d	e	2	G4
Flame-proof construction	Increased Safety construction	Explosion class	Ignition group

Nichiyu explosion-proof forklift trucks comply with the de2G4 grade of the explosion-proof standard of the Japanese Labor Safety and Health Law, and can be used in Zone 2 hazardous areas.

d Flame-proof construction

(Applicable to motors, control units and switch boxes)
This indicates fully enclosed construction. The enclosure can withstand the force of a gas vapor explosion occurring within it. It also prevents any sparks from contacting an external explosive gas.

e Increased Safety construction

(Applicable to battery and horn)
This type of construction features increased insulation and security in order to protect against the dangers of increased temperature and damage from an external force.

2 Explosion class

Explosion classes are ranked as class 1, 2 and 3 in order of increasing risk of gas explosion. The larger the number, the greater the risk of an explosion.

G4 Ignition group

Explosive gases are classified into five categories according to ignitability. The higher the category number, the lower the ignition temperature and the greater the risk of explosion.

Classification of Explosive Substances by Ignition Group and Explosion Class

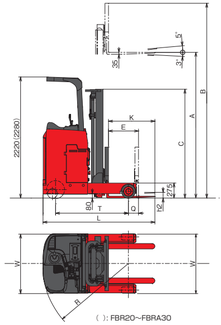
Explosion class \ Ignition group	G1	G2	G3	G4	G5
1	Acetone Ammonia Carbon monoxide Ethane Acetic acid Ethylacetate Toluene Propane Benzene Methanol Methane	Ethanol Amylacetate-iso 1-Butanol Butane Acetic anhydride	Gasoline Hexane	Acetaldehyde Ethyl ether	
2	Coal gas	Ethylene Ethylene oxide			
3	Water gas Hydrogen	Acetylene			Carbon disulfide

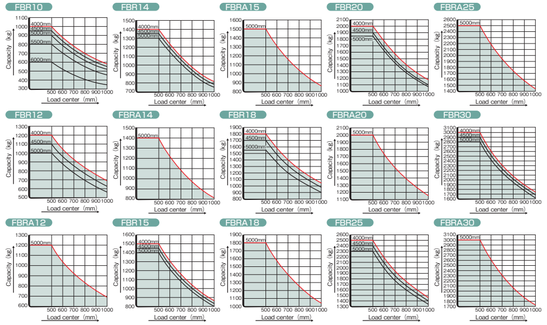
Accessories for higher operational efficiency

Equipment \ Model	FBR(A) 10H-13H	FBR(A) 14-18	FBR(A) 20-30
Electric power steering	S	S	S
Head lamps	O	O	O
Turn signal lamps	O	O	O※
Electric horn	S	S	S
Back up alarm	O	O	O
Chime	O	O	O
Revolving light	O	O	O
Hour meter	S	S	S
Battery indicator	S	S	S
Lift limit switch	O	O	O

S : Standard
O : Option
※Standard for FBR25/30 FBRA25/30

Standard specifications





Models				FBR-E80 series													
				FBR10	FBR12	FBRA12	FBR14	FBRA14	FBR15	FBRA15	FBR18	FBRA18	FBR20	FBRA20	FBR25	FBRA25	FBR30	FBRA30
Performance	Capacity		kg	1000	1200	1200	1400	1400	1500	1500	1800	1800	2000	2000	2500	2500	3000	3000
	Lift height	A	mm	3000	3000	4000	3000	4000	3000	4000	3000	4000	3000	4000	3000	4000	3000	4000
	Free lift	h2	mm	105		400	105	400	105	400	110	405	120	400	120	400	125	405
	Lifting speed Laden		mm/s	340	320		310				300		260		250		210	
	Lifting speed Unladen		mm/s	540			540						450				390	
	Traveling speed Laden		km/h	9.5			9.5						10.0		9.5		9.0	
	Traveling speed Unladen		km/h	10.5			10.5						11.5				11.0	
	Minimum turning radius	R	mm	1340	1450	1510	1520	1580		1760		1810	1785	1955		2020	2050	2550
	Reach stroke	E	mm	380	500	560	490	550		730			635	805		870	835	935
Dimensions	Overall length	L	mm	1960			2050				2125	2175	2245				2310	2410
	Overall width	W	mm	1090			1090						1190					
	Overall height Mast lowered	C	mm	1995		2495	1995	2495	1995	2495	1995	2495	2050	2550	2050	2550	2050	2550
	Overall height Mast extended	B	mm	3900		4900	3900	4900	3900	4900	3900	4900	3900	4900	3900	4900	3900	4900
	Fork length	K	mm	850			850				920		920					
	Wheelbase	T	mm	1085	1205	1265	1275	1335		1515			1515	1685		1755	1785	1985
	Front overhang	Q	mm	175			185				190		195				190	
Service weight			kg	2050	2140	2240	2200	2300	2260	2490	2410	2770	2930	3090	3020	3190	3360	3980
Tire	Drive		mm	φ254×114 / Urethane			φ254×114 / Urethane						φ267×114 / Urethane		φ267×135 / Urethane			
	Load		mm	φ330×145 / Rubber			φ330×145 / Rubber						φ380×165 / Rubber					
	Casters		mm	φ178×73 / Rubber			φ178×73 / Rubber						φ204×76 / Rubber					
Control system				Inverter														
Motors			kW	Travel[35%]: 4.5 / Hydraulic[25%]: 8.5 / Power steering[35%]: 0.39														
Battery	Voltage		V	48			48						48					
	Capacity		Ah/5HR	201			210		280				320				370	
	Option		Ah/5HR	240			280		320				370				–	
				–			320		370				–				–	
Charger				3φ200V Automatic stationary charger														
	Capacity		kVA	3.8			3.8		4.7				4.7				6.5	

