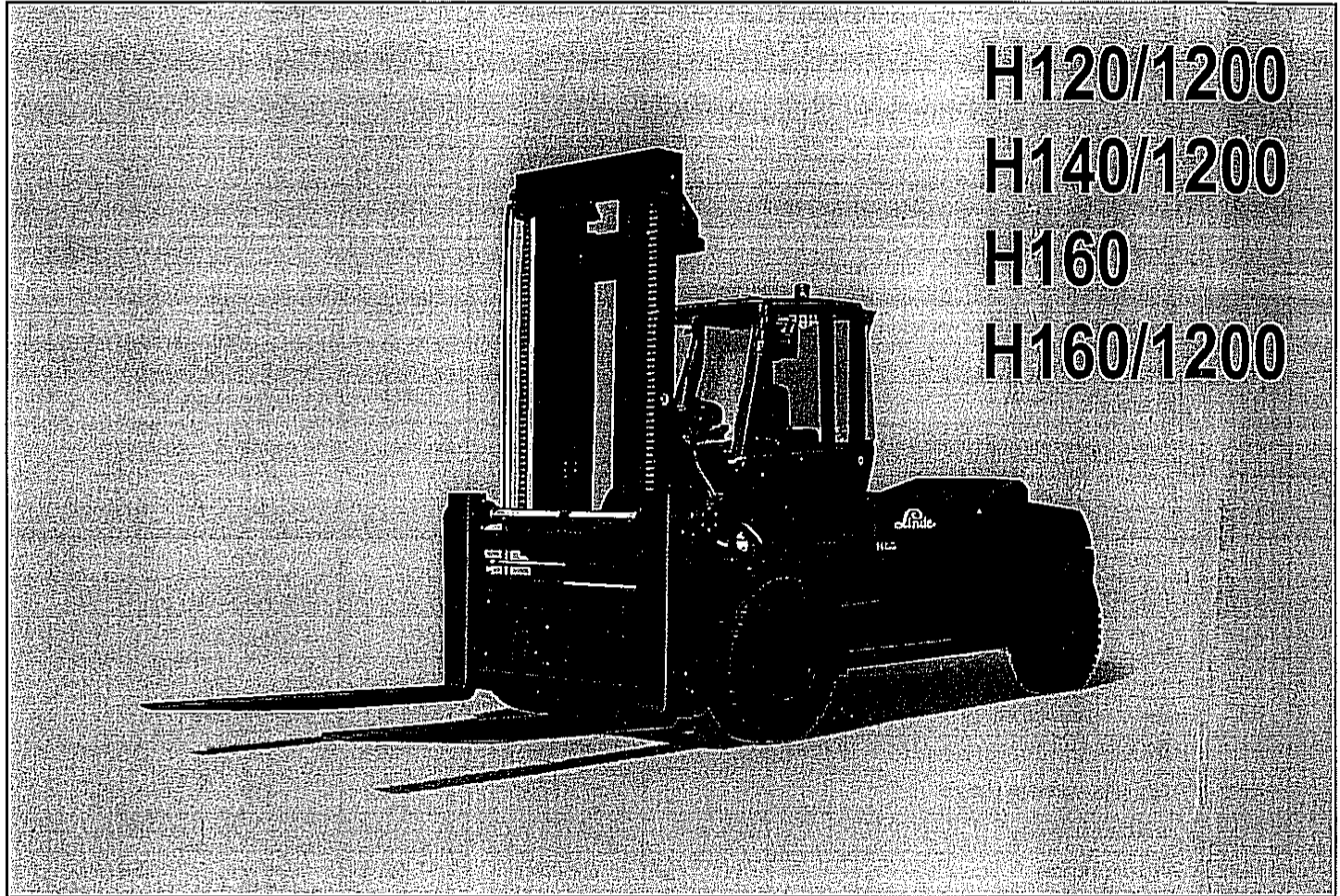


# Pneumatic Tire Diesel Trucks 26,000 - 35,000 lbs. Capacity

*Linde*



**H120/1200**

**H140/1200**

**H160**

**H160/1200**

## Introduction

The 26,000 to 35,000 lbs. capacity range has been developed to suit a wide spectrum of applications. These rugged models incorporate the latest technological, as well as ergonomic, advances contributing to a family of trucks that offers unmatched performance, productivity and reliability.

