

Standard and optional equipment

Standard equipment:

Linde twin drive pedals to control forward/reverse travel and braking
 Linde Load Control integrated in armrest
 Hydraulic-suspension comfort-class seat with extensive range of adjustments
 Hydrostatic steering with on-demand power assist
 Dual engine combustion air pre-cleaners
 High-performance hydraulic filters
 Comprehensive overhead digital instrumentation display (anti-glare surface)

Plenty of storage space
 Top-mounted tilt cylinders
 Zero-maintenance mast and tilt cylinder mountings
 Twin front work lamps
 Regulated catalytic muffler (LP)
 Parking brake
 Tow pin
 Anti restart ignition

Options:

Single drive pedal with direction selector positioned on armrest
 Integral sideshift
 Auxiliary hydraulic circuits for all mast types
 Overhead guard can be upgraded to full cabin with roof, front and rear screens and doors (also available with tinted glass)
 Wiper-washers for front, rear and roof screens
 Cab heater with integral pollen filter
 Roof shade, clipboard, interior lighting
 LBR

Truck lighting, work lamps
 Audible reversing alarm, amber warning light
 Paperwork clip board
 LPG ultrasonic fuel level indicator (currently not available)
 17° Pivoting operators seat
 Electronic tilt angle limiting
 Custom paint
 Catalytic muffler (diesel)
 Mirrors

Other options available on request



Diesel and LPG Forklift Trucks
 Capacity 3000, 3500 and 4000 lb
 H16D/T, H18D/T, and H20D/T
 SERIES 391



Safety

Linde ProtectorFrame: The overhead guard and its supporting frame form a strong and completely enclosed protective zone providing optimum structural integrity and safety. The top mounted tilt cylinders provide seamless, smooth control of the tilt movements for excellent load stability in all operating conditions.

Performance

Low fuel consumption levels, low exhaust emissions, and impressive performance. Advanced engine and drive technology combined with the original Linde Load Control system enable the operator to use the truck's potential to maximise productivity. Comfortable and precise fingertip control of all hydraulic functions.

Comfort

Climb on board relaxed, finish the shift relaxed. Designed to the most advanced ergonomic standards. Spacious cab interior, adjustable armrest, suspension seat, and functional positioning of easy-actuation controls make for a stress-free working environment.

Reliability

Proven in tough sustained operations. Isolation of the cab from the mast, drive axle and chassis results in reduced shock and vibrations. Maintenance-free mounting of axles and tilt cylinders cuts downtime and operating costs.

Productivity

Effective and cost efficient: The "New Generation" Linde hydrostatic drive eliminates torque converter transmission, clutch, differential, and drum brakes. As a result, servicing costs are low, truck uptime is high and productivity is enhanced.

Features

Original Linde Hydrostatic drive

- Responsive, smooth and precise driving
- No clutch, differential or drum brakes; hydrostatic drive assumes function of service brake
- Robust drive system, proven in severe duty environments
- Low maintenance costs and long life



Linde ProtectorFrame

- Safe and robust chassis, enclosed on all sides
- Engine hood and servicing doors open wide for convenient access to all components

Linde twin drive pedals

- Quick change of forward/reverse direction
- Short pedal stroke
- No leg fatigue
- Increased productivity

Linde Load Control

- Accurate, safe load handling
- Effortless fingertip control of all hydraulic functions
- Traction and all hydraulic functions completely separate

High-economy engine technology

- Diesel and LPG engines incorporating the most advanced technology
- High torque
- Low fuel consumption
- Low exhaust gas and soot emission levels



Linde operator compartment

- Designed to advanced ergonomic standards
- Spacious cab with automobile equivalent legroom
- Excellent visibility of load and surroundings
- Cushioned drive and steer axles reduce road shock
- Standard sound abatement design (75/73 dBa)

Linde Truck Control

- Reliable microprocessor controller technology
- Easily matched to individual application requirements
- Component protection resulting from redundant monitoring systems
- Automatic control of engine RPM

Linde clear-view mast

- Superb visibility
- Exceptional residual capacity
- Zero-maintenance shock mounting of mast and tilt cylinders
- Electronic limiting of tilt angle

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ANSI CLASSIFICATION: Speedlift truck models. All applicable mandatory requirements of ANSI/ISO 9081 standards for powered industrial trucks. NOTE: Performance data may vary due to motor and system efficiency tolerances. The performance data represent 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 Material Handling North America Corporation reserves 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.

