

KOMATSU

Electric counterbalanced trucks

1.3 to 3.0 tons



your **ENERGY...**

your **KOMATSU**



48 V - 4 WHEELER



48 V - 3

AE-2R^{ac}

48VOLT 4-WHEELER

Model	Rated Capacity Kg @ 500 mm	Turning Radius Wa (mm)	Battery Voltage/Capacity Volt/Ah	Max Lift Height mm	Max Speed Km/h
FB15-2R^{ac}	1.500	1.667	48/400-500	6.970	14
FB16-2R^{ac}	1.600	1.667	48/640	6.970	14
FB18-2R^{ac}	1.800	1.780	48/675-625	6.970	14
FB20-2R^{ac}	2.000	1.895	48/750	6.865	14
FB20G-2R^{ac}	2.000	1.895	48/840	6.865	14

AM-2R^{ac}

Model	Rated Capacity Kg @ 500 mm	Turning Wa
FB13M-2R^{ac}	1.300	1.5
FB15M-2R^{ac}	1.500	1.5
FB16M-2R^{ac}	1.600	1.5
FB18M-2R^{ac}	1.800	1.5
FB20M-2R^{ac}	2.000	1.5

The Komatsu Forklift range of 48V and 80V electric counterbalanced trucks are suitable for heavy-duty indoor or outdoor applications with loads of up to 3 tons. Compact yet stable, these trucks offer strength and maneuverability for use in small spaces. Equipped with hydraulic power steering, an easily legible display and proportional hydraulic levers, they meet all requirements for comfort. The logic, CANbus technology and motors guarantee high levels of performance.



WHEELER

80 V - 4 WHEELER

48VOLT 3-WHEELER				BE-3R						80VOLT 4-WHEELER			
Radius (mm)	Battery Voltage/Capacity Volt/Ah	Max Lift Height mm	Max Speed Km/h	Model	Rated Capacity Kg @ 500 mm	Turning Radius Wa (mm)	Battery Voltage/Capacity Volt/Ah	Max Lift Height mm	Max Speed Km/h				
361	48/465	6.970	14	FB22H-3R ^{ac}	2.200	1886	80/560	6725	20				
469	48/400-500	6.970	14	FB25H-3R ^{ac}	2.500	1886	80/560	6725	20				
469	48/640	6.970	14	FB25HG-3R ^{ac}	2.500	2030	80/625	6725	20				
577	48/575-625	6.970	14	FB30H-3R ^{ac}	3.000	2030	80/625	6725	20				
722	48/750	6.865	14										

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AM-2R^{ac} & AE-2R^{ac}

3 AND 4 WHEELER 48 VOLT

your **COMFORT...**

your **KOMATSU**



Ample selection of seats

The Komatsu suspension seat is a standard feature on the BE-3R while the Grammer MS65 seat is available as an option for those who want the best. The Grammer MSG20 seat is also available on the 48Volt series.



Accessibility

Climbing in and out of the truck has never been easier thanks to the wide step, solid handle and the ability to access it from both sides.



Ample selection and optimal visibility

The masts are available in the Simplex, Duplex and Triplex versions and all ensure optimal visibility of the forks and rigidity at the maximum height. An integrated sidsifter and fork positioner are optional, as well as any other accessory you may need.



Ample selection of cabs

Komatsu offers numerous solutions for open cabs with rigid or curtained doors for working in cold stores and outdoors.



Easy and adaptability

The displays are back-lit and easy to use; a standard feature, they indicate the battery state of charge, the controls that have been activated and, depending upon the model, the operator can use the display to choose different work programs, change the maximum speed or indicate the position of the rear wheels.



Ergonomy

The operator cab has been specifically designed to be simple and intuitive in accordance with the most common ergonomics and safety guidelines.

Compactness = Savings

At the top of their class, the 80Volt models are 4-wheelers, but they turn like 3-wheelers! Less room for turning = more space for pallets.



