NICHIYU

ELECTRIC LIFT TRUCK
ORDER PICKERS

RB10-15, RBC7-10

ORDER PICKER, RB and RBC Series

Work Efficiency and

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

Greatly extended operating cycle

Lift lowering regeneration

Extended picking range

Reel-type safety belt

Smoother, more powerful operation

Innovative SICOS AC Control for traveling & hydraulic operation

Prevention of unintentional pallet loss

Auto pre-stop function

Enhanced safety

Equipped with a digital load indicator as standard equipment.

RB Series
With a long wheelbase offering outstanding stability

RBC Series
With a short wheelbase featuring an exceptionally tight turning radius

Safer Operation

Enhanced operability ensures significantly increased efficiency.

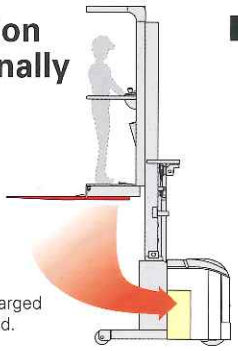
Incorporating the SICOS AC multifunctional integrated control system.

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

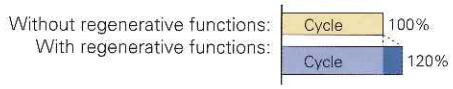


The battery is recharged as the lift is lowered.

* According to Nichiyu's tests

■ 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

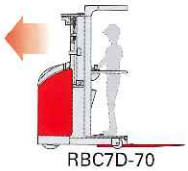
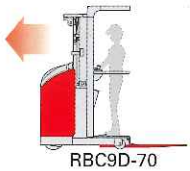
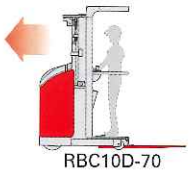
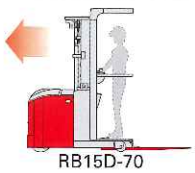
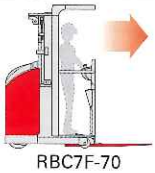
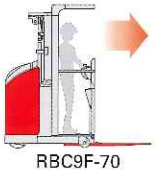
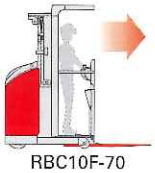
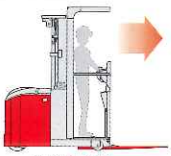
All models are available with a choice of two types of driver's compartments.

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

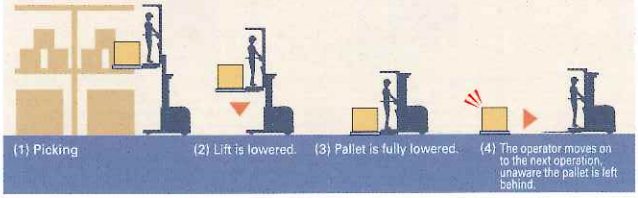
The dead weight of the load is displayed on the indicator panel.

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.)

● Unintentional pallet loss occurs as follows.

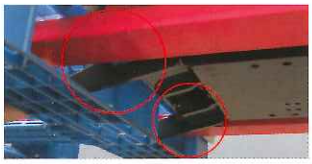


■ Reel-type Safety Belt NEW

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.

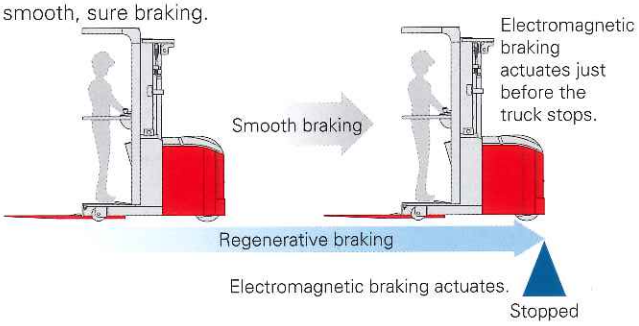
*Except RB Series

■ 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.

■ Smooth Assured Braking System

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



■ 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

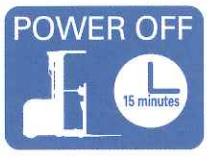
The lift speed is smoothly reduced as the speed of the forklift increases. Also, the traveling speed is smoothly reduced as the steering angle becomes tighter.

■ 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.



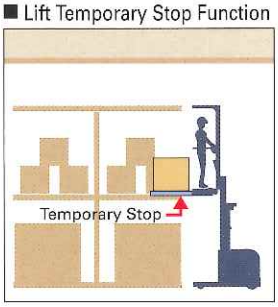
■ Emergency Lowering Device

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.

