



Diesel and LPG Forklift Trucks Capacity 5000 – 8000 kg H50, H60, H70, H80, H80/900 SERIES 353

Safety

With loads weighing up to 8,000 kg, safety takes first priority. The Linde Torsion Support proves very advantageous when swaying loads and dynamic forces have to be contended with. As much as 30 % of these forces can be absorbed within the roof structure.

Performance

A truck designed to take care of the really tough tasks. Advanced engine and drive technology combined with actuation of all mast and auxiliary hydraulic functions from the central control lever enables the operator to use the truck's vast potential to maximise productivity.

Comfort

Man and machine are perfectly interfaced on these high-capacity forklifts. Intuitive operation removes the need to shift hands from the steering wheel, control levers or switch feet between pedals allowing the operator to concentrate on the essentials: Allows fast, stress-free working.

Linde Material Handling

Linde

Reliability

Truck structure optimized by the Finite Element Method. Special reinforcing at points of strain contribute to maximum stability and long life.

Productivity

Effective and costefficient at work: The original Linde hydrostatic drive cost does away with gearshift, clutch, differential and drum brakes. As a result, servicing costs are low, truck uptime is high and productivity is enhanced.

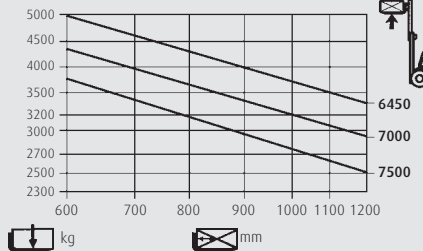
Technical data

Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE
	1.2	Model designation		H50D	H50T	H60D
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Diesel	LPG	Diesel
	1.4	Operation: pedestrian, stand-on, seated, order picker		Seated	Seated	Seated
	1.5	Load capacity	Q (kg)	5000	5000	6000
	1.6	Load centre	c (mm)	600	600	600
	1.8	Axle centre to fork face	x (mm)	590	590	590
	1.9	Wheelbase	y (mm)	2160	2160	2160
Weight	2.1	Service weight	kg	9625	9570	9885
	2.2	Axle load with load, front/rear	kg	12405/2220	12350/2220	14375/1910
	2.3	Axle load without load, front/rear	kg	4635/4990	4600/4970	4675/5210
Wheels and tyres	3.1	Tyres, front/rear (SE = CS superelastic, L = pneumatic)		SE	SE	SE
	3.2	Tyre size, front		300 – 15 ²⁾	300 – 15 ²⁾	355/65 – 15 ²⁾
	3.3	Tyre size, rear		8.25 – 15 ²⁾	8.25 – 15 ²⁾	8.25 – 15 ²⁾
	3.5	Wheels, rumber front/rear (x = driven)		2x/2	2x/2	2x/2
	3.6	Track width, front	b10 (mm)	1612 ⁴⁾	1612 ⁴⁾	1599 ⁴⁾
	3.7	Track width, rear	b11 (mm)	1600	1600	1600
Dimensions	4.1	Mast/fork carriage tilt, forward/backward	α/β (°)	6/10	6/10	6/10
	4.2	Height of mast, lowered	h1 (mm)	2734 ^{1) 5)}	2734 ^{1) 5)}	2734 ^{1) 5)}
