

Since 1958



 GOOD DESIGN AWARD 2014  
**BEST 100**

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**ELECTRIC FORKLIFT  
STAND-ON REACH TRUCKS**

**PLATTER**

**SICOS**  
Super-Intelligent Control System

**FBR10-30**



# PLATTER

**SICOS**  
Super Intelligent Control System

## ELECTRIC FORKLIFT STAND-ON REACH TRUCK FBR85 Series

*Superb Handling and Refined Technology of Our Leading-edge Trucks*

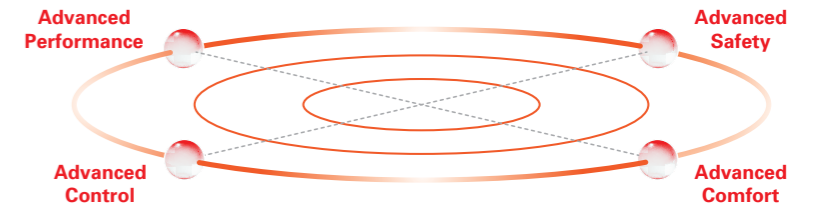
Nichiyu's pioneering expertise in electric forklift trucks has developed the FBR85 Series, the latest of its industry-first generation of top-performing reach trucks. Equipped with the latest innovative technology and features, these trucks promise optimum maneuverability, smooth operability, safety, and comfort within the robust materials handling and logistics environment.

### Revolutionary AC Technology

Leveraging Nichiyu's revolutionary AC (alternating current) technology, the FBR85 Series is primed for superior performance, superior advantage, superior safety, and superior productivity. A multifunctional centralized AC control system ensures:

- Simplified and precise power control
- Increased torque
- Increased motor efficiency
- Multiple driving mode and operational settings
- Energy regeneration and saving

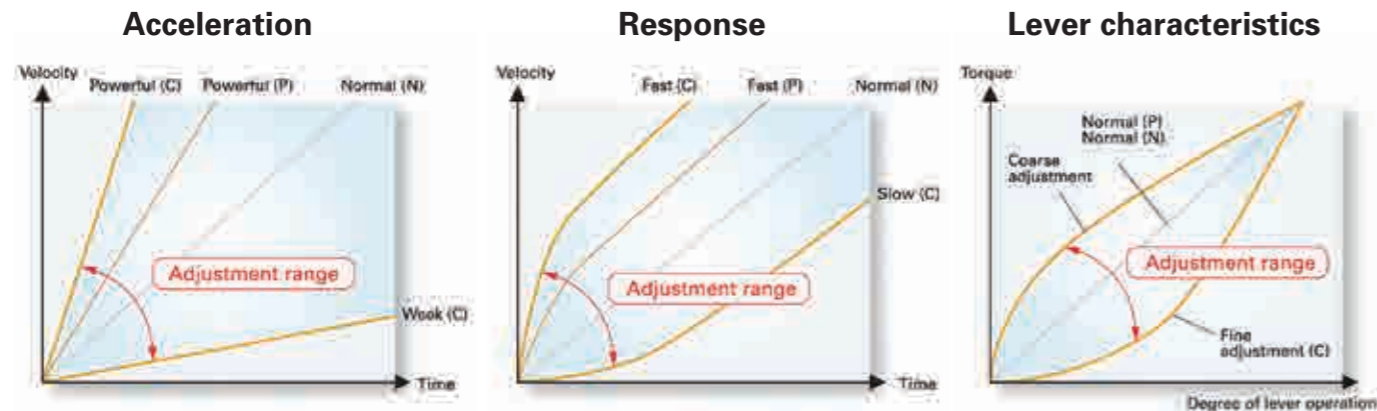
**From DC to AC**  
AC (alternating current) motors have significant advantages over DC (direct current) motors:



# SUPERIOR • PERFORMANCE

### Customized Operability

Sensitive to various loads, speeds and modes, the Platter's versatility centers on customizable operational features. Clear and precise monitors allow the user to refine preferential **Operation Feeling**, including acceleration, lever characteristics and response.



### Increased Energy Efficiency

Improved hydraulics and engineering have enabled an ECO setting that cuts energy consumption by 15% while managing performance. This flexibility allows the Platter to maximize its performance optimally.

