



Standard Equipment/Optional Equipment

Standard Equipment

Linde twin drive pedals to control forward/reverse travel and braking
Original Linde Load Control integrated in armrest
Hydraulic suspended comfort-class seat with extensive range of adjustment
Hydrostatic steering, kickback free
Anti-glare display with fuel gauge, clock, hour meter, service and regeneration information
LEPS (Linde-Engine-Protection-System) as monitoring of motor oil pressure and level, temperature and level of the cooling water and temperature of the hydraulic oil
Plenty of storage space for writing utensils, beverage cans...
Air intake filter with integrated cyclone separator
High-performance hydraulic filter concept, guarantees maximum oil purity and extends life of all hydraulic components
LPG truck fitted with a three-way catalytic converter
Variable displacement pumps for driving and lifting to reduce fuel consumption
Interior light, 12V socket
Superelastic tyres

Optional Equipment

Single drive pedal with direction selector on armrest
Overhead guard can be upgrated to full cabine with roof, front and rear screens and doors (also available with tinted glass)
Wiper-washers for front, rear and roof screens
Further seats with additional comfort and adjustments
Cab heater with integrated pollen filter
Air Conditioning
Radio
Sun screens, clipboard, interior lighting, height adjustable steering column
Standard masts from 3,350 mm to 8,850 mm lift
Triplex masts (full free lift) from 4,770 mm to 9,755 mm lift
One, two or three additional hydraulic circuits for all mast types
Alternative fork lengths

For Diesel trucks EU-version:
Turbocharged common rail DEUTZ diesel engine, 4.0l, 85kW, complies with 2004/26/EC stage IIIB and US EPA Tier 4i, with intercooler and automatically controlled diesel particulate filter

For Diesel trucks non-EU-version:
Turbocharged common rail DEUTZ diesel engine, 4.0l, 85kW, without diesel particulate filter

For LPG trucks:
Volkswagen 3.6l LPG engine with 3-way catalytic converter and 2 gas cylinders of 115l volume on a tilting mounting bracket
Filling level indicator in display
72kW output @ 2500rpm

Truck lighting, working lamps
Audible reversing alarm, flasher and strobe beacons
Mirrors
Linde original Blue Spot
Camera and colour monitor
Road traffic specifications
Air precleaner
Oilbath air precleaner
Hydraulic accumulator
Engine shut off 30 s to 5 min
Foundry version
Swivelling seat 17°
Linde Forklift Data Management
Custom paintwork

Other options available on request



Diesel and LPG Forklift Trucks
Capacity 5000 - 8000 kg
H50, H60, H70, H80
H80/900, H80/1100

Series 396-02

Safety

With loads weighing up to 8000 kg, safe and precise load handling is assured by the unique Linde Torsion Support. Mast deflection is reduced by up to 30% - an enormous advantage, especially with higher lift heights. This unique design also enables use of slimmer mast profiles for outstanding visibility.

Performance

A truck designed to cope with the really tough applications. Advanced drive technology with powerful diesel and LPG engines combined with the original Linde Load Control enables the operator to use the truck's vast potential to perform effectively every day, shift after shift.

Comfort

Relaxed when starting work, relaxed at the end of the shift. Linde provides this truck with a generously sized automobile class workspace. The perfect interface between operator and truck has been achieved through the Linde ergonomic design concept. The spacious cab, comfort-class seat with adjustable armrest and intuitive controls allow fast and stress-free working.

Reliability

50 years of continuous development of the original Linde hydraulic system are combined with robust industrial engines. The result is absolute reliability. The power unit with its two maintenance-free displacement pumps for driving and lifting is designed for ease of operation in arduous applications.

Productivity

Efficient and cost-effective at work: The original Linde hydrostatic transmission has no gearbox, no clutch, no differential and no conventional drum brakes. As a result, uptime is increased and maintenance costs are low. The three-way isolation of the operator's compartment, chassis and engine significantly reduces oscillation and vibration to maximise productivity.

