

Functional, robust and reliable

Maintenance-free
wet-disc brakes

Optimum visibility
in all directions

Robust Kubota
industrial motors

Ergonomic workstation



TFG 540/545/S50

LPG forklift truck with hydrodynamic drive (torque converter) (4,000/4,500/5,000 kg)

Our robust LPG trucks with torque converter and hydrodynamic drive give you high productivity coupled with high reliability for all transport tasks. The strengths of the hydrodynamic stacker come to the fore over medium and long-distance routes in particular: Smooth, judder-free start-up and optimum efficiency at medium and high speeds.

Tried and tested worldwide, the Kubota industrial motors already ensure high torque at low rpm. The benefit: A reduction in fuel consumption and minimised noise. These robust and particularly reliable motors have been specially designed for use in forklift trucks and have a long service life.

The optimised efficiency of the Jungheinrich drive axle with integrated, wear-free wet-disc brakes represents outstanding reliability and low service costs. The enclosed design of the

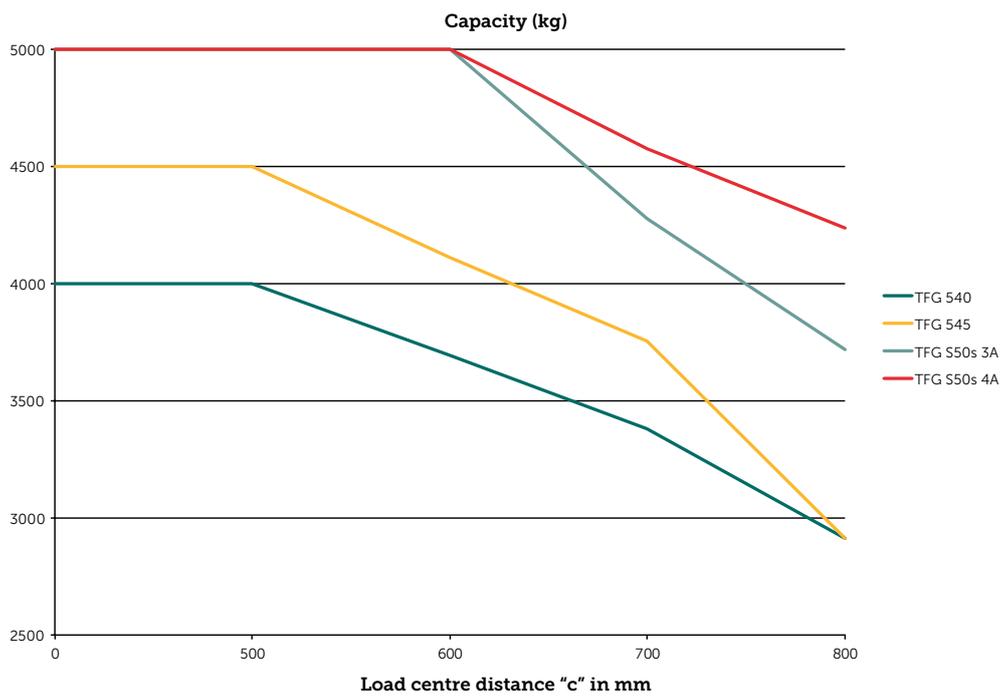
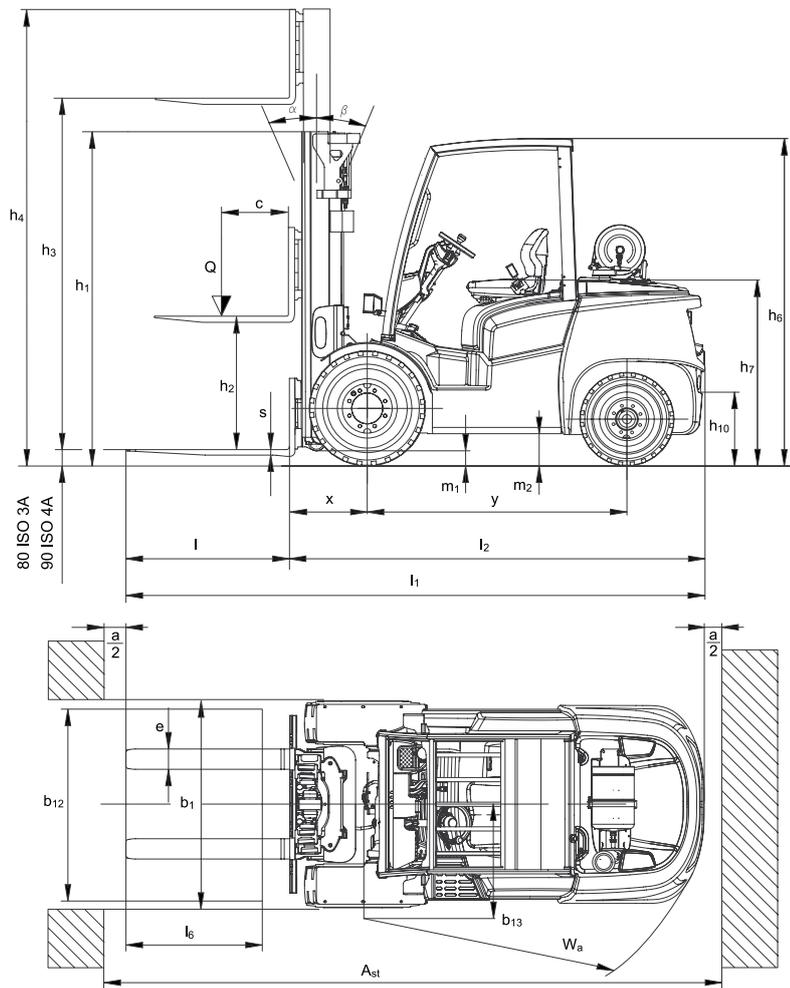
braking system helps protect it by eliminating ingress of water or dust, which is typical in harsh conditions.