※The right load wheel uses a conductive tire.
※[ ]: Operating Duty = $\frac{\text{Operating time of motor}}{\text{Time of one operating cycle}} \times 100(\%)$

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.

NICHIYU
ELECTRIC FORKLIFT

FNCY0005 (09/18)

NICHIYU
ELECTRIC FORKLIFT

ELECTRIC FORKLIFT STAND-ON REACH TRUCKS

PLATTER

Explosion-proof Type

Committed to safety and efficiency in addition to operator comfort, explosion proof PLATTER provides reliable operation in Zone 2 hazardous sites.

Since developing Japan's first explosion-proof truck in 1965, Nichiyu has excelled at offering a varied selection of explosion-proof models.
We now offer enhanced safety as well as even greater operator comfort.
Our wide and varied selection of 15 models offers you a choice of trucks that will dramatically improve your work efficiency.

PLATTER

Explosion-proof type
1.0–3.0t

Photo: FBR15-E80 (with option)

FBR-E80 Lineup

Capacity	1.0t	1.2t	1.4t	1.5t	1.8t	2.0t	2.5t	3.0t
FBR 3m Mast	FBR10	FBR12	FBR14	FBR15	FBR18	FBR20	FBR25	FBR30
FBRA 4m Mast		FBRA12	FBRA14	FBRA15	FBRA18	FBRA20	FBRA25	FBRA30

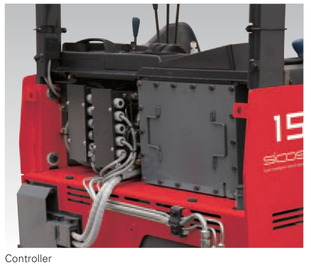
More advanced technology in reliable explosion-proof construction

de2G4

Flame-proof construction

Flame-proof construction is incorporated in all electric devices, including the motor and controller, which are the heart of PLATTER.


Traction / Hydraulic motor


Controller

Increased safety construction

The battery and electric horn of this vehicle are designed and constructed with increased safety in mind. This protects them from damage by outside force and offers increased electrical insulation. Moreover, the truck also incorporates a new charging plug that eliminates the inconvenience of disconnecting the battery plug when recharging.

Battery

Explosion-proof accessories

Optional accessories such as head lamps or turn signal lamps are also explosion-proof.


Turn signal lamps

Newly designed control panel maximizes operator's performance

Super Intelligent Control System

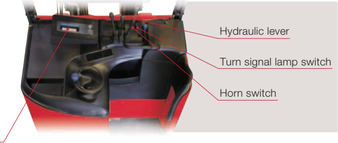
sicos
Super Intelligent Control System

Two CPUs process the traveling system and hydraulic system independently. Another main CPU manages all other information. The main CPU is connected to the display and handles all operation settings, function settings and indicator settings. The result is comfortable, stress-free operation in a variety of environments.

Newly designed equipment layout for advanced ease of use

The horn, switch and levers are oriented to ensure the most appropriate operation.


Transmissive LCD



Comfortable operator's compartment enables stress-free operation

By optimizing the layout of internal components, the step height was reduced, contributing to easier operator entry.

Floor height FBR15
Previous model 315mm ⇒ PLATTER 265mm

Glove compartment and flat top panel for documents
Platter is equipped with a glove compartment and a flat top panel that accepts magnets for simplified document storage.

The operator can maintain an ideal posture while manipulating the steering wheel and the travel / hydraulic levers
The steering wheel and the levers are oriented to ensure the most comfortable posture during operation.

Large waist pad for reduced operator fatigue
The enlarged waist pad features soft touch materials and helps the operator maintain posture.

Hand grip assists easy ingress and egress

Efficiency and safety, with advanced reliability and easier serviceability

AC controlled IPM traction and hydraulic motors yield high efficiency.

An oil damper improves stability when turning.

Temperature sensors incorporated in the motors monitor and prevent overheating.

After temporarily stopping on an incline and releasing the brake, you will descend only at very slow speed until you apply the accelerator and easily continue on your way.
(Safety Cruise)