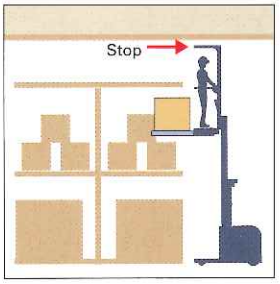
■ Lift Limit & Temporary Lift Stop Functions

You can set lift limit and temporary lift stop at any position (one stage respectively as standard). The shockless function ensures minimal thrust shock when lifting is paused.

■ Lift Temporary Stop Function



■ Lift Limit Function



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

■ Control Panel

Easy-to-see wheel indicator

The turning angle of the drive wheel is clearly indicated on the display panel.

Equipment

Series		RBC			RB	
Model		RBC7D(F) -70	RBC9D(F) -70	RBC10D(F) -70	RB10D(F) -70	RB15D(F) -70
Control	SICOS-AC Control	○	○	○	○	○
Regenerative Functions	Lift lowering	○	○	○	○	○
	Braking	○	○	○	○	○
	Coasting	○	○	○	○	○
	Speed suppression on turning	○	○	○	○	○
	Plugging	○	○	○	○	○
	Speed suppression on downslope	○	○	○	○	○
Multifunctional Display	Speed-meter	○	○	○	○	○
	Odometer	○	○	○	○	○
	Mode setting*	○	○	○	○	○
	Multi-hour meter	○	○	○	○	○
	Battery dischage indicator	○	○	○	○	○
	Lift height indicator	○	○	○	○	○
	Load indicator	○	○	○	○	○
	Clock	○	○	○	○	○
	Wheel indicator	○	○	○	○	○
	Safety monitor	○	○	○	○	○
	Self-diagnostics	○	○	○	○	○
Built-in Charger	Charge time extention for low temperature	○	○	○	○	○
	Supplemental thermal charge	○	○	○	○	○
	Reset for power cutting	○	○	○	○	○
	Rapid recharge	△	△	△	△	△
Lift Functions	Lift limit (one stage)	○	○	○	○	○
	Lift limit (two stages)	△	△	△	△	△
	Temporary lift stop (one stage)	○	○	○	○	○
	Shock absorption	○	○	○	○	○
	Soft landing mechanism	○	○	○	○	○
Safety Functions & Devices	Auto pallet lock	○	○	○	○	○
	Interlock: Charging / Top cover	○	○	○	○	○
	Interlock: Operation / Charging	○	○	○	○	○
	Interlock: Operation / Safety guard	○	○	○	○	○
	Neutral safety	○	○	○	○	○
	Auto pre-stop	○	○	○	○	○
	Safety cruise	○	○	○	○	○
	Overload alarm buzzer	△	△	△	△	△
	Lowering warning chime	△	△	△	△	△
	Turn warning chime	△	△	△	△	△
	Center guard (D-type** only)	△	△	△	△	△
	Corner post (D-type** only)	△	△	△	△	△
Accessories	Turn signal lamp	○	○	○	○	○
	Headlight	△	△	△	△	△
	Backup alarm	△	△	△	△	△
	Transparent binder	△	△	△	△	△
	Large storage box	○	○	○	○	○
	Accessory case	△	△	△	△	△
	Fan	△	△	△	△	△
	Head guard sheet	△	△	△	△	△
Battery	5-hour operating capacity \ Voltage	24 V			48 V	
	250Ah/5HR	○				
	390Ah/5HR	△	○	○		
	445Ah/5HR	△	△	△		
	201Ah/5HR				○	
	210Ah/5HR					○
	240Ah/5HR				△	
	280Ah/5HR					△

○…Standard equipment △…Optional

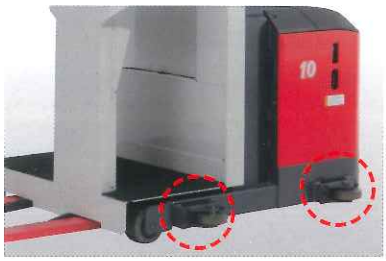
* The E, N and P stages and turtle mode can be set in seven increments of 1 km/h from 2 km/h to 8 km/h.

