## Diesel Forklift Trucks 5000, 6000, 7000 and 8000 kg





#### Introduction:

Developed with the aid of the latest design methods, these trucks offer the following outstanding features:

- Exceptional economy, due to minimised servicing costs and long service intervals.
- High productivity and low fuel consumption through the use of hightorque engines combined with hydrostatic transmission control systems.
- Outstanding environmental friendliness, arising from:
  - optimised engine designs in terms of exhaust gases and noise;
  - low noise levels for operator and surrounding environment alike.
- Ergonomically designed cab and controls, with:
  - Linde double pedal control system;
  - Linde central control lever;
  - operator's compartment insulated from vehicle itself.

#### Operator's compartment:

Optimised layout, based on the latest ergonomic principles. Considerably reduced vibration and noise, through insulating the operator's compartment and hydraulic components from the vehicle itself by means of shock absorbers. Seat adjustable to operator's height and weight, as well as being spring suspended and hydraulically damped. Linde double pedal control system offers accurate reversing

(lift, lower, tilt). Automatic adjustment of engine speed to the power output required for lifting and other functions. Driver's cab forms an integral unit with the driver's compartment and can be fitted with additional equipment up to fully enclosed cab configuration. Wide, clearly visible steps ensure safe mounting and dismounting.

#### Chassis:

Designed for maximum strength with the aid of computers (FEM). Enclosed all round to reduce noise and protect internally mounted sub-assemblies from damage.

#### **Engine:**

Water cooled, diesel engine, specially adapted for use with this series of trucks. High torque rating at low engine rpm not only reduces fuel consumption and noise levels but also prolongs durability. Smoke emissions from the diesel engine are exemplary below 2.5 Bosch under all operating conditions. Reduced exhaust emissions through compliance with Euro 1 standards for gases and particulates.

#### Automatic speed control:

The automatic engine speed control system, exclusive to Linde, ensures that the engine and hydrostatic system are constantly operating at the lowest possible rpm or pump output ratio, thus saving fuel and reducing emissions.

#### Transmission:

provides sensitive, infinitely variable control of vehicle speed, while also serving as the operating braking system. The integral, trouble-free, multiple-disc brake acts only as a parking brake. Automatically engaged when engine switched off. Oil volume supplied by the hydrostatic pump is controlled by the engine revolutions and pump displacement angle is separated and directed to the two oil motors, thus eliminating the need for a differential and gear transmission.

#### Steering:

Hydrostatic system providing light operation, precise control and low steering effort (14 N), thus allowing a steering wheel of only 300 mm diameter.

#### Mast:

Overhead located tilt cylinders for smooth tilting and mast stabilisation. The LTS (Linde Torsion Support) with overhead guard function ensures torsional strength enabling easier working through reduced torsional swing of the mast resulting in longer working life. Outer and inner masts of the clear-view lifting assembly made of interleaved double-T-profiles. Two leaf-chains raise the fork carriage via the inner mast lifting cylinders.

#### Braking:

Integral multiple-disc parking brake automatically engaged when the engine is switched off. The hydrostatic transmission

