

Hydrostatic drive for excellent drive comfort and productivity

Low fuel consumption

Generously designed operator workplace

Excellent stability during travel due to extremely low centre of gravity and high pivot steer axle

Driver assistance systems (optional)



## DFG/TFG 540s/545s/550s/S50s

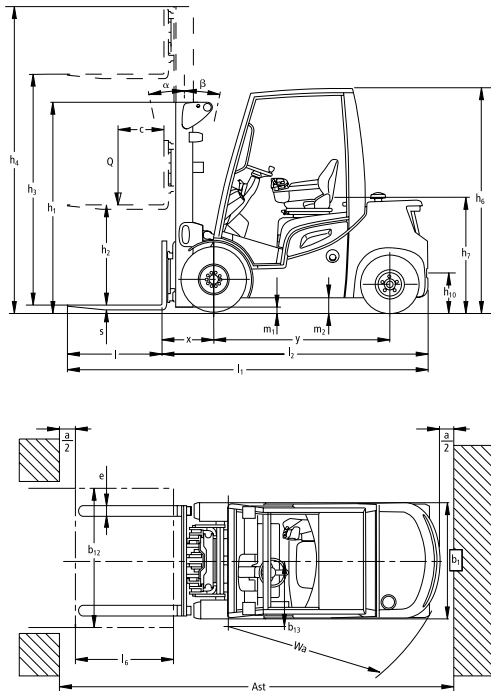
**Diesel and LPG counterbalanced trucks with hydrostatic drive  
(4,000/4,500/4,990/5,000 kg)**

Jungheinrich Diesel and LPG counterbalanced trucks with hydrostatic drive give a productivity particularly in shuttle operations (e.g. trailer and loading bay operations). The power of this drive technology is demonstrated to full advantage: high acceleration, rapid direction changes and precise driving characteristics. With 5 operating programmes, the performance characteristics can be adapted to the requirements of numerous varied applications.

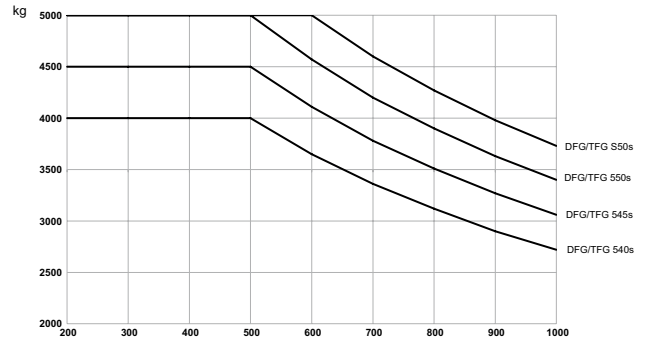
State-of-the-art engines from the automotive industry give precise operation and optimum productivity combined with low fuel consumption minimised by their electronic control systems. All engines have low exhaust emissions and comply with at least the current EU regulations. The diesel truck is fitted with a diesel particle filter as standard. A closed-loop three-way catalytic converter is available as an option for the LPG trucks. The workplace is optimally laid out with

the operator in mind. It provides safety, protects the operator's health and ensures relaxed and concentrated operation – the best basis for high productivity throughout the shift. The roof panel, made out of safety glass, offers ideal protection against foul weather and small falling objects. The improved lighting level makes for a more pleasant working environment and helps make loading and unloading operations quicker and safer.

