



## 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.

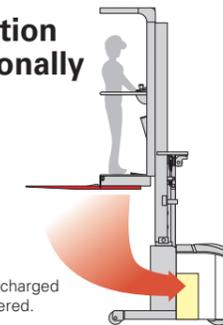


Nichiyu has adopted advanced AC motors for travel and material handling. What's more, we've ensured quiet operation by eliminating the sound of the control chopper. In addition, contact with motor brushes has been eliminated, significantly reducing maintenance costs.

## ■ Dramatically increased operability

■ **Lift lowering regeneration contributes to exceptionally efficient operation.**

**NEW**



\* According to Nichiyu's tests

■ **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					
Fork-front type					

# 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.



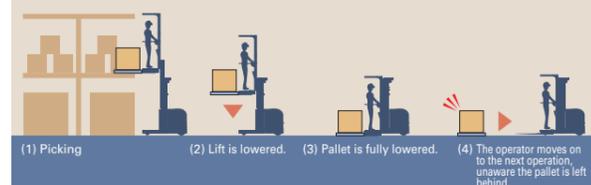
An alarm can be set to sound automatically when an overload is detected (optional).

### 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

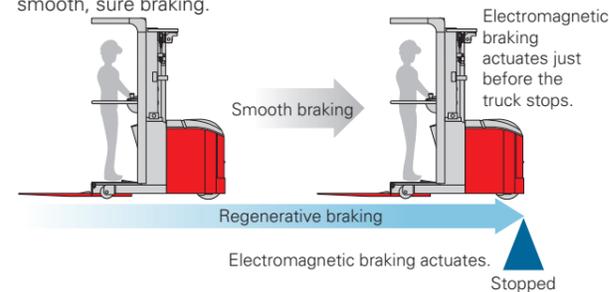
### Extensive Interlock Functions

- 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

### Smooth Assured Braking System

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



### 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.

### Control Panel



Small Diameter Horizontal Electric Power Steering

Height Adjustable Control Panel

Low-fatigue Accelerator Grip with Integrated Raising/Lowering Buttons

Easy-to-see wheel indicator



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

### 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

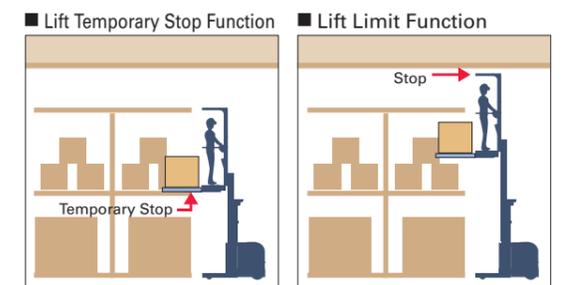
Smooth deceleration is activated at lifting heights of 0.5 m and up. Furthermore, when a certain lifting height is exceeded, traveling is stopped.

#### 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.

### 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.



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

# 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	○	○	○	○	○
Multifunctional Display	Coasting	○	○	○	○	○	
	Speed suppression on turning	○	○	○	○	○	
	Plugging	○	○	○	○	○	
	Speed suppression on downslope	○	○	○	○	○	
	Speed-meter	○	○	○	○	○	
	Odometer	○	○	○	○	○	
	Mode setting*	○	○	○	○	○	
	Multi-hour meter	○	○	○	○	○	
	Battery discharge indicator	○	○	○	○	○	
	Lift height indicator	○	○	○	○	○	
Built-in Charger	Load indicator	○	○	○	○	○	
	Clock	○	○	○	○	○	
	Wheel indicator	○	○	○	○	○	
	Safety monitor	○	○	○	○	○	
	Self-diagnostics	○	○	○	○	○	
	Charge time extension for low temperature	○	○	○	○	○	
	Supplemental thermal charge	○	○	○	○	○	
	Reset for power cutting	○	○	○	○	○	
	Rapid recharge	△	△	△	△	△	
	Lift limit (one stage)	○	○	○	○	○	
Lift Functions	Lift limit (two stages)	△	△	△	△	△	
	Temporary lift stop (one stage)	○	○	○	○	○	
	Shock absorption	○	○	○	○	○	
	Soft landing mechanism	○	○	○	○	○	
	Auto pallet lock	○	○	○	○	○	
	Safety Functions & Devices	Interlock	○	○	○	○	○
		Charging / Top cover	○	○	○	○	○
		Operation / Charging	○	○	○	○	○
		Operation / Safety guard	○	○	○	○	○
		Neutral safety	○	○	○	○	○
Auto pre-stop		○	○	○	○	○	
Safety cruise		○	○	○	○	○	
Overload alarm buzzer		△	△	△	△	△	
Lowering warning chime		△	△	△	△	△	
Turn warning chime		△	△	△	△	△	
Accessories	Center guard (D-type** only)	△	△	△	△	△	
	Corner post (D-type** only)	△	△	△	△	△	
	Turn signal lamp	○	○	○	○	○	
	Headlight	△	△	△	△	△	
	Backup alarm	△	△	△	△	△	
	Transparent binder	△	△	△	△	△	
	Large storage box	○	○	○	○	○	
	Accessory case	△	△	△	△	△	
	Fan	△	△	△	△	△	
	Head guard sheet	△	△	△	△	△	
Battery	5-hour operating capacity	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.

