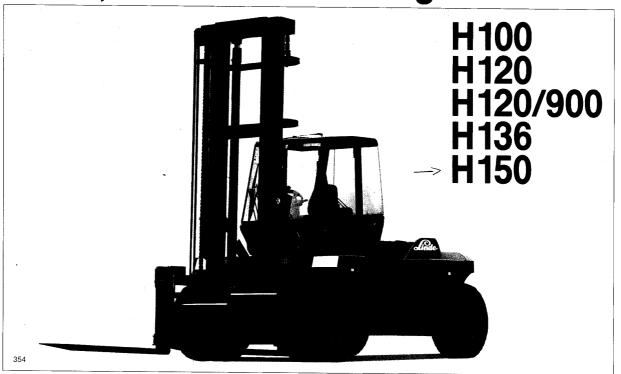
Engine Powered Forklift Trucks 10 000, 12 000, 13 600 and 15 000 kg





Introduction

The 10 to 15 tonne diesel counterbalanced trucks have been developed to suit a wide range of different applications, and incorporate the latest technology in meeting the rigorous existing and anticipated environmental standards. The main design features result from a thorough analysis of materials handling requirements and will ensure maximum productivity. Since operational efficiency is largely determined by the operator, the overall design concept was planned with the operator in mind.

Features

- Ergonomically designed operator's compartment.
- Latest technology diesel engine, giving high performance combined with low fuel consumption and exhaust emissions, to comply with existing and anticipated environmental requirements.
- Engine speed-up design affording power on demand and anti-stall feature.
- Heavy-duty industrial powershift transmission for smooth acceleration and deceleration.
- Full capacity to 6,1 m lift with sideshift and fork positioner.
- Centrally mounted all-weather metal cab.

Driver's compartment with optimised ergonomics

Access to the elevated c' 's cab is provided by a staircase with safety rails. The

comfortable suspension-type driver's seat is fully adjustable to weight and size of the operator.

The controls not only satisfy the ergonomical standards defined by ISO 6682 but have been further optimised for easy operation. Multi-function hydraulic control lever for all load movements, facilitating smooth, safe load handling.

Control and supervision instruments are installed underneath the front cross member of the overhead guard; they do not require constant monitoring by the driver because possible malfunctions are signalled by a central warning light – the driver is capable of concentrating fully on the job in hand, in the safe knowledge that all important truck functions are subjected to permanent, automatic supervision.

Chassis

The monocoque chassis of fabricated steel plate gives high strength to weight ratio and full protection to components.

Engine

Perkins 1006.6e, 6 cylinder diesel engine developing 88,3 kW at 2600 rpm. Cubic capacity 6000 cc.

This engine meets Euro 1 standard for gases and particulates, whilst producing low smoke and noise levels.

Transmission and drive axle

A torque converter directly mounted to the engine drives a Clark powershift transmission giving 3 forward and reverse speeds.

Gear selection is electrically controlled and is automatic with upshift/downshift protection and forward/reverse inhibitor. The trucks have a Kessler heavy-duty double reduction type drive axle with spiral bevel primary and hub planetary secondary.

Steering

Full hydrostatic power steering is standard, resulting in excellent manoeuvrability with minimum operator fatigue and allowing lock to lock steering when stationary. A heavy-duty steer axle is mounted to the chassis via spherelastic bushes to allow axle articulation on uneven ground.

Mast

A robust clearview fabricated mast of all roller construction affords great strength, maximum load stability and mast rigidity to full lift height. Full width load rollers and side thrust rollers between inner and outer mast ensure complete alignment. A universal carriage is standard and features fork carriers for rapid interchange of various attachments.

Braking

The trucks incorporate a failsafe air brake system. Both the inching and brake pedals actuate the large diameter drum brakes in the drive axle hubs for positive braking control. The brakes can also be applied by the parking brake button situated on the side of the operator's seat.