# DFG/TFG 540s/545s/550s/S50s



Capacity



Load centre distance "c" in mm

Standard mast types DFG/TFG 540s - S50s										
	Lift h3 (mm)	Lowered mast height h1 (mm)	Free lift h2 (mm)	Extended mast height h4 (mm)	Mast tilt forward / back $\alpha/\beta$ (°)	Lift h3 (mm)	Lowered mast height h1 (mm)	Free lift h2 (mm)	Extended mast height h4 (mm)	Mast tilt forward / back $\alpha/\beta$ (°)
	DFG/TFG 540s/545s					DFG/TFG 550s/S50s				
Duplex ZT	2020	1800	150	2735	6/8	2020	1800	150	2883	6/8
	2750	2165	150	3465	6/8	2750	2165	150	3613	6/8
	3000	2290	150	3715	6/8	3000	2290	150	3863	6/8
	3500	2540	150	4215	6/8	3500	2540	150	4363	6/8
	3750	2665	150	4465	6/8	4000	2790	150	4863	6/8
	4000	2790	150	4715	6/8	4500	3040	150	5363	6/8
	4500	3040	150	5215	6/8	5000	3290	150	5863	6/6
	5000	3290	150	5715	6/6	5500	3540	150	6363	6/6
	5500	3540	150	6215	6/6	6000	3790	150	6863	6/6
	6000	3790	150	6715	6/6	6500	4040	150	7363	6/6
Duplex ZZ	2775	2140	1375	3540	6/8	2725	2140	1225	3640	6/8
	3025	2265	1500	3790	6/8	2975	2265	1350	3890	6/8
	3525	2515	1750	4290	6/8	3475	2515	1600	4390	6/8
	4025	2765	2000	4790	6/8	3975	2765	1850	4890	6/8
	4525	3015	2250	5290	6/8	4475	3015	2100	5390	6/8
	5025	3265	2500	5790	6/6	4975	3265	2350	5890	6/6
	5525	3515	2750	6290	6/6	5475	3515	2600	6390	6/6
Triplex DZ	4150	2140	1375	4915	6/8	3930	2100	1185	4845	6/8
	4525	2265	1500	5290	6/8	4050	2140	1225	4965	6/8
	4855	2375	1610	5620	6/6	4425	2265	1350	5340	6/8
	5275	2515	1750	6040	6/6	5175	2515	1600	6090	6/6
	5650	2640	1875	6415	6/6	5550	2640	1725	6465	6/6
	6025	2765	2000	6790	6/6	5925	2765	1850	6840	6/6
	6400	2890	2125	7165	6/6	6200	2855	1940	7110	6/6
	6775	3015	2250	7540	6/6	6675	3015	2100	7590	6/6
	7030	3100	2335	7795	6/6					
	7180	3150	2385	7945	6/6					

