



ELECTRIC FORKLIFT
COUNTERBALANCED
TRUCKS

FB-80 SERIES

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COUNTERBALANCED TRUCKS

FB-80 SERIES

SUPERIOR - TECHN

The Nichiyu FB-80 Series electric forklift is pioneering the future of logistics with its cutting-edge ECO technology. Boasting an intelligent and sustainable energy management system, this eco-friendly electric forklift promises consistent optimal performance. It is equipped with powerful drive technology and superb hydraulics. It is not only economically efficient and reliable, but also excels in safety, stability and ergonomics. The FB-80 Series is pushing boundaries in electric forklift technology and redefining logistics excellence.

ECO Excellence

At the heart of the FB-80 Series forklift lies its industry-leading ECO technology that is clean and efficient. Low energy consumption combines with minimal maintenance and resilient recovery to ensure superb load handling and outstanding drive control.

Energy Efficent:



• ECO Mode Button: The ECO Mode optimizes forklift performance, conserving energy for continuous, uninterrupted delivery of highoutput tasks with speed and agility.



Auto Power Off: Once idle beyond 15 minutes, the forklift automatically powers down.



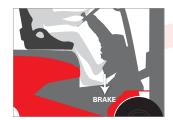
• Regeneration: A range of integrated regenerative functions enables the forklift to reclaim energy in the following various situaitons.



Coasting: Energy recovered when the foot is lifted off the accelerator.



Plugging: Energy recovered when direction change.



Braking: Energy recovered when engaging the footbrake.



Speed Supression on Downslope: Energy recovered when when cruising down-slope.





Driving Forward with Gree

with Green Technology



AC Motor

A refined, robust and maintenance-free AC motor powers the truck with formidable lifting prowess, quick responsiveness, and smooth drive performance.

Battery Protection (Option)

An intuitive restriction of lifting power and induced speed reduction immediately alert the operator to the need for recharging, ensuring battery protection and preservation.

Waterproof Class IPX4

This higher standard waterproof class – with an anti-splash feature that protects against multi-directional water sprays – provides the most robust resistance to external elements.

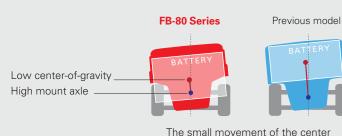
SUPERB · SAFETY

The FB-80 Series electric forklift

is fully loaded with innovative safety and stability applications that propels it ahead of its class. These features have been meticulously designed to raise the forklift's level of agility and flexibility, leading to higher productivity and output.

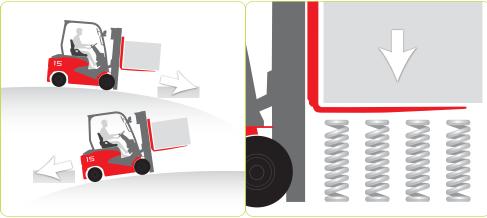
Low Center-of-gravity A low centre of gravity enha

A low centre of gravity enhances traveling and turning stability, further aided by the deeper emplacement of its battery box.



The small movement of the center of gravity during turning enables smooth and safe traveling.





Auto Torque Up

The auto torque up function automatically ramps up the forklift's power when it senses a situational need; for instance, whilst moving up a slope or when carrying heavy loads. Instead of letting the forklift be subjected to a normal drop of output as prompted by the situation, the auto torque up kicks in to maintain regular movement and performance as if the forklift were traveling on a flat surface.

Safety Cruise

The safety cruise limits speed to 1km/h (controlled roll back) and prevents sudden sliding even when the accelerator and brake pedals are released. Additionlly, speed suppression is also activated when the forklift is downslope.

Vibration Cushioning (Option)

A hydraulic pressure control system manages pressure levels to accommodate various load capacities. The ability to absorb shocks helps prevent damage to goods when travelling over different terrains.



Travel Hydraulic Interlock

This intelligent and sensitive feature disengages all movement if the operator is not seated in the forklift.



LIFT/LOWER LOCK

TRAVEL INTERLOCK

Pitching Control

Pitching control absorbs load vibrations, especially when travelling across bump.



WITH PITCHING CONTROL



WITHOUT PITCHING CONTROL

Wide Visibility

Superior multi-directional visibility ensures a clear and broad line of sight.