LINDE

Forklift trucks

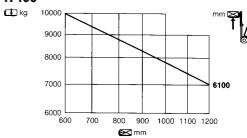
Designation VDI 3586

Data Sheet for material handling equipme

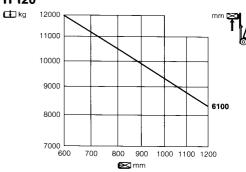
		nber 1996	Manufacturer's Data and Design			Linele	
1.1	2 Model designation			Linde	Linde		
1.2 1.3 1.4 1.5 1.6				H 100	H 120		
1.3			y, diesel, petrol, LP gas, mains power		Diesel	Diesel	
1.4		Operation: manual, pedestrian, stand-on, seated, order picker			Rider seated	Rider seated	
1.5		Load capacity		Q (f)	10000	12000	
1.6	-	Load centre		C (mm)	600	600	
1.8		Axle centre to fork face		x (mm)	862	862	
1.9		Wheelbase		y (mm)	2950	2950	
2.1		Service weight		kg	13945	15330	
2.2		Axle load with load, front/rear Axle load without load, front/rear		kg	22080 / 1865	25340 / 1990	
2.0	-+			kg	7035 / 6910	7280 / 8050	
3.1			(SE = CS superelastic, P = pneumatic)		P/P	P/P	
3.2		Tyre size, front			10.00 x 20/16 PR	10.00 x 20/16 PR	
3.2 3.3 3.5 3.6		Tyre size, rear Wheels number front (rear (x - driven)			10.00 x 20/16 PR	10.00 x 20/16 PR	
3.5	-	Wheels, number front/rear (x = driven)			4x / 2	4x / 2	
3.6		Track width, front		b10 (mm)	1838	1838	
3.7	_	Track width, rear		b11 (mm)	2071	2071	
4.1	-	Mast/fork carriage tilt, forward/backward		α/β (°)	5 / 10	5 / 10	
4.2	-	Heigth of mast, lowered		hı (mm)	3575 1)	3575 ¹)	
4.3	-	Free lift		h2 (mm)	150	150	
4.4		Lift		hs (mm)	4300	4300	
4.5		Height of mast, e		h4 (mm)	5650	5650	
4.7	-	Height of overhe		he (mm)	3075	3075	
4.8		Height of seat/st		h7 (mm)	1940	1940	
4.1		Towing coupling	height	h10 (mm)	-	-	
4.1		Overall length		l1 (mm)	5680	5680	
4.2		Length to fork fac	Ce :	la (mm)	4530	4530	
4.2		Overall width		b1/b2 (mm)	2509	2509	
7.2		Fork dimensions		s/e//I (mm)	75 x 200 x 1150	75 x 200 x 1150	
4.2					Universal	Universal	
4.2	_	Width of fork carriage		bs (mm)	2500	2500	
4.3		Ground clearance		m1 (mm)	225	225	
4.3		Ground clearance, centre of wheelbase		m2 (mm)	320	320	
4.3			pallets 1000 x 1200 across forks	Ast (mm)	6270	6270	
4.3			pallets 800 x 1200 along forks	Ast (mm)			
4.3	-	Turning radius		Wa (mm)	4020	4020	
4.3	_		en the centres of rotation distance	b13 (mm)	1360	1360	
5.1	-	Travel speed, wit	market Martin Martin Control of the	km/h	24 / 25	24 / 25	
<u>5.2</u>		Lifting speed, wit		m/s	0.32 / 0.34	0.30 / 0.34	
5.3 5.5			with/without load	m/s	0.38 / 0.38	0.38 / 0.38	
			th/without load, 60 minute rating	N	69 / 69	69 / 69	
5.7			with/without load, 30 minute rating	%	29 / 30	25 / 28	
5.9	9	Acceleration time	e, with/without load (first 10 m)	S			
5.1	10	Service brake			Pneumatic	Pneumatic	
7.1	1	Manufacturer of			Perkins 1006e.6	Perkins 1006e.6	
2 7.2		Engine rated pov	wer to ISO 1585	kW	88.3	88.3	
7.2 7.3 7.4		Rated speed		rpm	2600	2600	
		Number of cylinders / Displac. ccm		cm ³	6 / 6000	6 / 6000	
7.5		Fuel consumption		I/h			
8.1	_	Type of drive co			Torque converter 3/3	Torque converter 3/3	
g 8.2			e for attachments	bar	140	155	
8.3 8.3	3	Oil quantity for a	ttachments	I/min			
8.4	4	Mean noise leve	l at driver's ear	dB (A)	77	77	
8.5	5	Towing coupling	, design/type DIN, no				