LINDE

### Forklift trucks

Designation VDI 3586

# Data sheet for material handling equipment

April 1997 Manufacturer's Data and Design Characteristics

	April	1997	Manufacturer's Data and De	esign Char	acteristics			
	1.1	Manufacture	r		Linde	Linde	Linde	
	1.2	Model desig	nation		H 50 D	H 60 D	H 70 D	
Characteristics	1.3	Power unit: I	pattery, diesel, petrol, LP gas, mains power		Diesel	Diesel	Diesel	
eris	1.4	Operation: m	anual, pedestrian, stand-on, seated, order picker		Driver seated	Driver seated	Driver seated	
raci	1.5	Load capaci	ty	Q (t)	5000	6000	7000	
Sa	1.6	Load centre		C (mm)	600	600	600	
	1.8	Axle centre t	o fork face	x (mm)	590	590	600	
1	1.9	Wheelbase		y (mm)	2160	2160	2160	
	2.1	Service weigh	iht	kg	8400	9300	10600	
weignt	2.2		th load, front/rear	kg	11750 / 1650	13450 / 1850	15800 / 1800	
N.	2.3		thout load, front/rear	kg	4050 / 4350	4150 / 5150	5000 / 5600	
	3.1		rear (SE = CS superelastic, L = pneumatic)	,,,,	L (SE) / L (SE)	L (SE) / L (SE)	L (SE) / L (SE)	
vvneers and tyres	3.2	Tyre size, fro			300-15 / 18 PR <sup>3</sup> )	355/65 – 15 / 24 PR 6)	8.25 – 15 / 18 PR 7)	
5	3.3	Tyre size, rea			8.25 – 15 / 18 PR <sup>4</sup> )	8.25 – 15 / 18 PR <sup>4</sup> )	8.25 – 15 / 18 PR <sup>4</sup> )	Newson participation
g o	3.5		nber front/rear (x = driven)		2x (4x) / 2 ²)	2x (4x) / 2 <sup>2</sup> )	4x (2x) 7) / 2	
	3.6	Track width,		b10 (mm)	1564 5)	1564 5)	1718 5)	
>	3.7	Track width,		ACCUSED BY THE REAL PROPERTY OF THE REAL PROPERTY O	1600	1600	1600	
-				b11 (mm)		6/10	6 / 10	
	4.1	SC 0101011001000000000000000000000000000	rriage tilt, forward/backward	α/β (°)	6 / 10			
-	4.2	Heigth of ma	ist, lowered	h1 (mm)	2730 1)	2730 1)	2730 1)	
	4.3	Free lift		h2 (mm)	150	150	150	
-	4.4	Lift		h3 (mm)	3550 1)	3550 1)	3150 1)	
	4.5	Height of ma		h4 (mm)	4350 1)	4350 1)	4150 1)	
- 1	4.7		erhead guard (cabin)	he (mm)	2714	2714	2714	
	4.8	Height of sea	at/stand-on platform	h7 (mm)	1432	1432	1432	30000000000000000000000000000000000000
- 1	4.12	Towing coup	oling height	h10 (mm)	810	810	810	
2	4.19	Overall lengt	h	It (mm)	4595	4595	4600	
	4.20	Length to for	k face	la (mm)	3395	3395	3400	
	4.21	Overall width	1	b1/b2 (mm)	1864 (2232) <sup>2</sup> )	1918 (2232) <sup>2</sup> )	2232 (1918) 7)	
5	4.22	Fork dimens	ions	s/e//I (mm)	60 x 130 x 1200 8)	60 x 130 x 1200 8)	70 x 150 x 1200	
	4.23	Fork carriage	e to DIN 15173, class/form A, B		4 A	4 A	4 A	
	4.24	Width of fork	carriage	bs (mm)	1800	1800	2180	
	4.31	Ground clea	rance, mast	m1 (mm)	202	202	202	
-	4.32	Ground clea	rance, centre of wheelbase	m <sub>2</sub> (mm)	245	250	245	
ı	4.33	Aisle width v	vith pallets 1000 x 1200 across forks	Ast (mm)	4845	4845	4850	
	4.34	Aisle width v	vith pallets 800 x 1200 along forks	Ast (mm)	5045	5045	5050	
1	4.35	Turning radi	us	Wa (mm)	3060	3060	3060	
1	4.36	000000000000000000000000000000000000000	tween the centres of rotation distance	b13 (mm)	975	975	975	
7	5.1		f, with/without load	km/h	22 / 22	22 / 22	22 / 22	100000000000000000000000000000000000000
	5.2		, with/without load	m/s	0.53 / 0.53	0.53 / 0.53	0.42 / 0.42	
3	5.3		eed, with/without load	m/s	0.50 / 0.50	0.50 / 0.50	0.42 / 0.42	
DI III	5.5		e, with/without load, 60 minute rating	N	61000 / 31000	57000 / 32000	58000 / 39000	
	5.7		ility, with/without load, 30 minute rating	%	45 / 28	35 / 27	29 / 28	
5	5.9	GROOT PRODUCTION OF THE PROPERTY OF THE PROPER	time, with/without load (first 10 m)	S	4.7 / 4.3	5.2 / 4.7	5.7 / 5.1	
				5				
-	5.10	Service brak			hydrostatic	hydrostatic	hydrostatic	
,	7.1		r of engine / type		KHD / BF6M1012E	KHD / BF6M1012E	KHD / BF6M1012E	
5	7.2		power to ISO 1585	kW	85	85	85	0.0000000000000000000000000000000000000
	7.3	Rated rpm		min <sup>-1</sup>	2200	2200	2200	
2	7.4		ylinders / Displac. ccm	cm <sup>3</sup>	6 / 4800	6 / 4800	6 / 4800	e e e e e e e e e e e e e e e e e e e
	7.5	Fuel consum		I/h	5.3	5.6	5.9	
	8.1	Type of drive			hydrostat./infinit. variable	hydrostat./infinit. variable	hydrostat./infinit. variable	
	8.2		ssure for attachments	bar	260	260	260	
	8.3	Oil quantity f	or attachments	I/min	-			
Others	8.4	Mean noise	level at driver's ear	dB (A)	78	78	78	
	8.5 Towing coupling, design/type DIN, no –					_	_	
	1) For alternative mast refer to page 3.					7). Optional 355/65-15/24 PR single tyres or superelasti		
-	2) Figures in brackets refer to twin tyre configurations 8.25 – 15/18 PR.					8) Fork length "I" ≥ 20	000 mm (H50), 1500 mm	(H60); s
1	3) Op	3) Optional 355/65 – 15/24 PR single tyres or twin tyres 8.25 – 15/18 PR or superelastic tyres.						
1		4) Optional 300 – 15/18 PR or superelastic tyres.						
-	-	5) 1564 mm with single tyres 355/65 – 15, 1718 mm with twin tyres 8.25 – 15.						
+	6) Optional twin tyres 8.25 – 15/18 PR or superelastic tyres.							
	-, -,							