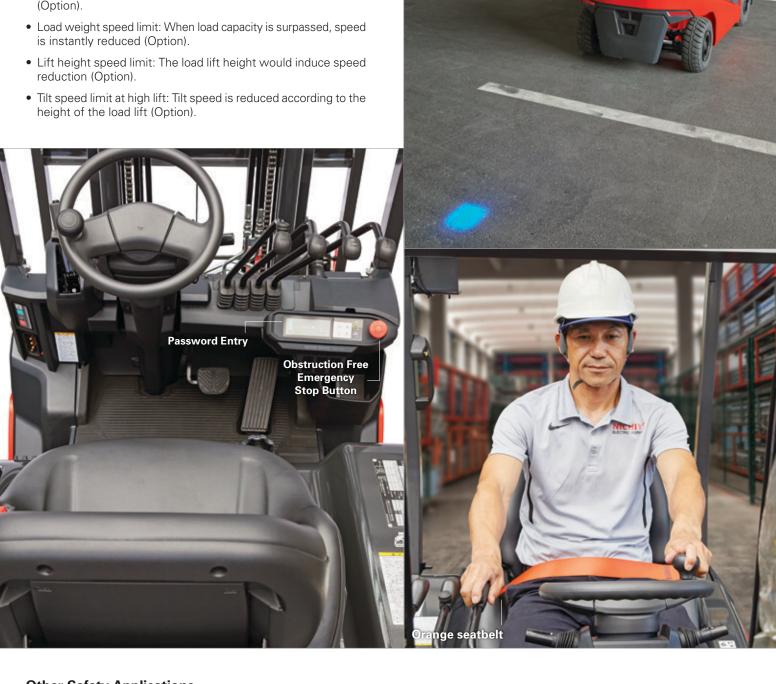


Rear LED Line and Blue Spot Light

The Rear LED Line is an innovative feature that vastly improves pedestrian safety. With the Blue Spot Light that illuminates the forklift's pathway, both these features reinforce safe operations, especially in high-volume locations, noisy workplaces or within confined internal spaces.

Travel, Speed, Lift, and Tilt Control Features

- Turning speed limit: Automatic speed reduction kicks in when turning.
- Speed limiter: A key safety device that manages and limits speed (Option).



Blue Spot Light

Rear LED Line

NICHIYU

Other Safety Applications

- Orange seatbelt: A brighter colour helps safety managers to better monitor seat belt usage, facilitate effective safety implementation, and ensure user responsibility (Option).
- Password Entry: For added security, forklift operation requires an activation password (Option).
- The emergency stop button is visible and easily within reach.
- Audible/visual parking brake warning: Should an operator leave the forklift without putting on the brakes, audible and visual alerts would prompt him.



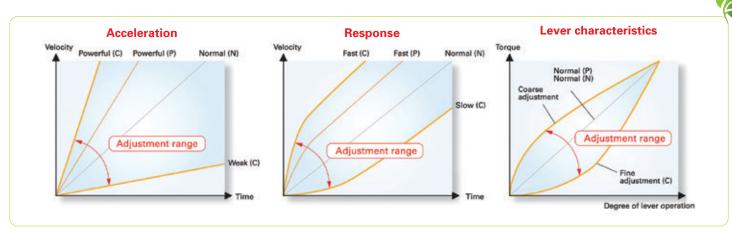
SUPERIOR • FEATU

Outstanding Control and Ergonomics

An immaculate control system ensures the seamless execution of high-intensity load handling with perpetual motion. Creative ergonomics transforms the FB-80 Series into a vehicle that excels in safety, ease and comfort.

Customizable Operation Characteristics

This unique innovation in forklift technology makes the forklift highly versatile through a broad range of customizable operational attributes. The forklift's characteristics can be programmed to suit the operator's skill and experience level, preferred operational style, and functional choices. The customizable functions apply to both traction and hydraulics.



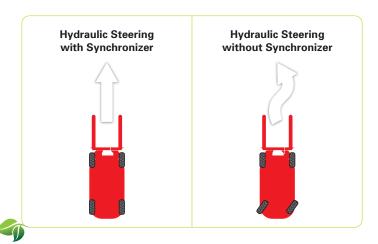
Rear Hand Grip with Horn

Ergonomically placed to reduce fatigue, this grip makes it more comfortable for the operator to shift physically while reversing the forklift. The horn improves safety by alerting pedestrians.



Hydraulic Steering with Synchronizer

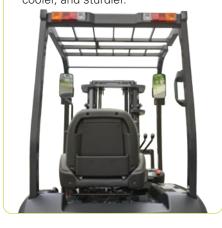
Precision hydraulic steering is enabled by an active steering synchronizer that coordinates the alignment between the steering wheel and tire angles through sensors. At all times, the sensors would ensure that the steering knob returns to the original position. This steering feature promises accuracy, consistency, and smooth driving while also enhancing performance and safety.





