Lowering warning chime	△	△	△	△
Accessories	Turn warning chime	△	△	△	△
	Center guard (D-type** only)	△	△	△	△
	Corner post (D-type** only)	△	△	△	△
Battery	Turn signal lamp	○	○	○	○
	Headlight	△	△	△	△
	Backup alarm	△	△	△	△
Options	Transparent binder	△	△	△	△
	Large storage box	○	○	○	○
	Accessory case	△	△	△	△
Accessories	Fan	△	△	△	△
	Head guard sheet	△	△	△	△
Battery	5-hour operating capacity	24 V			48 V
	250Ah/5HR	○			
	390Ah/5HR	△	○	○	
Options	445Ah/5HR	△	△	△	
	201Ah/5HR				○
	210Ah/5HR				○
Accessories	240Ah/5HR				△
	280Ah/5HR				△

○---Standard equipment △---Optional

* The E, N and P stages and turtle mode can be set in seven increments of 1 km/h from 2 km/h to 8 km/h.

** D-type: Drive-front type

Note: Specifications and equipment are subject to change without notice.

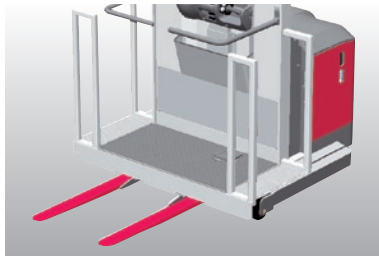
Options

Guide Rollers



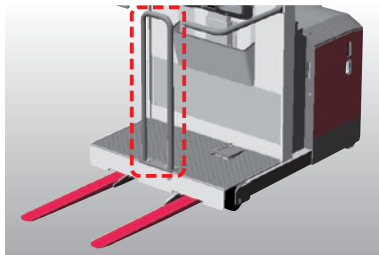
This option facilitates maneuvering in aisles between racks, allowing the operator to concentrate on picking work.

Wide Straddle Arm & Wide Step



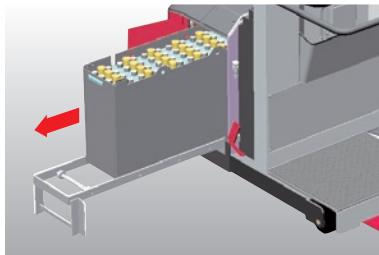
For easier picking of elongated loads and the like, you can choose a specification that extends the floor step and straddle arm width according to the shape of the load (Drive-front type only).

Center Guard



This guard enables the operator to more easily maintain the optimal operating position. It also prevents the load from approaching the driver's compartment (Drive-front type only).

Battery side loading



This option increases the efficiency of battery maintenance and battery replacement. (RB series only) (Replacement batteries require a battery carrier, sold separately.)

Special Specifications

Cold storage applications : RB & RBC series

For picking work inside and outside of -35°C-class freezers

Practical right angle stacking aisle width*

Pallet length x width	1100 x 1100	1000 x 1200	900 x 1100	800 x 1100	1100 x 1400
Model					
RBC7D (F) -70	2730	2800	2690	2470	2800
RBC9D (F) -70	2730	2800	2690	2470	2800
RBC10D (F) -70	2760	2830	2720	2490	2830
RB10D (F) -70	2970	3040	2930	2700	3040
RB15D (F) -70	3070	3140	3030	2800	3140

mm

Practical right angle turning aisle width*

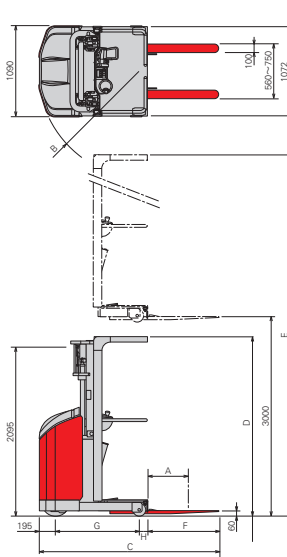
Pallet length x width	1100 x 1100	1000 x 1200	900 x 1100	800 x 1100	1100 x 1400
Model					
RBC7D (F) -70	1790	1800	1740	1690	1990
RBC9D (F) -70	1790	1800	1740	1690	1990
RBC10D (F) -70	1790	1810	1740	1700	1990
RB10D (F) -70	1850	1860	1810	1780	2030
RB15D (F) -70	1890	1900	1850	1830	2050

mm

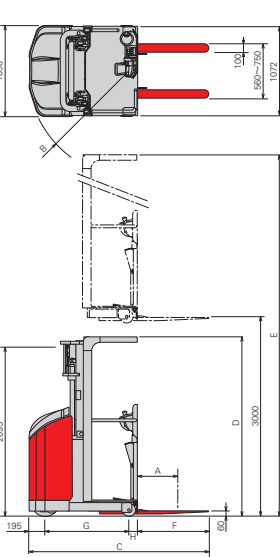
* Includes 200 mm clearance.

