UNICARRIERS
A Lifetime of Trusted Value

BX2 Series

Electric-Powered Models
Sit-down type

1.0-3.5 tons

PERFECT BALANCE

BX2 Series comes with a cool, exciting body design, and it is equipped with the full complement of functions and the ease of operation that lots of users are looking for.
The BX2 Series provides solutions to meet operators' requirements.
This comes with the reliable quality and the increased efficiency as well as productivity in the operating site.

BX2 Series

Electric-Powered Models
Sit-down type
1.0-3.5 tons

2ton Class

1ton Class

3ton Class

LINE UP

	▶ Standard Wheelbase Truck							▶ Long Wheelbase Truck	
Model	2B1L10U	2B1L15U	2B1L18U	2B2L20U	2B2L25U	2B2L30U	2B2L35CU	G2B2L20U	G2B2L25U
Load Capacity (Rated Capacity)	1000kg	1500kg	1750kg	2000kg	2500kg	3000kg	3500kg	2000kg	2500kg

Excellent Functions

LED Lights OPTION

Optional LED lights are available for safe traveling and load handling operations.

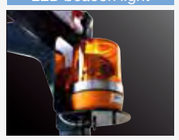
LED Lights

LED lights are bright and energy-saving and have a long life. LED headlights, rear combination lights or a beacon light are available as options. They will help improve worksite safety during load handling operation.

LED headlight

LED rear combination light

LED beacon light



*A single-light type is also available.

Blue Rear Warning Light

The blue rear warning light illuminates the floor surface behind the truck with blue light while it is traveling in reverse, to let other workers around the truck know the direction of travel of the truck or that the approach of truck. The visibility of the truck will be improved in worksites where visibility is restricted or the noise level is high.

Blue light lets workers know truck is approaching.

Rear LED Line

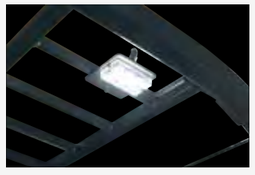
A line of LED is installed between the rear cover and the counterweight. Workers or trucks behind you can see the truck clearly, even in the dark worksite.

LED Flashlight

An LED flashlight is optionally available. It blinks at the rear part of the truck to let workers who are behind the truck know the location of the moving truck.

LED Spotlight

An optional LED spotlight can be installed on the upper right corner of the overhead guard. Its bright light will help the operator to read documents at a dark worksite.



Laser Pointer OPTION

Laser beam clearly indicates the fork position when forks are in the horizontal position.

Password (PIN Code) Entry OPTION

The password entry system verifies whether a person is allowed to operate the truck.
This safety system protects the truck from theft and prevents any unauthorized person from operating the truck.

Seat Belt Warning Alarm OPTION

If the seat belt is not fastened properly after the operator is seated in the operator's seat, the travel and load handling systems will lock, and an alarm is issued. This supports safe driving and accident reduction.

Easy Load Weight Indicator OPTION

The meter panel shows the approximate weight of the load being carried on the forks to help prevent an accident due to overloading.

*The weight reading should be regarded as estimated figure.

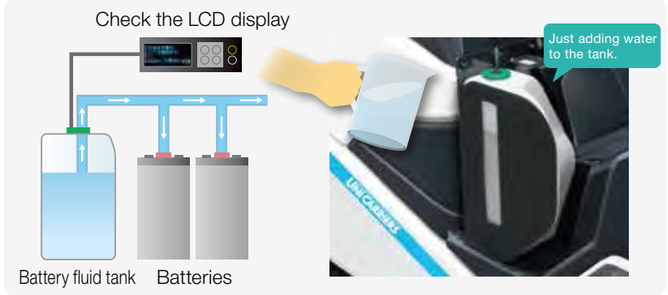
AOS(Advanced Operation System) OPTION

The advanced operation system uses a handy terminal attached to the truck body to execute various load handling functions, including: the Automatic Lifting Stop function that brings forks to the specified rack level at the touch of a button; the Automatic Fork Leveling function that tilts the forks to stop in a level position; and the Lift Height Limit Mode that stops the forks at the specified height.