** D-type: Drive-front type

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

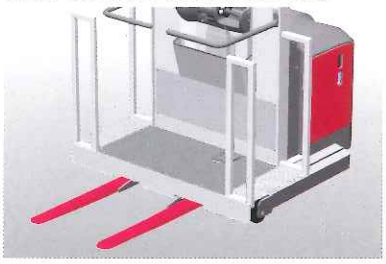
Options

Guide Rollers



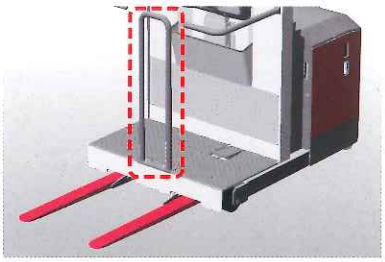
This option facilitates maneuvering in aisles between racks, allowing the operator to concentrate on picking work.

Wide Straddle Arm & Wide Step



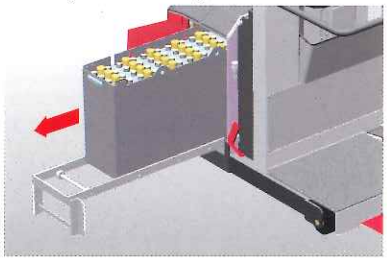
For easier picking of elongated loads and the like, you can choose a specification that extends the floor step and straddle arm width according to the shape of the load (Drive-front type only).

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℃-class freezers

■ Practical right angle stacking aisle width*

Pallet length x width / Model	1100 × 1100	1000 × 1200	900 × 1100	800 × 1100	1100 × 1400
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*

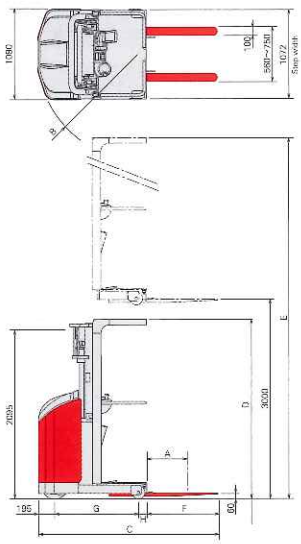
Pallet length x width / Model	1100 × 1100	1000 × 1200	900 × 1100	800 × 1100	1100 × 1400
RBC7D (F) -70	1790	1800	1740	1690	1990
RBC9D (F) -70	1790	1800	1740	1690	1990
RBC10D (F) -70	1790	1810	1740	1700	1990
RB10D (F) -70	1850	1860	1810	1780	2030
RB15D (F) -70	1890	1900	1850	1830	2050

mm

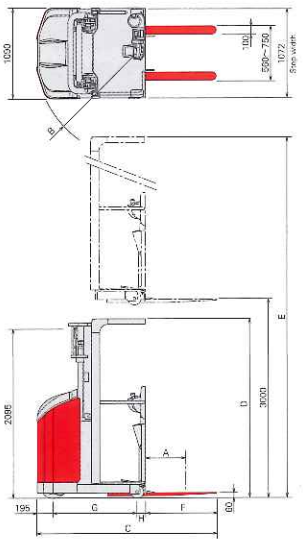
* Includes 200 mm clearance.

