Standard and optional equipment

Standard equipment

General	Safety
Linde hydrostatic transmission	Three independent braking systems
Liquid cooled engine:	Asbestos-free brake components
VW/ADG diesel version	Electric horn
VW/ADF LPG version	Hydraulic overload protection
Two stage catalytic converter (LPG)	Burst hose check valve
Hydrostatic power steering	Overhead guard
Dual axis hydraulic control lever	Seat belt
Linde twin accelerator pedals	
Full suspension PVC seat with seat belt	
Pneumatic tyres (H 12/H 16)	
Superelastic tyres (H 18/H 20)	
Instrument display including hour meter	
Clearview standard mast lift 3050 mm	
Fork length 1000 mm	
Standard colour scheme vermilion and charcoal grey	

Options

Standard mast lifts to 4850 mm	Engine air pre-filter (diesel)
Duplex mast lifts to 3770 mm	Soot particulate filter (diesel)
Triplex mast lifts to 6220 mm	Catalytic exhaust converter - two stage (diesel)
Single accelerator pedal layout with direction selector	Catalytic exhaust converter - three stage (LPG)
Individual hydraulic control levers	Alternative tyre types and configurations
Fabric covered seat	Alternative fork lengths
Integrated sideshift	Audible reversing alarm
Load backrest extension	Alternative colour schemes
Additional hydraulic circuits	
Truck lighting/flashing amber beacon/working lamps	Other options available on request
Overhead guard with:	
Laminated glass top screen	
Polycarbonate top screen	
Front screen, wiper and top screen	
Front and rear screens, wipers and top screen	
Cab heater and screen demister	
Full cab with hinged doors	
Rear view mirrors	

Diesel and LPG Counterbalance Trucks
Capacity 1200 kg – 2000 kg
H 12, H 16, H18, H 20

SERIES 350

Linde Material Handling

Introduction

This versatile and highly manoeuvrable series of compact engine powered hydrostatic models has established an enviable reputation for efficient and economic load handling in a wide range of tasks including loading/unloading, storage/retrieval, block stacking and rapid load transfer.

Performance

The unique and well proven Linde hydrostatic drive combined with modern low emission engines provides smooth, infinitely variable speed control for flexible high performance and productivity in intensive applications.

Operator comfort

A perfect interface between operator and truck has been achieved with the Linde ergonomic design concept. The spacious, resiliently mounted cab, comfort-class seat and intuitive control layout creates a superb environment that motivates and promotes efficiency and high productivity.

Durability

Linde engine powered forklifts are constructed to undertake sustained heavy-duty tasks in their stride. The enclosed robot-welded chassis is designed for maximum strength and durability. The rugged construction and components ensure long life and durability.

Maximum uptime and productivity

Efficiency at work, efficiency in servicing. The low maintenance hydrostatic transmission and automatic engine speed control result in productive uptime ratios of up to 1000 hours between services. Operating costs are therefore reduced and maximum productivity is achieved.

Features

Linde hydrostatic transmission

- → No clutch, no reversing gears and none of the costs associated with these components
- → Safe, rapid direction changes, with no component stress or wear
- → The perfect system for intensive shunting and transfer duties
- → No direction or gear lever for effortless productivity from the operator
- → Automatic hydrostatic braking as accelerator pedal is released

Robust chassis

- → Enclosed chassis for maximum strength and component protection
- → Prevents ingress of dust and water
- → Low profile design for good all-round visibility
- → Low step access to spacious cab
- → Compact, profiled design for excellent manoeuvrability

Linde twin accelerator pedals

- → Assured manoeuvring with Linde twin accelerator pedals
- → Effortless forward/reverse selection places minimal demands on operator
- → Operator is able to maintain high efficiency and productivity levels

Smooth hydraulic control

- → A dual axis tactile lever actuates lift and tilt
- → Effortless, seamless control of all mast movements
- → Automatic engine speed control as lift lever is actuated results in reduced engine rpm, lower fuel consumption and longer engine life

Modern low emission engines

- → Powerful yet fuel efficient
- → Available in either diesel or LPG versions
- → Modern low emission, low noise design
- → Provides impressive, responsive performance

Designed around the operator

- → Spacious cab with easy access, a comfort-class seat and an intuitive control layout
- → Hydrostatic power steering for effortless manoeuvring
- → Excellent visibility of load and surrounding environment
- → Instrument display for instant read-out of truck status
- → Chassis designed and built for maximum strength and durability
- → Resiliently mounted cab is isolated from vibrations and road shocks

Maximum uptime

- → Intelligent electronic control system
- → Easy access to all key components
- → Up to1000 operating hours between services
- → Reduced service intervals

The Linde clearview mast

- → A clearview mast using a unique nesting design and with the lift cylinders mounted behind the uprights for optimum strength and visibility
- → Sealed for life angled rollers for efficient alignment and minimum friction provide smooth lifting and lowering
- → Safe, precise load handling