*This system is available for trucks with the three-stage full-free mast.

Automatic Battery Fluid Filler OPTION

When the battery charger switch is turned on, the necessary amount of purified water is automatically provided into the battery from the battery fluid tank (with a built-in pump). This substantially reduces the burden on service personnel, and prevents potential battery damage due to the failure to maintain the required water level.



Point 1 Reduces the time needed for battery maintenance substantially

Keeping the proper amount of water in the battery is a troublesome job, especially for trucks with large batteries. When using the Automatic Battery Fluid Filler, only adding purified water to the battery fluid tank is needed, very simple action.

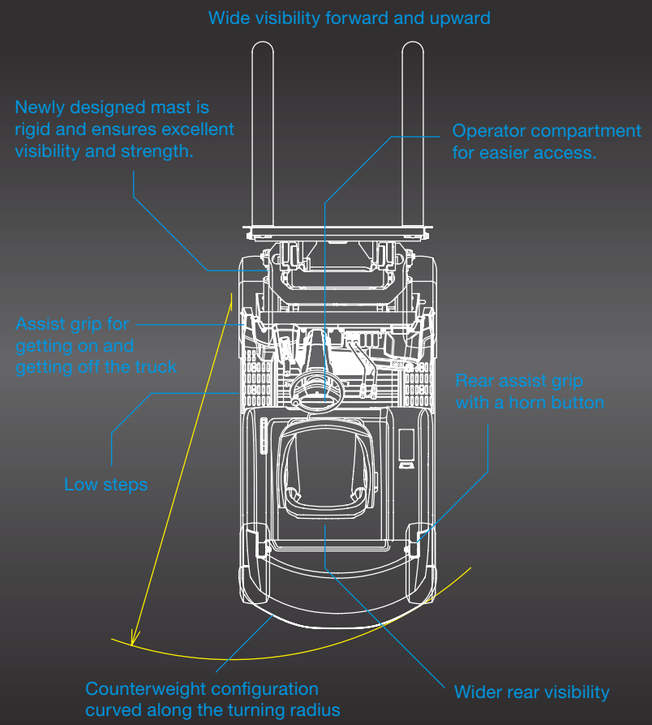
Point 2 Prevents battery water shortage

Failure to provide water to the battery adequately will cause serious damage to the battery.
Automatic Battery Fluid Filler adds purified water to the battery as needed, eliminating concern about inadequate watering. (Note that it is still necessary to keep the tank filled with purified water.)

Point 3 Double protection against oversupplying

- Water supply stops when pressure in the water pipe reaches an excess level during the supply process. (When the battery is sufficiently watered, the watering stops automatically.)
- If the pressure switch fails to operate normally, the backup timer (7 minutes at the longest) will prevent oversupply of water. (A learning function is installed.)

Design for Comfort



The exterior design of the BX2 Series adds functional beauty which supports daily load handling operations at worksites. BX2 Series is packed with ergonomic improvements, including:

- Wider forward and rear visibilities
- Assist grips and safety steps for safer entry and exit of the truck
- Operator compartment for efficient and comfortable operation, with sufficient overhead clearance
- Lowered center of gravity for greater stability during turning
- Counterweight reconfigured to follow a subtle curve that does not interfere with the operator's rear visibility, and reduces the risk for bumping into obstacles in the aisle.

In addition, the BX2 Series provides outstanding basic truck performance, allowing easier load handling operations.

Wider Visibility

The all-around view has been improved to a remarkable extent by the design of the overhead guard, the load backrest and the counterweight shape. This excellent visibility has contributed to the improvement in work efficiency and safety in the operator site.

Rear Assist Grip (With Horn)

The seating arrangement with rear assist grip ensures the operator can maintain a comfortable driving position while moving in reverse, without having an awkward posture. This rear assist grip has an integrated warning horn to alert workers around when the truck is moving backwards.

Improved Safety and Easier Access
-Easy-on & Easy-off-

The BX2 Series has a low mounting step as well as a convenient assist grip, with sufficient overhead clearance for smooth entry. The operator will enjoy this safe and quick easy-on & easy-off configuration.

