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Features









and wipers

- Three independent braking systems.
- Asbestos-free brake system components.
- Hydraulic overload protection.
- Burst hose check valve.
- Minimal exhaust emissions ■ Excellent all-round visibility...
- Seat belt
- Overhead guard.

Standard equipment

Full suspension PVC seat.

(H20/H25/H30), 3100 mm (H35).

All items as shown under safety. Perkins 903.27 diesel engine (H 20/H 25/H 30). Perkins 903.27 HR diesel engine (H 35). Renault F3R–264 LPG engine (H20/H25) Perkins G903.27 LPG engine (H30/H35). Catalytic exhaust converter (LPG). Lansing hydrostatic transmission Automatic engine speed control. Compact drive axle. Combined instrumentation and hour meter. Hydrostatic power steering. Contoured solid (superelastic) tyres.

Clearview standard mast - lift height 3 095 mm

national network company on (0845) 608 5000

Fork carriage - 4 rollers, 1 150 mm wide (H 20/ H25); 6 rollers, 1 150 mm wide (H30/H35). Lansing twin accelerator pedal control. Single lever for lift and tilt functions. Standard colour scheme - vermilion and char-

Optional equipment

Clearview standard masts with lift heights to 4595 mm (H20/H25/H30), 4600 mm (H35). Clearview duplex masts with lift heights to 3710 mm (H²20/H25), 3760 mm (H³30), 3770mm (H35). Clearview triplex masts with lift heights to 6 600 mm (H 20/H 25), 6 650 mm (H 30), 6 665 mm (H 35). Single pedal accelerator with direction lever on steering column. Individual levers for lift and tilt functions. Additional hydraulic circuits.

- Overhead guard with:
- laminated glass/metal cover polycarbonate cover
- cover and front screen and wiper
- cover and front and rear screens, and wipers.
- flexible canopy, front screen and wiper. Full cab with hinged doors, front and rear screens,

Cab heater Rearview mirrors on cab. Container stuffer version Beverage industry version. Truck lighting. Working lamp(s) Flashing amber beacon. LPG volumetric tank. Spark arrestor. Engine air pre-filter Exhaust particulate filter (diesel). Twin mounted front wheels. Pneumatic tyres. Fabric covered seat Integral sideshift. Load backrest extension. Fork extensions. Alternative fork lengths. Alternative fork carriage widths. Alternative number of fork carriage rollers. Reduced travel and/or lowering speed. Audible warning on reverse travel Hydraulic accumulator. Alternative colour schemes

Other options available on request

Lansing Linde Ltd. Kingsclere Road, Basingstoke, Hampshire RG21 6XJ. Tel: (01256) 342000. Fax: (01256) 342923. Web: www.lansinglinde.co.uk For more information please contact your nearest





Engine powered counterbalance truck 2000, 2500, 3000 and 3500 kg



Introduction

The superbly styled engine powered models H20, H25, H30 and H35, which comply with EC directives, have been developed to meet the most arduous application

The unique design features result from a thorough analysis of today's materials handling requirements to achieve maximum productivity. The overall design concept ensures excellent operator comfort and efficiency, contributing significantly to high work throughput with minimum fatigue.

Features

- Operator's compartment developed to provide an unsurpassed working environment for optimum comfort, safety and productivity.
- Unique Lansing hydrostatic control for unequalled performance, reliability and precision.
- Fuel efficient, low noise, low emission engines for reduced operating costs and environmental acceptability.
- Advanced design, full suspension, comfort seat completely adjustable to operator's size and weight.
- A range of clearview masts with excellent visibility for safe, efficient load handling.
- Operator's compartment secured to chassis with hydraulically damped mountings for minimal noise and vibration levels.

Operator's compartment and controls

The spacious operator's compartment has been designed totally with the operator in mind. Every aspect of form and function has been evaluated to maximise the combined efficiency of man and machine for increased productivity.

A low step allows easy access to the operator's compartment which is secured to the chassis by special mountings with hydraulic

suspension for minimal noise and vibration levels to give a superb working environment.

The advanced ergonomic layout of all operating controls ensures optimum comfort, safety and efficiency. The Lansing twin accelerator pedals together with the hydrostatic transmission system make smooth accurate load handling easy, even in confined areas. Low fascia and chassis lines together with a specially profiled overhead guard and clearview mast ensure excellent operator visibility at all

The specially designed full suspension seat, complete with seat belt, supports every operational body movement with adjustment to suit every operator.

The combined instrumentation and hour meter enables cost effective planning of maintenance intervals.

Chassis

The chassis has been designed to achieve maximum strength and rigidity and is completely enclosed to give optimum protection to the engine and other components whilst preventing the ingress of water and dust to these areas.

The functional design also improves operator visibility and minimises noise levels.

Engine and transmission

These models are available with either diesel or LPG powered, liquid cooled engines which, in combination with the hydrostatic transmission and automatic speed control, offer unrivalled performance.