Technical data

May 2007

Characteristics		Linde		Linde		Linde			
		H16D	H16T	H18D	H18T	H20D	H20T		
1.1	Manufacturer	Linde							
1.2	Model designation	H16D	H16T	H18D	H18T	H20D	H20T		
1.3	Power unit: battery, diesel, gasoline, LP gas, AC	Diesel	LP	Diesel	LP	Diesel	LP		
1.4	Operation: manual, pedestrian, rider standing, rider seated, order picker	Rider seated							
1.5	Load capacity	Q lb (kg)	3000 (1600)	3000 (1600)	3500 (1800)	3500 (1800)	4000 (2000)	4000 (2000)	
1.6	Load center (axle center to fork face)	c in (mm)	24 (500)	24 (500)	24 (500)	24 (500)	24 (500)	24 (500)	
1.8	Load distance (front overhang)	x in (mm)	14.3 (365)	14.3 (365)	14.3 (370)	14.3 (370)	14.5 (374)	14.5 (374)	
1.9	Wheelbase	in (mm)	59.1 (1500)	59.1 (1500)	60.6 (1540)	60.6 (1540)	63.0 (1600)	63.0 (1600)	
Weight	2.1	Service weight	6052 (2745)	6008 (2725)	6415 (2910)	6371 (2890)	6746 (3060)	6702 (3040)	
	2.2	Axle loading with load, front/rear	lb (kg)	7805/1247 (3820/525)	7717/1291 (3780/545)	8671/1244 (4160/550)	8583/1288 (4120/570)	9500/1246 (4480/580)	9412/1290 (4440/600)
	2.3	Axle loading without load, front/rear	lb (kg)	2855/3197 (1295/1450)	2767/3241 (1255/1470)	2954/3461 (1340/1570)	2866/3505 (1300/1590)	3064/3682 (1390/1670)	2976/3726 (1350/1690)
Wheels & Tires	3.1	Tire type - front/rear: C (cushion), SE (cushion super elastic), P (pneumatic)	SE						
	3.2	Tire size: front	18 x 7-8		18 x 7-8		200 / 50-10		
	3.3	Tire size: rear	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		
	3.6	Track width, front	b10 in (mm)	36.6 (930)	36.6 (930)	36.6 (930)	36.6 (930)	37.2 (945)	37.2 (945)
	3.7	Track width, rear	b11 in (mm)	34.4 (873)	34.4 (873)	34.4 (873)	34.4 (873)	34.4 (873)	34.4 (873)
	Dimensions	4.1	Mast/fork carriage tilt: forward/back	6.0/6.0		6.0/6.0		6.0/6.0	
4.2		Height of mast lowered	See mast table		See mast table		See mast table		
4.3		Free lift	See mast table		See mast table		See mast table		
4.4		Lift	See mast table		See mast table		See mast table		
4.5		Height of mast extended	See mast table		See mast table		See mast table		
4.7		Height of overhead guard/cab	h6 in (mm)	83.6 (2123)	83.6 (2123)	83.6 (2123)	83.6 (2123)	83.6 (2123)	
4.8		Height of seat	h7 in (mm)	42.0 (1067)	42.0 (1067)	42.0 (1067)	42.0 (1067)	42.0 (1067)	
4.12		Height of tow coupling	h10 in (mm)	21.9 (557)	21.9 (557)	21.6 (549)	21.6 (549)	20.9 (530)	20.9 (530)
4.19		Overall length	l1 in (mm)	129.0 (3112)	129.0 (3112)	130.4 (3152)	130.4 (3152)	133.5 (3231)	133.5 (3231)
4.20		Length to fork face	l2 in (mm)	87.0 ¹ (2212) ¹	87.0 ¹ (2212) ¹	88.4 ¹ (2252) ¹	88.4 ¹ (2252) ¹	91.5 ¹ (2331) ¹	91.5 ¹ (2331) ¹
4.21		Overall width	b1/b2 in (mm)	42.8 ³ (1086) ³	42.8 ³ (1086) ³	42.8 ³ (1086) ³	42.8 ³ (1086) ³	45.4 (1152)	45.4 (1152)