LED Lights (Option)

LED lights are available for the head lamp and rear combination lamp. Options include rotating lights or flash lamps. These high-intensity lights are energy saving, durable, cooler, and sturdier.



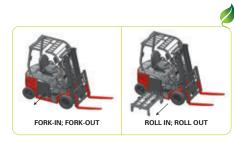
Dashboard Display

An interactive dashboard display is clearly visible, and provides the operator with key operational details.



Easy Battery Exchange

The battery compartment is easy to locate, and exchanges are convenient and swift.



Fingertip Control (Option)

Fingertip control buttons are conveniently and seamlessly embedded within the arm rest, helping the operator to execute tasks with ease.



Optional Features and Parts

The FB-80 Series forklift offers wide-ranging solutions that address multiple logistics scenarios. Apart from standard equipment, the model comes with an impressive inventory of optional features and parts.

- Laser Pointer: Allows operators to position the forks appropriately at high levels.
- Tilt horizontal leveling: The forks automatically stop when they arrive at a horizontal position.
- Front wind shield/ acrylic roof/ rear windshield: Additional shields against wind and rain.
- Attachments: A large inventory of attachments cover multiple applications. These include side shifters, fork adjustors, rotating forks and clamps.
- Cold store: Designed to withstand extremely cold conditions (up to -55° C) when operating in cold rooms. All forklift components are protected from the hazards of condensation that could lead to operations being aborted. Essential fluids used are well secured with anti-freeze solutions.

Standard Specifications

					Unit	FB10-80	FB15-80	FB18-80	FB20-80	FB25-80	FBB20-80	FBB25-80	
Type	Item					Standard type				Long wheelbase type			
Ι-	Capacity at rated	Capacity at rated load center				kg	1,000	1,500	1,750	2,000	2,500	2,000	2,500
	Load center – dis	Load center – distance				mm	500	500	500	500	500	500	500
	Height to top of overhead guard			t	h6		2110	2110	2110	2110	2110	2110	2110
	Height with mast lowered				h1		1990	1990	1990	1995	1995	1995	1995
	Lift height				h3	mm	3000	3000	3000	3000	3000	3000	3000
	Overall height with mast raised				h4		4055	4055	4055	4055	4055	4055	4055
	Free lift				h2		115	115	115	140	140	140	140
	Tilt		Forward		α	0	7	7	7	7	7	7	7
			Backward		β	0	11	11	11	11	11	11	11
	Ground clearance Center of wheelbase		Under Mast		m1		110	110	110	115	115	115	115
			of wheelbase	m2	_	110	110	110	110	110	110	110	
S	Front overhang				F		395	395	395	445	445	445	445
si o		Rear overhang			С		275	275	315	340	380	340	340
e		Overall length			L1	-	3150	3150	3190	3375	3415	3535	3535
Dimensions		Length to fork face (includes fork thickness)			L2		2080	2080	2120	2305	2345	2465	2465
		Wheelbase			L3		1410	1410	1410	1520	1520	1680	1680
	Minimum outside	e turni	_		R	mm	1850	1850	1880	2030	2080	2215	2215
	Thread		Front	Single Tire	B5		930	930	925	955	955	955	955
	0 11 111		Rear		B6		900	900	900	965	965	965	965
	Overall width		Single Maximu		В		1100	1100	1115	1155	1155	1155	1155
	Fork spread – out-to-out		Minimu		B3 B4		920	920 240	920 240	995 260	995 260	995 260	995 260
	Width Forks Thickness			III	W W	4	100	100	100	122	122	122	122
			100	t		35	35	35	40	40	40	40	
			Length	.00	L		1070	1070	1070	1070	1070	1070	1070
		Lade		neumatic			14.0	14.0	13.5	14.0	14.0	14.0	14.0
	Travel speed		Unladen Pneumatic			km/h	16.0	16.0	15.5	16.0	16.0	16.0	16.0
ဥင	Lade		en				390	350	330	290	260	290	260
nai	Lift speed Unladen				mm/s	540	540	540	470	470	470	470	
Performance	Maximum gradeability - laden (3 min. rating, 1.5km/h and over)				%	22	19	17	19	16	18	16	
•	Maximum gradeability - unladen (3 min. rating, 1.5km/h and over)				%	25.0	25.0	24.0	22.5	20.0	20.5	20.5	
10	Service Weight without battery					kg	2060	2190	2420	2895	3270	2965	2965
Mass	Battery Weight Minimum Maximum				kg	570	600	600	715	810	1025	1025	
Chassis M					kg	875	910	910	1025	1025	1360	1360	
	Tire size	Front	Single				6.00-9 10PR 21x8-9 14PR 21x8-9 16PR						
		Rear					5.00-8 8PR 18x7-8 14PR						
		Stee	Steering type				Full Hydraulic Power Steering						
	Miscellaneous	Servi	Service brakes				Hydraulic						
	Wildeliancoas	Parking brakes				Mechanical							
									Hand-oper				
	Motor Lift n		Orive motor (60 min. rating)				7.0	7.0	7.0	8.5	8.5	8.5	8.5
			ift motor (10 min. rating)			kW	9.5	9.5	9.5	11.5	11.5	11.5	11.5
Electrical	Steering motor (60 min. rating)			j)			1.5	1.5	1.5	1.5	1.5	1.5	1.5
ec	Drive / Hydraulic / Steering controls					AC Inverter							
ш	Battery STD					V/Ah(5HR)	48/370	48/415	48/415	48/510	48/565	48/725	48/725
	Charger Type (3 phase 400/200V) STD								omatic Station				
			STD		kVA	6.5	6.5	6.5	8.1	8.1	11.0	11.0	