The operator's cab is functionally designed with the operator in mind. Visibility in all directions is outstanding. Also contributing to this is the compact mast with its view-optimised chain and hose guide, compact profile nesting as well as two viewing windows in the lift cylinder cross-member. This guarantees focused work and the best conditions for high productivity throughout the shift.

Thanks to the special Jungheinrich counterweight design, the truck's centre of gravity is low and in an ideal physical location between the axles. This results in above-average stability and driving safety for the efficient and safe transport of heavy loads.

**JUNGHEINRICH**

TFG 540/545/S50



Standard mast designs TFG 540/545/S50

	Lift h_3 (mm)	Lowered mast height h_1 (mm)		Free lift h_2 (mm)		Extended mast height h_4 (mm)		Mast tilt forward / back α/β (°)	
		TFG 540 / 545	TFG S50	TFG 540 / 545	TFG S50	TFG 540 / 545	TFG S50	TFG 540 / 545	TFG S50
		Duplex ZT	3030	-	2440	-	150	-	4003
	3100	2348	-	150	-	3823	-	6/8	-
	3430	-	2640	-	150	-	4403	-	6/8
	3500	2548	-	150	-	4223	-	6/8	-
	4000	2795	-	150	-	4720	-	6/8	-
	4030	-	2940	-	150	-	5003	-	6/8
	4230	-	3040	-	150	-	5203	-	6/8
	4500	3040	-	150	-	5215	-	6/8	-
	4730	-	3290	-	150	-	5703	-	6/8
	5000	3290	-	150	-	5715	-	6/6	-
	5230	-	3540	-	150	-	6203	-	6/6
	5500	3540	-	150	-	6215	-	6/6	-
	5730	-	3790	-	150	-	6703	-	6/6
	6000	3790	-	150	-	6715	-	6/6	-
	6230	-	4040	-	150	-	7203	-	6/6
	6500	4040	-	150	-	7215	-	6/6	-
Duplex ZZ	2932	-	2323	-	1300	-	3955	-	6/8
	3142	2323	-	1565	-	3900	-	6/8	-
	3332	-	2523	-	1500	-	4355	-	6/8
	3542	2523	-	1765	-	4300	-	6/8	-
	3825	-	2770	-	1747	-	4848	-	6/8
	4035	2770	-	2012	-	4793	-	6/8	-
	4185	-	2950	-	1927	-	5208	-	6/8
	4395	2950	-	2192	-	5153	-	6/8	-
	4885	-	3300	-	2277	-	5908	-	6/6
	5095	3300	-	2542	-	5853	-	6/6	-
	5314	-	3515	-	2492	-	6337	-	6/6
	5524	3515	-	2757	-	6282	-	6/6	-
Triplex DZ	4400	2223	-	1465	-	5158	-	6/8	-
	4420	-	2323	-	1300	-	5443	-	6/8
	4720	-	2423	-	1400	-	5743	-	6/6
	5000	2423	-	1665	-	5758	-	6/6	-
	5220	-	2590	-	1567	-	6243	-	6/6
	5500	2590	-	1832	-	6258	-	6/6	-
	5750	-	2770	-	1747	-	6773	-	6/6
	6000	2770	-	2012	-	6758	-	6/6	-
	6280	-	2950	-	1927	-	7303	-	6/6
	6500	2950	-	2170	-	7280	-	6/6	-
	6780	-	3120	-	2097	-	7803	-	6/6
	7000	3120	-	2350	-	7770	-	6/6	-
	7320	-	3300	-	2277	-	8343	-	6/6
	7500	3300	-	2490	-	8310	-	6/6	-