DFG	VDI 2198	Th.
to VDI 3586	Registration note	
	Model types	
Linde	Linde	
H 80 D	H 80-900 D	h4   g   R,
Diesel	Diesel	h3 h1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Driver seated	Driver seated	h6
8000	8000	
600	900	
600	630	ho2 h io
2160	2510	St The state of th
11550 17650 / 1900	12400	12
5250 / 6300	18200 / 2200	
L (SE) / L (SE)	5400 / 7000 L (SE) / L (SE)	
8.25 – 15 / 18 PR	8.25 – 15 / 18 PR	e Men ou
300 – 15 / 18 PR	300-15 / 18 PR	
4x/2	4/2	D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1718	1718	
1550	1550	The state of the s
6 / 10	6 / 10	///////
2730 1)	2730	Wa ————————————————————————————————————
150	150	Lifting capacity diagrams:
3150 1)	2750	H50 — H60
4150 1)	4150	5000
2714	2714	4500 Tmm V 5500
1432	1432	4000
810	810	3900 3200 3000 3500 7000
4605	5590	2700 3000 7500
3405	3790	2500 2500 2500
2232	2232	□ kg 600 700 800 900 1000 1100 1200 □ kg 600 700 800 900 1000 1100 1200 □ mm
70 x 150 x 1200	70 x 200 x 1800	H70 H80
4 A	A	7000 6500 6500 7500 7000
2180	2180	5500
202	202	4500 - 6050 5500 - 6050
240	240	4000 7000 7250 4500 7250
4855	5175	7500 4000 7500
5055	5375	kg 600 700 800 900 1000 1100 1200
3060	3345	₩mm ₩80/900 ₩mm
975	975	8000
22 / 22	22 / 22	7000
0.42 / 0.42	0.42 / 0.42	6000
58000 / 41000	58000 / 42000	5500 6050 5000 6500
26 / 27	25 / 26	4500 7000 7250
6.2 / 5.3	23720	Lifting capacity diagrams 4000 1000 1100 1200 1300 1400 1500
hydrostatic	hydrostatic	valid with SE-tyres.
KHD / BF6M1012E	KHD / BF6M1012E	Overall and lift heights H50, H60 (in mm)
85	85	Lift heights h3 3550 3850 4150 4550 4850 5250 5650 6050 6450 6850
2200	2200	Overall heights, retracted h1 # 2730 2880 3030 3230 3380 3580 3780 3980 4180 4380
6 / 4800	6 / 4800	(with 150 mm free lift – standard)  Overall heights, extended h4 4450 4750 5050 5450 5750 6150 6550 6950 7350 7750
6.2	6.7	
hydrostat./infinit. variable	hydrostat./infinit. variable	Overall and lift heights H70, H80 (in mm)
260	260	Lift heights h3 3150 3450 3750 4150 4450 4850 5250 5650 6050 6450  Overall heights, retracted h1 # 2730 2880 3030 3230 3380 3580 3780 3980 4180 4380
_	_	(with 150 mm free lift – standard)
78	78	Overall heights, extended h4 4250 4550 4850 5250 5550 5950 6350 6750 7150 7550
-	-	Overall and lift heights H80/900 (in mm)
s on demand.		Lift heights h3 2750 3050 3350 3750 4050 4450 4850 5250 5650 6050
) x 150 mm.		Overall heights, retracted h1 # 2730 2880 3030 3230 3380 3580 3780 3980 4180 4380 (with 150 mm free lift – standard)
		Overall heights, extended h <sub>4</sub> 4150 4450 4750 5150 5450 5850 6250 6650 7050 7450
		Width of fork carriage b1 1800 mm (H50, H60), 2180 mm (H70, H80, H80/900)
		Fork lengths I 1000, 1100, 1200
		Safety distance a 200