Superior Productivity

Adjustable Operating Characteristics

The operator can select the most suitable operating mode, for traveling or load handling, to suit his/her driving skills and the working conditions. The custom mode allows even finer tuning of the operating characteristics.

Three operating modes are available for different work conditions.

*When taking delivery of a new lift truck, carefully consider the difference between the P (Power) Mode and N (Normal) Mode before setting the default operation mode.

Power Mode
Used for operations that require a lot of power and high torque.

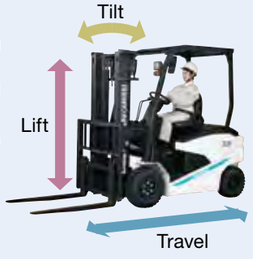
Normal Mode
Used for standard operations.

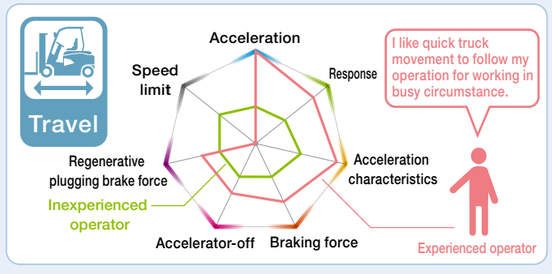
Custom Mode
Used for customizing both travel and load handling characteristics.

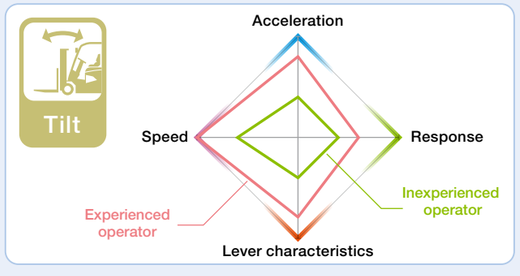
Customizing the Operating Characteristics

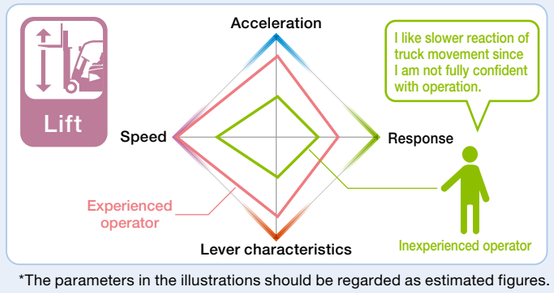
Within the Custom Mode, Administrator Mode can be selected to adjust the operating parameter more precisely. The driving or load handling characteristics can be finely tuned according to the operator's skills and the working conditions. The truck is designed with flexibility to respond to both agile operation by experienced operators and slower operation by inexperienced operators.

The operating feel for traveling, lifting and tilling can be finely tuned by adjusting parameters and can be registered 10 levels selectable for each type of operation.





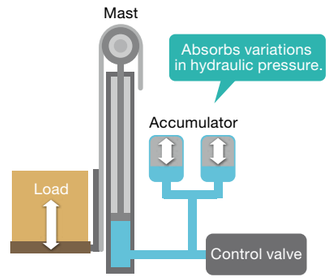




*The parameters in the illustrations should be regarded as estimated figures.

Smooth Run System OPTION

This system has two accumulators that absorb vibrations in lift cylinder pressure when getting over bumps on the road or floor surface. This reduces vibrations and shocks during all stages of load handling, from no load to full load.



- **Reducing damage to loads**
  The Smooth Run System reduces or alleviates vibrations and shocks to loads on the forks from the road surface during traveling. This system is ideally suited for handling precision devices and glass products.
- **Reducing noise**
  The two accumulators reduce the operating noise from forks that occurs when getting over bumps on the road or floor surface. Noise reduction is needed for load handling in residential areas or at night.
- **Reducing fatigue and improving operator comfort**
  Reduced shocks during traveling will help reduce operator fatigue and improve safety in operation.

Battery Exchange Options OPTION

Two battery exchange options are available. With the fork pocket under battery system, another forklift is used to exchange the battery. In the battery slide roller system, a roller bed is used to pull the battery case.

