



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.



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

RB Series
With a long wheelbase offering outstanding stability

Safer Operation

Enhanced operability ensures significantly increased efficiency.

Incorporating the SICOS AC multifunctional integrated control system.

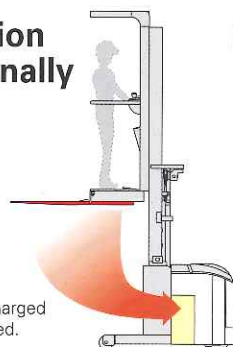


Nichiyu has adopted advanced AC motors for travel and material handling. What's more, we've ensured quiet operation by eliminating the sound of the control chopper. In addition, contact with motor brushes has been eliminated, significantly reducing maintenance costs.

■ Dramatically increased operability

■ Lift lowering regeneration contributes to exceptionally efficient operation.

NEW

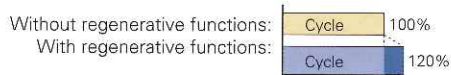


The battery is recharged as the lift is lowered.

* 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.



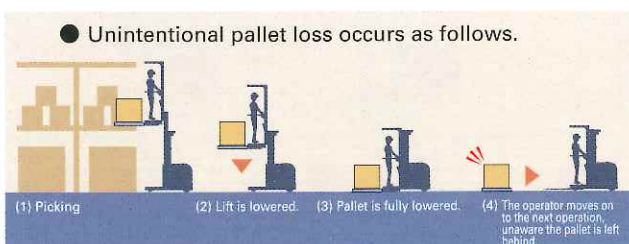
An alarm can be set to sound automatically when an overload is detected (optional).

■ 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

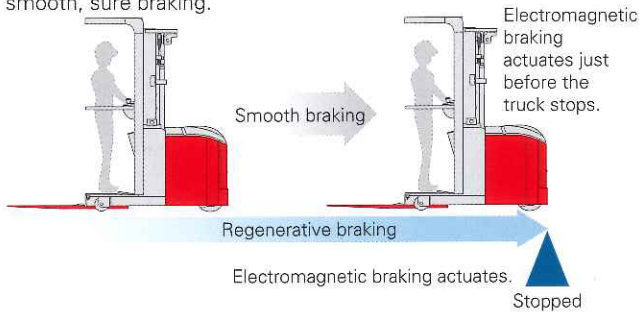
■ Extensive Interlock Functions

- 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

■ Smooth Assured Braking System

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

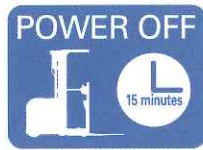


■ Neutral Safety Feature

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.

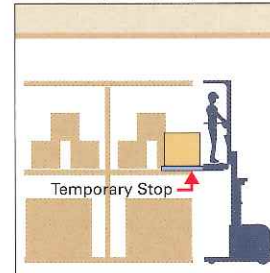
■ Lift speed suppression and travel speed suppression on turning

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.

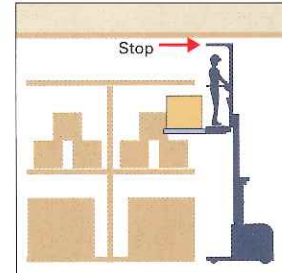
■ Lift Limit & Temporary Lift Stop Functions

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.

■ Lift Temporary Stop Function



■ Lift Limit Function



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 | ○ | ○ | ○ | ○ | ○ | |
| | Coasting | ○ | ○ | ○ | ○ | ○ | |
| | Speed suppression on turning | ○ | ○ | ○ | ○ | ○ | |
| | Plugging | ○ | ○ | ○ | ○ | ○ | |
| | Speed suppression on downslope | ○ | ○ | ○ | ○ | ○ | |
| | Multifunctional Display | Speed-meter | ○ | ○ | ○ | ○ | ○ |
| Odometer | | ○ | ○ | ○ | ○ | ○ | |
| Mode setting* | | ○ | ○ | ○ | ○ | ○ | |
| Multi-hour meter | | ○ | ○ | ○ | ○ | ○ | |
| Battery discharge indicator | | ○ | ○ | ○ | ○ | ○ | |
| Lift height indicator | | ○ | ○ | ○ | ○ | ○ | |
| Load indicator | | ○ | ○ | ○ | ○ | ○ | |
| Clock | | ○ | ○ | ○ | ○ | ○ | |
| Wheel indicator | | ○ | ○ | ○ | ○ | ○ | |
| Safety monitor | | ○ | ○ | ○ | ○ | ○ | |
| Self-diagnostics | | ○ | ○ | ○ | ○ | ○ | |
| Built-in Charger | | Charge time extension 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 | ○ | ○ | ○ | ○ | ○ |
| | | Operation / Charging | ○ | ○ | ○ | ○ | ○ |
| | | 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) | △ | △ | △ | △ | △ | |
| | Turn signal lamp | ○ | ○ | ○ | ○ | ○ | |
| | Headlight | △ | △ | △ | △ | △ | |
| Accessories | Backup alarm | △ | △ | △ | △ | △ | |
| | Transparent binder | △ | △ | △ | △ | △ | |
| | Large storage box | ○ | ○ | ○ | ○ | ○ | |
| | Accessory case | △ | △ | △ | △ | △ | |
| | Fan | △ | △ | △ | △ | △ | |
| | Head guard sheet | △ | △ | △ | △ | △ | |
| | Voltage | | 24 V | | | 48 V | |
| 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