Features

Original Linde hydrostatic drive
→ Sensitive, smooth, and precise driving
→ Variable displacement pump for best energy consumption
→ No clutch, no differential, and no drum brakes thanks to hydrostatic direct drive
→ Robust drive even in extreme environments



Linde clear-view mast
→ Excellent visibility due to narrow mast sections made possible by top-mounted tilt cylinders
→ Full rated capacity up to maximum lift height
→ Exceptional residual capacity thanks to Linde Torsion Support

Linde twin accelerator pedals
→ Fast and smooth travel direction changes without constantly moving feet from one pedal to the other
→ Short pedal travel
→ No strain on ankles or legs
→ Operator maintains high efficiency levels

Linde Load Control
→ Mini levers for all mast functions mounted on an adjustable armrest
→ Precise and effortless fingertip control of all mast functions for safe, efficient load handling
→ Engine rpm is automatically synchronised to precisely match hydraulic demands

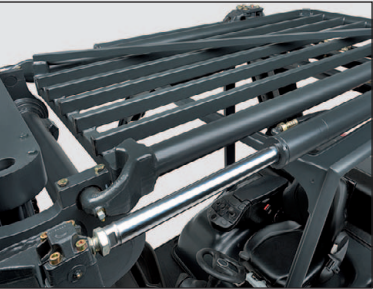
Linde Truck Control
→ Advanced electronic controller
→ High reliability resulting from duplicated monitoring systems
→ Automatic control of engine speed determined by load carried
→ Enclosed in sealed modules for protection against dust and dirt



Linde operator's compartment
→ Advanced functional design for optimum operator comfort and efficiency
→ Superb working environment with spacious leg and headroom
→ Excellent visibility of the load and surrounding environment through slim-line profile mast sections
→ Resilient mounting of mast and drive axle absorbs road shocks and vibrations
→ Quiet, stress-free working



Highly economical engine design
→ DEUTZ industrial diesel engine complies with 2004/26/EC Stage IIIB and US EPA Tier 4i as EU-version
→ Or Volkswagen LPG engine incorporating advanced technology
→ High torque
→ Low fuel consumption
→ Low engine-out emissions



Linde Torsion Support
→ Stresses on the mast and chassis caused by the dynamic torsional movements of the load are reduced by up to 30% thanks to the Linde Torsion Support system
→ Safer, smoother load handling and extended working life
→ The top mounted tilt jacks provide the optimum leverage for outstanding mast control and handling stability of heavy loads



Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		H50D	H60D	H70D	H80D	H80/900D	H80/1100D	H50T	H60T	H70T	H80T	H80/900T	H80/1100T
	1.2a	Series		396-02	396-02	396-02	396-02	396-02	396-02	396-02	396-02	396-02	396-02	396-02	396-02
	1.3	Power unit		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	LPG	LPG	LPG	LPG	LPG	LPG
	1.4	Operation		Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat
	1.5	Load capacity	Q (t)	5.0	6.0	7.0	8.0	8.0	8.0	5.0	6.0	7.0	8.0	8.0	8.0
	1.6	Load centre	c (mm)	600	600	600	600	900	1100	600	600	600	600	900	1100
	1.8	Axle centre to fork face	x (mm)	630	630	640	640	670	670	630	630	640	640	670	670
	1.9	Wheelbase	y (mm)	2160	2160	2160	2160	2510	2810	2160	2160	2160	2160	2510	2810
Weights	2.1	Service weight	(kg)	10003	10186	11400	12322	13970	14802	10049	10233	11446	12368	14017	14849
	2.2	Axle load with load, front/rear	(kg)	12720 / 2283	14284 / 1902	16159 / 2241	17878 / 2444	19740 / 2230	20493 / 2309	12541 / 2508	14105 / 2128	15980 / 2466	17698 / 2670	19598 / 2419	20370 / 2479
	2.3	Axle load without load, front/rear	(kg)	4873 / 5130	4867 / 5319	5140 / 6260	5285 / 7037	6736 / 7234	7454 / 7348	4694 / 5355	4688 / 5545	4961 / 6485	5105 / 7263	6594 / 7423	7331 / 7518
Wheels /tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		SE	SE	SE twin	SE twin	SE twin	SE twin	SE	SE	SE twin	SE twin	SE twin	SE twin
	3.2	Tyre size, front		355/65-15	355/65-15	8.25-15	8.25-15	8.25-15	315/70-15 (300-15)	355/65-15	355/65-15	8.25-15	8.25-15	8.25-15	315/70-15 (300-15)
	3.3	Tyre size, rear		8.25-15	8.25-15	315/70-15 (300-15)	315/70-15 (300-15)	315/70-15 (300-15)	315/70-15 (300-15)	8.25-15	8.25-15	315/70-15 (300-15)	315/70-15 (300-15)	315/70-15 (300-15)	315/70-15 (300-15)
	3.5	Wheels, number front/rear (x = driven)		2x / 2	2x / 2	4x / 2	4x / 2	4x / 2	4x / 2	2x / 2	2x / 2	4x / 2	4x / 2	4x / 2	4x / 2
	3.6	Track width, front	b10 (mm)	1594	1594	1742	1742	1742	1752	1594	1594	1742	1742	1742	1752
	3.7	Track width, rear	b11 (mm)	1600	1600	1600	1550	1550	1550	1600	1600	1600	1550	1550	1550
	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0	5.0 / 9.0
Dimensions	4.2	Height of mast, lowered	h1 (mm)	2735 ¹⁾	2735 ¹⁾	2738 ¹⁾	2737 ¹⁾	2735 ¹⁾	2737 ¹⁾	2735 ¹⁾	2735 ¹⁾	2738 ¹⁾	2737 ¹⁾	2735 ¹⁾	2737 ¹⁾