Standard Specifications

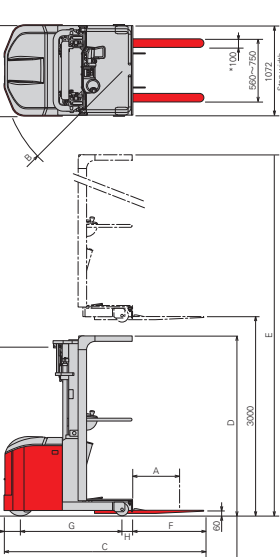
RBC7D/9D/10D-70



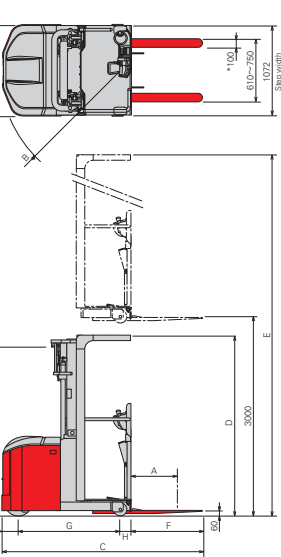
RBC7F/9F/10F-70



RB10D/15D-70

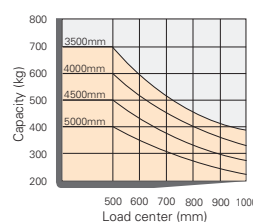


RB10F/15F-70

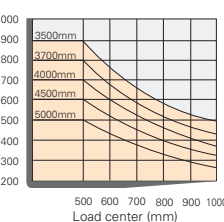


*RB15D (F) : 122

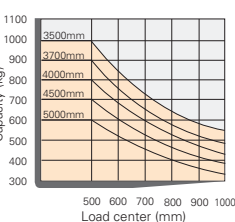
RBC7D (F) -70



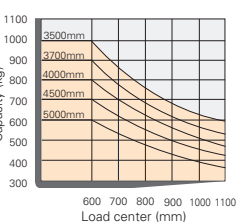
RBC9D (F) -70



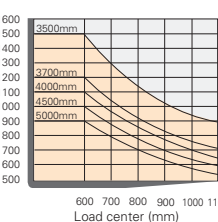
RBC10D (F) -70



RB10D (F) -70



RB15D (F) -70



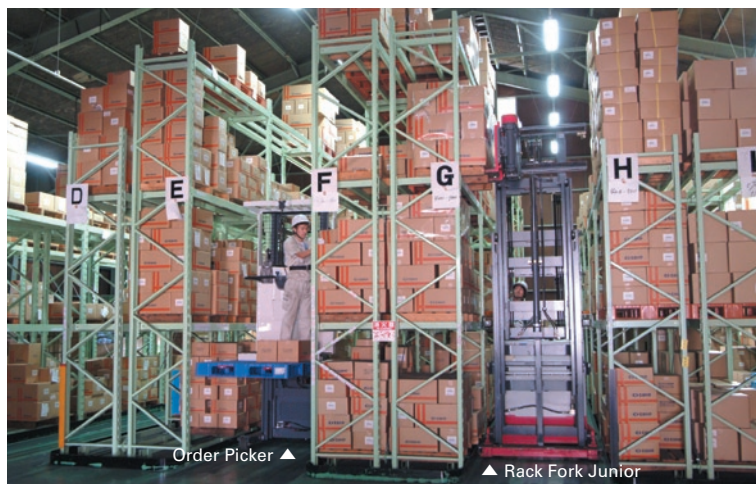
Model		RBC7D (F) -70	RBC9D (F) -70	RBC10D (F) -70	RB10D (F) -70	RB15D (F) -70
Performance	Capacity	kg	700	900	1000	1500
	Load center	A	mm	500	600	600
	Lifting height	mm	3000	3000	3000	3000
	Travel speed	km/h	8.5	8.0	8.0	7.5
	Laden	km/h		9.0	9.0	8.0
	Unladen	km/h	240	220	220	200
	Lifting speed	mm/s	330	330	330	320
	Unladen	mm/s	1210	1210	1240	1420
	Minimum turning radius	B	mm	1210	1240	1520
	Overall length	C	mm	2145	2215	2240
Dimensions	Overall width	mm	1096	1096	1104	1104
	Mast lowered	D	mm	2140	2140	2140
	Mast raised	E	mm	5080	5080	5080
	Fork length	F	mm	850	920	920
	Wheelbase	G	mm	1000	1000	1030
	Front overhang	H	mm	100	100	95
	Road clearance	mm	60	60	60	60
	D-type*	kg	1680	1680	1800	1740
	F-type*	kg	1720	1720	1840	1780
	Service weight (w/o batt.)	kg	1680	1680	1800	1740
Tyres	Drive wheel	mm	Urethan ϕ 330 x 145 1pc.			Rubber ϕ 330 x 145 1pc.
	Load wheel	mm	Urethan ϕ 152 x 90 2pcs.			Urethan ϕ 152 x 90 2pcs./Urethan ϕ 152 x 109 2pcs.
