

TEL: (33) 3646-2186/ (33) 3646-2053 www.gruasyequiposgarcia.com

LINDE H70D 15,000 LB

Hydrostatic Drive Diesel Trucks

H50D-11,000 lbs. H60D-13,000 lbs. H70D-15,000 lbs. H80D-17,500 lbs.





INTRODUCTION

This truck series offers the following outstanding features:

Designed with the aid of the latest methods - FEM (Finite Element Modeling) and CAD (Computer Assisted Design).

Performance

High productivity at minimal fuel consumption achieved by utilizing high-torque engines in combination with Linde-built hydrostatic drive system.

Maintenance

Dramatically reduced maintenance expense due to high-tech components and long service intervals.

Full-time, shock-mounted cab featuring Linde twin pedal directional control system, standard adjustable suspension seat, ample footroom and sound abatement

Earth-friendly

Linde's exclusive automatic engine speed control system ensures that the engine and hydrostatic drive system are constantly operating at the lowest possible rpm. This results in substantial fuel savings, reduced emissions, reduced ambient noise and extended service intervals (500 hours service for engine oil and filter). The long engine service intervals reduce the accumulation of waste oil.

OPERATOR CONTROLS

Linde's patented vehicle control system combines the truck's travel and hydraulic systems in an operator-friendly design that eliminates the need for an accelerator pedal. Vehicle travel, lift, tilt and auxiliary speeds plus steering effort are automatically selected by the operator during day-to-day operation.

ENGINES

Liquid - cooled KHD/Deutz Turbo-Diesel engines featuring forged industrial components deliver high torque at low rpm. These engines have been designed to operate at peak efficiency with long service intervals, while featuring extremely low emissions

HYDROSTATIC DRIVE

Linde's exclusive hydrostatic drive is proven reliable, smooth and efficient. An engine-direct-driven axial piston swash plate pump displaces oil to two axial piston wheel motors attached directly to individual planetary drive units. Hydraulic differential eliminates the need for ring and pinion gear reduction and a conventional drive axle. The hydrostatic drive system also eliminates the following additional wear items: mechanical transmission, torque converter, universal joints, drive shafts, and clutch packs.

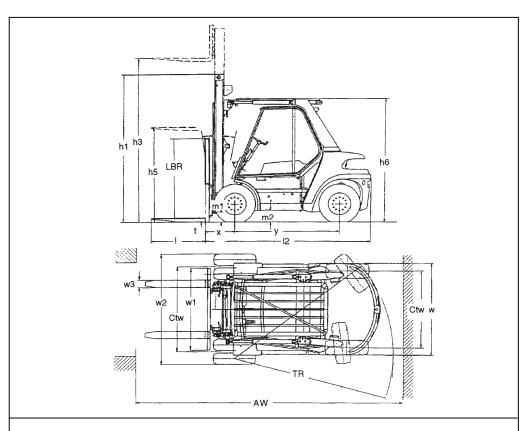
BRAKES

Multiple brake systems ensure maximum safety. The Linde hydrostatic drive system features wear-free dynamic braking through the drive line. Additional oil disc brakes provide for high speed emergency stopping and secure parking.









MAST AND CAPACITY INFORMATION H50D, H60D inch (mm)									
Mast	Collapsed Height	Maximum* Fork Height	Free Lift With LBR Without LBR		Capacity @ 24" Load Center - lb. (kg)		Tilt**		
Туре	h1	h3	h5	h5	H50D	H60D	Fwd.	Back	
Simple	107 (2,718)	142 (3,606)	5.9 (150)	5.9 (150)	11,000 (5,000)	13,000 (6,000)	7°	9°	
	8.5 (3,010)	166 (4,216)	5.9 (150)	5.9 (150)	11,000 (5,000)	13,000 (6,000)	6°	10°	
	126 (3,200)	181 (4,597)	5.9 (150)	5.9 (150)	11,000 (5,000)	13,000 (6,000)	6°	10°	
	140 (3,556)	209 (5,314)	5.9 (150)	5.9 (150)	11,000 (5,000)	13,000 (6,000)	6°	10°	
	148 (3,759)	225 (5,714)	5.9 (150)	5.9 (150)	11,000 (5,000)	13,000 (6,000)	6°	10°	
	156 (3,962)	240 (6,114)	5.9 (150)	5.9 (150)	11,000 (5,000)	13,000 (6,000)	6°	10°	
	164 (4,165)	256.5 (6,514)	5.9 (150)	5.9 (150)	11,000 (5,000)	13,000 (6,000)	6°	10°	

