

# Diesel & LPG Counterbalance FORKLIFT TRUCKS

  
EFFICIENCY

  
COMFORT

  
SAFETY

**TCM**  
Trusted Partner



**TCM**  
Always Evolving

# REDEFINING THE CONCEPT OF EFFICIENCY

# TCM

Especially developed to provide our customers with the most reliable and efficient technology in daily operation, TCM's counterbalanced trucks have been designed to meet the most challenging requirements even in the most demanding environments.



## SAFETY

Integral to our trucks. Standardising safety on our trucks leads to safer working environments with less accidents.



## EFFICIENCY

Industry leading performance. Creating efficiencies utilising new technologies.



## COMFORT

Considering the operator to increase your productivity. Features designed to minimise your total cost of operation.



## Peak productivity

The FD/FGE series provides excellent handling performance. All models feature an excellent operator's environment, that can be individualised through personal settings, to enable the driver to make use of the opportunities the truck provides.

### 1 | TILT LEVELLING

This optional feature improves safety and productivity. With a simple touch of the controls, it brings the forks completely horizontal for quick and easy positioning.

### STABILITY WHILE TURNING

This maintenance-free system enhances the lateral stability of the truck and provides safety during turns.



### 2 | WIDE-VIEW MAST

The way the lift chains are arranged outside the mast channels improves the operator's view. With two full free-lift cylinders to the side, there is nothing to obstruct the field of vision.

### 3 | FLOATING CABIN

A shock-absorbing system efficiently dampens the cab from engine and road vibrations and reduces the operating noise levels.



## Maximum uptime

### 4 | BONNET WITH TWO DAMPERS

The bonnet opens wide because it has two lockable gas dampers.

The floorboard can also be detached easily for better accessibility.



Maximum uptime is crucial for smooth processes in production and logistics. To reduce costly downtime, TCM trucks not only feature robust, powerful technology, they also come equipped with a full range of features that make for low maintenance.



### 5 | DIAGNOSIS MENU

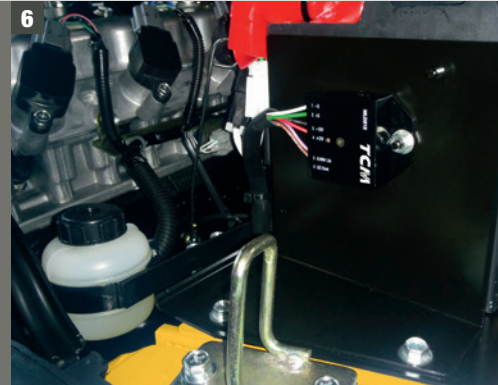
The on-board module is a diagnostics system which integrates self-checks and a dialogue-type function. This allows for easy troubleshooting and less maintenance downtime.

## ECOnomics for a lifetime

Mounted with clean yet powerful engines, the FD/FGE series of forklift trucks provides enhanced environmental friendliness with low emissions and fuel consumption.

### 6 | LPG WARNING SYSTEM

With this system installed, the owner of the LPG forklift truck can save money because the trucks will be able to work longer on one bottle without the risk of running out of LPG, provided the driver responds to the low-fuel alert.

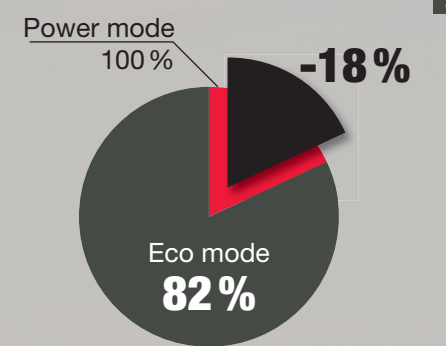


### CLEAN AIR TECHNOLOGY

Extremely low exhaust emissions are achieved by the electronic LPG fuel injection system, contributing to a cleaner and safer environment.

### 7 | ECO MODE

All trucks from the FD/FGE series and the FGE LPG engine come with the Power/Eco mode, which is more eco-friendly because it reduces both fuel consumption and noise levels.



## Prioritising safety and efficiency

### 8 | SAFE AND EFFICIENT OPERATION

Flexible performance functions that enable the driver to adjust the trucks operation to suit the current working environment and application.



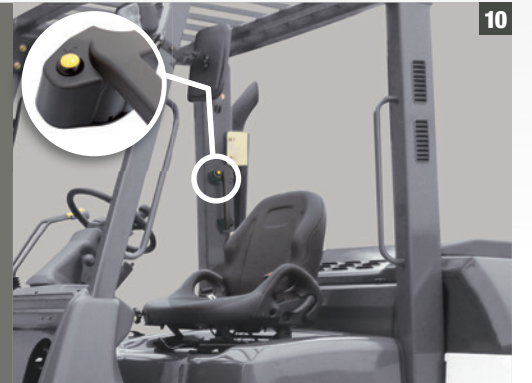
### 9 | FUEL EFFICIENT

For optimal fuel efficiency, the FD series can be quickly and easily switched to run in ECO mode. A possible fuel saving of 11% is possible without sacrificing the trucks operational performance.



### 10 | SAFE AND COMFORTABLE ACCESS

Assist grips for both hands facilitate safe and easy access to the operating area. A further assist grip mounted on the rear overhead guard pillar enables comfortable stable operation when travelling in reverse. The integrated horn push is also close to hand should it be urgently needed.