## Standard Design Features

- Centrally shock-mounted, all-weather cab
- Three wiper/washer systems
- Heater/defroster
- Four-way adjustable operator seat
- Sound insulation package
- Multifunction hydraulic control handle
- Extensive instrumentation package in cab
- Perkins turbocharged diesel engine, designed to deliver excellent performance with lowest possible emissions. Engines feature extended service intervals of 500 operating hours.
- Clark-Hurth three-speed powershift transmission features built-in reversing inhibitor, electronic gear selection (EGS) and full diagnostic capability.
- Heavy-duty Kessler drive axle with wet disc brakes, spiral bevel primary and hub planetary secondary gear reduction.
- Fully greaseable cast steer axle with forged steering arms, large diameter double-acting steering cylinder and multi-lip grease seals to retain lubricant. Includes hydrostatic power steering system.
- Robust, clear view, all-roller mast featuring an integral carriage with sideshift and fork positioner. All models retain full capacity up to 240" lift with this mast/carriage design.
- Full bolt-on chassis belly pans.
- Automatic engine shutdown system for high coolant temperature and low oil pressure.
- Recessed and protected steer hubs, studs and nuts.

# Manufacturer's Data and Design Characteristics

November 2002

Characteristics	1.1	Manufacturer		Linde	
	1.2	Model designation		H120/H200	
	1.3	Power unit: Diesel, Gasoline, LP gas		Diesel	
	1.4	Operation: manual, pedestrian, stand-on, seated, order picker		Rider seated	
	1.5	Load capacity	lbs (kg)	26,000	(12,000)
	1.6	Load center	c in (mm)	48	(1,200)
	1.8	Axle center to fork face	x in (mm)	36.6	(930)
	1.9	Wheelbase	Y in (mm)	144.5	(3,670)
Weight	2.1	Service weight	lbs (kg)	43,164	(19,597)
	2.2	Axle load with load, front/rear	lbs (kg)	64,200 / 5379	(29,121 / 2440)
	2.3	Axle load without load, front/rear	lbs (kg)	22,299 / 20,904	(10,115 / 9482)
Wheels and Tires	3.1	Tires, front/rear (SE=CS superelastic, P=pneumatic)		P/P	
	3.2	Tire size, front		12.00 x 20/20 PR	
	3.3	Tire size, rear		12.00 x 20/20 PR	
	3.5	Wheels, number front/rear (x = driven)		4x/2	
	3.6	Track width, front	b10 in (mm)	72.4	(1,838)
	3.7	Track width, rear	b11 in (mm)	81.4	(2,067)
	Dimensions	4.1	Mast/fork carriage tilt, forward/back	a/b (o)	5/10°
4.2		Height of mast lowered	h1 in (mm)	See Mast Table	
4.3		Free lift	h2 in (mm)	See Mast Table	
4.4		Lift	h3 in (mm)	See Mast Table	
4.5		Height of mast extended	h4 in (mm)	See Mast Table	
4.7		Height of overhead guard (cabin)	h6 in (mm)	122.6	(3,115)
4.8		Height of seal/stand-on platform	h7 in (mm)	78.3	(1,990)
4.19		Overall length	l1 in (mm)	315.0	(8,000)
4.20		Length to fork face	l2 in (mm)	220.5	(5,600)
4.21		Overall width	b1/b2	100.4	(2,550)
4.22		Fork dimensions	s/e/l in (mm)	3.5x7.0x94.5	(90x180x2,400)
4.23		Fork carriage		Pin type	
4.24		Width of fork carriage	b3 in (mm)	98.4	(2,500)
4.31		Ground clearance, mast	m1 in (mm)	11.2	(285)
4.32		Ground clearance, center of wheelbase	m2 in (mm)	12.6	(320)
4.35		Turning radius	wa in (mm)	202.8	(5,150)
Performance	5.1	Travel speed with/without load	mph (km/h)	15.5 / 15.5	(25 / 25)
	5.2	Lifting speed with/without load	fpm (m/s)	74.8 / 78.7	(0.38 / 0.40)
	5.3	Lowering speed with/without load	fpm (m/s)	100.3 / 102.3	(0.51 / 0.52)
	5.5	Traction force with/without load	lbs (kn)	21,132 / -	(94.0 / -)
	5.7	Climbing ability with/without load	%	29/30	
	5.10	Service brake		Wet Disc	
I/C Engine	7.1	Manufacturer of engine/type		Perkins 1006.60T	
	7.2	Engine rated power to ISO 1585	hp (kW)	150 <sup>2</sup>	(112) <sup>2</sup>
	7.3	Rated speed	rpm	2,500	
	7.4	Number of cylinders/displac. ccm	cm <sup>3</sup>	6/6,000	
Others	8.1	Transmission		Torque converter 3/3	
	8.2	Working pressure for attachments	psi/bar	3045 / 210	
	8.4	Mean noise level at driver's ear	db (a)	74	