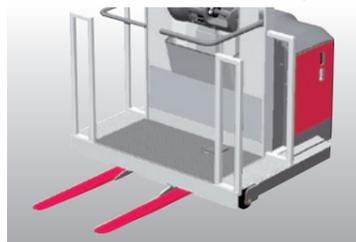
# Options

## Guide Rollers



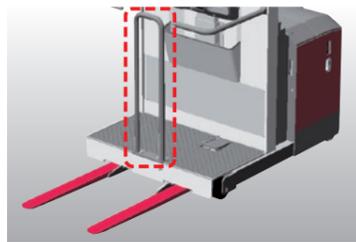
This option facilitates maneuvering in aisles between racks, allowing the operator to concentrate on picking work.

## Wide Straddle Arm & Wide Step



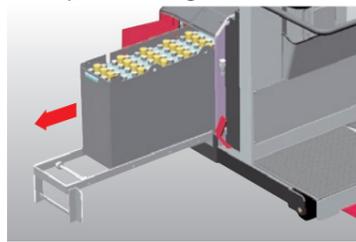
For easier picking of elongated loads and the like, you can choose a specification that extends the floor step and straddle arm width according to the shape of the load (Drive-front type only).

## 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°C-class freezers

### Practical right angle stacking aisle width\*

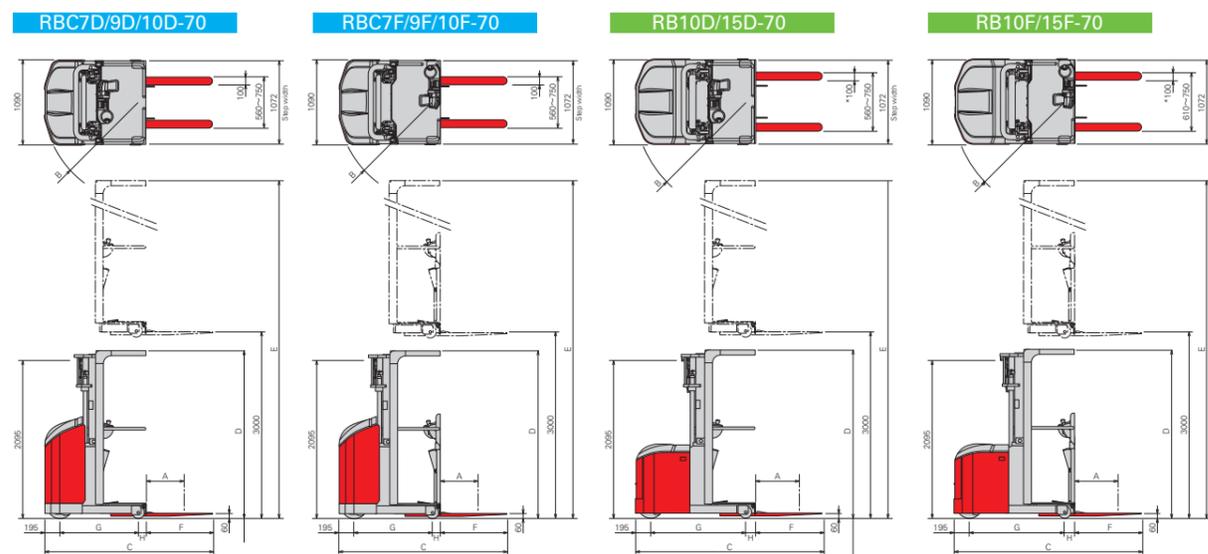
Model	Pallet length x width				
	1100 x 1100	1000 x 1200	900 x 1100	800 x 1100	1100 x 1400
RBC7D (F) -70	2730	2800	2690	2470	2800
RBC9D (F) -70	2730	2800	2690	2470	2800
RBC10D (F) -70	2760	2830	2720	2490	2830
RB10D (F) -70	2970	3040	2930	2700	3040
RB15D (F) -70	3070	3140	3030	2800	3140