	4.3	Free lift	h2 (mm)	150	150	150
	4.4	Lift	h3 (mm)	3550 ¹⁾	3550 ¹⁾	3550 ¹⁾
	4.5	Height of mast, extended	h4 (mm)	4447 ¹⁾	4447 ¹⁾	4447 ¹⁾
	4.7	Height of overhead guard (cabin)	h6 (mm)	2730	2730	2730
	4.8	Height of seat/stand-on platform	h7 (mm)	1432	1432	1432
	4.12	Towing coupling height	h10 (mm)	810	810	810
	4.19	Overall length	l1 (mm)	4595	4595	4595
	4.20	Length to fork face	l2 (mm)	3395	3395	3395
	4.21	Overall width	b1/b2 (mm)	1894 (2262)/1864 ³⁾	1894 (2262)/1864 ³⁾	1948 (2262)/1890 ³⁾
	4.22	Fork dimensions	s/e/l (mm)	60 x 130 x 1200	60 x 130 x 1200	60 x 130 x 1200
	4.23	Fork carriage to DIN 15173, class/form A, B		4A	4A	4A
	4.24	Width of fork carriage	b3 (mm)	1800	1800	1800
	4.31	Ground clearance, mast	m1 (mm)	152	152	153
	4.32	Gound clearance, centre of wheelbase	m2 (mm)	234	234	235
	4.33	Aisle width with pallets 1200 x 1000 across forks	Ast (mm)	4850	4850	4850
	4.34	Aisle width with pallets 800 x 1200 along forks	Ast (mm)	5050	5050	5050
	4.35	Turning radius	Wa (mm)	3060	3060	3060
	4.36	Min. turning radius, front axle	b13 (mm)	975	975	975
Performance	5.1	Travel speed, with/without load	km/h	22/22	22/22	22/22
	5.2	Lifting speed, with/without load	m/s	0.53/0.53	0.51/0.51	0.53/0.53
	5.3	Lowering speed, with/without load	m/s	0.50 /0.50	0.50 /0.50	0.50 /0.50
	5.5	Tractive force with/without load	N	35,000/34,000	35,000/34,000	38,000/36,000
	5.7	Climbing ability, with/without load	%	22/32	22 /32	22/31
	5.9	Acceleration time, with/without load	s	4.6/4.2	5.5/5.1	5.1/4.6
	5.10	Service brake		hydrostatic	hydrostatic	hydrostatic
IC-engine	7.1	Manufacturer of engine /type		Deutz BF6M2012	Perkins 1006.60	Deutz BF6M2012
	7.2	Engine rated power to ISO 1585	kW	75	71	75
	7.3	Rated rpm	min ⁻¹	2200	2100	2200
	7.4	Number of cylinders/Displac. ccm	cm3	6/6060	6/5985	6/6060
	7.5	Fuel consumption to VDI	l/h; kg/h	7.3	7.0	7.7
Others	8.1	Type of drive control		hydrostat. transmission	hydrostat. transmission	hydrostat. transmission
	8.2	Working pressure for attachments	bar	265	265	265
	8.3	Oil quantity for attachments	l/min	70	70	70
	8.4	Mean noise level at driver' ear	dB(A)	78 ⁶⁾	80 ⁶⁾	78 ⁶⁾
	8.5	Towing coupling, design/type		DIN 15170 H	DIN 15170 H	DIN 15170 H
1) For alternative mast refer to table page 3			5) With 150 mm free lift			
2) Further tyres on demand			6) Mean level at drivers ear according to EN 12053. Values are higher compared to a measurement according to DIN 45635 part 36 due to different measurement approach			
3) Figures in brackets refer to twin tyre configuration 8.25 – 15/18 PR						
4) 1748 mm with twin tyres 8.25 – 15						