# SUPERIOR • ADVANTAGES



## Enhanced Stability

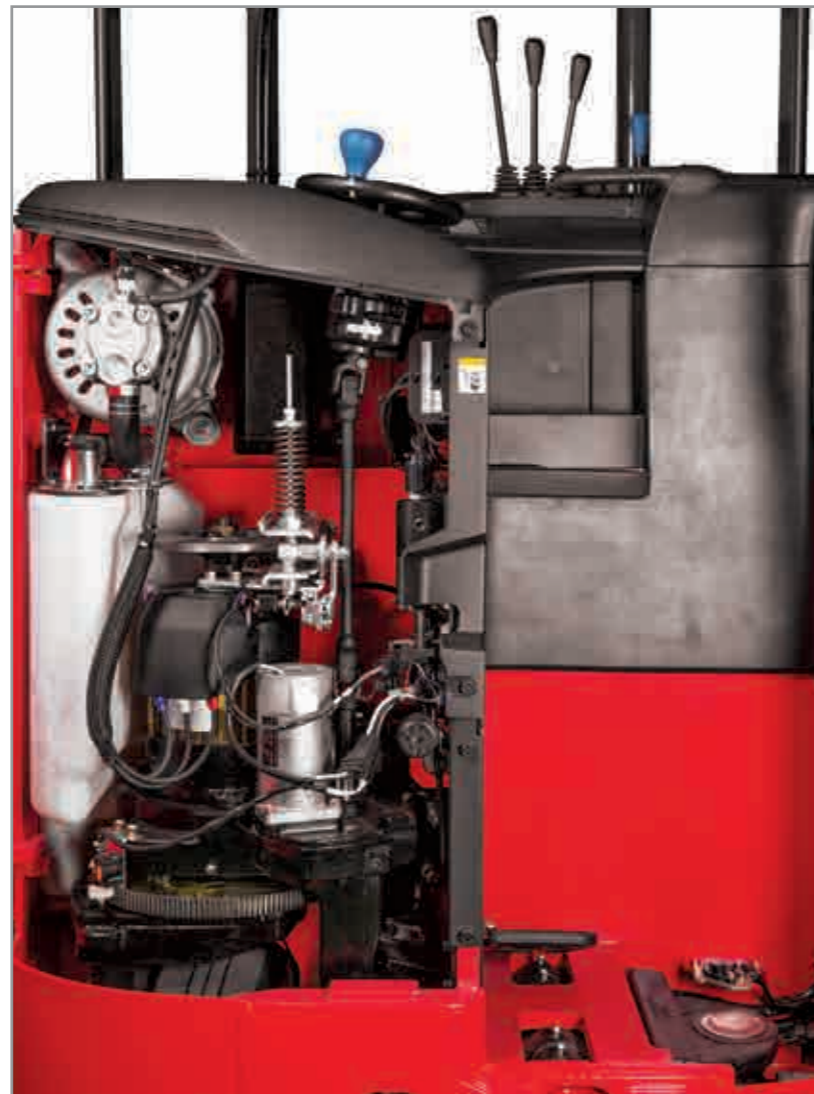
A newly-designed control linkage has substantially enhanced the truck's overall stability. Relocating the swing lock cylinder has improved both horizontal stability and the anti-slip function, allowing the truck to achieve outstanding stability in motion when lifting loads and making turns. An improved swing angle has also reinforced stability, especially when traveling on rough roads.

## Improvement of stability

### Lock Swing Function

The location of the swing lock cylinder is changed to absorb the movement of the control linkage effectively.

- Preventing the left load wheel from rising when starting of turning
- Improvement of horizontal stability
- Improvement of anti-slip function
- Improvement of stability when lifting a load



## Improved Mast Rigidity

Improved mast rigidity underscores one of the Platter's superior advantages. Reinforcements to the outer mast and side plate have led to reduced mast swing, further enhancing stability, safety and efficiency. At the same time, an improved reach cylinder with a smaller diameter has strengthened the shock-absorbing structure and contributed to energy savings.