### Practical right angle turning aisle width\*

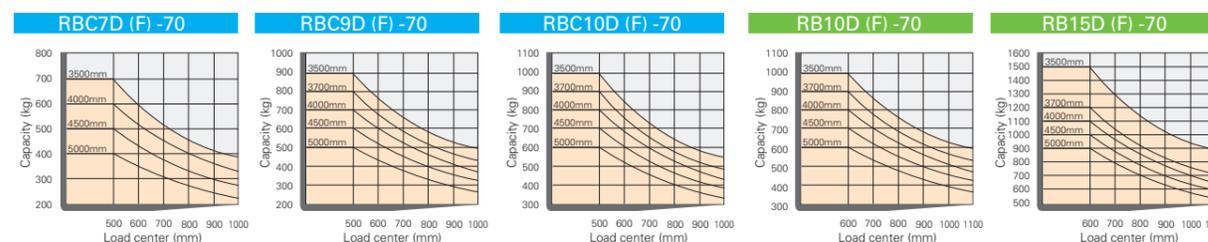
Model	Pallet length x width				
	1100 x 1100	1000 x 1200	900 x 1100	800 x 1100	1100 x 1400
RBC7D (F) -70	1790	1800	1740	1690	1990
RBC9D (F) -70	1790	1800	1740	1690	1990
RBC10D (F) -70	1790	1810	1740	1700	1990
RB10D (F) -70	1850	1860	1810	1780	2030
RB15D (F) -70	1890	1900	1850	1830	2050

\* Includes 200 mm clearance.

# Standard Specifications



\*RB15D (F) : 122



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			600	
	Lifting height	mm					3000
	Travel speed	Laden	km/h	8.5	8.0	8.0	7.5
		Unladen	km/h	9.0			8.0
	Lifting speed	Laden	mm/s	240	220	220	200
		Unladen	mm/s	330			320
	Minimum turning radius	B	mm	1210	1210	1240	1420
	Dimensions	Overall length	C	mm	2145	2215	2240
		Overall width	mm				
Mast lowered			D	mm	2140		
Mast raised		E	mm	5080			
Fork length		F	mm	850	920	920	920
Wheelbase		G	mm	1000	1000	1030	1210
Front overhang		H	mm	100	100	95	130
Road clearance		mm					60
Service weight (w/o batt.)		D-type*	kg	1680	1680	1800	1740
		F-type*	kg	1720	1720	1840	1780
Tyres	Drive wheel	mm	Urethan φ330 x 145 1pc.			Rubber φ330 x 145 1pc.	
	Load wheel	mm	Urethan φ152 x 90 2pcs.			Urethan φ152 x 90 2pcs./Urethan φ152 x 109 2pcs.	
Motor	Control system						
	Traction	kW	Inverter / travel & hydraulic			Chopper / power steering	
	Hydraulic	kW	2.6			2.6	
	Power steering	kW	6.0			8.8	
	Voltage	V	0.25			0.3	
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	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.

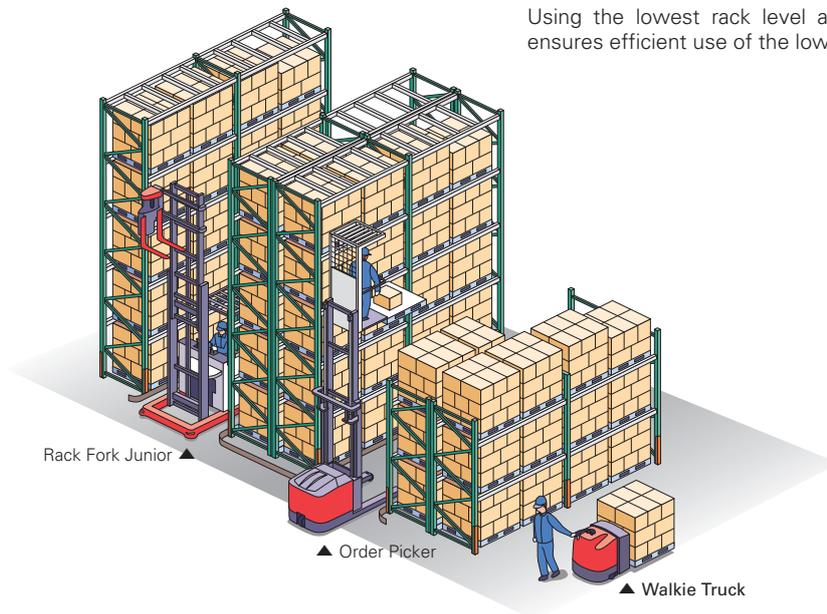
Benefit from increased work efficiency and optimal use of space.



Case picking → Order Picker } Approximate aisle width: 1.5 m → Increased storage efficiency  
 Pallet handling → Rack Fork Junior } 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

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# NICHIYU

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