Diesel and LPG Forklift Trucks 3500, 4000 and 4500 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 con-
- trols, with:
 - Linde double pedal control systemLinde central control lever
 - operator's compartment insulated from vehicle itself.

Driver's position:

Optimised layout, based on the latest ergonomic principles, for operators in the 5–95 percentile. Considerably reduced vibration and noise, through insulating the operator's compartment 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 without changing gear. Linde central control lever operates all lifting mast functions (lift lower

tilt). Automatic adjustment of engine speed to the power output required for lifting and other functions. Operator's overhead guard forms an integral unit with the driver's compartment and can be fitted with additional equipment up to fully enclosed cab configuration.

Chassis:

Designed for maximum strength by the finite element method (FEM). Enclosed all round to reduce noise and protect internally mounted sub-assemblies from damage.

Engine

Liquid cooled diesel or LPG engine, specially adapted for use with this series of trucks. High torque rating at low engine rpm not only reduces fuel consumption, exhaust emissions and noise levels but also prolongs durability. Smoke emissions from the diesel engine are exemplary below 2.5 Bosch under all operating conditions.

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:

Hydrostatic transmission, made by Linde and flange-mounted direct to the engine

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 supplied by the hydrostatic pump is separated and directed to the two fixed-displacement motors mounted in the semi-compact axle, eliminating the need for a differential and affording smooth, progressive travel, both forwards and in reverse.

Steering

Hydrostatic system providing light operation, precise control and low steering effort (20 N), thus allowing a steering wheel of only 300 mm diameter.

Masts:

Clear-view lifting masts in standard, duplex or triplex configuration. The standard version features two leaf-chains which raise the fork carriage via the lifting cylinders. The chains are fitted with wear-resistant plastic cams to prevent damage to the rams. These also act as guides for the supplementary hydraulic hoses. Duplex and triplex masts are equipped with a free-lift cylinder.

Brakes:

Integral, trouble-free, multiple-disc parking brake automatically engaged when the engine is switched off. The hydrostatic transmission also acts as a wear-free senice brake

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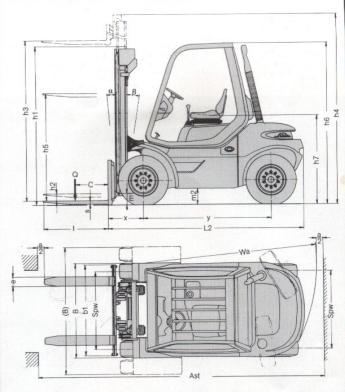
Denomination acc DIN 15140