# Technical data in line with VDI 2198

		Jungheinrich									
Identification	1.1	Manufacturer (short form)		DFG 540s	DFG 545s	DFG 550s	DFG 550s	TFG 540s	TFG 545s	TFG 550s	TFG 550s
	1.2	Model		Diesel	Diesel	Diesel	Diesel	LPG	LPG	LPG	LPG
	1.3	Drive		seat							
	1.4	Manual, pedestrian, stand-on, seated, order picker operation									
1.5	Load capacity/rated load	Q t	4	4.5	4.99	5	4	4.5	4.99	5	
1.6	Load centre distance	c mm	500	500	500	600	500	500	500	600	
1.8	Load distance	x mm	564 <sup>1)</sup>	564 <sup>1)</sup>	564 <sup>1)</sup>	579 <sup>1)</sup>	564 <sup>1)</sup>	564 <sup>1)</sup>	564 <sup>1)</sup>	579 <sup>1)</sup>	
1.9	wheelbase	y mm	1970	1970	1970	2000	1970	1970	1970	2000	
Weights	2.1	Service weight	kg	6310	6550	7200	7400	6360	6600	7250	7450
	2.2	Axle load, w. load, front / rear	kg	9050 / 1260	9660 / 1390	10940 / 1260	10900 / 1500	9070 / 1290	9680 / 1420	10960 / 1290	10920 / 1530
	2.3	Axle load, w.o. load, front / rear	kg	2920 / 3390	2730 / 3820	3240 / 3960	3000 / 4400	2950 / 3410	2760 / 3840	3270 / 3980	3030 / 4420
Wheels / chassis	3.1	Tyres		SE							
	3.2	Tyre size, at front	mm	8.25-15	300-15	300-15	300-15	8.25-15	300-15	300-15	300-15
	3.3	Tyre size, at rear	mm	28x9-15							
	3.5	Wheels, number front/rear (x = driven wheels)		2x/2							
	3.6	Track width, front	b <sub>10</sub> mm	1195	1160	1160	1160	1195	1160	1160	1160
	3.7	Track width, rear	b <sub>11</sub> mm	1150							
	Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta$ °	6/8						
4.2		mast height (lowered)	h <sub>1</sub> mm	2540							
4.3		Free lift	h <sub>2</sub> mm	150							
4.4		Lift	h <sub>3</sub> mm	3500							
4.5		Extended mast height	h <sub>4</sub> mm	4215	4215	4365	4365	4215	4215	4365	4365
4.7		Height of overhead guard	h <sub>6</sub> mm	2405							
4.8		Seat height/stand height	h <sub>7</sub> mm	1230							
4.12		Coupling height	h <sub>10</sub> mm	510							
4.19		Overall length	l <sub>1</sub> mm	4145	4220	4240	4310	4145	4220	4240	4310
4.20		Length incl. back of forks	l <sub>2</sub> mm	2995	3070	3090	3160	2995	3070	3090	3160
4.21		Total width	b <sub>1</sub> /b <sub>2</sub> mm	1450							
4.22		fork dimensions	s/e/l mm	50 / 125 / 1150	50 / 150 / 1150	50 / 150 / 1150	60 / 150 / 1150	50 / 125 / 1150	50 / 150 / 1150	50 / 150 / 1150	60 / 150 / 1150
4.23		Fork carriage ISO 2328, class/type A, B		3A	3A	3A	4A	3A	3A	3A	4A
4.24		fork carriage width	b <sub>3</sub> mm	1260							
4.31		floor clearance with load under mast	m <sub>1</sub> mm	175							
4.32		Floor clearance centre wheelbase	m <sub>2</sub> mm	200							
4.33	Aisle width for pallets 1000 x 1200 sideways	A <sub>st</sub> mm	4405	4465	4475	4530	4405	4465	4475	4530	
4.34	Aisle width for pallets 800 x 1200 lengthways	A <sub>st</sub> mm	4605	4665	4675	4730	4605	4665	4675	4730	
4.35	turning radius	W <sub>a</sub> mm	2640	2700	2710	2750	2640	2700	2710	2750	
4.36	Smallest pivot point distance	b <sub>13</sub> mm	730								
Performance data	5.1	Travel speed, w. / w.o. load	km/h	21							
	5.2	Lift speed, w. / w.o. load	m/s	0.53 / 0.56	0.51 / 0.55	0.49 / 0.53	0.49 / 0.53	0.53 / 0.56	0.51 / 0.55	0.49 / 0.53	0.49 / 0.53
	5.3	Lower speed, w. / w.o. load	m/s	0.57 / 0.54							
	5.5	Drawbar pull w. / w.o. load	N	23000	22000	22000	22000	23000	22000	22000	22000
	5.7	Gradeability laden/unladen	%	25 / 27	23 / 26	22 / 26	21 / 25	25 / 27	23 / 26	22 / 26	21 / 25
	5.9	Acceleration time w. / w.o. load	S	5.7 / 5	6 / 5.2	6 / 5.2	6.2 / 5.5	5.7 / 5	6 / 5.2	6 / 5.2	6.2 / 5.5
	5.10	Service brake		hydrostatic							
5.11	parking brake		Automatic activated multi disc brake								
Combustion engine	7.1	Motor manufacturer / type		VW / 2,0 CR	VW / 2,0 CR	VW / 2,0 CR	VW / 2,0 CR	VW / 3,6VR6	VW / 3,6VR6	VW / 3,6VR6	VW / 3,6VR6
	7.2	motor output according to ISO 1585	kW	55	55	55	55	59	59	59	59
	7.3	rated revolutions per minute	/min	2700							
	7.4	No. of cylinders		4	4	4	4	6	6	6	6
	7.4.1	cubic capacity	cm <sup>3</sup>	1968	1968	1968	1968	3597	3597	3597	3597
	7.5	fuel consumption acc. to VDI cycle	l/h	4.4	4.8	5	5.2				
7.5.1	fuel consumption acc. to VDI cycle	kg/h					4.3	4.5	4.7	4.8	
Misc.	8.1	type of drive control		hydrostatic							
	8.2	working pressure for attachments	bar	170							
	8.3	oil flow for attachments	l/min	48							
	8.4	Sound pressure level at operator's ear according to EN 12053	dB (A)	77	77	77	77	78	78	78	78
	8.5	Trailer coupling, model/type DIN		DIN 15170 Typ H							