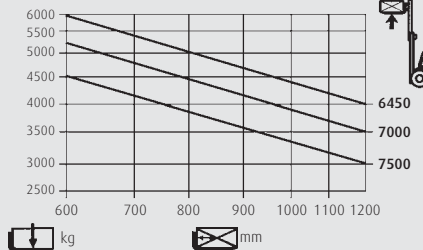
LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE
H 60 T	H 70 D	H 70 T	H 80 D	H 80 T	H 80 D/900	H 80 T/900
LPG	Diesel	LPG	Diesel	LPG	Diesel	LPG
Seated	Seated	Seated	Seated	Seated	Seated	Seated
6000	7000	7000	8000	8000	8000	8000
600	600	600	600	600	900	900
590	600	600	600	600	630	630
2160	2160	2160	2160	2160	2510	2510
9830	11150	11095	11935	11880	13555	13500
13940/1890	15910/2240	15875/2220	17425/2510	17390/2490	19320/2235	19280/2220
4640/5190	5030/6120	4995/6100	4990/6945	4955/6925	6440/7115	6400/7100
SE	SE-Zw	SE-Zw	SE-Zw	SE-Zw	SE-Zw	SE-Zw
355/65 – 15 ²⁾	8.25 – 15 ²⁾	8.25 – 15 ²⁾	8.25 – 15 ²⁾	8.25 – 15 ²⁾	8.25 – 15 ²⁾	8.25 – 15 ²⁾
8.25 – 15 ²⁾	8.25 – 15 ²⁰⁾	8.25 – 15 ²⁾	300 – 15 ²⁾	300 – 15 ²⁾	300 – 15 ²⁾	300 – 15 ²⁾
2x/2	4x/2	4x/2	4x/2	4x/2	4x/2	4x/2
1599 ⁴⁾	1693	1693	1693	1693	1693	1693
1600	1600	1600	1550	1550	1550	1550
6/10	6/10	6/10	6/10	6/10	6/10	6/10
2734 ^{1) 5)}	2739 ^{1) 5)}	2739 ^{1) 5)}	2739 ^{1) 5)}	2739 ^{1) 5)}	2737 ^{1) 5)}	2737 ^{1) 5)}
150	150	150	150	150	150	150
3550 ¹⁾	3150 ¹⁾	3150 ¹⁾	3150 ¹⁾	3150 ¹⁾	2750 ¹⁾	2750 ¹⁾
4447 ¹⁾	4246 ¹⁾	4246 ¹⁾	4246 ¹⁾	4246 ¹⁾	4146 ¹⁾	4146 ¹⁾
2730	2745	2745	2745	2745	2745	2745
1432	1430	1430	1430	1430	1430	1430
810	810	810	795	795	795	795
4595	4605	4605	4605	4605	5586	5586
3395	3405	3405	3405	3405	3786	3786
1948 (2262)/1890 ³⁾	2262/2226	2262/2226	2262/2226	2262/2226	2262/2226	2262/2226
60 x 130 x 1200	70 x 150 x 1200	70 x 150 x 1200	70 x 150 x 1200	70 x 150 x 1200	70 x 200 x 1800	70 x 200 x 1800
4A	4A	4A	4A	4A	4A	4A
1800	1800	1800	2180	2180	2180	2180
153	156	156	154	154	151	151
235	237	237	236	236	233	233
4850	4860	4860	4860	4860	5175	5175
5050	5060	5060	5060	5060	5375	5375
3060	3060	3060	3060	3060	3345	3345
975	975	975	975	975	975	975
22/22	22/22	22/22	22/22	22/22	22/22	22/22
0.51/0.51	0.42/0.42	0.40/0.40	0.42/0.42	0.40/0.40	0.42/0.42	0.36/0.41
0.50/0.50	0.42/0.42	0.42/0.42	0.42/0.42	0.42/0.42	0.42/0.42	0.36/0.41
38,000/36,000	45,000/39,000	45,000/39,000	49,000/39,000	49,000/39,000	53,000/51,000	53,000/51,000
22/31	23/30	23/30	23/27	23/27	23/32	23/32
6.1/5.5	5.6/5.0	6.7/6.0	6.1/5.2	7.3/6.3	6.1/5.2	7.3/6.3
hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic
Perkins 1006.60	Deutz BF6M2012	Perkins 1006.60	Deutz BF6M2012	Perkins 1006.60	Deutz BF6M2012	Perkins 1006.60
71	75	71	75	71	75	71
2100	2200	2100	2200	2100	2200	2100
6/5985	6/6060	6/5985	6/6060	6/5985	6/6060	6/5985
7.4	8.1	7.8	8.5	8.2	9.0	8.6
hydrostat. transmission	hydrostat. transmission	hydrostat. transmission	hydrostat. transmission	hydrostat. transmission	hydrostat. transmission	hydrostat. transmission
265	265	265	265	265	265	265
70	70	70	70	70	70	70
80 ⁶⁾	78 ⁶⁾	80 ⁶⁾	78 ⁶⁾	80 ⁶⁾	78 ⁶⁾	80 ⁶⁾
DIN 15170 H	DIN 15170 H	DIN 15170 H	DIN 15170 H	DIN 15170 H	DIN 15170 H	DIN 15170 H