## OUR DIESEL/LPG TRUCK FAMILY

The TCM Diesel/LPG counterbalance trucks, FD and FGE series, offer high-quality components combined with industry-leading operator ergonomics and truck performance. Our Diesel and LPG family remains the undisputed leader in clean air engine technology. Combined with our tradition of rugged, reliable construction, we ensure more time is spent on the job and less in maintenance. With these model series, we cover a lifting capacity from 1.5 tonnes to 5.0 tonnes. With the optional two-speed transmission for the FD/FGE 35-50 series, we can offer class-leading driving performance.



### FD 60-100 (Diesel Only)

MODEL		FD60-4L	FD60-4	FD70-4L	FD70-4	FD80-4	FD100-4	
LIFT CAPACITY	t	6		7		8	10	
LOAD CENTRE	mm	600						
WHEEL BASE	mm	2300			2500		2800	
TRUCK WIDTH	mm	2005			2175		2245	
TURNING RADIUS	mm	3400		3460		3710	3950	
OVERHEAD GUARD HEIGHT	mm	2550			2660			
ENGINE MANUFACTURER/TYPE		KUBOTA-V3800						
ENGINE RATED POWER ACCORDING TO ISO 1585	kW	55	81	55		81		
RATED ENGINE REVOLUTIONS	rpm	2200	2400	2200		2400		

## FD & FGE 1.5-3.2

MODEL		FD & FGE 15-E1		FD & FGE 18-E1		FD & FGE 20-E1	
		LPG	DIESEL	LPG	DIESEL	LPG	DIESEL
LIFT CAPACITY	t	1.5	1.5	1.75	1.75	2.0	2.0
LOAD CENTRE	mm	500	500	500	500	500	500
WHEEL BASE	mm	1415	1415	1415	1415	1650	1650
TRUCK WIDTH	mm	1080	1080	1080	1080	1155	1155
TURNING RADIUS	mm	1970	1970	2000	2000	2190	2190
OVERHEAD GUARD HEIGHT	mm	2115	2115	2115	2115	2130	2130

MODEL		FD & FGE 15-E1		FD & FGE 18-E1		FD & FGE 20-E1	
		LPG	DIESEL	LPG	DIESEL	LPG	DIESEL
ENGINE MANUFACTURER/TYPE		K21	QD32	K21	QD32	K25	QD32
ENGINE RATED POWER ACCORDING TO ISO 1585	kW	41.5	36	41.5	36	46.9	36
RATED ENGINE REVOLUTIONS	min <sup>-1</sup>	2700	2150	2700	2150	2700	2150

MODEL		FD & FGE 25-E1		FD & FGE 30-E1		FD & FGE 32-E1	
		LPG	DIESEL	LPG	DIESEL	LPG	DIESEL
LIFT CAPACITY	t	2.5	2.5	3.0	3.0	3.2	3.2
LOAD CENTRE	mm	500	500	500	500	500	500
WHEEL BASE	mm	1650	1650	1760	1760	1760	1760
TRUCK WIDTH	mm	1155	1155	1230	1230	1230	1230
TURNING RADIUS	mm	2250	2250	2390	2390	2390	2390
OVERHEAD GUARD HEIGHT	mm	2130	2130	2155	2155	2155	2155

MODEL		FD & FGE 25-E1		FD & FGE 30-E1		FD & FGE 32-E1	
		LPG	DIESEL	LPG	DIESEL	LPG	DIESEL
ENGINE MANUFACTURER/TYPE		K25	QD32	K25	QD32	K25	QD32
ENGINE RATED POWER ACCORDING TO ISO 1585	kW	46.9	36	46.9	36	46.9	36
RATED ENGINE REVOLUTIONS	min <sup>-1</sup>	2700	2150	2700	2150	2700	2150

## FD & FGE 3.5-5.0

MODEL		FD & FGE 40-E1		FD & FGE 40H-E1	
		LPG	DIESEL	LPG	DIESEL
LIFT CAPACITY	t	3.5(4.0)	3.5(4.0)	4.0	4.0
LOAD CENTRE	mm	600(500)	600(500)	600(500)	600(500)
WHEEL BASE	mm	2000	2000	2000	2000
TRUCK WIDTH	mm	1490	1490	1490	1490
TURNING RADIUS	mm	2720	2720	2750	2750
OVERHEAD GUARD HEIGHT	mm	2250*	2250*	2250*	2250*

MODEL		FD & FGE 40-E1		FD & FGE 40H-E1	
		LPG	DIESEL	LPG	DIESEL
ENGINE MANUFACTURER/TYPE		TB45	ZD30	TB45	ZD30
ENGINE RATED POWER ACCORDING TO ISO 1585	kW	71.3	55	71.3	55
RATED ENGINE REVOLUTIONS	min <sup>-1</sup>	2450	2400	2450	2400

MODEL		FD & FGE 45-E1		FD & FGE 50-E1	
		LPG	DIESEL	LPG	DIESEL
LIFT CAPACITY	t	4.5	4.5	5.0	5.0
LOAD CENTRE	mm	600(500)	600	600	600
WHEEL BASE	mm	2000	2000	2150	2150
TRUCK WIDTH	mm	1490	1490	1490	1490
TURNING RADIUS	mm	2800	2800	2935	2935
OVERHEAD GUARD HEIGHT	mm	2250*	2250*	2250*	2250*

MODEL		FD & FGE 45-E1		FD & FGE 50-E1	
		LPG	DIESEL	LPG	DIESEL
ENGINE MANUFACTURER/TYPE		TB45	ZD30	TB45	ZD30
ENGINE RATED POWER ACCORDING TO ISO 1585	kW	71.3	55	71.3	55
RATED ENGINE REVOLUTIONS	min <sup>-1</sup>	2450	2400	2450	2400

\* Overhead guard height with cabin: 2,381mm

TCM offers a broad range of options for maximum customisation. Please ask your dealer.