Control system	Control system		Inverter / travel & hydraulic Chopper / power steering			
	Traction	kW	2.6	2.6	2.6	2.6
	Hydraulic	kW	6.0	6.0	6.0	8.8
	Power steering	kW	0.25	0.25	0.25	0.3
	Voltage	V	24	24	24	48
Battery	Standard	Ah/5HR	250	390	390	201
	Mass (with case)	kg	240	330	330	340
	Optional	Ah/5HR	390 · 445	445	445	240
	Mass (with case)	kg	330	330	330	390
Charger	Capacity	KVA	1.6	3.4	3.4	3.8
	Automatic stationary charger (3 ϕ 200V)		Automatic stationary charger (3 ϕ 200V)			Automatic stationary charger (3 ϕ 200V)

* D-type: Drive-front type F-type: Fork-front type

Note: Specifications are subject to change without notice in the interests of product improvement.

Combine Nichiyu warehouse equipment to create a highly efficient material-handling space.

Benefit from increased work efficiency and optimal use of space.



Case picking
Pallet handling

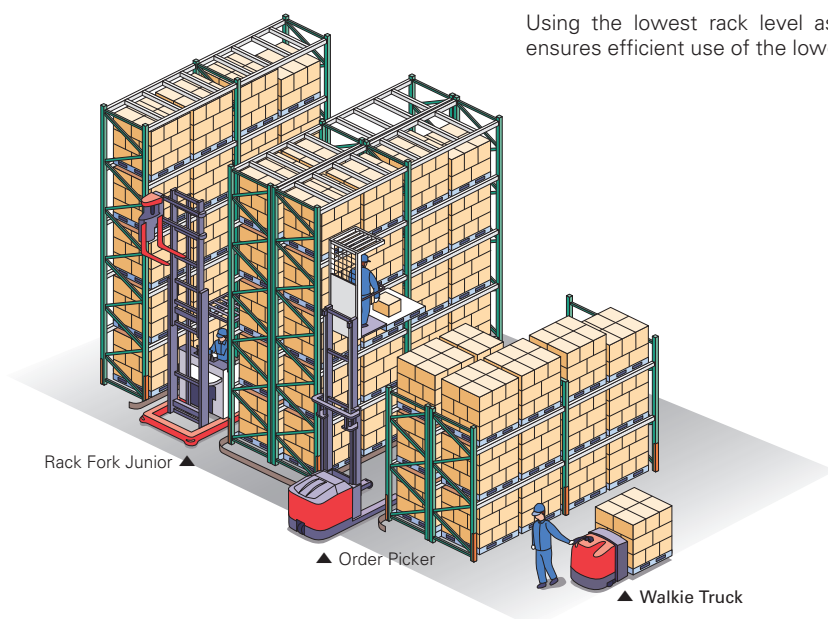
Order Picker
Rack Fork Junior

Approximate aisle width: 1.5 m

Increased storage efficiency
Increased picking efficiency

Use of a Walkie Truck allows for more flexible warehouse operations.

Using the lowest rack level as a picking area with a Walkie Truck ensures efficient use of the lowest rack levels.



Walkie Truck



Rack Fork Junior

All specifications have been determined according to Nichiyu's terms and conditions.
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NICHIYU

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