Data sheet for materials handling equipment

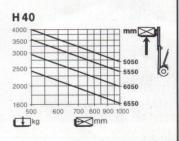
Forklift trucks

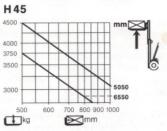
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Manufacturer		Abbroviation/overbal						
		Abbreviation/symbol		Lir	nde	Lir	nde	
Model		Manufacturer's model designation	n	H 35 D	H 35 T	H 40 D	H 40 T	
Load capacity	Q	Load lifted	t	3	3.5		4	
Load centre	С	Distance	mm	5	00	5	00	
Power unit		Battery, diesel, LP gas, mains pow	er	Diesel	LPG	Diesel	LPG	
Operator type		Walkie, rider/stand, rider/seat		Driver seated		Driver seated		
Tyres		SE=superelastic, P=pneumatic front/rear		P (SE) / P (SE)		P (SE) / P (SE)		
Wheels (x=driven)		Number front/rear		2x (4x) / 2		2x (4x) / 2		
Lift duplex mast	hз	Standard lift height	mm	3250 ¹)	(4675) ²)	3250 ¹)	(4675) ²)	
	h2	Standard free lift	mm	1:	50	1	50	
	h5	High free lift mm To DIN 15173 A/B/no		1620 ¹) ³) 3 A		1620 ¹) ³)		
Fork carriage								
Fork		s·e·l	mm	50 x 120	x 1000 ¹⁴)	50 x 120	× 1000 ¹⁴)	
Tilt		Mast forward / backward	deg.	6/	12	6/	12	
Overall measurement	s L2	Length to fork face	mm	2920 (2947) ²)		2955 (2982 ²)		
	В	Width	mm	1400 (1900) ⁷) (1970) ⁸)		1400 (1900) ⁷) (1970) ⁸)		
	hı	Height, mast retracted	mm					
	h4	Height, mast extended	mm					
	h6	Height, including overhead guard	mm	2400		2400		
	h7	Height of driver seat	mm	1285		1285		
Turning radius	Wa	mm		2590		2625		
Load centre distance	x	from centre of front axle	mm	528 (555) ²)	528 (555) ²)	
90° stacking width	Ast	pallets 800×1200 / 1000×1200 cr	osswise mm					
Speeds		Travelling with / without load		BESTORES CHARLES CONTRACTORES CONTRACTORES				
				800000000000000000000000000000000000000	DESCRIPTION OF THE PROPERTY OF			
Nominal tractive force		With / without load		27490 / 21330 32 / 30				
		With / without load				29/29 29/28		
		Travelling with / without load				5.4 / 4.5		
						5905 8855 / 1050		
Axle load		With load, front / rear						
•		Without load, front / rear						
Tyres								
Wheelbase	V							
	,	Centre line of tyres front / rear						
Service brake		Mechanical/hydr./electric/pneumatic		Hydrostatic		Hydrostatic		
ouon origino			DIN 70 020 KW					
							Name and the same	
Transmission				0.0000000000000000000000000000000000000				
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						MOTORONO CONTROLO DE CONTROLO		
				2011/01/01/01/01/01/01/01/01/01/01/01				
	200 3			77	7.5			
additional masts refer to pa	_					11) Optional 250– 12) Optional 28x9		h.
ures in brackets refer to lift t	triplex n	nasts. 7) Twin tyres 28 x 9	J-15.					
	Load centre Power unit Operator type Tyres Wheels (x=driven) Lift duplex mast Fork carriage Fork Tilt Overall measurement Turning radius Load centre distance 90° stacking width Speeds Nominal tractive force Climbing ability Acceleration Dead weight Axle load Tyres Wheelbase Track width Ground clearance Service brake Parking brake Combustion engine Transmission Clutch Operating pressure Noise level	Load centre C Power unit Operator type Tyres Wheels (x=driven) Lift duplex mast ha ha ha Fork carriage Fork Tilt Overall measurements La B ha	Load capacity Load centre Co Distance Power unit Battery, diesel, LP gas, mains pow Walkie, rider/stand, rider/seat Tyres SE= superelastic, P= pneumatic Wheels (x=driven) Lift duplex mast hs Standard lift height hs High free lift Fork carriage To DIN 15173 A/B/no Fork S•e·l Mast forward / backward Overall measurements B Width Height, mast retracted hs Height, including overhead guard hr Height of driver seat Turning radius Load centre distance yo° stacking width Speeds Travelling with / without load Lifting with / without load Lowering with / without load Lowering with / without load Nominal tractive force Climbing ability With load, front / rear Tyres Number, front / rear Size front Size rear Wheelbase y Track width Centre line of tyres, front / rear Ground clearance With load m² centre of whee Service brake Mechanical / hydr. / electric / pneur Rated rpm to DIN 70 020 Number of cylinders / Displac. con Fuel consumption Transmission On IC engine trucks Operating pressure Noise level Mean noise level at driver's ear	Load capacity Q Load lifted t Load centre c Distance mm Power unit Battery, diesel, LP gas, mains power Operator type Walkie, rider/stand, rider/seat Tyres SE= superelastic, P= pneumatic front/rear Wheels (x=driven) Number front/rear Wheels (x=driven) hs Standard fire lift mm Wheels (x=driven) hs Standard free lift mm Fork carriage To DIN 15/73 A/B/no Fork Fork s • e · I mm Goverall measurements 12 Length to fork face mm B Width mm Goverall measurements 12 Length to fork face mm B Width mm Height of friver seat mm Height, including overhead guard mm hr Height of driver seat mm Load centre distance x from centre of front axle mm Load centre distance x from centre of front axle mm	Load capacity	Load capacity	Load capacity	Load capacity

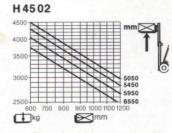
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			00		600				
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		Driver					seated		
			10101010101010000	SE (P)			SE / S	HILL CONTROLL	
	4x /		2x			/2		x/2	
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	12	80							
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	0.55 / 0.55 27990/23180 23470/23180				0.55 / 0.55 28110/25880 23310/24210				
	27990/23180		22/27		25/29		21/28		
		14.7	5.7/4.9		5.9/5.2		5.9/5.2		
	0.77		65		68	*************	6970		
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-			/ 3485		3200/	/3650	3220	/3750	
	4 /	2	2 / 2 300–15 SE 250–15 SE ¹²)		4/2		2/2		
	28×9-15	5/14 PR ¹¹)			28×9–15/14PR 28×9–15/14PR		300–15 SE 250–15 SE		
	28×9-15	5/14 PR ¹¹)							
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	220 (230) ²)				220 (230) ²)				
	100		7.5			7	7.5		
16)	With pallet	s 1000 x 1	200 length						
	17		Service Land						



Lifting capacity diagrams: H 35 3500 2500 2500 2000 5500 600 700 800 900 1000







Figures for triplex masts on request

Overall height and lift he	ight H	35/H	40 (in	mm) 13)				
Lift height	hз	3250	3750	4050	4450	5050	5550		
Overall height, mast retracted (with 150 mm free lift – standard)	h1#	2382	2632	2782	2982	3282	3532		
Overall height, mast retracted (duple	ex)hı	2337	2587	2737	2937	3237	3487		
Overall height, mast extended	h4	3967	4467	4767	5167	5767	6267		
Special free lift (duplex)	h5	1620	1870	2020	2220	-	-		
Overall height and lift he	ight H	45/H	45/6	00 (in	mm) ¹³)	1			
Lift height	hз	3150	3650	3950	4350	4950	5450		
Overall height, mast retracted (with 150 mm free lift – standard)	h1# ⁶)	2382	2632	2782	2982	3282	3532		
Overall height, mast retracted (duple	2337	2587	2737	2937	3237	3487			
Overall height, mast retracted	h4 ⁶)	4017	4517	4817	5217	5817	6317		
Special free lift (duplex)	h5	1470	1720	1870	2070	-	-		
Width of fork carriage b1		1350, 1750, 2000 mm							
Fork lenghts	1000, 1100, 1200 mm								
Safety distance	200 mm								