



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.



RELIABLE

Proven technology paired with practical features: TCM stands for a unique mixture of customer-oriented solutions you can count on.



DURABLE

Harsh conditions can be a challenge. For TCM trucks, it's their natural habitat. 24 hours a day, 7 days a week.



ECONOMICAL

Balancing economy and environmentally friendly performance in TCM trucks has always been a top priority, facilitating a profitable and energy-efficient deployment of our high-end material handling solutions.



**DIESEL & LPG COUNTERBALANCE
FORKLIFT TRUCKS**

**REDEFINING THE
CONCEPT OF EFFICIENCY**



TCM – A BRAND OF UNICARRIERS CORPORATION
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TCM reserves the right to make any changes without notice concerning colours, equipment or specifications detailed in this brochure, or to discontinue individual models. The colours of vehicles delivered may differ slightly from those in this brochure. The specifications vary for different countries depending on local market conditions. Please consult your local dealer to ensure that the vehicle delivered accords with your expectations. All values are determined based on the standard condition and may vary due to motor and system tolerances, condition of the truck and operational conditions. Some equipment shown on photos is optional.

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Peak productivity

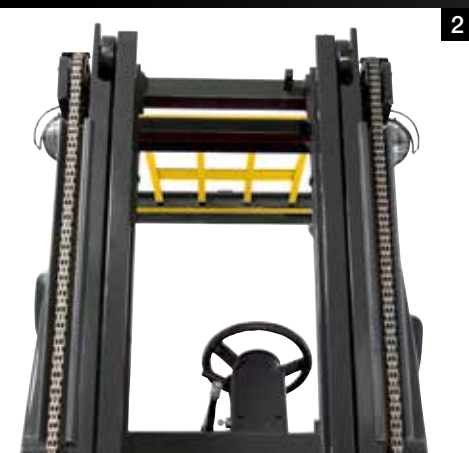
The FD/FGE series provides excellent handling performance. All models feature an excellent operator's environment, that can be individualised through personal settings, to enable the driver to make use of the opportunities the truck provides.

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.



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 & 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 ⁻¹	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 ⁻¹	2700	2150	2700	2150	2700	2150

FD & FGE 3.5-5.0

Model	FD & FGE 35-E1		FD & FGE 40-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 35-E1		FD & FGE 40-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 ⁻¹	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 ⁻¹	2450	2400	2450	2400

* Overhead guard height with cabin: 2,381mm

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.

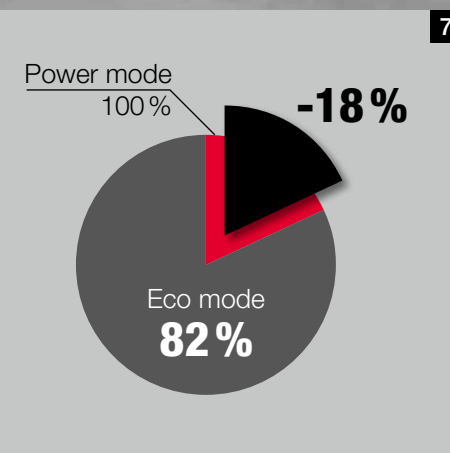


CLEAN AIR TECHNOLOGY

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.



Options

AVAILABLE COLOURS



classic yellow



performance silver
(only available in the UK)

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