Engine speed is automatically regulated to accurately meet the demands placed on the hydraulic or transmission system. This avoids the high engine rpm associated with conventional trucks and results in reduced fuel consumption, minimal exhaust emissions, lower noise levels and prolonged engine life.

hydrostatic transmission system provides smooth, infinitely variable control of acceleration, speed and braking. This unique,

virtually maintenance free system. replaces the gear set of a conventional truck, and the hydrostatic braking effect eliminates the need for the normal friction service brakes.

This power pack provides impressive, responsive performance under all operating conditions for increased productivity and reduced maintenance for exceptionally cost effective load handling.

Hydrostatic power steering requiring exceptionally low steering effort is fitted, which in combination with the specially designed 300 mm diameter steering wheel and the single, double acting steer cylinder, allows a steering lock of 82° for excellent manoeuvrability and maximum operator efficiency with minimum fatigue.

Mast and hydraulics

A range of clearview masts constructed of profiled steel channel for strength and durability available. The lift cylinders are mounted behind the mast channels for optimum visibility through the mast.

Automatic speed control ensures smooth, precise, energy efficient lift and tilt movements. Sealed for life angled rollers ensure excellent alignment of the moving mast sections for minimal friction during lift and lowering. A single lever operates lift and tilt functions.

These models are equipped with three independent braking systems:

- Controlled hydrostatic braking by progressive release of the accelerator pedal.
- Pressure applied to the brake pedal initiates hydrostatic braking and applies the mechanically operated disc brakes on the front wheels.
- Failsafe automatic application of the multidisc brakes in the drive axle when the engine is switched off.



