NICHIYU

ELECTRIC LIFT TRUCK
COUNTER BALANCED TRUCK
Middle Series
FB35/40/45

Counter Balanced Type

Middle Series

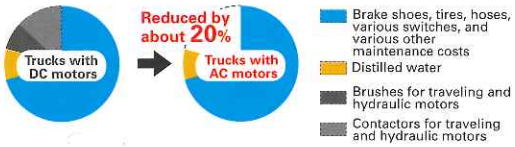
The eco-friendly electric forklift that's quiet, comfortable, and — above all — clean.

● Smooth and Reliable

The SICOS-AC super-intelligent control system ensures powerful and highly efficient operation.

■We've reduced maintenance costs by 20%.

The AC motor eliminates the need for brushes and contactors.



■Multiple regenerative functions recover waste energy.

- **Coasting** ···Recovers when you lift your foot off the accelerator.
- **Plugging** ···Recovers when you reverse the direction of travel (forward/reverse).
- **Braking** ···Recovers when you activate the footbrake.
- **Speed suppression on downslopes** ···Recovers when you coast on a downslope.

■Smooth & Powerful Operation

Very precise speed control is possible.
It dramatically improves inching operation.

■Quieter Operation

We've significantly reduced noise caused by motor brushes, fans, and the control chopper.

■Significantly Increased Speed for Traveling and Lifting

	Previous model	New model
Traveling speed	12.0km/h	16.0km/h
Lifting speed	310mm/sec	480mm/sec

※Data: FB40P at P-mode, Unladen

IPX3 rating waterproof design

Thanks to the IPX3 waterproof design, it can be used outdoors on rainy days.
It is impervious even to wind-driven rain falling at a 60° angle.

Safety Cruise

This feature prevents sudden sliding down even if the both of accelerator and brake pedals are released.
What's more, it limits the vehicle to a safe speed when traveling on a downslope.

Speed is limited to about 1 km/h (anti roll back) when the both of accelerator and brake are released on an upslope.

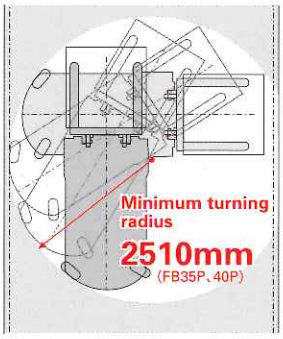
Maintains a safe speed on downslopes. (Speed suppression on downslopes)

For added safety on slopes, we recommend the footbrake be activated at the same time.

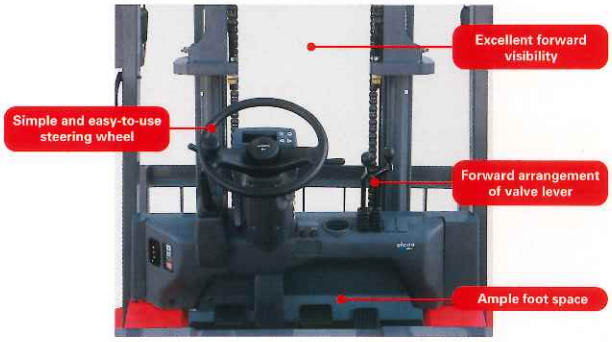
Safe and Comfortable

Small Turning Radius

With this compact design, we've significantly reduced the front overhang and achieved the smallest turning radius. This innovation contributes to enhanced efficiency and ease of operation.



Comfortable Operation



Clear display shows complete operating status at-a-glance

In addition to showing vehicle speed and remaining battery capacity, the multidisplay unit allows you to make a variety of settings.

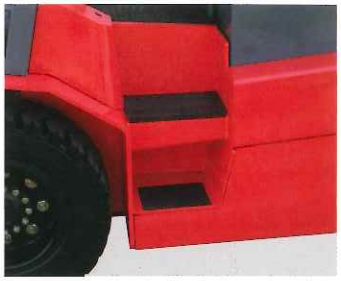
Basic display

Self-diagnosis display

Driving-mode setting display

Wide, Convenient Steps

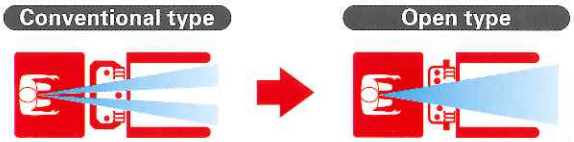
The two wide steps offer greater ease and convenience.



Open-type Mast

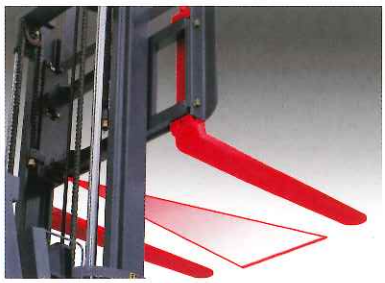
The three-stage mast and two-stage full-free mast are open type offering excellent visibility.

※ The three-stage mast and two-stage full-free mast options are not available with Model FB45PN.



Laser Pointer (optional)

The red laser beam serves as a handy guide for fork positioning.