Fork pocket under battery system

Intelligent Control

Central Management System

The central management system is mounted on all BX2 Series to provide excellent operability and high safety in almost every type of work situations. Our superb management system ensures safe, efficient and comfortable load handling operations.

Driving & Load Handling Control

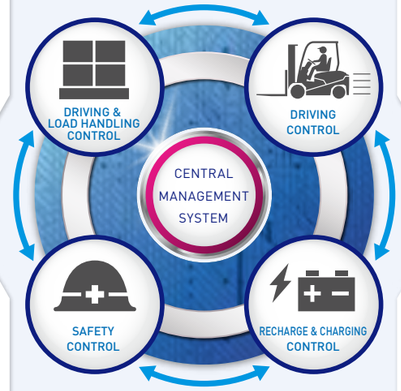
Improvement of productivity by optimum driving and load handling operations and reduction of environmental impact are both achieved.

- Adjustable Operating Characteristics
- Customization of Operating Characteristics
- ECO Mode (Long operating hours)

Safety Control

The safety functions protect employees as well as the loads.

- Sensing Control System (Travel, lift and tilt*)
- Pitching Control System
- Operation Interlock System (OIS)



Driving Control

The advanced driving control technology supports safe driving.

- Safety Cruise Function
- Maximum Travel Speed Setting (switching to "Turtle" speed and limiting maximum speed)
- Automatic Torque Increase

Recharge & Charging Control

Longer battery runtime and improved serviceability reduce the burden on the service department.

- Battery Recharge System (using various regeneration functions)
- Multifunctional Battery Charge Mode
- Automatic Battery Fluid Filler*

*Tilt control is available as an option.

*Option

Safety Cruise Function

After the truck comes to a temporary stop while going up or down a ramp, releasing the accelerator and brake pedals will start the truck moving in reverse at ultra-low speed. This allows movement to be resumed easily and safely. In addition, releasing the accelerator pedal while going down a ramp will prevent acceleration, keeping the speed constant for safe travel to the bottom of the ramp.

Accelerator-off Regeneration
When the accelerator pedal is released while going down a ramp, the travel speed is maintained and the energy is reverted to the battery.

Anti-rollback Function
The truck will drive back at about 1 km/h if the accelerator and brake pedals are released on an uphill ramp.

*It is preferable to use the service brake as well for safety sake.
*The truck with loads should be traveled in reverse when going down a ramp.

Automatic Torque Increase

When starting up a ramp or moving with a heavy load on the forks, the automatic torque increase function automatically detects the weight of loads on the forks and increases the output of the traction motor appropriately, allowing easier starts, especially when going up a ramp.

Operation Interlock System (OIS)

If the operator is not on the seat or leaves the operator's compartment, the Operation Interlock System (OIS) is activated to lock the travel and load handling operations of the truck. This safety system prevents an accident from happening if the operator of the truck is not in the correct driving position or a control is moved unintentionally when the operator is not in the seat.

*This system does not engage the brakes of the truck. Engage the parking brake before leaving the truck.

Maximum Travel Speed Function

(Switching to "Turtle" speed and limiting maximum speed)

Switching to "Turtle" speed: Sets the maximum travel speed to the value specified by the operator.

Limiting maximum speed: Controls travel speed so the truck does not exceed the upper limit preset in the Administrator Mode.

*When "Turtle" speed is selected, the slowest speed is prioritized.