1) 15°F-10°B optional 2) Optional power unit - 171hp / 128kW

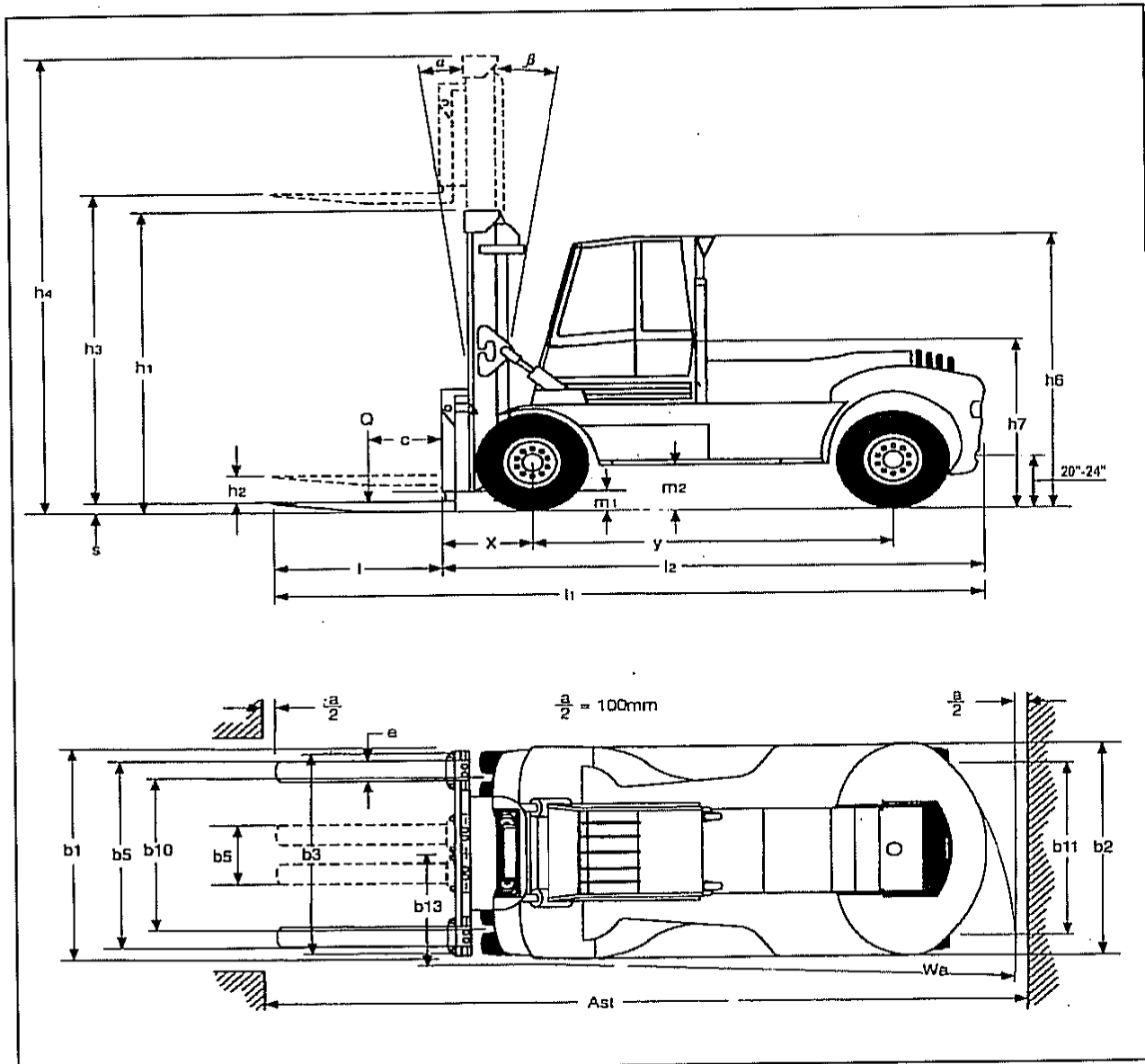
	Linde	Linde	Linde
	H140/1200	H160	H160/1200
	Diesel	Diesel	Diesel
	Rider seated	Rider seated	Rider seated
	31,000 (14,000)	35,000 (16,000)	35,000 (16,000)
	48 (1,200)	24 (600)	48 (1,200)
	38.4 (975)	36.6 (930)	38.4 (975)
	144.5 (3,670)	144.5 (3,670)	144.5 (3,670)
	46,550 (21,115)	42,474 (19,229)	49,818 (22,597)
	70,023 / 6510 (31,762 / 2953)	71,586 / 6391 (32,471 / 2899)	79267 / 5835 (35,955 / 2647)
	22,295 / 24,255 (10,113 / 11,002)	21,340 / 21,208 (9680 / 9620)	23,108 / 26,709 (10,482 / 12,115)
	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
	72.4 (1,838)	72.4 (1,838)	72.4 (1,838)
	81.4 (2,067)	81.4 (2,067)	81.4 (2,067)
	5/10 <sup>1</sup>	5/10 <sup>1</sup>	5/10 <sup>1</sup>
	See Mast Table	See Mast Table	See Mast Table
	See Mast Table	See Mast Table	See Mast Table
	See Mast Table	See Mast Table	See Mast Table
	See Mast Table	See Mast Table	See Mast Table
	122.6 (3,115)	122.6 (3,115)	122.6 (3,115)
	78.3 (1,990)	78.3 (1,990)	78.3 (1,990)