	4.3	Free lift	h2 (mm)	150	150	150	150	150	150	150	150	150	150	150	150
	4.4	Lift	h3 (mm)	3550 ¹⁾	3550 ¹⁾	3150 ¹⁾	3150 ¹⁾	2750 ¹⁾	2750 ¹⁾	3550 ¹⁾	3550 ¹⁾	3150 ¹⁾	3150 ¹⁾	2750 ¹⁾	2750 ¹⁾
	4.5	Height of mast, extended	h4 (mm)	4448	4448	4245	4244	4144	4146	4448	4448	4245	4244	4144	4146
	4.7	Height of overhead guard (cabin)	h6 (mm)	2746	2746	2745	2746	2746	2747	2746	2746	2745	2746	2746	2747
	4.8	Height of seat/stand on platform	h7 (mm)	1503	1503	1503	1504	1503	1505	1503	1503	1503	1504	1503	1505
	4.12	Towing coupling height	h10 (mm)	847	846	841	845	845	844	847	846	841	845	845	844
	4.19	Overall length	l1 (mm)	4639	4639	4649	4649	5629	6329	4639	4639	4649	4649	5629	6329
	4.20	Length to fork face	l2 (mm)	3439	3439	3449	3449	3829	4129	3439	3439	3449	3449	3829	4129
	4.21	Overall width	b1/b2 (mm)	1900 / 1870 ³⁾	1900 / 1870 ³⁾	2232 / 1870 ³⁾	2232 / 1870 ³⁾	2232 / 1870 ³⁾	2305 / 1870 ³⁾	1900 / 1870 ³⁾	1900 / 1870 ³⁾	2232 / 1870 ³⁾	2232 / 1870 ³⁾	2232 / 1870 ³⁾	2305 / 1870 ³⁾
	4.22	Fork dimensions	s/e/l (mm)	60 x 130 x 1200	60 x 130 x 1200	70 x 150 x 1200	70 x 150 x 1200	70 x 200 x 1800	70 x 200 x 2200	60 x 130 x 1200	60 x 130 x 1200	70 x 150 x 1200	70 x 150 x 1200	70 x 200 x 1800	70 x 200 x 2200
	4.23	Fork carriage to ISO 2328, class/type A, B		4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
	4.24	Width of fork carriage	b3 (mm)	1800	1800	1800	2180	2180	2400	1800	1800	1800	2180	2180	2400
	4.31	Ground clearance, below mast	m1 (mm)	207	204	207	204	201	208	207	204	207	204	201	208
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	247	247	246	245	246	247	247	247	246	245	246	247
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	4890 ⁴⁾	4890 ⁴⁾	4900 ⁴⁾	4900 ⁴⁾	5215 ⁴⁾	5505 ⁴⁾	4890 ⁴⁾	4890 ⁴⁾	4900 ⁴⁾	4900 ⁴⁾	5215 ⁴⁾	5505 ⁴⁾
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	5090 ⁴⁾	5090 ⁴⁾	5100 ⁴⁾	5100 ⁴⁾	5415 ⁴⁾	5705 ⁴⁾	5090 ⁴⁾	5090 ⁴⁾	5100 ⁴⁾	5100 ⁴⁾	5415 ⁴⁾	5705 ⁴⁾
	4.35	Turning radius	Wa (mm)	3060	3060	3060	3060	3345	3635	3060	3060	3060	3060	3345	3635
	4.36	Minimum pivoting point distance	b13 (mm)	975	975	975	975	975	975	975	975	975	975	975	975
Performance	5.1	Travel speed, with/without load	(km/h)	22 / 23	22 / 23	22 / 23	22 / 23	22 / 23	22 / 23	20 / 20	20 / 20	20 / 20	19 / 19	19 / 19	17 / 17