4.22		Fork dimensions	s/e/l in (mm)	1.5x4x42 (40x80x900)	1.5x4x42 (40x80x900)	1.5x4x42 (45x100x900)	1.5x4x42 (45x100x900)	1.5x4x42 (45x100x900)	1.5x4x42 (45x100x900)
4.23		Fork carriage: class		2A	2A	2A	2A	2A	2A
4.24		Width of fork carriage	b3 in (mm)	40.9 (1040)	40.9 (1040)	40.9 (1040)	40.9 (1040)	40.9 (1040)	40.9 (1040)
4.31		Ground clearance under mast, with load	m1 in (mm)	3.7 (93)	3.7 (93)	3.6 (92)	3.6 (92)	3.7 (95)	3.7 (95)
4.32		Ground clearance, center of wheelbase	m2 in (mm)	4.7 (119)	4.7 (119)	4.6 (118)	4.6 (118)	4.8 (121)	4.8 (121)
4.33		Aisle width	Ast in (mm)	93.3 ² (2370) ²	93.3 ² (2370) ²	94.9 ² (2411) ²	94.9 ² (2411) ²	98.2 ² (2495) ²	98.2 ² (2495) ²
4.35		Turning radius	Wa in (mm)	78.9 (2005)	78.9 (2005)	80.4 (2041)	80.4 (2041)	83.5 (2121)	83.5 (2121)
4.36	Minimum pivot point distance	b13 in (mm)	23.6 (600)	23.6 (600)	24.2 (615)	24.2 (615)	25.1 (638)	25.1 (638)	
Performance	5.1	Travel speed, with/without load	mph (km/h)	12.4/12.4 (20.0/20.0)	12.4/12.4 (20.0/20.0)	12.4/12.4 (20.0/20.0)	12.4/12.4 (20.0/20.0)	12.4/12.4 (20.0/20.0)	12.4/12.4 (20.0/20.0)
	5.2	Lifting speed, with/without load	fpm (m/s)	118.1/124.0 (0.6/0.63)	118.1/124.0 (0.6/0.63)	118.1/124.0 (0.6/0.63)	118.1/124.0 (0.6/0.63)	106.3/112.2 (0.54/0.57)	106.3/112.2 (0.54/0.57)
	5.3	Lowering speed, with/without load	fpm (m/s)	112.2/112.2 (0.57/0.57)	112.2/112.2 (0.57/0.57)	112.2/112.2 (0.57/0.57)	112.2/112.2 (0.57/0.57)	112.2/112.2 (0.57/0.57)	112.2/112.2 (0.57/0.57)
	5.5	Drawbar pull, with/without load	lbs (N)	2900/2282 (12900/10150)	2900/2214 (12900/9850)	2900/2360 (12900/10500)	2900/2293 (12900/10200)	2900/2450 (12900/10900)	2900/2383 (12900/10600)
	5.7	Climbing ability, with/without load	%	32 / 38	32 / 37	29 / 37	29 / 36	27 / 36	27 / 36
	5.9	Acceleration, with/without load	sec	4.9/4.3	4.9/4.3	5.0/4.5	5.0/4.5	5.1/4.6	5.1/4.6
5.10	Service brake		Hydrostatic		Hydrostatic		Hydrostatic		
Engine	7.1	Engine manufacturer/type	VW / BXT	VW / BEF	VW / BXT	VW / BEF	VW / BXT	VW / BEF	
	7.2	Engine rating	hp (kw)	34.9 (26)	37.5 (28)	34.9 (26)	37.5 (28)	34.9 (26)	37.5 (28)
	7.3	Rated speed	rpm ¹	2100	2100	2100	2100	2100	2100
	7.4	Number of cylinders/Engine displacement	cu in (cc)	4/116 (4/1896)	4/121 (4/1984)	4/116 (4/1896)	4/121 (4/1984)	4/116 (4/1896)	4/121 (4/1984)
Other	8.1	Traction control	Hydraulic/ininitely variable						
	8.2	Working pressure for attachments	psi (bar)	2466 (170)	2466 (170)	2466 (170)	2466 (170)	2466 (170)	2466 (170)
	8.3	Oil flow attachments	gal/min (l/min)	10.0 (38)	10.0 (38)	10.0 (38)	10.0 (38)	10.0 (38)	10.0 (38)
	8.4	Noise level at driver's ear	dB(A)	75	73	75	73	75	73