MAST AND CAPACITY INFORMATION H70D, H80D inch (mm)

Mast	Collapsed Height	Maximum* Fork Height	Free Lift With LBR Without LBR		Capacity @ 24" Load Center - lb (kg)		Tilt**	
Туре	h1	h3	ŀ	15	H70D	H80D	Fwd.	Back
Simple	107 (2,718)	126 (3,200)	5.9 (150)	5.9 (150)	15,000 (7,000)	17,500 (8,000)	6°	7.5°
	118.5 (3,010)	150 (3,810)	5.9 (150)	5.9 (150)	15,000 (7,000)	17,500 (8,000)	6°	10°
	126 (3,200)	166 (4,616)	5.9 (150)	5.9 (150)	15,000 (7,000)	17,500 (8,000)	6°	10°
	140 (3,556)	194 (4,920)	5.9 (150)	5.9 (150)	15,000 (7,000)	17,500 (8,000)	6°	10°
	148 (3,759)	209 (5,320)	5.9 (150)	5.9 (150)	15,000 (7,000)	17,500 (8,000)	6°	10°
	156 (3,962)	225 (5,720)	5.9 (150)	5.9 (150)	15,000 (7,000)	17,500 (8,000)	6°	10°
	164 (4,165)	241 (6,120)	5.9 (150)	5.9 (150)	15,000 (7,000)	16,665 (7,559)	6°	10°

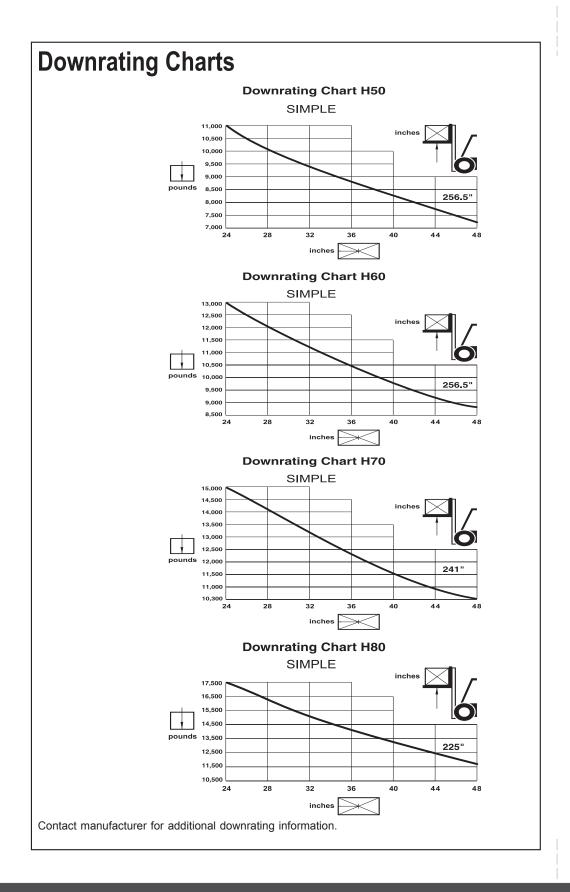
For Dual and Triple Mast Capacity information Contact Factory

- * For overall raised height with LBR add 55 in (1,400 mm).
- ** Tilt requirements may change depending on options added.