	5.2	Lifting speed, with/without load	(m/s)	0.54 / 0.54	0.54 / 0.54	0.49 / 0.53	0.49 / 0.53	0.49 / 0.53	0.49 / 0.53	0.51 / 0.53	0.51 / 0.53	0.43 / 0.54	0.4 / 0.54	0.4 / 0.54	0.51 / 0.54
	5.3	Lowering speed, with/without load	(m/s)	0.54 / 0.5	0.54 / 0.5	0.56 / 0.45	0.56 / 0.45	0.56 / 0.45	0.56 / 0.45	0.5 / 0.5	0.5 / 0.5	0.56 / 0.48	0.56 / 0.48	0.56 / 0.48	0.56 / 0.48
	5.5	Tractive force, with/without load	(N)	35000 / 34000	38000 / 35000	45000 / 41000	50000 / 42000	51000 / 46000	54000 / 50000	35000 / 34000	38000 / 35000	45000 / 41000	50000 / 42000	51000 / 46000	54000 / 50000
	5.7	Climbing ability, with/without load	(%)	26.0 / 34.0	24.0 / 34.0	24.0 / 33.0	25.0 / 36.0	24.0 / 34.0	25.0 / 34.0	26.0 / 34.0	24.0 / 33.0	24.0 / 33.0	25.0 / 36.0	24.0 / 34.0	23.0 / 33.0
	5.9	Acceleration time, with/without load	(s)	5.4 / 4.8	5.6 / 5.0	5.8 / 5.2	6.0 / 5.3	6.2 / 5.4	6.3 / 5.5	5.5 / 5.1	6.0 / 5.3	6.7 / 5.8	7.2 / 6.1	7.3 / 6.2	7.8 / 6.7
	5.10	Service brake		hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic	hydrostatic
IC-Drive	7.1	Engine manufacturer/type		TC4.1 L04	TC4.1 L04	TC4.1 L04	TC4.1 L04	TC4.1 L04	TC4.1 L04	VW 3,6l VR6	VW 3,6l VR6	VW 3,6l VR6	VW 3,6l VR6	VW 3,6l VR6	VW 3,6l VR6
	7.2	Engine performance according to ISO 1585	(kW)	85	85	85	85	85	85	72	72	72	72	72	72
	7.3	Rated speed	(1/min)	2200	2200	2200	2200	2200	2200	2500	2500	2500	2500	2500	2500
	7.4	Number of cylinders/displacement	(-/cm3)	4 / 4038	4 / 4038	4 / 4038	4 / 4038	4 / 4038	4 / 4038	6 / 3597	6 / 3597	6 / 3597	6 / 3597	6 / 3597	6 / 3597
	7.5	Fuel consumption according to VDI cycle	(l/h)	7.6	8.0	8.4	8.8	9.1	9.4	-	-	-	-	-	-
	7.5a	Fuel consumption according to VDI cycle	(kg/h)	-	-	-	-	-	-	7.2	7.6	8	8.4	8.8	9.3
Others	8.1	Type of drive control		hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.	hydrost./stepl.
	8.2	Operating pressure for attachments	(bar)	265	265	265	265	265	265	265	265	265	265	265	265
	8.3	Oil flow for attachments	(l/min)	95	95	95	95	95	95	95	95	95	95	95	95
	8.4	Noise level at operator's ear	(dB(A))	77	77	77	77	77	77	76	76	76	76	76	76
	8.5	Towing coupling, design/type, DIN 15 170		similar to form H	similar to form H	similar to form H	similar to form H	similar to form H	similar to form H	similar to form H	similar to form H	similar to form H	similar to form H	similar to form H	similar to form H

