

Large capacity industrial engines with high torque and a long service life

Hydrostatic drive unit for fast acceleration and direction changes

Isolated, cushion mounted cab

Oil immersed multi-disk parking brake with automatic operation

Comfortable operator's cab featuring exemplary ergonomics



DFG/TFG 40–50 CS

Diesel and gas forklifts with hydrostatic drive units (4000, 4500, 5000 kg)

Jungheinrich diesel and gas forklift trucks with hydrostatic drive units have an incredible handling capacity. Their strengths come particularly to the fore in applications that require lots of direction changes, such as any continual loading and unloading processes. These strengths include dynamic acceleration, fast reversing and precision control. The driving characteristics can be changed easily via the service laptop.

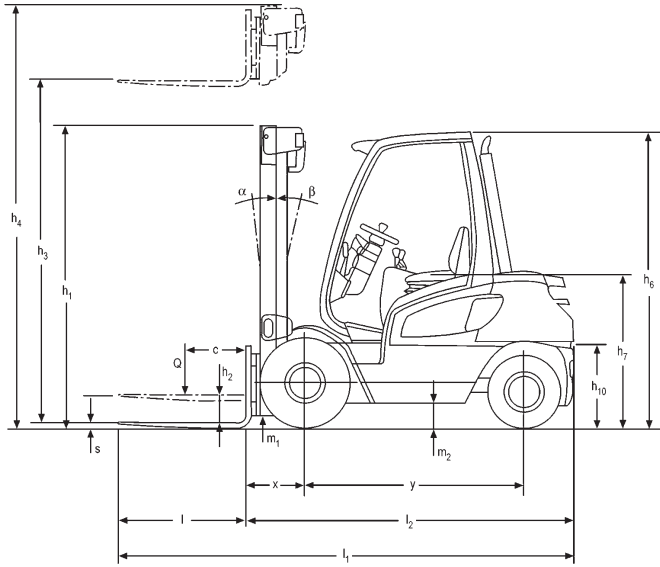
Large capacity industrial engines generate high torque even at low speeds. The benefits of this include lower fuel consump-

tion and minimised noise development. These robust engines are specially designed for use in forklift trucks. That ensures high reliability and a long service life even for tough applications.

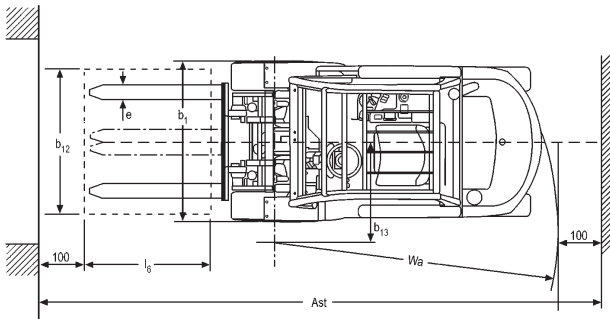
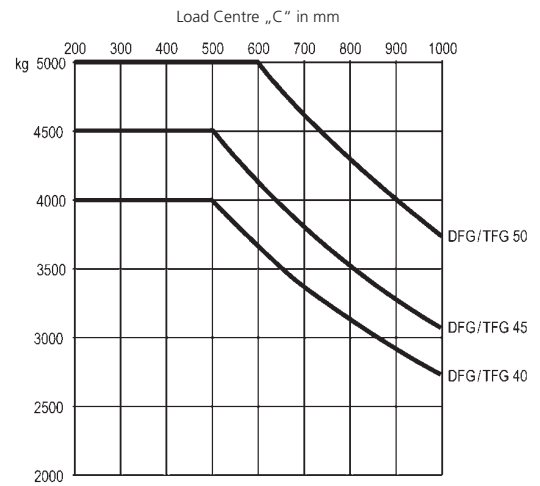
All the engines feature low emissions and comply with the future EU Directives. The gas versions are fitted as standard with a catalytic converter. A closed-loop 3-way catalytic converter (TFG) and various particulate filter systems (DFG) are available as options.

The operator's cab has an ergonomic layout and is designed around the operator. This ensures safety, protects health and enables the operator to concentrate fully on his work whilst being in a relaxed & stress free environment. Overall this ensures maximum productivity for arduous shifts.