Technical data in line with VDI 2198

			Jungheinrich			
			TFG 540	TFG 545	TFG 550	
Identification	1.1	Manufacturer (abbreviation)		Jungheinrich		
	1.2	Model		TFG 540	TFG 545	TFG 550
	1.3	Drive		LPG		
	1.4	Manual, pedestrian, stand-on, seated, order picker operation		seat		
	1.5	Load capacity/rated load	Q t	4	4.5	5
	1.6	Load centre distance	c mm	500	500	600
	1.8	Load distance	x mm	564	564	579
	1.9	Wheelbase	y mm	1,850	1,925	2,000
	Weights	2.1	Net weight	kg	6,090	6,480
2.2		Axle loading, laden front/rear	kg	8,950 / 1,140	9,780 / 1,200	10,930 / 1,430
2.3		Axle loading, unladen front/rear	kg	2,650 / 3,440	2,790 / 3,690	2,980 / 4,380
Wheels / frame	3.1	Tyres		Pneumatic		
	3.2	Tyre size, front	mm	300-15		
	3.3	Tyre size, rear	mm	7.00-12		
	3.5	Wheels, number front/rear (x = driven wheels)		2x/2		
	3.6	Tread width, front	b ₁₀ mm	1,160		
	3.7	Tread width, rear	b ₁₁ mm	1,150		
	Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β °	6/8	
4.2		Mast height (lowered)	h ₁ mm	2,240	2,240	2,348
4.3		Free lift	h ₂ mm	150		
4.4		Lift	h ₃ mm	2,900	2,900	2,846
4.5		Extended mast height	h ₄ mm	3,615	3,615	3,819
4.7		Height of overhead guard	h ₆ mm	2,330		
4.8		Seat height/standing height	h ₇ mm	1,245		
4.12		Coupling height	h ₁₀ mm	535		
4.19		Overall length	l ₁ mm	4,120	4,250	4,320
4.20		Length to face of forks	l ₂ mm	2,970	3,100	3,170
4.21		Overall width	b ₁ /b ₂ mm	1,445		
4.22		Fork dimensions	s/e/l mm	50 / 125 / 1,150	50 / 150 / 1,150	60 / 150 / 1,150
4.23		Fork carriage ISO 2328, class/type A, B		3A	3A	4A
4.24		Fork carriage width	b ₃ mm	1,260		
4.31		Floor clearance with load under mast	m ₁ mm	165	160	155
4.32		Ground clearance, centre of wheelbase	m ₂ mm	205	200	200
4.33		Aisle width for pallets 1000 x 1200 crossways	Ast mm	4,439	4,514	4,601
4.34	Aisle width for pallets 800 x 1200 lengthways	Ast mm	4,639	4,714	4,801	
4.35	Turning radius	W _a mm	2,675	2,750	2,822	
4.36	Smallest turning radius	b ₁₃ mm	830	865	900	
Performance data	5.1	Travel speed, laden/unladen	km/h	18 / 19	18 / 18	18 / 18
	5.2	Lift speed, laden/unladen	m/s	0.53 / 0.55		
	5.3	Lowering speed, laden/unladen	m/s	0.55 / 0.45		
	5.5	Drawbar pull, laden/unladen	N	23,500 / 23,500		
	5.7	Gradeability, laden/unladen	%	23.5 / 41	21.5 / 38	19 / 30
	5.9.2	Acceleration time laden/unladen to 15 m	S	5.2 / 4.6	5.4 / 4.7	5.7 / 4.9
	5.10	Service brake		hydraulic		
5.11	Parking brake		hydraulic			
Combustion engine	7.1	Motor manufacturer/type		Kubota WG3800		
	7.2	Engine output according to ISO 1585	kW	64		
	7.3	Rated speed	/min	2,200		
	7.4	No. of cylinders		4		
	7.4.1	Cubic capacity	cm ³	3,769		
	7.5	Fuel consumption as per EN 16796	kg/h	5.6	6	6.5
		CO- Equivalent as per EN 16796	kg/h	19	20.3	22
Misc.	8.1	Type of drive control		hydrodynamic		
	8.2	Working pressure for attachments	bar	230		
	8.3	Oil flow for attachments	l/min	40		
	8.4	Sound pressure level at operator's ear as per EN 12053	dB (A)	82		
	8.6	Steering		hydraulic		



Standard equipment:

- Operator cab entry handle on upright of overhead load guard.
- Strut roof.
- Overhead guard isolated against vibrations.
- Demand-driven hydraulic steering with load sensing technology.
- Tilt-adjustable steering column.
- Travel direction lever mounted on steering column.
- Individual hydraulic levers on the panel wall.
- Instrumentation with glare-free display for operating hours. Indicator lamps for motor oil pressure, coolant temperature, battery charge, parking brake, transmission oil temperature, brake fluid level, neutral display.
- Acoustic warning signal for significant increase in coolant temperature.
- MSG20 simulated leather seat with automatic lap belt and mechanical cushioning. Setting options: Longitudinal adjustment, backrest tilt and weight adjustment (up to 130 kg).
- Functional storage compartments suitable for everyday use including a drink holder.
- Noise and vibration-reducing rubber floor mat.
- Standard automotive pedal layout.
- Wet maintenance-free disc brakes with electric parking brake.
- Two front halogen spotlights and two brake/rear lights on rear counterweight.
- Hydraulic control valve incorporating load sensing technology.
- Full-flow hydraulic oil filtration with suction and return filter for maximum oil purity.
- Heavy-duty cyclonic air cleaner.
- 1-stage gear.
- Oil cooler for torque converter and transmission oil.
- Closed cooling system (pressure system).
- Trailer coupling (tiller bracket) with shunting bar on counterweight.
- Full-length belly plate.

Benefit from the advantages



Entry via a deep, wide step. Large, strong grab handle welded to the overhead guard



Display in the operator's field of vision



Automotive pedal configuration with non-slip surface



Optimum view of the load thanks to lift mast design giving ideal visibility

Powerful and efficient drive concept

- Proven industrial motors from Kubota for tough applications.
- High torque at low speeds.
- Engine timing via inclined spur-toothed wheels.
- Motors with low emissions.

Ergonomic operator workstation

- Best visibility in all directions thanks to optimised design of roof, rear and panel wall.
- Generous knee and legroom thanks to slim and easily adjustable steering column.
- Effortless operation with hydraulic power-assisted steering.
- Comfortable operator seat with excellent suspension and numerous adjustment options.
- Low vibrations experienced by the operator as overhead guard is isolated against vibrations.

Mast and hydraulics

- Smooth transitions provided by the mast cushioning system.
- High residual capacity at high lift heights.
- Optimum view of the load thanks to lift mast design giving ideal visibility.
- Compact section nesting.
- Hydraulic hoses routed for optimum visibility.
- Viewing window in the free lift cylinder cross-member for safe work at higher racking levels.

Jungheinrich drive axle with maintenance-free wet-disc brakes

- Axle concept with optimised efficiency for low fuel consumption.

- Largely maintenance-free multi-disc brakes immersed in an oil bath.
- No negative effect on braking due to the enclosed design

Uncoupled power train

Improved operator comfort and reduction of human vibrations to a minimum through:

- Floating drive unit.
- Drive shaft combination with universal joints.

Closed high-performance cooling system with combi cooler

- Heavy-duty combi cooler with full aluminium design for motor coolant, converter and transmission oil.
- Easy cleaning due to vertical arrangement of cooling elements.
- Prevention of coolant evaporation due to completely closed pressurised system.

Ease of service

- Optimum access to motor compartment due to 90° opening and L-shaped cover.
- Side sections and floor plate easily detachable without the need for tools.
- Simple, fast and cost-effective maintenance – without expert knowledge.
- Use of sturdy, high-quality components.
- Oil change interval of 500 operating hours

Reliable, heavy-duty electrical equipment

- Splash-proof electrics, plug and connections.

- Easily accessible at all times, compact fuse box on the panel wall in the operator compartment.

High-mounted fully floating axle

- High passive safety and driving stability even during dynamic travel thanks to reduced pendulum motion and high pivot point of the steering axle.

Optimised counterweight design

- Displacement of the centre of gravity downwards and forwards due to counterweight design.
- Low centre of gravity optimally positioned between the axles.

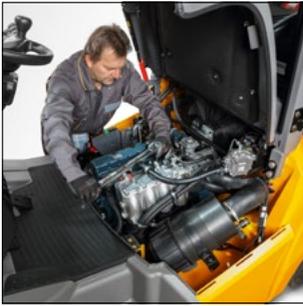
Additional comfort equipment

- Windscreen and rear window made of single-pane safety glass.
- Overhead roof panel made of laminated safety glass.
- Heated rear window (with vertical sliding window).
- Heating including windscreen demisters.
- Panoramic interior mirror.
- Multifunction armrest with integrated hydraulic controls.

Benefit from our safety and environmental advantages:

- Automatic hydraulic and travel interlock when the operator leaves the seat: All hydraulic functions and travel are only possible when the seat is occupied.
- Acoustic warning when the operator's seat is vacated without applying the parking brake.
- Transmission is automatically placed into neutral as soon as the operator leaves the truck.

Benefit from the advantages



Simple, fast and affordable maintenance



Side sections are easily detachable without tools



Electrically applied parking brake, easily operated at the push of a button



Heating including air demister for windscreen

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The German production facilities in Norderstedt, Moosburg and Landsberg are certified. **ISO 9001**
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.



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