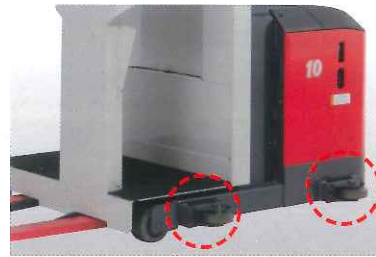
* The E, N and P stages and turtle mode can be set in seven increments of 1 km/h from 2 km/h to 8 km/h.

** D-type: Drive-front type

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

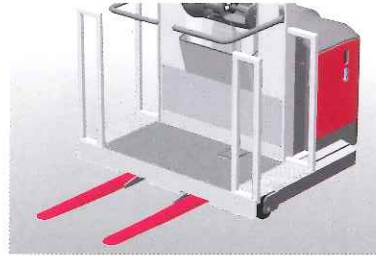
Options

Guide Rollers



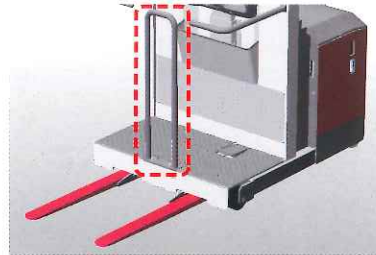
This option facilitates maneuvering in aisles between racks, allowing the operator to concentrate on picking work.

Wide Straddle Arm & Wide Step



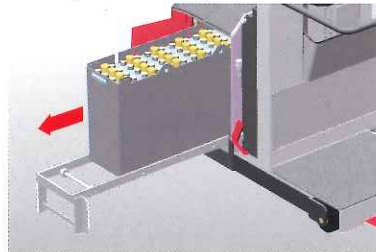
For easier picking of elongated loads and the like, you can choose a specification that extends the floor step and straddle arm width according to the shape of the load (Drive-front type only).

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 |

mm

Practical right angle turning aisle width*

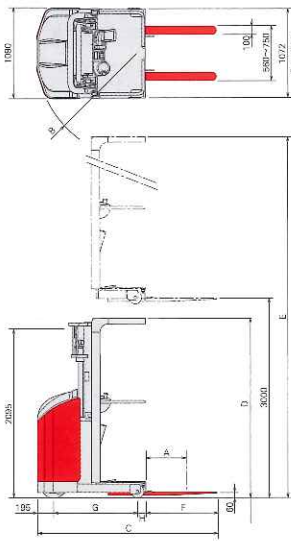
| Model | Pallet length x width | | | | |
|----------------|-----------------------|-------------|------------|------------|-------------|
| | 1100 x 1100 | 1000 x 1200 | 900 x 1100 | 800 x 1100 | 1100 x 1400 |
| RBC7D (F) -70 | 1790 | 1800 | 1740 | 1690 | 1990 |
| RBC9D (F) -70 | 1790 | 1800 | 1740 | 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 |

mm

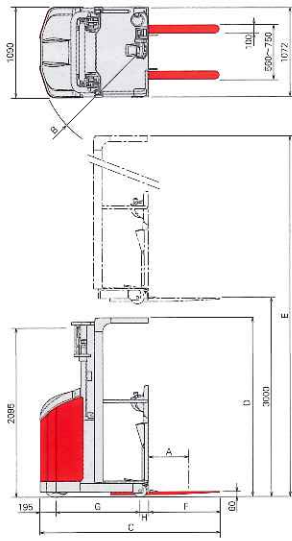
* Includes 200 mm clearance.