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AM-2R^{ac} & AE-2R^{ac}

3 AND 4 WHEELER 48 VOLT



ON-BOARD COMFORT

THE PLEASURE OF WORKING

The truck has been designed and constructed with operator comfort in mind, leading to a very productive, stress-free working day.

The hydraulic power steering makes driving easy regardless of the weight being handled. The spacious and comfortable operator area is equipped with ergonomic, proportional hydraulic levers and a simple, intuitive LCD display which allows choosing among different programs and it shows malfunction warnings. The truck can be equipped with directional pedals or levers and a vast array of options such as the cab and the joystick to meet the needs of the customer.



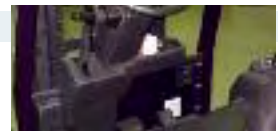
Ergonomics and confort

The ergonomic controls, silent operation and spacious and comfortable environment with a standard Grammer MSG20 seat make this truck ideal for heavy-duty use.



Choise of controls

The operator has the option of changing direction by means of the dual pedals or a lever located to the left of the steering wheel.



Display

The LCD display is legible in every condition and it is part of the logic that allows the operator to manage and enter the truck and safety parameters, such as the highest rate of speed or the speed when curving.



Hydraulic levers

These controls are ergonomic and light. The lift function lever is proportional for greater precision while the tilt and side shifter are controlled by Reed sensors, ensuring gentle, precise movements with utmost reliability.



Visibility

The Komatsu Forklift masts guarantee excellent visibility even when the side shifter is installed, plus great rigidity and strength.



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3 AND 4 WHEELER 48 VOLT





AGILITY STRENGTH SAFETY

CONTROLLED POWER

Driving is easy due to the truck's gradual acceleration and regenerative braking system. They perform well over long distances where power and responsiveness are required, and in tight spaces where precision and gentle handling are essential. Work cycles are reduced due to the agility, power and safety of the CANbus-controlled truck which is reliable and inexpensive to maintain. The Mosfet technology of the controller, reliability of the motors, rigidity and strength of the masts and the solid frame increase performance and render driving much easier.

Traction motors

The top quality AC traction motors are solid and reliable, delivering plenty of torque with reduced energy consumption and virtually no maintenance costs.



Evolved logic

The new logic controls the truck dynamics and the operator controls by delivering power to the motors in a smooth and precise manner, allowing it to meet the strictest safety and productivity requirements.

Frame and battery

The redesigned frame created with CAD is solid, strong and stable, with fewer welds and featuring a battery cover made of steel. The battery is quick and easy to remove.



Rigid masts

The extremely rigid masts and built-in side shifter ensure optimal handling of the load. A wide range of FV, FFV and TFV up to seven meters high are available.



CAN-BUS technology

The modern CANbus technology guarantees more accurate and quicker data transmission. The reduced number of connecting cables increases the reliability of the truck and reduces maintenance operations and interference.



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BE-3R

80 VOLT AC TECHNOLOGY





COMFORT IS SYNONYMOUS WITH EFFICIENCY THE PLEASURE OF DRIVING

The new BE-3R series satisfies anyone who is driving it: the suspension seats and optimum ergonomics coupled with a floating cab minimize the vibrations transmitted to the driver. The dashboard and controls have been laid out to facilitate and speed up operations and the clever opening of the side panel facilitates battery change operations. Space, comfort and silence are the key elements for a satisfied and productive operator.

Ergonomy

The truck has been built "all around the operator" who can operate the hydraulic controls, the traction direction control pedals or levers and all the accessory controls with ease and precision.



Floating cab

The operator compartment is insulated from the vibrations transmitted by the wheels by means of four rubber supports.



Easy battery changes

The innovative opening of the side panel provides quick access to the compartment and safety when it is closed.



Choice of 4 work programs

Even while the truck is moving, the operator can choose from the Safety, Economy, Personal or Power work programs to find the best one for the situation. Besides the usual operating hours and error indications, the display also indicates the position of the rear wheels, improving the overall safety of operations.