Lifting capacity diagrams

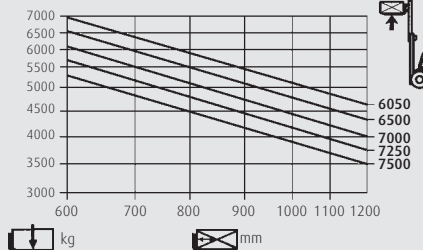
H 50



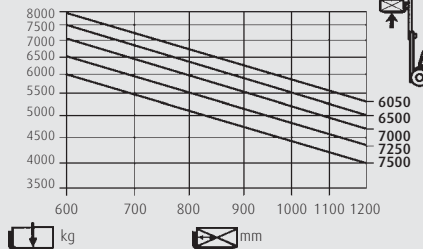
H 60



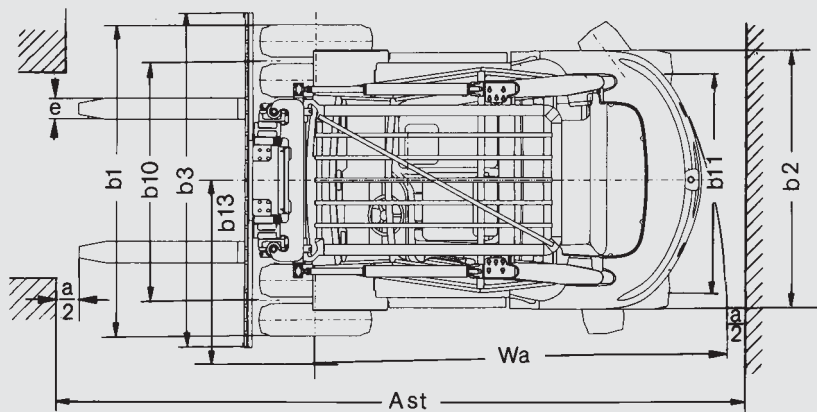
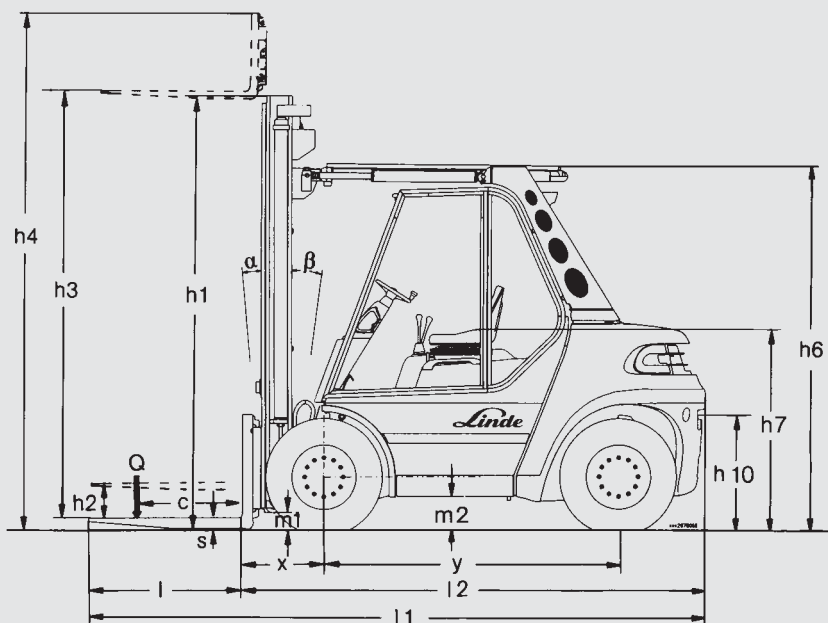
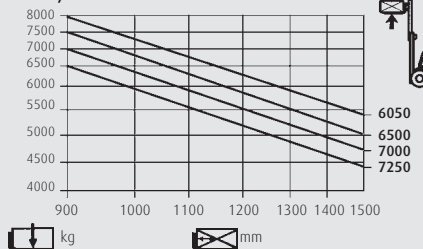
H70



H 80



H80/900



Safety distance $a = 200 \text{ mm}$

Overall and lift heights H 50, H 60 (in mm)

Lift	h3	3550	4150	4550	5250	6050
Overall heights, forks lowered (with 150 mm free lift – standard)	h1 #	2730	3030	3230	3580	3980
Overall heights, at max. lift	h4	4450	5050	5450	6150	6950

Overall and lift heights H70, H80 (in mm)

Lift	h3	3150	3750	4150	4850	5650
Overall heights, forks lowered (with 150 mm free lift – standard)	h1 #	2730	3030	3230	3580	3980
Overall heights, at max. lift	h4	4250	4850	5250	5950	6750

Overall and lift heights H 80/900 (in mm)

Lift	h3	2750	3350	3750	4450	5250
Overall heights, forks lowered (with 150 mm free lift - standard)	h1 #	2730	3030	3230	3580	3980
Overall heights, at max. lift	h4	4150	4750	5150	5850	6650

Carrying capacity diagrams valid with SE-tyres.