	316.8 (8,045)	267.8 (6,800)	316.8 (8,045)
	222.3 (5,645)	220.5 (5,600)	222.3 (5,645)
	100.4 (2,550)	100.4 (2,550)	100.4 (2,550)
	3.9x9.8x94.5 (100x250x2,400)	3.5x7.0x45.3 (90x180x1,150)	3.9x9.8x94.5 (100x250x2,400)
	Pin type	Pin type	Pin type
	98.4 (2,500)	98.4 (2,500)	98.4 (2,500)
	9.8 (250)	11.2 (285)	9.8 (250)
	12.6 (320)	12.6 (320)	12.6 (320)
	202.8 (5,150)	202.8 (5,150)	202.8 (5,150)
	15.5 / 15.5 (25 / 25)	15.5 / 15.5 (25 / 25)	15.5 / 15.5 (25 / 25)
	78.7 / 78.7 (0.40 / 0.40)	74.8 / 78.7 (0.38 / 0.40)	78.7 / 78.7 (0.40 / 0.40)
	100.3 / 102.3 (0.51 / 0.52)	100.3 / 102.3 (0.51 / 0.52)	100.3 / 102.3 (0.51 / 0.52)
	21,132 / - (94.0 / -)	21,132 / - (94.0 / -)	21,132 / - (94.0 / -)
	25/27.5	26/29	23/26
	Wet Disc	Wet Disc	Wet Disc
	Perkins 1006.60T	Perkins 1006.60T	Perkins 1006.60T
	150 <sup>2</sup> (112) <sup>2</sup>	150 <sup>2</sup> (112) <sup>2</sup>	150 <sup>2</sup> (112) <sup>2</sup>
	2,500	2,500	2,500
	6/6,000	6/6,000	6/6,000
	Torque converter 3/3	Torque converter 3/3	Torque converter 3/3
	3335 / 230	3625 / 250	3625 / 250
	74	74	74