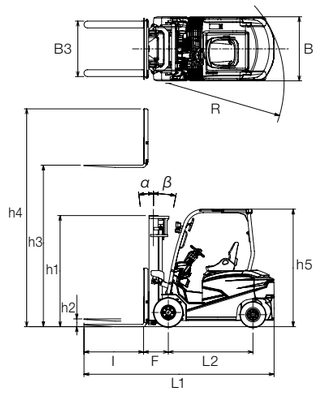
STANDARD SPECIFICATIONS

	Type		Unit	Symbol	Standard Wheelbase Truck							Long Wheelbase Truck	
	Model				2B1L10U	2B1L15U	2B1L18U	2B2L20U	2B2L25U	2B2L30U	2B2L35CU	G2B2L20U	G2B2L25U
Truck Performance	Load Capacity (Rated Capacity)		kg		1000	1500	1750	2000	2500	3000	3500	2000	2500
	Load Center		mm		500								
	Maximum Fork Height (with Standard Mast)		mm	h3	3000								
	Tilt Angle (Fwd/Bwd)		degree	α/β	7/11								
	Lift Speeds (w. Load/w.o. Load)		mm/s		390/540	350/540	330/540	290/470	260/470	320/550	270/460	290/470	260/470
	Free Lift		mm	h2	115			140			145	140	
	Travel Speeds (w. Load/w.o. Load)		km/h		14.0/16.0		13.5/15.5	14.0/16.0		13.5/15.5		14.0/16.0	
	Turning Radius		mm	R	1850		1880	2030	2080	2260	2330	2215	
Truck Dimensions and Weight	Length to Fork Face		mm	L1	2080		2120	2305	2345	2505	2600	2465	
	Overall Width		mm	B	1100		1115	1155		1255		1155	
	Overhead Guard Height		mm	h5	2110					2200		2110	
	Mast Height, Forks Lowered		mm	h1	1990			1995		2015	2115	1995	
	Overall Height, Forks Raised		mm	h4	4055								
	Fork Size		mm	Length l	35×100×1070			40×122×1070		45x122x1070	50x122x1070	40×122×1070	
	Front Overhang		mm	F	395			445		485	490	445	
	Wheelbase		mm	L2	1410			1520		1680			
	Fork Spread		mm	Max. B3	240-920			260-995		280-995		260-995	
	Tread (Front/Rear)		mm		930/900		925/900	955/965		1030/980		955/965	
	Ground Clearance	At the Center of Wheelbase	mm		110					120		110	
	Truck Weight (w.o. Battery)		kg		2060	2190	2420	2895	3270	3790	4340	2965	
Others	Battery	Voltage	V		48					72		48	
		Capacity (5-hour Rating)*	Ah/5HR		370	415		510	565	470		725	
	Electric Motors	Drive Motor	kW		7			8.5		11.0		8.5	
		Hydraulic Motor	kW		9.5			11.5		15.0		11.5	
		Power Steering	kW		1.5					1.7		1.5	
	Battery Charger	Charging Method			Automatic Stationary Charger								
		Capacity	kVA		6.5			8.1		12.0		10.7	
	Power Steering				Electro-hydraulic Power Steering								
	Travel/Load Handling Control				AC Inverter Control								
	Front Wheel				6.00-9 10PR		21×8-9 14PR	21×8-9 16PR		28×9-15 14PR		21×8-9 16PR	
	Rear Wheel				5.00-8 8PR			18×7-8 14PR		6.50-10 10PR	6.50-10 12PR	18×7-8 14PR	

* This is the capacity of the factory installled battery with minimum capacity.

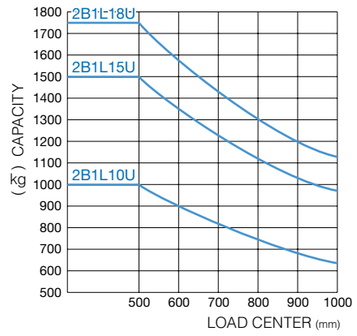
Specifications are subject to change without notice.

DIMENSIONS

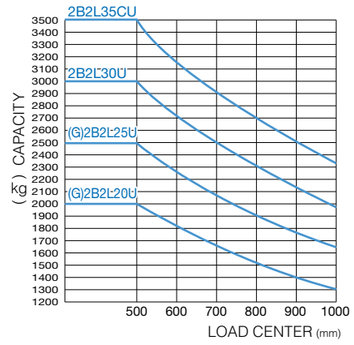


LOAD CHART (Truck with a 2-stage Wide-view Mast with Lift Height of 3.0 m)

■ 1.0 / 1.5 / 1.75t



■ 2.0 / 2.5 / 3.0 / 3.5t



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Photos and illustrations may or may not include optional equipment and accessories.
Features and specifications may vary depending on markets.
Performance data and dimensions are nominal and subject to tolerances.
Produced in ISO certified factory.

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