Standard Specifications

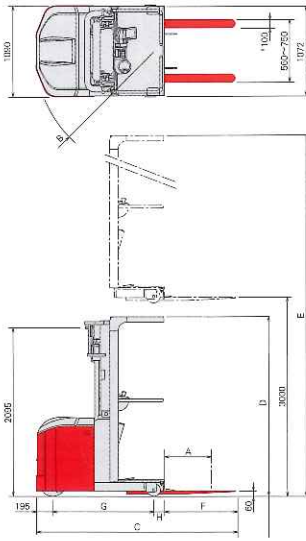
RBC7D/9D/10D-70



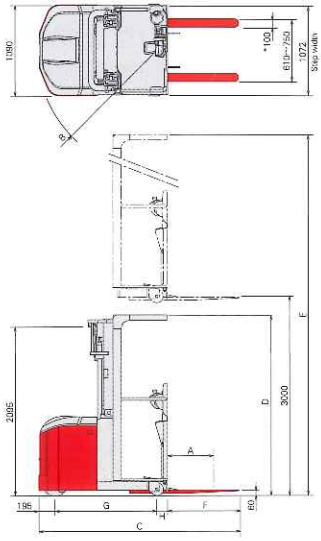
RBC7F/9F/10F-70



RB10D/15D-70

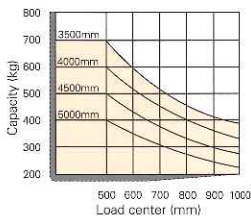


RB10F/15F-70

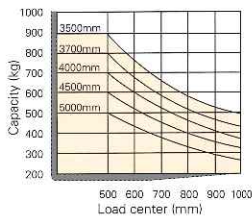


*RB15D (F) : 122

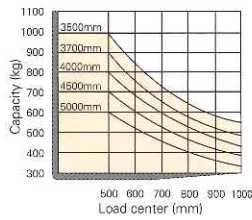
RBC7D (F) -70



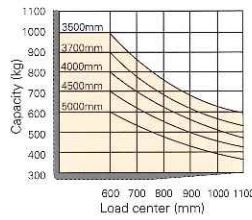
RBC9D (F) -70



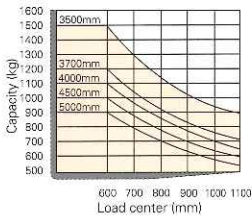
RBC10D (F) -70



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 <small>(with 1.5m max. lift height)</small> | 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 <small>(with battery)</small> | D-type* | kg | 1680 | 1680 | 1800 | 1740 | 1890 |
| | | F-type* | kg | 1720 | 1720 | 1840 | 1780 | 1930 |
| Tyres | Drive wheel | mm | | Urethan $\phi 330 \times 145$ 1pc. | | Rubber $\phi 330 \times 145$ 1pc. | | |
| | Load wheel | mm | | Urethan $\phi 152 \times 90$ 2pcs. | | Urethan $\phi 152 \times 90$ 2pcs. Urethan $\phi 152 \times 109$ 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 (3 ϕ 200V) | | | Automatic stationary charger (3 ϕ 200V) | | |
| | 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
Pallet handling

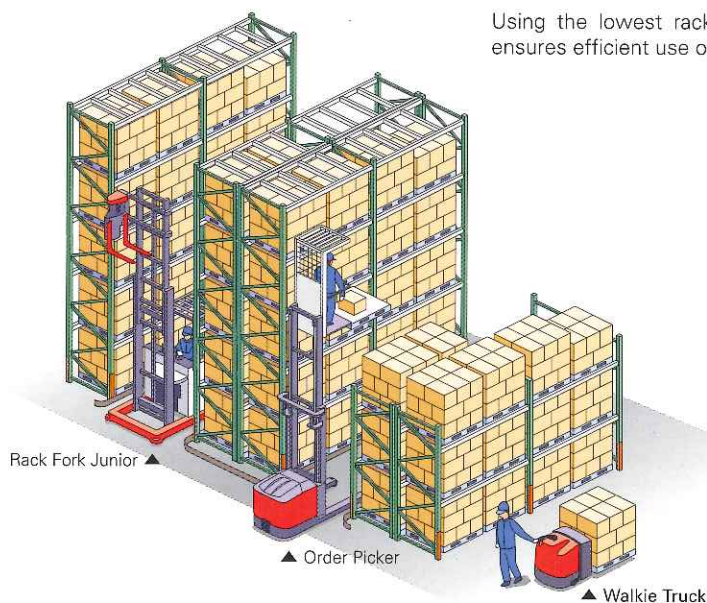
Order Picker
Rack Fork Junior

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

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