# Mast Table

## Standard Clearview Masts

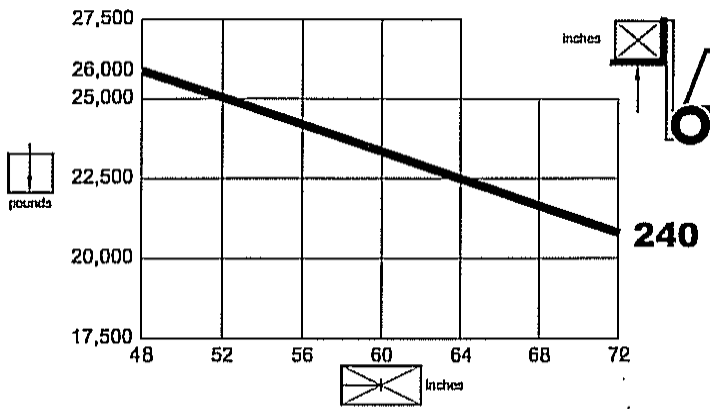
H120/1200 and H160		172 Series					
h3+s	Lift height	150 (3,790)	173 (4,390)	197 (4,990)	220 (5,590)	244 (6,190)	268 (6,790)
h2	Free lift	6 (150)	6 (150)	6 (150)	6 (150)	6 (150)	6 (150)
h1	Height, mast lowered	145 (3,670)	156 (3,970)	168 (4,270)	180 (4,570)	192 (4,870)	204 (5,170)
h4	Height, mast extended	214 (5,445)	238 (6,045)	262 (6,645)	286 (7,245)	309 (7,845)	333 (8,445)

H140/1200 and H160/1200		173 Series					
h3+s	Lift height	150 (3,800)	173 (4,400)	197 (5,000)	220 (5,600)	244 (6,200)	-- --
h2	Free lift	6 (150)	6 (150)	6 (150)	6 (150)	6 (150)	-- --
h1	Height, mast lowered	153 (3,875)	164 (4,175)	176 (4,475)	188 (4,775)	200 (5,075)	-- --
h4	Height, mast extended	223 (5,650)	246 (6,250)	270 (6,850)	293 (7,450)	317 (8,050)	-- --