Standard Specifications

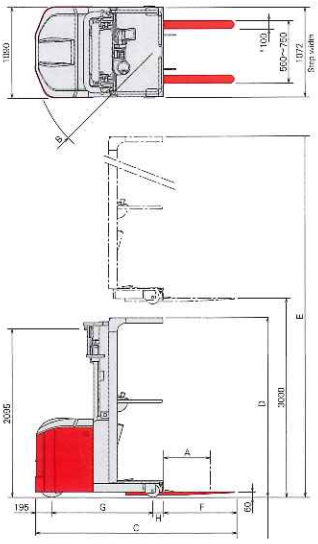
RBC7D/9D/10D-70



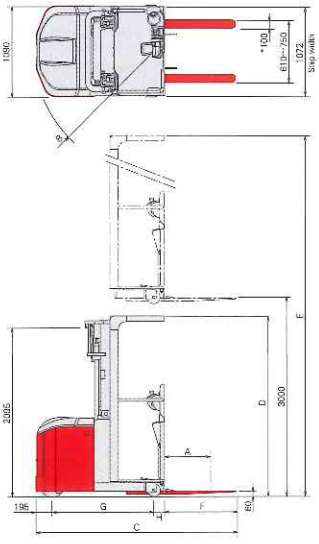
RBC7F/9F/10F-70



RB10D/15D-70

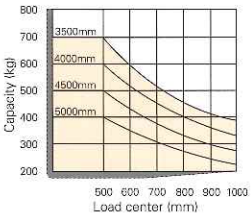


RB10F/15F-70

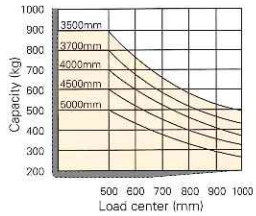


*RB15D (F) : 122

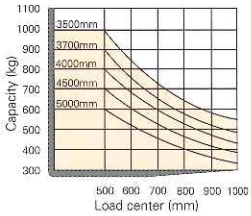
RBC7D (F) -70



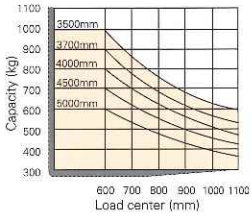
RBC9D (F) -70



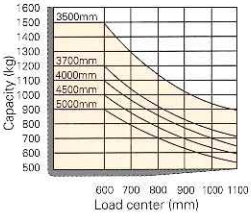
RBC10D (F) -70



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	1000	1500
	Load center		A	mm	500			600	
	Lifting height			mm	3000			3000	
	Travel speed (with 0.5 m max. lift height)	Laden		km/h	8.5	8.0	8.0	8.0	7.5
		Unladen		km/h	9.0			9.0	8.0
	Lifting speed	Laden		mm/s	240	220	220	220	200
		Unladen		mm/s	330			330	320
	Minimum turning radius		B	mm	1210	1210	1240	1420	1520
Dimensions	Overall length		C	mm	2145	2215	2240	2455	2565
	Overall width			mm	1096			1104	
	Overall height	Mast lowered	D	mm	2140			2140	
		Mast raised	E	mm	5080			5080	
	Fork length		F	mm	850	920	920	920	
	Wheelbase		G	mm	1000	1000	1030	1210	1315
	Front overhang		H	mm	100	100	95	130	
	Road clearance			mm	60			60	
	Service weight (w/o batt.)	D-type*		kg	1680	1680	1800	1740	1890
		F-type*		kg	1720	1720	1840	1780	1930
Tyres	Drive wheel			mm	Urethan ϕ330 × 145 1pc.			Rubber ϕ330 × 145 1pc.	
	Load wheel			mm	Urethan ϕ152 × 90 2pcs.			Urethan ϕ152 × 90 2pcs.	Urethan ϕ152 × 109 2pcs.
Control system					Inverter / travel & hydraulic Chopper / power steering				
Motor	Traction			kW	2.6			2.6	
	Hydraulic			kW	6.0			8.8	
	Power steering			kW	0.25			0.3	
Battery	Voltage			V	24			48	
	Standard			Ah/5HR	250	390	390	201	210
	Mass (with case)			kg	240	330	330	340	410
	Optional			Ah/5HR	390・445	445	445	240	280
	Mass (with case)			kg	330	330	330	390	450
Charger					Automatic stationary charger (3ϕ200V)			Automatic stationary charger (3ϕ200V)	
	Capacity			KVA	1.6	3.4	3.4	3.8	

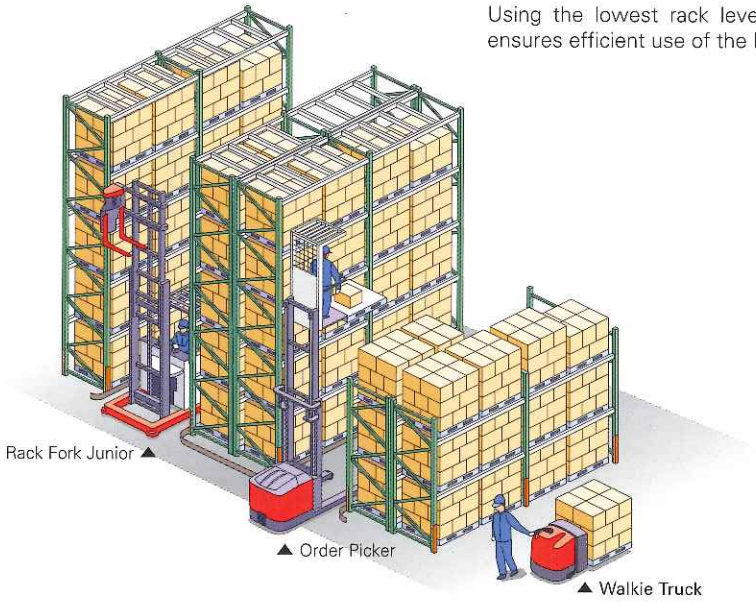
* D-type: Drive-front type F-type: Fork-front type
Note: Specifications are subject to change without notice in the interests of product improvement.

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

Benefit from increased work efficiency and optimal use of space.

Case picking → Order Picker
Pallet handling → 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.
Specifications are subject to change without notice in the interests of product improvement.

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