Manufacturer's Data and Design Characteristics August 2003							
	1.1	Model Designation		H:	50D		
Characteristics	1.2	Load Capacity	lb (kg)	11,000	(5,000)		
	1.3	Load Center	Lc in (mm)	24	(600)		
	1.4	Power Unit, Electric, Diesel, LP, Other	- ()		esel		
	1.5	Operator Position, Rider/Stand, Rider/Site	down		Sitdown		
	1.6	Tires F/R, CSE=Cushion Super Elastic; F			P/P		
	1.7	Wheels, Front/Rear, (x = driven)		2x(4x)/2		
	1.8	Steering, Power/Manual			wer		
	2.1	Simple Mast	in (mm)		ast Table		
	2.2	Dual Mast	in (mm)	See Mast Table			
	2.3	Triple Mast	in (mm)		ast Table		
	2.4	Fork Carriage, Class/Width	in (mm)	IV/70.9	(IV/1,800)		
	2.5		I x w3 in (mm)	2.5x48x6	(64x1,219x152)		
S	2.6	Load Backrest Height ³	LBR in (mm)	55	(1,400)		
Dimensions	2.7	Tilt, Forward/Backward	degrees	See Ma	ast Table		
Jen	2.8	Total Length to Forkface	I2 in (mm)	133.5	(3,390)		
Ë	2.9	Overall Width, Front	w/w2 in (mm)	73.4/87.8 ²	(1,864/2,230 ²)		
	2 10	Front Overhang	x in (mm)	23.2	(590)		
		Truck Height Including Overhead Guard	h6 in (mm)	106.9	(2,714)		
		Seat Height	h7 in (mm)	56.4	(1,432)		
		Turning Radius	TR in (mm)	120.5	(3,060)		
	2.14	Aisle Width¹	AW in (mm)	143.5	(3,645)		
	3.1	Travel Speed, With/Without Load	mph (kmh)	13.7/13.7	(22.0/22.0)		
Performance	3.2	Lifting Speed, With/Without Load	fpm (mps)	104.3/104.3	(0.53/0.53)		
rms	3.3	Lowering Speed, With/Without Load	fpm (mph)	98.4/98.4	(0.50/0.50)		
erfc	3.4	Drawbar Pull, With/Without Load	lb (N)	13,737/6,938	(61,000/31,000)		
<u>а</u>	3.5	Gradeability, With/Without Load	%		5/28		
ηt	4.1	Weight	lb (kg)	20,503	(9,300)		
Weight	4.2	Axle Loading, With Load, Front/Rear	lb (kg)	26,896/4,630	(12,200/2,100)		
>	4.3	Axle Loading, Without Load, Front/Rear	lb (kg)	9,888/10,692	(4,485/4,850)		
	5.1	Tire Size, Front	in (mm)		5/22PR		
	5.2	Tire Size, Rear	in (mm)		5/18PR		
	5.3	Wheel Base	y in (mm)	85	(2,160)		
SSis	5.4	Track Width Center Line of Tires, F/R	Ctw in (mm)	61.6/63	(1,564/1,600)		
Chassis	5.5	Ground Clearance, With Load (Mast)	m1 in (mm)	8	(202)		
	5.6	Ground Clearance, With Load (Chassis)	m2 in (mm)	9.7	(245)		
	5.7	Brake System			/Hydraulic		
	5.8	Parking Brake			oot		
	6.1	Voltage	V		12		
	6.2	Engine Manufacturer/Type			6M1012E		
	6.3	Engine Rating	hp (kw)	100	(75)		
e)	6.4	Engine RPM	max. rpm		200		
Drive	6.5	Engine Displacement	cu. in (cc)	292.8	(4,800)		
	6.6	Transmission		,	ostatic		
	6.7	Noise Level	dBa		78		
	6.8	Speed Control			/ Variable		
	6.9	Hydraulic System Operating Pressure	psi (bar)	3,771	(260)		
	2) (w2) =	ad lenght plus clearance for 90° stack. Chassis width with dual drive tires. imple masts					