### Reinforcement of outer mast to reduce mast swing

- The same mast channel as FBR20 is used for the FBR15~18.

|            |       |                 |                  |
|------------|-------|-----------------|------------------|
| P/PFL mast | FBR15 | Lifting height: | 4,700 mm or more |
|            | FBR18 | Lifting height: | 4,000 mm or more |
| M mast     | FBR15 | All mast        |                  |

- A beam is added to the outer mast for M

### Improvement of reach cylinder

- Shock absorbing structure
- Smaller diameter: Contributing to energy conservation (FBR10N to FBR18)

### Reinforcement of side plate to reduce mast swing

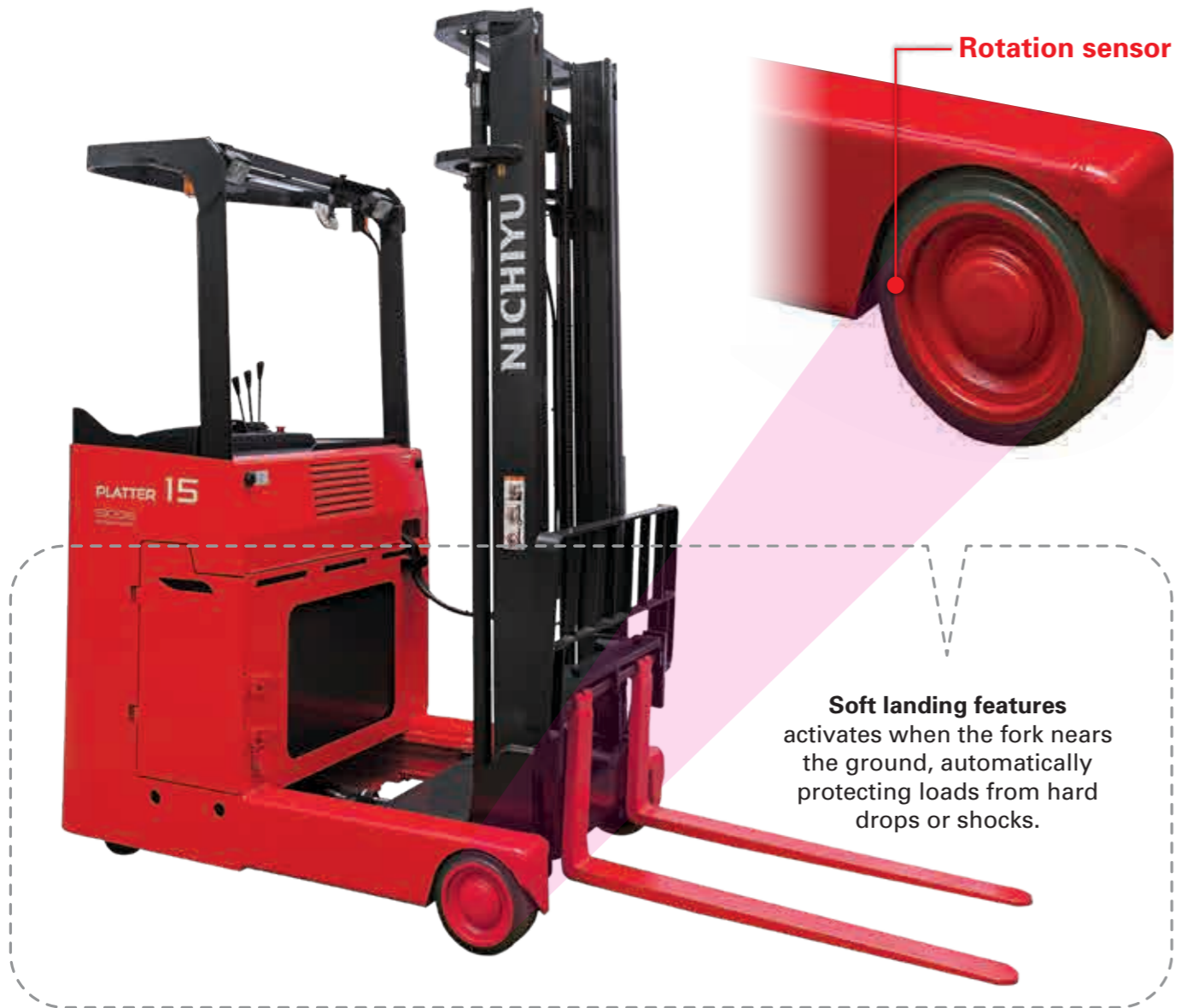
- Improvement of mast looseness: Strict adjustment of shims for mast rollers.

# SUPERIOR • SAFETY

With its refined ergonomics, Platter products also boast superior safety and security with its cutting-edge features that include: anti-slip control, travel hydraulic interlock, emergency stop button, and simple passcode entry system.

