

## State-of-the-Art

*FB-17 Series-Electric Forklift Trucks*

(1.0-3.0 ton counter-balanced models)



## Feedback from Customers



## TCM solutions by four functional breakthroughs



# All Innovative Operators

Large and comfortable continued working hours a desire of customers to use electric forklifts.

They are also looking for more compact truck bodies with more efficient and comfortable maneuverability.

In addition, TCM takes note of the requirement of very frequent handling and unloading to inspect proper handling of cargo by operators.

To ease these operators' constant mental and physical stress, TCM has searched for newly redesigned and upgraded electric forklift trucks (E-TE Series 2) recently to meet ever-changing challenges.

*tions made for  
Comfort*





Newly Launched TCM Electric Forklift Trucks

Four main features provide solutions to ease customers' constraints, being

Overall width

50

Min. turning radius

80

Step height

30

Load height

45

Wheel width

40

Swivel-back  
angle saving

20

Speed maintenance time

15

Continual work hours

30

### Stress-Free Operation Most Compact Body in Its Class

Responding to our customers' needs for a smaller body and easy-to-operate vehicle, TCM revealed the new electric forklift to reduce operators' stress caused by frequent turning within cramped workspaces at warehouses and factories. In particular, as the widths of the new forklifts (1.5 m and less) are shorter than the aisles, they can move vehicles more freely within very narrow workspaces. This naturally contributes to better utilization of total space at workspaces for customers.

- Shortened body width (1720 → 1670mm)
- Min. turning radius, reduced by 80mm (1780 → 1700mm)
- Refined surface of counter-weight panel plate

Compact body



Ready for the path with frequent maneuvering with narrow aisles as well as continuously and efficient equipment.



Turning radius of 1700mm across aisle



Comfort

Operator is allowed to operate for physical tall height, it is a merit.

- Shortened body width (1.5 m and less)

Efficient

Efficient



Compact

Compact

Body are not  
obstructing  
working

New

By adding  
steering  
improve the  
driving  
performance

engaged in cargo handling at warehouses as well as at cramped indoor factories

### Reducing fatigue Easier access! Boarding step and seat

Steeply levelled goods are common in the warehouse, which is tiring for operators. To unload cargo and merchandise, they get off and on the trucks, which leads to more physical fatigue. The new V Series, having that lowest floor and step, reduces physical fatigue by 91% due to much lower foot

ing both step height by 20mm and floor height by 15mm as well as widening the step by 40mm contributes to reduction of physical fatigue!



### Adopted AC motor

By adopting an AC motor, the acceleration of the truck can be stopped much like an AC. Furthermore, torque and speed are substantially saved compared to DC.



### Operation flexibility for various jobs and environments 3 shift modes to support even skilled operator!

Rationalization of material handling requires thorough changes of truck's speed during loading work. The quality of operation varies significantly from fast to slow to handle delicate use. To efficiently conduct these tasks, the V Series electric forklift is equipped with three changeable modes.

- Speed-accelerating time is shortened by 15% while minimizing battery power consumption (Super mode)

#### Speed comparison



### Sufficient Battery Power 8.5-hour operation time per charge

One of the few elements of electric forklifts is operation's concern for recharging battery power. While the previous TCM electric forklift was capable of 8-hour operation, the new V Series forklift can be operated for up to 8.5 hour using a newly adopted low maintenance AC motor. Longer operation time with chargeable operation modes enables price-free thing.



- 0.5 hour longer operation time (based on 50% work ratio)







TCM products are available in New Zealand in compliance with the relevant standards.

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