³⁾ With simple masts





					Linde	
H6	60D	H70D		H80D		1.1
13,000	(6,000)	15,000	(7,000)	17,500	(8,000)	1.2
24	(600)	24	(600)	24	(600)	1.3
Die	esel	Diesel		Di	esel	1.4
Rider/S	Sitdown	Rider/Sitdown		Rider/	Rider/Sitdown	
Р	P/P	P/P		P/P		1.6
2x(4	4x)/2	4x(2x)/2		4x/2		1.7
Po	wer	Power		Power		1.8
See Ma	ast Table	See Mast Table		See Mast Table		2.1
See Ma	ast Table	See M	last Table	See Mast Table		2.2
See Ma	ast Table	See Mast Table		See Mast Table		2.3
IV/70.9	(IV/1,800)	IV/85.8	(IV/2,180)	IV/85.8	(IV/2,180)	2.4
2.5x48x6	(64x1,219x152)	2.75x48x6	(70x1,219x152)	2.75x48x8	(70X1,219x203)	2.5
55	(1,400)	55	(1,400)	55	(1,400)	2.6
	ast Table	See Mast Table		See Mast Table		2.7
133.5	(3,390)	133.9	(3,400)	133.9 (3,400)		2.8
75.5/87.8 ²	(1,918/2,230 ²)	87.8	(2,230)	87.8	(2,230)	2.9
23.2	(590)	23.6	(600)	23.6	(600)	2.10
106.9	(2,714)	106.9	(2,714)	106.9	(2,714)	2.11
56.4	(1,432)	56.4	(1,432)	56.4	(1,432)	2.12
120.5	(3,060)	120.5	(3,060)	120.5	(3,060)	2.13
143.5	(3,645)	143.7	(3,650)	143.9	(3,650)	2.14
13.7/13.7	(22.0/22.0)	13.7/13.7	(22.0/22.0)	13.7/13.7	(22.0/22.0)	3.1
104.3/104.3	(0.53/0.53)	82.6/82.6	(0.42/0.42)	82.6/82.6	(0.42/0.42)	3.2
98.4/98.4	(0.50/0.50)	82.6/82.6	(0.42/0.42)	82.6/82.6	(0.42/0.42)	3.3
12,836/7,500 (57,000/33,000)		13,062/7,955	(58,000/35,000)	13,062/7,955	(58,000/35,000)	3.4
	5/27	29/28			6/27	3.5
21,054	(9,550)	23,722	(10,760)	25,463	(11,550)	4.1
30,357/3,924	(13,770/1,780)	34,510/4,652	(15,650/2,110)	37,831/5,159	(17,160/2,340)	4.2
9,855/11,200	(4,470/5,080)	10,516/13,206	(4,770/5,990)	10,428/14,925	(4,730/6,770)	4.3
355/65	-15/24PR	8.25-15/18PR		8.25-15/18PR		5.1
8.25-1	5/18PR	300-15/18PR		300-15/18PR		5.2
85	(2,160)	85	(2,160)	85	(2,160)	5.3
61.6/63	(1,564/1,600)	67.6/63	(1,718/1,600)	67.6/63(1,	718/1,550)	5.4
8	(202)	8	(202)	8		5.5
9.7	(245)	9.7	(245)	9.7	(245)	5.6
	ic/Hydraulic	Dynamic/Hydraulic		Dynamic/Hydraulic		5.7
	oot	Foot		Foot		5.8
	12	12		12		6.1
KHD/B	F6M1012E	KHD/BF6M1012E		KHD/BF6M1012E		6.2
100 (75)		100 (75)		100 (75)		6.3
2,200		2,200		2,200		6.4
292.8 (4,800)		292.8 (4,800)		292.8 (4,800)		6.5
	ostatic	Hydrostatic		Hydrostatic		6.6
	78	78		78		6.7
	ly Variable		itely Variable Infinitely Variable			6.8
3,771	(260)	3,771	(260)	3,771	(260)	6.9



TEL: (33) 3646-2186/ (33) 3646-2053 www.gruasyequiposgarcia.com

LINDE H70D 15,000 LB

POWER STEERING:

Full-time hydrostatic power steering provides-low effort steering response under all operating conditions

FRAME:

Truck frames feature complete seam- welded belly pans for maximum component protection as standard equipment.