	DFG	VDI 2198		
t	to VDI 3586	Registration note		
Linde	Linde	Model types		
H 120/900	H 136	H 150		
Diesel	Diesel	Diesel		
Rider seated	Rider seated	Rider seated		
12000	13600			
900		15000		
940	600	600		
2950	940	940		
19155	2950	2950		
28820 / 2333	18180	19265		
	29440 / 2340	31980 / 2285		
9480 / 9675	8910 / 9270	9350 / 9915		
P/P	P/P	P/P		
12.00 x 20/20 PR	12.00 x 20/20 PR	12.00 x 20/20 PR		
12.00 x 20/20 PR	12.00 x 20/20 PR	12.00 x 20/20 PR		
4x / 2	4x / 2	4x / 2		
1838	1838	1838		
2071	2071	2071		
5 / 10	5 / 10	5 / 10		
3670 1)	3670 1)	3670 ¹)		
150	150	150		
. 3700	3700	3700		
5445	5445	5445		
3115	3115	3115		
1990	1990	1990		
		-		
6610	6610	6610		
4810	4810	4810		
2550	2550	2550		
90 x 200 x 1800	90 x 200 x 1150	90 x 200 x 1150		
Universal	Universal	Universal		
2500	2500	2500		
250	250	250		
330	330	330		
	6522	6522		
7122				
4190	4190	4190		
1360	1360	1360		
24 / 25	24 / 25	24 / 25		
0.30 / 0.34	0.30 / 0.34	0.28 / 0.34		
0.38 / 0.38	0.38 / 0.38	0.38 / 0.38		
69 / 69	69 / 69	69 / 69		
21 / 29	20.5 / 29	19 / 29		
		10,20		
Pneumatic	Pneumatic	Pneumatic		
Perkins 1006e.6	Perkins 1006e.6	Perkins 1006e.6		
88.3	88.3	88.3		
2600	2600	2600		
6 / 6000	6 / 6000	6 / 6000		
070000	370000	0 / 6000		
Torque converter 3/3	3 Torque converter 3/3	Torque converter 3/3		
160	170	180		
77	77	77		