<sup>1)</sup> +10 mm with DZ mast

# Benefit from the advantages



Maximum throughput



Comfort and productivity promoting workplace



VW engines with low energy consumption



Outstanding all-round visibility

## Ergonomic operator workplace

- Easy and safe access due to a large step easily visible from above.
- Floating Cab: vibration isolation with damped power train mountings and operator workplace module.
- Height and rake adjustable, slim steering column with memory function.
- Easy entry to the cab: the steering column tilts forward by means of a simple pull on the memory function lever.
- Excellent all-round visibility due to special roof and scuttle design.
- The special roof and scuttle designs including a strut-free safety glass roof panel ensuring excellent all-round visibility.
- SOLO-PILOT, Comfort Display and operating console are integrated into the right hand armrest and are particularly easy to operate and read.

## Assistance systems

- Deactivation of hydraulic functions if seat is unoccupied.
- No uncontrolled roll-back on ramps or inclines due to the automatic parking brake, even with the engine switched off.
- Excellent stability due to extremely low centre of gravity and high pivot steer axle.

A range of optional driver assistance systems provide even more safety for the operator, the forklift and the load:

- Access Control: Allows operation of the forklift only if "seat occupied" and "safety belt locked" recognition are activated in a defined sequence.
- Drive Control: Automatic travel speed reduction when cornering. Additional travel speed reduction occurs with lift heights in excess of approx. 1.500 mm.
- Lift Control (includes "Drive Control"): Automatic mast tilt speed reduction occurs with lift heights in excess of approx. 1.500 mm. Tilt angle is displayed via an individual display unit.

## Handling efficiency and drive characteristics

Key advantages of hydrostatic drive:

- Electronic control for precise adjustment of drive and hydraulic functions.
- Optimum handling performance particularly in shuttle operations.
- 5 electronically selectable operating programmes ensure optimum performance parameters for every application.
- Automatic engine speed increase during lifting and lowering.
- Optional double pedal operation.
- Low maintenance costs due to direct drive without wearing parts, such as clutch, differential and gears.

## Intelligent electronics

- Splash-proof electronic drive and hydraulic controllers (IP 64) in CAN-Bus design.
- Electronically controlled motors.

- TFG with maintenance-free, electronic ignition system.
- Sensitive adjustment of hydraulic functions via electromagnetic valves.

## Brakes

The hydrostatic drive allows completely wear free braking:

- Frequent brake pedal operation is no longer necessary.
- Parking brake: sprung-loaded laminated oil immersed parking brake as a maintenance-free, enclosed system.
- Safety on ramps: the parking brake is activated automatically when the truck stands still or the engine is switched off.

## Hydraulics

The high performance filter system ensures clean hydraulic oil and a long service life of all components.

- Combined suction and return flow filter system for optimum cold running.
- Hydraulic tank integrated in chassis.
- Ventilation of hydraulic tank via the filter.
- Pressure relief valves protect against excess pressure and overloading.

## Mast

All mast components are designed for optimum visibility, maximum stability and long service life:

- Slender mast profiles with lift cylinders behind for maximum visibility.
- Damping on mast and tilt cylinders for increased handling safety.

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Jungheinrich fork lift trucks meet European safety requirements.



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