Standard and optional equipment

Standard equipment

Truck

Combination dry-type air intake filter
Two-way catalytic converter for LPG engine
Upswept exhaust
Hydraulic oil suction filter
14V, 55A generator
Sprung hydraulic-suspension seat, adjustable for body size and weight
Combination display with hour meter and control lamps for all main truck functions

Standard mast

Lift height h3 = 3,550 mm (H 50, H 60),
Lift height h3 = 3,150 mm (H 70, H 80),
Lift height h3 = 2,750 mm (H 80/900)

Fork carriage

Width b3 = 1,800 mm (H 50, H 60, H 70),
Width b3 = 2,180 mm (H 80, H 80/900),

Forks

Length l = 1,200 mm (H 50 – H 80),
Length l = 1,800 mm (H 80/900)

Options

Standard masts

3,550 to 6,850 mm lift (H 50, H 60)
3,150 to 7,250 mm lift (H 70, H 80)
2,750 to 6,850 mm lift (H 80/900)
One or two auxiliary hydraulic circuits
Special fork carriage widths
Load backrest
Alternative fork lengths
Air precleaner
Overhead guard can be upgrated to full cabine with roof, front and rear screens and doors (also available with tinted glass)
Cab add-ons extending up to full glazing with electric wipers front, rear and top

Comfort-class seat (fabric cover, breather system, lumbar support)
Super-comfort seat (seat heater, extended backrest)
Cab heater
Work lamps
Truck lighting
Highway specifications
Alternative tyres
Custom paintwork
Warning stripes
Diesel particulate filter

Other options available on request

Features

Original Linde hydrostatic drive

- Responsive, smooth and precise driving
- No clutch, differential or drum brakes; hydrostatic drive assumes function of service brake
- Robust drive system, well proven in severest duty
- Low maintenance costs and long life

Linde clear-view mast

- Superb visibility
- Full load capacity up to maximum lift height
- Exceptional residual capacity



Linde twin drive pedals

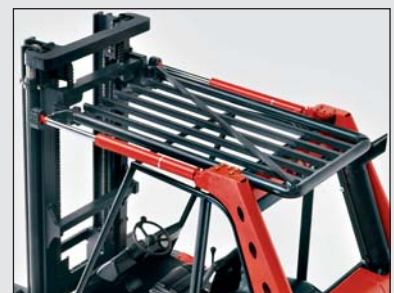
- Quick change of forward/reverse direction without changing feet on pedals
- Short pedal stroke
- No leg fatigue
- Increased productivity

Linde central control lever

- Accurate, safe load handling
- Engine speed automatically optimized on lift, lower and tilt motions
- Traction and lift functions completely separate

Linde Truck Control

- Reliable electronic controller
- High dependability resulting from redundant monitoring systems
- Automatic control of engine speed as function of load
- Casing totally enclosed for protection from dust and dirt



Linde operator compartment

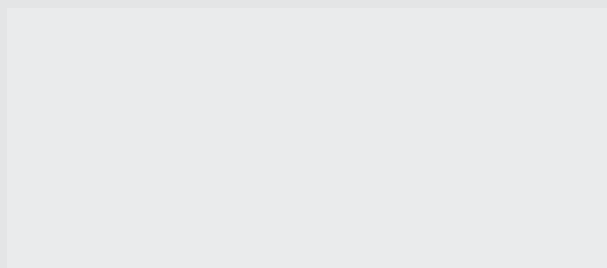
- Ergonomic design for efficient, fatigue-free working
- Central control lever for all basic load handling functions: lift, lower, tilt
- Excellent visibility of load and surroundings
- Seat adjustable for fore/aft position and operator body size/weight

High-economy engine technology

- Diesel and LPG engines incorporating most advanced technology
- High torque
- Low fuel consumption
- Low engine-out emissions

Linde Torsion Support

- Dynamic forces substantially absorbed through roof structure
- Minimized loading and wear of truck frame and mast
- Safety bonus: Lever action makes possible significantly increased residual capacity at high lifts



Linde AG

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Linde Material Handling