ELECTRIC FORKLIFT

FB-80 SERIES

FB30P-80	FB35PJ-80							
Standard type								
3,000	3,500							
500	500							
2200	2200							
2015	2115							
3000	3000							
4055	4055							
140	145							
7	7							
11	11							
135	135							
120	120							
485	490							
340	430							
3575	3670							
2505	2600							
1680	1680							
2260	2330							
1030	1030							
980	980							
1255	1255							
995	995							
280	280							
122	122							
45	50							
1070	1070							
13.5	13.5							
15.5	15.5							
320	270							
550	460							
16	13							
20	19.5							
3790	4340							
1095	1095							
1540	1540							
28×9-15 14PR								
6.50-10 10PR	6.50-10 12PR							
11.0	11.0							

15.0

1.7

72/470

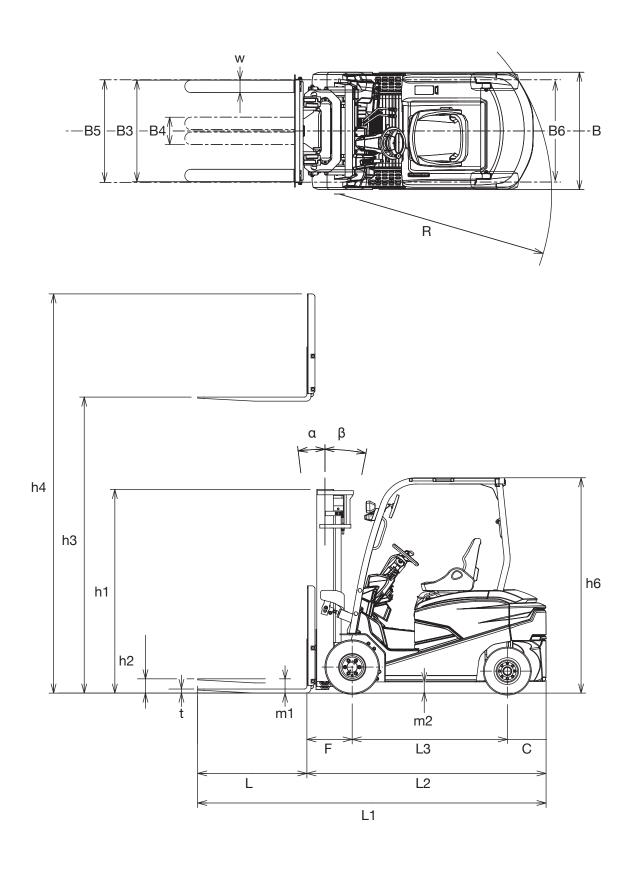
12.0

15.0

1.7

72/470

12.0





About us

Nichiyu is a pioneering developer of electric forklifts in Japan. Since introducing the country's first electric forklift in 1937, Nichiyu has continued to introduce a variety of innovative electric forklift solutions. We take pride in our ability to provide customer-focused products and exceptional service.

Committed to comprehensive service

We maintain highly trained service staff in every country in which we sell our products. Should you require regular periodic maintenance or emergency repair, simply contact us for fast and efficient on-site service. We take pride in our commitment to first-rate support and unmatched customer service.

All specifications have been determined according to manufacturer's terms and conditions. Specifications are subject to change without notice in the interests of product improvement.