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Linde Material Handling

Printed in United Kingdom DM5192/3/06

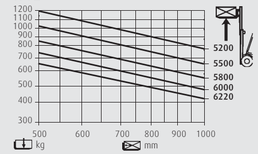
Technical data

Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		**H 12 D**	**H 12 T**	**H 16 D**	**H 16 T**	**H 18 D**	**H 18 T**	**H 20 D**	**H 20 T**
	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Diesel	LPG	Diesel	LPG	Diesel	LPG	Diesel	LPG
	1.4	Operation: manual, pedestrian, stand-on, seated, order picker		Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated
	1.5	Load capacity	Q (kg)	1200	1200	1600	1600	1800	1800	2000	2000
	1.6	Load centre	c (mm)	500	500	500	500	500	500	500	500
	1.8	Axle centre to fork face	x (mm)	375	375	375	375	380	380	384	384
	1.9	Wheelbase	y (mm)	1460	1460	1460	1460	1500	1500	1560	1560
Weight	2.1	Service weight	kg	2525	2525	2660	2660	2890	2890	3110	3110
	2.2	Axle load with load, front / rear	kg	3125/600	3125/600	3700/560	3700/560	4070/620	4070/620	4380/730	4380/730
	2.3	Axle load without load, front / rear	kg	1230/1295	1230/1295	1175/1485	1175/1485	1250/1640	1250/1640	1280/1830	1280/1830
Wheels and tyres	3.1	Tyres, front / rear (SE = superelastic, P = pneumatic)		SE/SE	SE/SE	SE/SE	SE/SE	SE/SE	SE/SE	SE/SE	SE/SE
	3.2	Tyre size, front		18 x 7 – 8	18 x 7 – 8	18 x 7 – 8	18 x 7 – 8	200/50 – 10	200/50 – 10	200/50 – 10	200/50 – 10
	3.3	Tyre size, rear		18 x 7 – 8	18 x 7 – 8	18 x 7 – 8	18 x 7 – 8	18 x 7 – 8	18 x 7 – 8	18 x 7 – 8	18 x 7 – 8
	3.5	Wheels, number front / rear (x = driven)		2 x/2	2 x/2	2 x/2	2 x/2	2 x/2	2 x/2	2 x/2	2 x/2
	3.6	Track width, front	b10 (mm)	910	910	910	910	945	945	945	945
	3.7	Track width, rear	b11 (mm)	873	873	873	873	873	873	873	873
Dimensions	4.1	Mast / fork carriage tilt, forward / backward	α/β (°)	6/10	6/10	6/10	6/10	6/10	6/10	6/10	6/10
	4.2	Height of mast, lowered	h1 (mm)	2100	2100	2100	2100	2100	2100	2100	2100
	4.3	Free lift	h2 (mm)	150	150	150	150	150	150	150	150
	4.4	Lift	h3 (mm)	3050	3050	3050	3050	3050	3050	3050	3050
	4.5	Height of mast, extended	h4 (mm)	3658	3658	3658	3658	3658	3658	3658	3658
	4.7	Height of overhead guard (cab)	h6 (mm)	2070	2070	2070	2070	2070	2070	2070	2070
	4.8	Height of seat / stand-on platform	h7 (mm)	1000	1000	1000	1000	1000	1000	1000	1000
	4.12	Towing coupling height	h10 (mm)	560	560	560	560	560	560	560	560
	4.19	Overall length	l1 (mm)	3174	3174	3220	3220	3260	3260	3346	3346
	4.20	Length to fork face	l2 (mm)	2174	2174	2220	2220	2260	2260	2346	2346
	4.21	Overall width	b1/b2 (mm)	1087	1087	1168	1087	1168	1168	1168	1168
	4.22	Fork dimensions	s/e/l (mm)	40 x 80 x 1000	40 x 80 x 1000	40 x 80 x 1000	40 x 80 x 1000	45 x 100 x 1000	45 x 100 x 1000	45 x 100 x 1000	45 x 100 x 1000
	4.23	Fork carriage to DIN 15173, class / form A, B		2A	2A	2A	2A	2A	2A	2A	2A
	4.24	Width of fork carriage	b3 (mm)	1040	1040	1040	1040	1040	1040	1040	1040
	4.31	Ground clearance, mast	m1 (mm)	76	76	74	74	98	98	77	77
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	121	121	120	120	119	119	122	122
	4.33	Aisle width, pallet 1000 x 1200 across forks	Ast (mm)	3523	3523	3565	3565	3606	3606	3689	3689
	4.34	Aisle width, pallet 800 x 1200 along forks	Ast (mm)	3723	3723	3765	3765	3806	3806	3889	3889
	4.35	Turning radius	Wa (mm)	1948	1948	1990	1990	2026	2026	2105	2105
	4.36	Minimum pivot point distance	b13 (mm)	590	590	590	590	605	605	630	630
Performance	5.1	Travel speed, with / without load	km/h	18/18.5	18/18.5	18/18.5	18/18.5	18/18.5	18/18.5	18/18.5	18/18.5
	5.2	Lifting speed, with / without load	m/s	0.57/0.58	0.57/0.58	0.57/0.58	0.57/0.58	0.57/0.58	0.57/0.58	0.57/0.58	0.57/0.58
	5.3	Lowering speed, with / without load	m/s	0.58/0.45	0.58/0.45	0.57/0.45	0.57/0.45	0.53/0.45	0.53/0.45	0.59/0.45	0.59/0.45
	5.5	Tractive force, with / without load, 60 minute rating	N	14200/9220	14200/9220	14200/9220	14200/9220	14200/9220	14200/9220	14200/9220	14200/9220
	5.7	Climbing ability, with / without load, 30 minute rating	%	42/30	42/30	34/26	34/26	31/26	31/26	31/26	31/26
	5.9	Acceleration time, with / without load (first 15 m)	s	4.5/4.0	4.5/4.0	4.8/4.2	4.8/4.2	4.9/4.4	4.9/4.4	5.0/4.5	5.0/4.5
	5.10	Service brake		Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
Drive	7.1	Manufacturer of engine / type		VW/ADG	VW/ADF	VW/ADG	VW/ADF	VW/ADG	VW/ADF	VW/ADG	VW/ADF
	7.2	Engine rated power to ISO 1585	kW	28	27	28	27	28	27	28	27
	7.3	Rated speed	min^{-1}	2300	2300	2300	2300	2300	2300	2300	2300
	7.4	Number of cylinders / displacement	cm^3	4/1896	4/1781	4/1896	4/1781	4/1896	4/1781	4/1896	4/1781
	7.5	Fuel consumption to VDI	l/h	2.1	2.1	2.2	2.2	2.3	2.3	2.4	2.4
Other	8.1	Type of drive control		Hydrostatic transmission	Hydrostatic transmission	Hydrostatic transmission	Hydrostatic transmission	Hydrostatic transmission	Hydrostatic transmission	Hydrostatic transmission	Hydrostatic transmission
	8.2	Working pressure for attachments	bar	175	175	215	215	230	230	250	250
	8.3	Oil flow for attachments	l/min	18	18	18	18	18	18	18	18
	8.4	Noise level at operator's ear	dB(A)	79	76	79	76	79	76	79	76
	8.5	Towing coupling, design / type		–	–	–	–	–	–	–	–