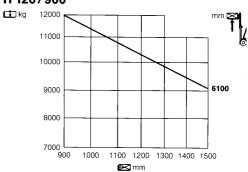
H 100



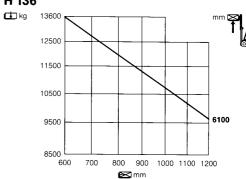
H 120



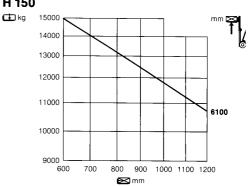
H 120/900

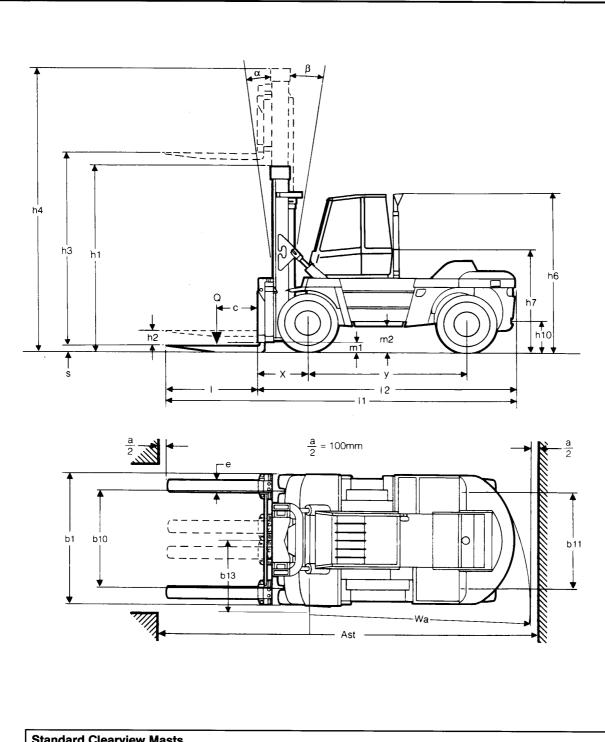


H 136



H 150

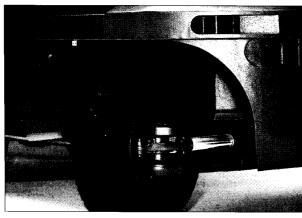




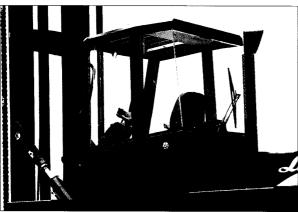
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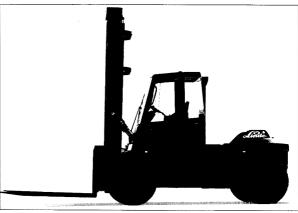
Standard Clearview Masts H 100 and H 120											
h3+s	Lift height	3175	3775	4375	4975	5575	6175	6775			
h2	Normal free lift	150	150	150	150	150	150	150			
h ₁	Height, mast lowered 1)	2975	3275	3575	3875	4175	4475	4775			
h4	Height, mast extended	4450	5 0 5 0	5 650	6250	6850	7 450	8050			
H 120	/900, H 136 and H 150							l			
hз	Lift	3100	3700	4300	4900	5 5 0 0	6100	6700			
h3+s	Lift height	3 190	3790	4390	4990	5 5 9 0	6190	6790			
h2	Normal free lift	150	150	150	150	150	150	150			
h1	Height, mast lowered 1)	3370	3670	3970	4270	4570	4870	5170			
h4	Height, mast extended	4845	5 4 4 5	6045	6645	7245	7845	8445			

Equipment









Safety

- Engine meets Euro 1 standards for gases and particulates.
- Failsafe air brake system.
- Emergency warning light.
- Audible warning (low air pressure).
- Audible warning (horn).
- Audible warning (reverse gear).
- Good-all-round visibility.
- Tilt lock valve.
- Load lowering valve.
- Pressure relief valve.
- Low noise levels.

Standard equipment

Full cab with hinged doors, front, top and rear screen wipers and washers, heaters and demisters.

Comprehensive instrumentation. Perkins 1006.6e diesel engine. Three-speed automatic powershift transmission with upshift/downshift protection and forward/reverse inhibitor. Heavy-duty double reduction drive axle. Full power hydraulic steering. Air operated failsafe brakes with air dryer. Twin mounted drive wheels. Pneumatic tyres. Standard clearview lift mast, 3700 mm lift (4300 mm - H100 und H120). Universal fork carriage including sideshift and fork positioner. Forks - 1150 mm long (1800 mm - H 120 02). Standard colour scheme - vermilion and charcoal grey.

Full suspension seat.

Optional equipment

Heavy-duty air filter.
High level air intake.
Spark arrestor and inlet flame trap.
Contoured solid (superelastic) tyres.
Standard clearview masts (see mast tables for details).
Additional hydraulic circuits.
Carriage backrest extension.
Alternative fork lengths and fork extensions.
Crane jibs and coil booms.
Cold climate specification to –25°C.
Alternative colour schemes.
Particle filter.
Air conditioning.

Other options available on request.