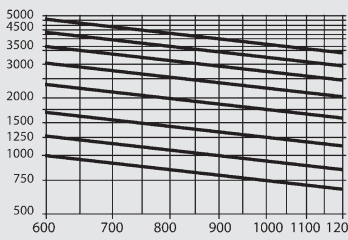
1) With 150 mm free lift
2) For alternative masts, refer to tables

3) front/rear
4) Including a 200 mm (min.) operating aisle clearance.

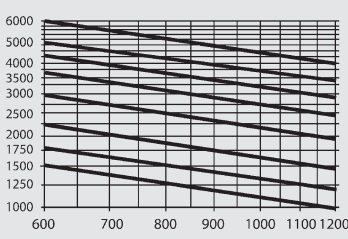
Lifting capacity diagrams

Lifting capacity diagrams valid with SE tyres

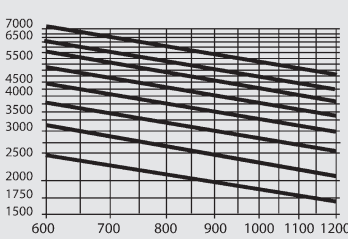
H50



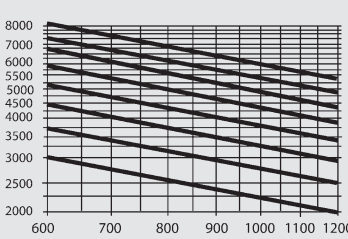
H60



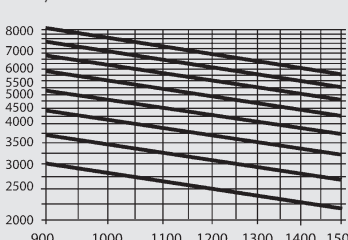
H70



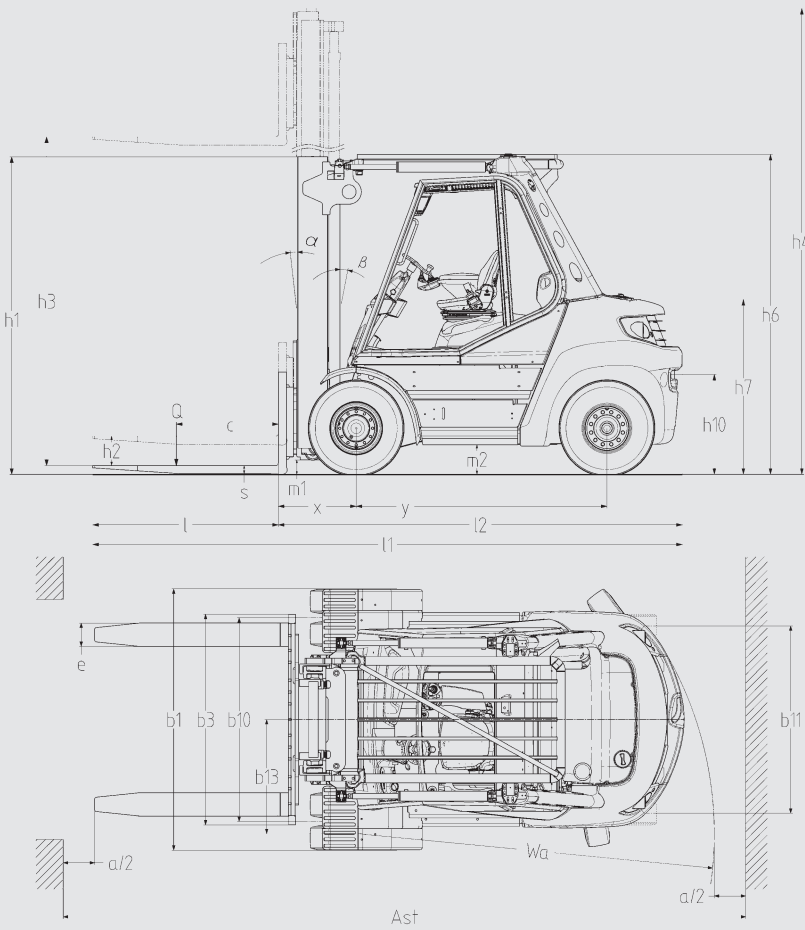
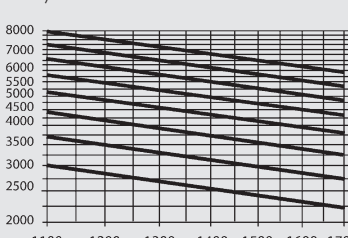
H80



H80/900



H80/1100



Overall and lift heights H 50, H 60 (in mm)		Standard mast					Triplex mast				
Lift	h3	3550	4150	4550	5260	6050	4770	5820	6420	7470	8670
Overall heights, forks lowered with 150 mm freelif (Standard)	h1	2730	3030	3230	3580	3980	2770	3010	3210	3560	3960
Overall heights at max. lift with 4 rollers fork carriage	h4	4440	5040	5440	6140	6940	5660	6710	7310	8360	9560
Overall heights at max. lift with 6/8 rollers fork carriage	h4	4640	5240	5640	6340	7140	5860	6910	7510	8560	9760

Overall and lift heights H 70, H 80 (in mm)		Standard mast					Triplex mast				
Lift	h3	3150	3750	4150	4850	5650	4705	5605	6205	7255	8455
Overall heights, forks lowered with 150 mm freelif (Standard)	h1	2730	3030	3230	3580	3980	2710	3010	3210	3560	3960
Overall heights at max. lift with 4 rollers fork carriage	h4	4240	4840	5240	5940	6740	5795	6695	7295	8345	9545
Overall heights at max. lift with 8 rollers fork carriage	h4	4540	5140	5540	6240	7040	6095	6995	7595	8645	9845

Overall and lift heights H 80/900, H 80/1100 (in mm)		Standard mast					Triplex mast				
Lift	h3	2750	3350	3750	4450	5250	4205	5105	5705	6755	7955
Overall heights, forks lowered with 150 mm freelif (Standard)	h1	2730	3030	3230	3580	3980	2710	3010	3210	3560	3960
Overall heights at max. lift with 8 rollers fork carriage	h4	4140	4740	5140	5840	6640	5595	6495	7095	8145	9345