Load Indicator (optional)

With this feature, the load weight is displayed on the display, preventing overloading for enhanced safety.

*Note: The scale is not intended for use in legal trade.

Operation Interlock System

For operator's safety, travel and mast operations are automatically interlocked when the operator is not properly seated for more than two seconds.

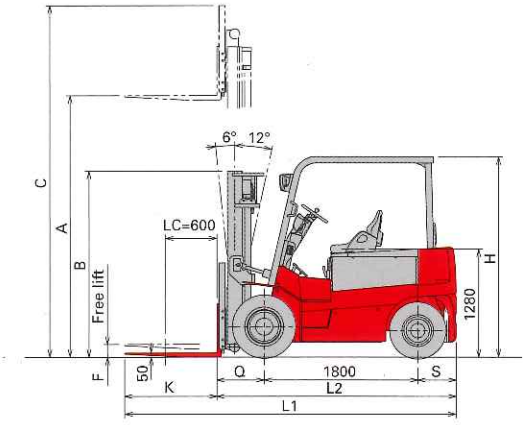
※ The brake cannot be activated.
Set the parking brake when leaving the vehicle.

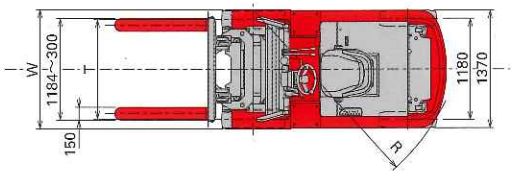
Simplified Maintenance

The fully opening battery cover incorporates a locking gas spring for easier battery inspection and maintenance.

Counter Balanced Truck Middle Series

● Standard Specifications

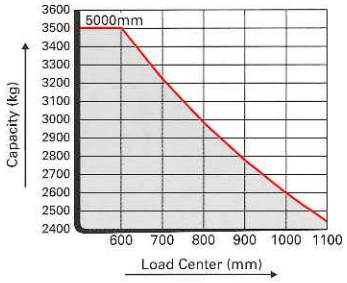




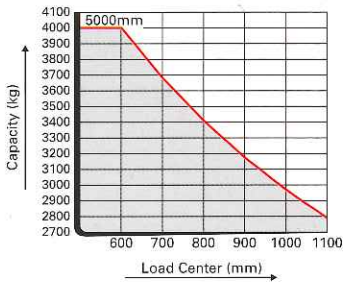
Model					FB35P	FB40P	FB45PN
Performance	Capacity			kg	3500	4000	4500
	Load Center			mm	600		
	Lifting Height		A	mm	3000		
	Free Lift		F	mm	150		
	Lift Speed	Laden		mm/s	320	300	250
		Unladen		mm/s	480		400
	Travel Speed	Laden		km/h	14.0	13.5	13.0
		Unladen		km/h	16.0		15.0
	Min. Turning Radius		R	mm	2510		2530
	Min. 90° Turning Aisle *			mm	2410		2430
	Gradeability (Laden/unladen)			%	15/18	13/16	11/16
Dimensions	Overall Length		L1	mm	3870		3910
			L2	mm	2800		2840
	Overall Width		W	mm	1390		
	Overall Height	Overheadguard	H	mm	2340		
		Mast Lowered	B	mm	2170		2250
		Mast Extended	C	mm	4050		
	Fork L × T × W		K	mm	1070×50×150		
	Wheelbase			mm	1800		
	Road Clearance			mm	150 (Mast)		
	Front Overhang		Q	mm	550		565
	Rear Overhang		S	mm	450		475
	Tread	Front	T	mm	1160		
		Rear		mm	1180		
Service Weight (W/O Battery)				kg	5040	5310	5870
Tyres	Front				250-15-18PR		250-15 SOLID
	Rear				7.00-12-12PR		7.00-12 SOLID
Control System					Inverter Control (Traction, Hydraulic, Power Steering)		
Motors	Traction			kW	14.0		
	Hydraulic			kW	20.0		
	Power Steering			kW	1.8		
Battery	Voltage			V	72		
	Capacity	Standard		Ah/5HR	545	600	600
		Optional			600	—	—
	Battery Weight (Min./Max.)				1200/1330	1300/1330	1300/1330
Charger (Option)					Automatic Stationary Charger (3-phase, 200 V)		
	Capacity			KVA	12	16	

* 1100×1100 pallet, no clearance included

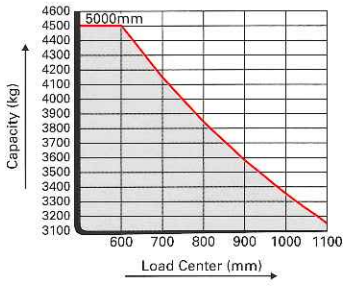
■FB35P



■FB40P



■FB45PN



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.

NICHIYU

Nippon Yusoki Co., Ltd.

1-1, 2-Chome, Higashikotari, Nagaokakyo-shi, Kyoto 617-8585 JAPAN
Tel: +81-(0)75-956-8622 Fax: +81-(0)75-955-0480 URL: http://www.nichiyunet.co.jp/en

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