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BE-3R

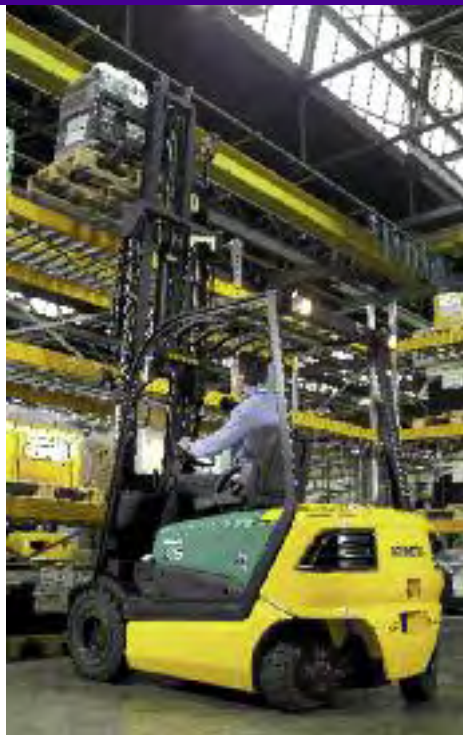
80 VOLT AC TECHNOLOGY



Minimum curving radii



The BE-3R range has the smallest curving radii on the market! The two independent AC motors controlled by the new generation logic via a CAN-BUS system coupled with a rear axle that permits each wheel to rotate 102° versus the traditional systems means that the trucks steer like a 3-wheeler but have the stability of a 4-wheeler!



MAXIMUM SHIFTING AND LIFTING SPEEDS WITH THE MAXIMUM SAFETY

The two 8kW traction motors can drive the truck over 20km/h and together with a 22kW pump motor, lift the load to 4.5 meters (FV) in less than 8 seconds, all possible due to the AC technology, with low battery consumption.

In keeping with the updated combustion engine line and in compliance with ISO3691 requirements, a standard feature on the BE-3R range is the total block of the hydraulic system if the operator is not on board, plus the truck automatically slows down when curving, an effective method to minimize the risk of overturning.

Quick and precise lifting

The proportional controls and the modularity of the motor means that the lifting speed does not subvert the ease with which the forks are positioned, and which always remain completely visible during operations.



Low energy consumption...

... long shifts. The selection of ad hoc work programs, sophisticated control logic and the quality of the parts considerably reduce energy consumption and significantly increase the life of the battery. Batteries up to 800Ah can be used depending upon the model.

Active safety

When the operator is on the ground, the truck enters into stand-by mode and totally blocks the hydraulic system to prevent the load from accidentally moving even while it is being lowered.



The most agile and speedy

Whether you work in tight spaces or over long distances, the BE-3R line will surprise you with its ability to change direction or reach top speed in just a few meters thanks to the powerful torque of the front-end motors and overall control of the powerful regenerative braking system.

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APPLICATIONS



The simple and logical design based on CAN-BUS technology reduces the number of connections, thus rendering the truck safe to use in dusty environments.



The proportional lifting controls facilitate positioning, lifting and unloading operations.



The masts all ensure optimal visibility at any lifting height thanks to the sophisticated, integrated sideshifter.



The trucks, ranging from a capacity of 1300 to 3000 kg, are all agile and compact and thus perfect for indoor and outdoor applications thanks to their travel speed coupled with the small curving radii.



The trucks can be calibrated to tackle a variety of environments by changing the parameters on the display or by means of the service technician.



KOMATSU has one SOLUTION for the numerous REQUIREMENTS

The updated electric truck range offered by Komatsu Forklift
will be a reliable, efficient and economical partner
for all your indoor and outdoor warehouse operations



All the forklifts can move inside trucks and along loading docks.

Perfect visibility and high lifting speeds.



The perfect partner for even the most difficult jobs.



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1.3 to 3.0 tons



LIFT

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