¹ Add 1 in (25 mm) for triple mast
² Plus length of load plus clearance for 90° stack
³ SE tires 200/50-10 for simple and dual mast from 177 in. lift and triple mast from 185 in. lift add 3.2 in (81 mm)

Capacity

391-01 Series Model H16D/T

1.5" x 4" x 42" Forks**
 SE 180/70-8 (18 X 7-8) SC 15 Drive Tires**
 *Cascade HOSS model #55F-SSS-A196, for Linde

Mast Capacity Table

h1	h3	h2	
83.5	124	0.0	Simplex
91.5	138.5	0.0	Simplex
83.5	123	60	Duplex
91.5	139	68	Duplex
83.5	182	60	Triplex
85.5	188	62	Triplex
91.5	206	68	Triplex
97.5	215	70.5	Triplex

Capacity (lb) @ 24" Load Center**

	Std. Carriage	Integral SS Carriage	Hang-on SS Carriage*
83.5	3,000	3,000	2,865
91.5	3,000	3,000	2,865
83.5	3,000	3,000	2,865
91.5	3,000	3,000	2,865
83.5	3,000	2,850	2,820
85.5	2,985	2,685	2,685
91.5	2,650	2,175	2,175
97.5	2,385	1,895	1,895

391-01 Series Model H18D/T

1.5" x 4" x 42" Forks**
 SE 200/50-10 SC 15 Drive Tires**
 *Cascade 40.9" HOSS model #55F-SSS-A196, for Linde

Capacity (lb) @ 24" Load Center**

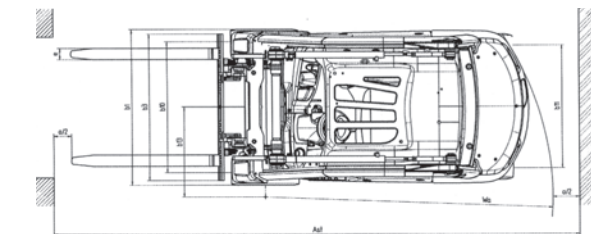
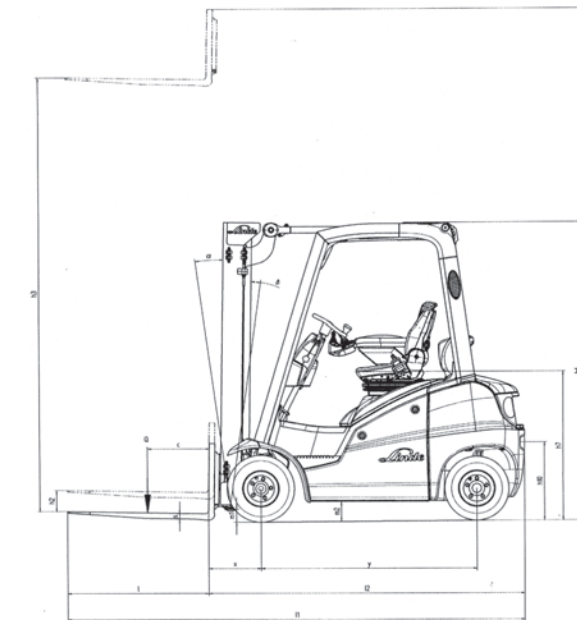
	Std. Carriage	Integral SS Carriage	Hang-on SS Carriage*
83.5	3,500	3,500	3,280
91.5	3,500	3,500	3,280
83.5	3,500	3,500	3,280
91.5	3,500	3,500	3,280
83.5	3,500	3,375	3,280
85.5	3,500	3,190	3,190
91.5	3,245	2,630	2,630
97.5	2,925	2,320	2,320

391-01 Series Model H20D/T

1.5" x 4" x 42" Forks**
 SE 200/50-10 SC 15 Drive Tires**
 *Cascade 40.9" HOSS model #55F-SSS-A196, for Linde

Capacity (lb) @ 24" Load Center**

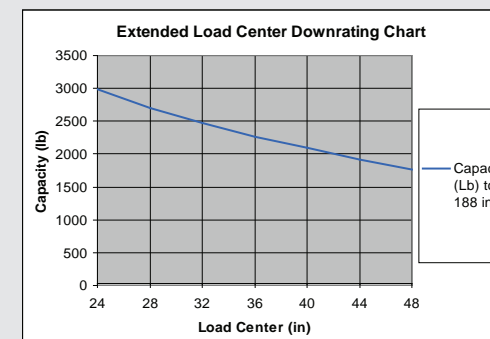
	Std. Carriage	Integral SS Carriage	Hang-on SS Carriage*
83.5	4,000	4,000	3,670
91.5	4,000	4,000	3,670
83.5	4,000	4,000	3,670
91.5	4,000	4,000	3,670
83.5	4,000	3,775	3,670
85.5	4,000	3,570	3,570
91.5	3,635	2,955	2,955
97.5	3,275	2,590	2,590



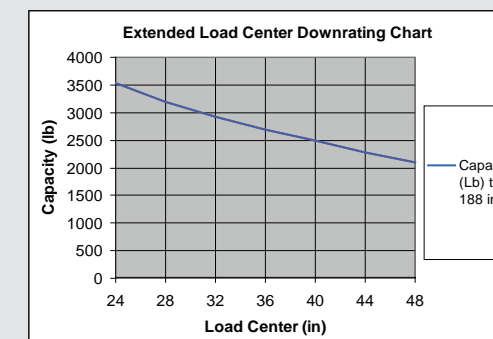
Downrating Charts

Reference SE tires with standard carriage and forks only

H16D/T (188 Triplex Mast)



H18D/T (188 Triplex Mast)



H20D/T (188 Triplex Mast)