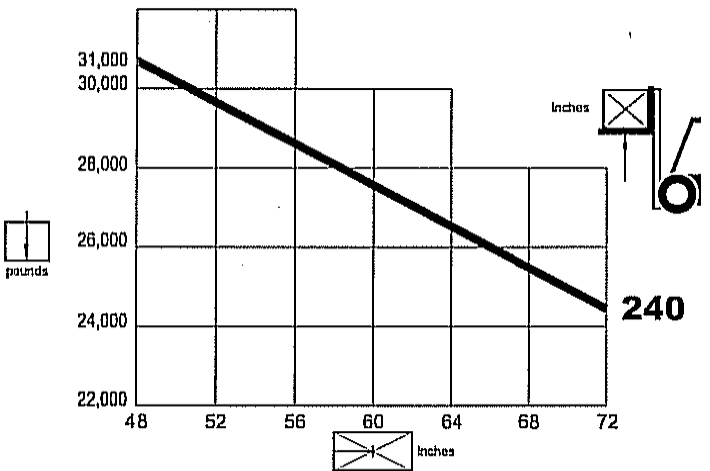


# Lifting Capacity Diagrams:

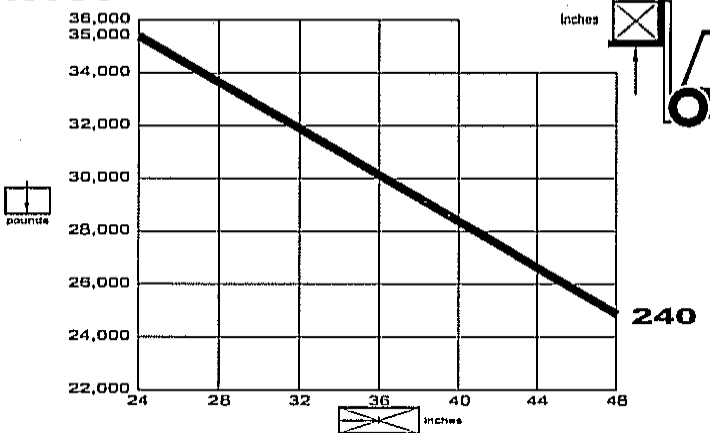
## H120/1200



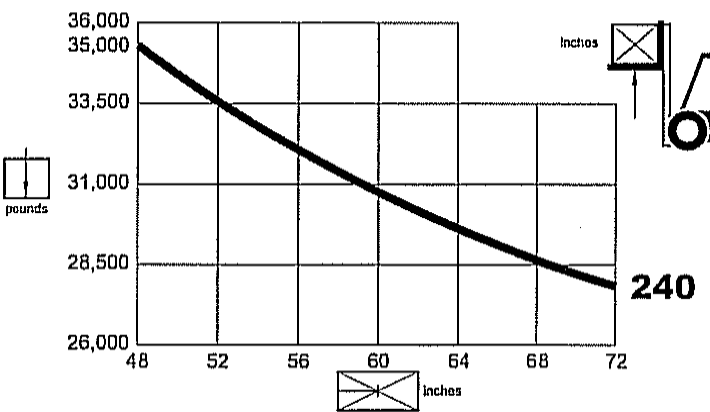
## H140/1200

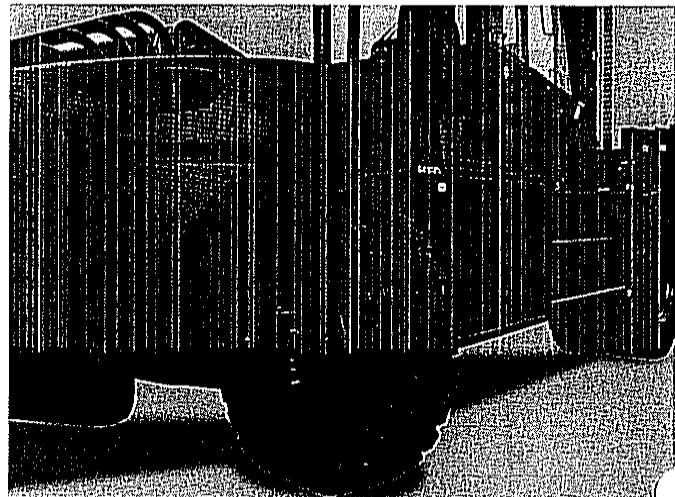
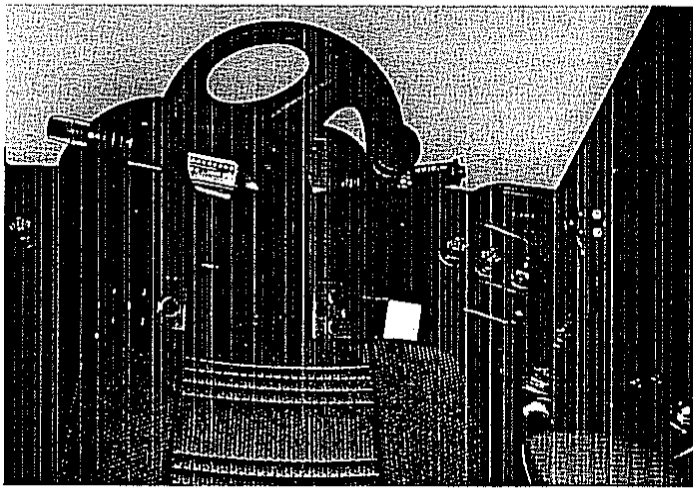


## H160



## H160/1200





### Safety:

- Transmission integrated forward/reverse interlock and downshift protection
- Engine neutral start
- Safe load lowering valve
- Anti kick valves in steering system
- High mounted cab for good visibility
- Low noise level
- Central warning light
- Horn
- Internal rear view mirror
- Non-slip service access

### Standard equipment:

- Full cab with wipers / washers and heater
- Fully adjustable suspension seat
- Perkins diesel engine with turbo charger
- Three speed powershift transmission with safety interlock
- Heavy duty double reduction drive axle
- Multi-disc oil-cooled brakes
- Anti-stall engine speed up for all working hydraulic functions
- Power assisted hydraulic steering
- Twin mounted drive wheels
- Pneumatic tires
- Standard clear-view lift mast
- Safety monitors for engine and transmission oil pressure
- Planetary hubs
- Noise suppression design

### Optional equipment

- 128 kW/170H.P. high torque Intercooled engine
- Full free lift duplex mast
- Full free lift triple mast
- Non hydraulic fork carriage
- Carriage backrest extension
- Height level engine pre-filter
- Cold climate specification
- Cabin pre heat system
- Air conditioning
- Road lighting
- Working lights
- External mirrors
- Back-up alarm
- Reversing lights
- Fire extinguisher



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**ANSI CLASSIFICATION:**  
 Standard truck meets all applicable mandatory requirements of ANSI/ASME B56.1 standards for powered industrial trucks.  
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