DFG/TFG 40–50 CS



Capacity Diagram



Designation	Mast Table DFG/TFG 40–50 CS								Capacity table		
	Lift		Free lift		Closed mast height h ₁ mm	Max. height		Tilt forward/backward α/β (°)	without sideshift, single solid tyres		
	h ₃ mm		h ₂ mm			h ₄ mm			c = 500 mm kg		c = 600 mm kg
	DFG/TFG 40–45 CS	DFG/TFG 50 CS	DFG/TFG 40–45 CS	DFG/TFG 50 CS		DFG/TFG 40–45 CS	DFG/TFG 50 CS		DFG/TFG 40 CS	DFG/TFG 45 CS	DFG/TFG 50 CS
Two-stage ZT	2750	2750	150	150	2165	3450	3600	7/11	4000	4500	5000
	3000	3000	150	150	2290	3700	3850	7/11	4000	4500	5000
	3500	3500	150	150	2540	4200	4350	7/11	4000	4500	5000
	4000	4000	150	150	2790	4700	4850	7/11	4000	4500	5000
	4500	4500	150	150	3040	5200	5350	7/11	4000	4500	5000
	5000	5000	150	150	3290	5700	5850	7/6	4000	4500	5000
	5500	5500	150	150	3540	6200	6350	7/6	4000	4500	5000
	6000	6000	150	150	3790	6700	6850	7/6	4000	4400	4900
6500	6500	150	150	4040	7200	7350	7/6	3800	4300	4740	
Two-stage ZZ	2775	2725	1404	1240	2140	3511	3625	7/11	4000	4500	5000
	3025	2975	1529	1365	2265	3761	3875	7/11	4000	4500	5000
	3525	3475	1779	1615	2515	4261	4375	7/11	4000	4500	5000
	4025	3975	2029	1865	2765	4761	4875	7/11	4000	4500	5000
	4525	4475	2279	2115	3015	5261	5375	7/11	4000	4500	5000
	5025	4975	2529	2365	3265	5761	5875	7/6	4000	4500	4900
5525	5475	2779	2615	3515	6261	6375	7/6	4000	4300	4740	
Three-stage DZ	4150	4050	1390	1240	2140	4900	4950	7/11	4000	4500	5000
	4525	4425	1515	1365	2265	5257	5325	7/11	4000	4500	5000
	5275	5175	1765	1615	2515	6025	6075	7/6	4000	4500	5000
	5650	5550	1890	1740	2640	6400	6450	7/6	4000	4500	5000
	6025	5925	2015	1865	2765	6775	6825	7/6	4000	4500	4780
	6775	6675	2265	2115	3015	7525	7575	7/6	3260	3040	3020