STEER AXLE:

Rugged single piece cast steer axles provide 82° interior wheel turning for maximum maneuverability. Large diameter, specially-formulated synthetic rubber mounting blocks guarantee excellent shock absorption and a wear- free lifetime mounting. Tapered roller bearings in the kingpin assemblies, grease zerks, large diameter double-acting steering cylinder and forged compact steering arms result in a highly durable axle design.

TRU-VIEW MASTS:

A wide selection of Linde-built Simple masts featuring rolled alloy I-beam construction for maximum strength are available. H50D/H60D mast assemblies feature heavy-duty six roller carriage construction. H70D/H80D utilize eight roller carriages.

HYDRAULIC SYSTEM:

Linde's exclusive sealed and pressurized hydraulic system eliminates potential hydraulic oil contamination. Even in the most severe applications abrasives are stopped from entering the system due to the elimination of an oil reservoir

breather. Dual full flow micronic filters are provided as standard equipment.

INSTRUMENTATION:

An easy-to-read combination instrument cluster displays vehicle systems status at a glance. Standard status indicators include: engine oil pressure, hydraulic oil temperature, engine coolant temperature, alternator charging, low fuel and air filter restriction. Combi instrument also features integral hourmeter.

OPERATOR COMPARTMENT:

A four-point elastic mounting secures the operator compartment to the truck frame. A separate service compartment in the right staircase houses the truck's starter battery.

TILT CYLINDERS & OVERHEAD

Dual overhead chrome-plated tilt cylinders provide maximum load support and stability. The patented Linde LTS (Linde Torsion Support) System incorporates a moving overhead guard for unmatched operator protection.

FUEL TANK CAPACITY:

18.5 gallons

SAFETY SYSTEM:

- · Standard dynamic braking
- Automatic brake engagement when engine is shut off
- Starter lock out-truck won't start unless parking brake is depressed.

STANDARD EQUIPMENT:

- Hydrostatic drive with dual pedal control
- 12-Volt electrical system
- Cold weather start system
- Single pneumatic drive tires (H50D/H60D)
- Dual pneumatic drive tires (H70D/H80D)
- Combination instrument
- Horn
- Electric ignition/shut down
- Stacked exhaust
- 3-function hydraulic valve
- Parking brake
- Hydrostatic power steering
- Load backrest and 48" forks
- Towing pin
- Weight adjustable suspension seat
- Overhead guard
- Air pre-cleaner and two-stage air filter
- Sound abatement package (78dBa)

OPTIONAL EQUIPMENT:

- Dual and Triple masts (contact factory)
- Additional hydraulic functions
- Enclosed cab with heater, defroster and wipers
- Air conditioning
- Working lights Dual drive tires
- CSE tires
- Backup alarm Catalytic muffler
- Particle filter
- Special paint

Check with dealer/factory for additional equipment availability.

** NOTES **



Linde Lift Truck Corporation 2450 West 5th North Street, Summerville, SC 29483 (843) 875-8000

E-mail: trucksales@lindelifttruck.com Web site: http://www.lindelifttruck.com



ANSI CLASSIFICATION:

Standard truck meets all applicable mandatory requirements of ANSI/ASME

B56.1 standards for powered industrial trucks.

NOTE: Performance data may vary due to motor and system efficiency tolerances. The performance depicted represents nominal values obtained under typical operating conditions. Metric dimensions are in millimeters unless otherwise specified. All metric dimensions are not direct equivalents due to rounding data. The descriptions and specifications included on this data sheet were in effect at the time of printing. Linde Lift Truck Corporation reserves when it is the time of plinting line Line Line software the right to make improvements and changes in specification or design without notice and without incurring obligation. Please check with your authorized Linde dealer for information on possible updates or revisions.