## Anti-slip Control

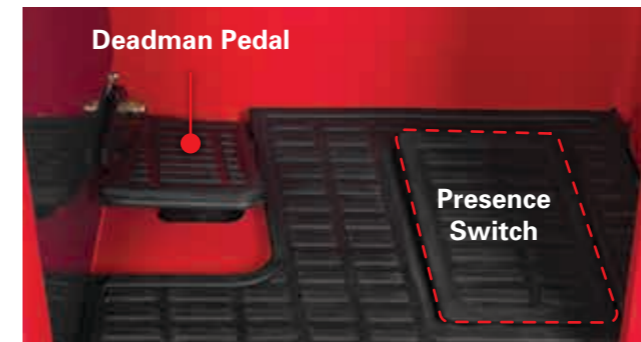
This crucial feature enables higher stability on slippery road surfaces. The system calculates drive wheel slippage by detecting right-load wheel rotation speed, and reduces the torque of the drive wheel to ensure utmost safety.



## Travel Hydraulic Interlock

Conforming to strict safety standards, including ISO3691, the operating interlock system prevents unintended operations when the user is either out of the compartment or assuming a wrong position for safe operations.

The independent Presence Switch Pedal prompts the user to take a safer operating posture during hydraulic operations. The alarm sounds if the situation is not right, while the travelling operation stops via its regenerative brake, and the hydraulic system stops.



## Emergency Stop Button

This button interrupts the electric power source as opposed to disconnecting from the battery plug. Such a direct termination of power enhances safety more effectively in an emergency.



## Simple Passcode Entry System

Security for our trucks is paramount, and the compulsory entry of a passcode prevents unauthorized persons from using the truck. This feature is indispensable for effective security and safety management.

 **patterns of password settings are available**



# SUPERIOR • PRODUCTIVITY

The Platter trucks are designed to achieve superior productivity through the key elements of awareness, control and comfort.

## Awareness

The use of transmissive LCD monitor provides clear contrasts that improve visibility even when outdoors and under the bright sunlight. With enlarged text, the full dot display makes the on-screen information more legible.

**Negative display**  
(Normal)



**Positive display**  
(Inverted)



## Control

Improved ride comfort is achieved through upgraded control elements. A hand grip supports ease of riding. An enlarged, cushioned waist pad helps the user maintain an ideal posture and reduce fatigue, while improving the holding effect. Set at an optimum angle, the inclined steering wheel ensures further ease of posture during operation.

### Inclined steering wheel

The steering is set in the optimum angle for ease of operation

### Hand grip for riding (conforming to ISO3691)

Supports ease of ingress/egress

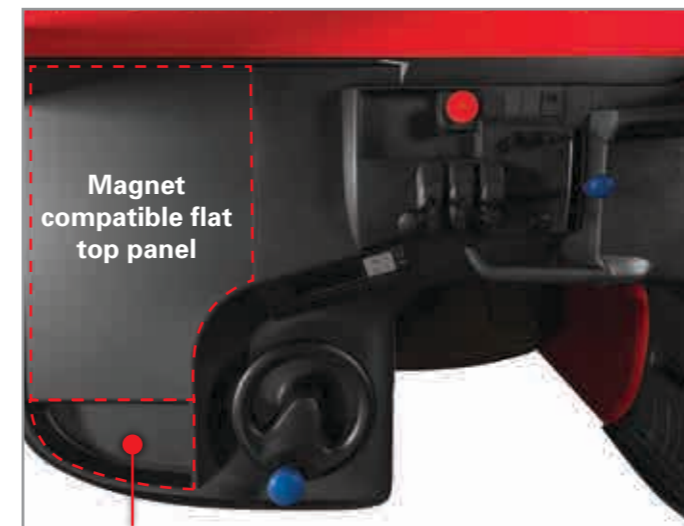
### Waist pad

A large soft cushion pad reduces operator's fatigue, and improves holding effect



## Comfort

FBR85 series is complete with a range of features for user comfort. A useful glove compartment and a flat, magnet-compatible document table enhance the user's convenience. Not found in other brands is a useful storage compartment for stationery and small items. A low floor height — without increasing the size of the caster wheels — also ensures ease of user ingress and egress.



Magnet compatible flat top panel

For storage of pens and small articles



Low Floor Height



Large glove compartment