Technical Data in line with VDI 2198 as at: 09/2003

Identification	1.1	Manufacturer	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich	1.1
	1.2	Manufacturer's model designation	DFG 40 CS	TFG 40 CS	DFG 45 CS	TFG 45 CS	DFG 50 CS	TFG 50 CS	1.2
	1.3	Drive: elec., diesel, gasoline, LPG	Diesel	LPG	Diesel	LPG	Diesel	LPG	1.3
	1.4	Driver position: Seated	Rider Seated		Rider Seated		Rider Seated		1.4
	1.5	Capacity/load Q (t)	4		4.5		5		1.5
	1.6	Load centre c (mm)	500		500		600		1.6
	1.8	Distance from CL of front axle to fork face x (mm)	564		564		579		1.8
	1.9	Wheel base y (mm)	1985		1985		1985		1.9
	Weights	2.1	Weight-unladen kg	6279		6669		7434	
2.2		Axle load laden, front/rear kg	8954/1325		9869/1300		10762/1673		2.2
2.3		Axle load unladen, front/rear kg	2810/3469		2937/3732		2795/4639		2.3
Wheels, Chassis	3.1	Tyre type: SE = Superelastic, L = Pneumatic	SE/SE		SE/SE		SE/SE		3.1
	3.2	Tyre size, front	8.25-15		8.25-15		300-15		3.2
	3.3	Tyre size, rear	28x9-15		28x9-15		28x9-15		3.3
	3.5	Wheels, no. front/rear (x = drive)	2x/2		2x/2		2x/2		3.5
	3.6	Track width, front b ₁₀ (mm)	1180		1180		1170		3.6
	3.7	Track width, rear b ₁₁ (mm)	1160		1160		1160		3.7
	Basic Dimensions	4.1	Tilt of mast/carriage, forward/backward (α/β)	7/11		7/11		7/11	
4.2		Mast height – closed h ₁ (mm)	2540		2540		2540		4.2
4.3		Free lift h ₂ (mm)	150		150		150		4.3
4.4		Lift h ₃ (mm)	3500		3500		3500		4.4
4.5		Mast height – extended h ₄ (mm)	4200		4200		4350		4.5
4.7		Height of overhead guard (cab +15 mm) h ₆ (mm)	2370		2370		2370		4.7
4.8		Seat height/Head clearance (SIP 1000 mm) h ₇ (mm)	1255		1255		1255		4.8
4.12		Coupling height h ₁₀ (mm)	535/700		535/700		535/700		4.12
4.19		Overall length l ₁ (mm)	4145		4145		4245		4.19
4.20		Length to fork face l ₂ (mm)	2995		2995		3095		4.20
4.21		Overall width b ₁ (mm)	1450		1450		1450		4.21
4.22		Fork dimensions (thickness/width/length) s/e/l (mm)	50x125x1150		50x125x1150		60x150x1150		4.22
4.23		Fork carriage to ISO 2328, Class A, B	3A		3A		4A		4.23
4.24		Fork carriage width b ₃ (mm)	1260		1260		1260		4.24
4.31		Ground clearance laden under mast m ₁ (mm)	190		190		190		4.31
4.32		Ground clearance centre of wheel base m ₂ (mm)	230		230		230		4.32
4.33		Aisle width with pallet 1000x1200 transverse (l ₆ x b ₁₂)	4419		4419		4569		4.33
4.34		Aisle width with pallet 800x1200 longitudinal (b ₁₂ x l ₆)	4619		4619		4769		4.34
4.35	Turning radius Wa (mm)	2655		2655		2790		4.35	
4.36	Smallest distance to pivot point b ₁₃ (mm)	900		900		900		4.36	
Performance Data	5.1	Travel speed, laden/unladen km/h	22.2/22.5	21.5/21.5	21.7/22.5	21.5/21.5	21/22.5	21.5/21.5	5.1
	5.2	Lift speed, laden/unladen m/s	0.52/0.53		0.51/0.53		0.50/0.53		5.2
	5.3	Lowering speed, laden/unladen m/s	0.51/0.49		0.51/0.49		0.51/0.49		5.3
	5.5	Drawbar pull, laden/unladen S ₂ 60 min. N	38000/16730	38000/20500	37100/16730	37000/20500	36830/16730	35300/20500	5.5
	5.6	At stall S ₂ 5 min. N							5.6
	5.7	Gradeability, laden/unladen S ₂ 30 min. %	36.8/26.4	36/32.6	33/25	33/30.7	29.6/22.5	27/24.5	5.7
	5.8	max. gradeability, laden/unladen S ₂ 5 min. %							5.8
	5.9	Acceleration time, laden/unladen 10 m s	5.7/5.2	6/5.6	5.0/4.5	6.1/5.6	5.1/4.6	6.2/5.6	5.9
	5.10	Service brake type	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	5.10
	Engine	7.1	Engine manufacturer/type	Perkins1104C-44	GM 4.3 V6	Perkins1104C-44	GM 4.3 V6	Perkins1104C-44	GM 4.3 V6
7.2		Engine output to ISO 1585 kW	61.5	67	61.5	67	61.5	67	7.2
7.3		Rated speed of rotation 1/min	2200		2200		2200		7.3
7.4		Cylinders no./cubic capacity /cm ³	4/4400	6/4294	4/4400	6/4294	4/4400	6/4294	7.4
7.5		Fuel consumption to VDI-cycle l/h, kg	5	6.24	5	6.5	6	6.8	7.5
Other Details	8.1	Transmission type	hydrostatic		hydrostatic		hydrostatic		8.1
	8.2	Working pressure for attachments bar	160		160		160		8.2
	8.3	Oil flow for attachments l/min	30		30		30		8.3
	8.4	Noise level at driver's ear (DIN 45635 Part 36) dB(A)	78		78		78		8.4
	8.5	Trailer coupling type/DIN type	15170/type H		15170/type H		15170/type H		8.5

This specification sheet according to VDI regulations 2198 only provides technical values for the standard truck. Non-standard tyres, different masts, additional equipment, etc. could produce other values. Right reserved for technical changes and improvements.