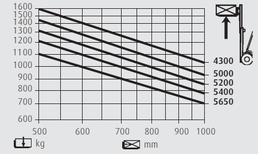
All data based on standard equipment with standard mast 3050 mm (h3)

Lifting capacity diagrams

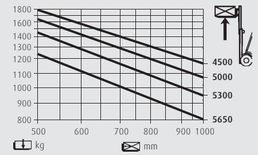
H12



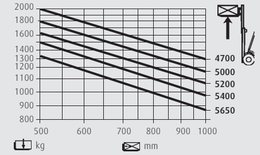
H16



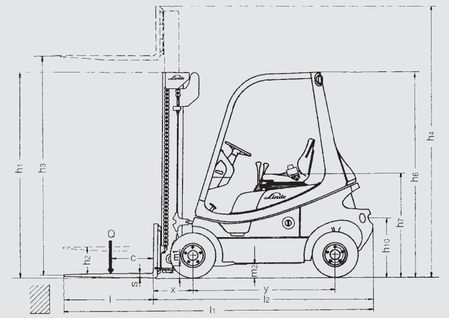
H18

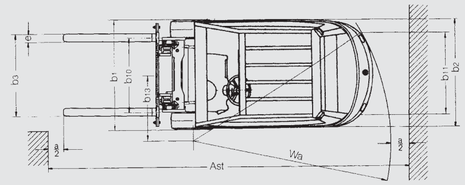


H20



Lifting capacity diagrams are valid for standard and duplex masts without integrated sideshift with SE-tyres.





Standard mast							
Lift	**h3**	3050	3250	3850	4250	4850	–
Height of mast, lowered (including 150 mm free lift)	**h1**	2100	2200	2500	2700	3000	–
Height of mast, extended	**h4**	3658	3858	4458	4858	5458	–
Free lift	**h2**	150	150	150	150	150	–

Duplex mast							
Lift	**h3**	2770	3070	3770	–	–	–
Height of mast, lowered	**h1**	1925	2075	2425	–	–	–
Height of mast, extended	**h4**	3378	3678	4378	–	–	–
Free lift	**h2**	1318	1468	1818	–	–	–

Triplex mast							
Lift	**h3**	4020	4470	5470	5920	6220	–
Height of mast, lowered	**h1**	1925	2075	2475	2625	2725	–
Height of mast, extended	**h4**	4628	5078	6078	6528	6828	–
Free lift	**h2**	1318	1468	1868	2018	2118	–

Alternative lift heights available on request. Lift height = **h3+s.**