	LANSING Counterbalance truck Designation Data sheet for materials handling equipment to VDI 3586 VDI 2198							VDI 2198		
1	JULY 2000 Manufacturer's data and design characteristics Model types Registr						Registration note			
	1.1	Manufacturer		Lansing	Lansing	Lansing			Lansing	
	1.2	Model designation		H 20 D H 20 T	H 25 D H 25 T	H 30 D	H 30 T		H 35 D H 35 T	T
tics	1.3	Power unit: battery, diesel, petrol, LP gas, mains power		Diesel LPG	Diesel LPG	Diesel	LPG		Diesel	
erisi	1.4	Operation		Seated	Seated	Seated			Seated	
acte	1.5	Load capacity	Q (t)	2.0	2.5	3.0			3.5	
har	1.6	Load centre	c (mm)	500	500	500			500	
	1.8	Axle centre to fork face	x (mm)		520	523			528	
	1.9	Wheelbase	y (mm)	1 695	1 715	1 785			1 850	
S	2.1	Service weight	kg	3 8 9 3 6 7 5	4350 4140	4 895			5 500	
ight	2.2	Axle load with load, front / rear	kg	5 190/705 5 010/665	6 175/675 6 015/6	325 7 105/985			8 020/980	s_ m ₁ _ v
Wei	2.3	Axle load without load, front / rear	_	1 975/1 920 1 780/1 84)		2510/2990	-
(0	3.1	Tyres, front/rear (SE = CS superelastic, P = pneu)		SE/SE 1)	SE/SE 1)	SE/SE 1)			SE/SE 1)	
tyre	3.2	Tyre size, front		7.00 – 12 ²)	7.00 – 12 ²)	28 x 9 – 1	5 2)		28 x 12.5 – 15 ²)	- A _{st}
and t	3.3	Tyre size, rear		6.50 – 10 2)	6.50 – 10 2)	23 x 9 – 1			23 x 9 – 10 ²)	
sar	3.5	Wheels, number front / rear (x = driven)		2 (4) x/2 ³)	2 (4) x/2 ³)	2 (4) x/2 ³)	,		2 (4) x/2 ³)	
Jeel	3.6	Track width, front	b ₁₀ (mm)	990 (1 220) 3)	990 (1 220) 3)	1 053 (1 2	20) 3)		1 042 (1 255) 3)	
\geqslant	3.7	Track width, rear	b ₁₁ (mm)		942	932	-1 1		932	b ₁ b ₃ b ₁₀ 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	4.1	Mast tilt, forward / backward		5/9 4)	5/9 4)	5/9 4)			5/9 4)	
	4.2	Height of mast, lowered		2 254	2254	2248			2247	
	4.3	Free lift		150	150	150			150	$\frac{a}{\sqrt{2}}$
	4.4	Lift		3 050	3 0 5 0	3 050			3 0 5 0	- VV _a 2
	4.4	Height of mast, extended		3 707	3707	3 8 5 1			3850	H 20 H 25
	4.7	Height of overhead guard		2 250	2 2 5 0	2 250			2 2 5 0	H 20 2000
	4.8	Height of seat		1 135	1 135	1 135			1 135	1800 1600 1600 1600 1600
	4.12	Towing coupling height	h ₁₀ (mm)		650	650			650	1400 5100 1700 4500 1°/
	4.12	Overall length		3 637	3 657	3736			3805	1200 1000 1000 1200 5500 1200 1200 1200
ons		Length to fork face		2637	2657	2736			2805	6000 1200 6000
ensi	4.20	Overall width	, ,	1 164 (1 623) 3) 5)	1 164 (1 623) 3) 5)	1 200 (1 6	22) 3) 5)		1 336 (1 658) ³) ⁵)	700 6500 900 6500
ji H				45 x 100 x 1000	45 x 100 x 1000				50 x 120 x 1000	7000 700 6750
		Fork dimensions Fork carriage to DIN 15173, class/form A, B	s/e/i (mm)	2A	2A	45 x 100 :	(1000		3A	500 500 600 700 800 900 1000 500 600 700 800 900 1000
										(☑ kg 🖂 mm
		Width of fork carriage	bз (mm)		1 150	1 150			1150	H 30 H 35
	4.31	Ground clearance, mast	m ₁ (mm)		130	130			130	3000 2700 2700 3000 3000 3000 3000 3000
	_	Ground clearance, centre of wheelbase	m ₂ (mm)		160	160			160	3000
	4.33	Aisle width with pallet 1000 x 1200 across forks	Ast (mm)		4010	4 083			4 158	2200 2000 4800 2500 5000
		Aisle width with pallet 800 x 1200 along forks	Ast (mm)		4210	4 283			4 358	1700 1500 1500 2000 5500 5000 5000 5000 50
	4.35	Turning radius	Wa (mm)		2 290	2360			2 430	1300
		Minimum pivoting point distance	b13 (mm)		580	580			580	1300 1200 1100 1000 900 1000 1000 1000 100
	5.1	Travel speed, with/without load		21/22 21/21	21/22 21/21	22/23			22/23	900 800 7000 1300 7000 1300 7000
g e	5.2	Lifting speed, with/without load		0.55/0.58 0.52/0.54	0.54/0.58 0.51/0.				0.46/0.51	500 600 700 800 900 1000 500 600 700 800 900 1000
lanc	5.3	Lowering speed, with/without load		0.52/0.47	0.52/0.47	0.53/0.46			0.49/0.41	(☑ kg
orm.	5.5	Tractive force, with/without load		13500/13500	15 800/15 800	16 100/16	400		18500/18900	Lifting capacities are for superelastic tyres
2erf	5.7	Climbing ability, with/without load		22/32 23/31	22/31 23/30	19/30			19/29	Figures for triplex mast on request
"	5.9	Acceleration time, with/without load	S	5.8/4.8	6.0/5.0	6.2/5.2			6.4/5.4	
	5.10	Service brake		Hydrostatic	Hydrostatic	Hydrostat			Hydrostatic	H20/H25 MAST VARIATIONS Standard clearview Duplex clearview Triplex clearview
	7.1	Engine manufacturer / type (Pe=Perkins, Re=Renault)		Pe. 903.27 Re. F3R-264			Pe. G903.27		Pe. 903.27HR Pe.G903.27	1 h ₃ Lift 2850 3050 3450 4050 4550 2865 3165 3665 4265 4655 5305 5905 6555
Φ	7.2	Engine performance according to ISO 1585		35 34	35 34	35			39	h ₃ +s Lift height 2895 3095 3495 4095 4595 2910 3210 3710 4310 4700 5350 5950 6600
Drive	7.3	Rated speed		2100 2500	2100 2500	2100			2 250	h ₂ Free lift 150 150 150 150 150 150 150 1424 1574 1824 1424 1574 1824 2 024 2 274
[]	7.4	Number of cylinders / displacement		3/2 700 4/1 998	3/2 700 4/1 998				3/2700	h ₁ Height of mast, lowered ⁶⁾ 2154 2254 2454 2754 3004 2072 2222 2472 2072 2222 2472 2672 2922
	7.5	Fuel consumption according to VDI cycle	l/h kg/h		2.5 2.4	2.7			2.9	h ₄ Height of mast, extended 3507 3707 4107 4707 5207 3513 3813 4313 4913 5303 5953 6553 7203
	8.1	Type of drive control		Hydrost. infinitely variable	Hydrost. infinitely varia	able Hydrost. in	initely variable		Hydrost.infinitely variable	H30 MAST VARIATIONS Standard clearview Duplex clearview Triplex clearview
<u>_</u>	8.2	Working pressure for attachments	bar	150	175	205			200	h ₃ Lift 2850 3050 3450 4050 4550 2915 3215 3715 4315 4705 5355 5955 6605
Othe	8.3	Oil flow for attachments	l/min	34 29	34 29	34			30	h ₃ +s Lift height ⁵⁾ 2895 3095 3495 4095 4595 2960 3260 3760 4360 4750 5400 6000 6650
	8.4	Noise level at operator's ear	dB (A)	76 75.5	76 75.5	76			78	h ₂ Free lift 150 150 150 150 150 1274 1424 1674 1274 1424 1674 1874 2124
	8.5	Towing coupling, design/type, DIN, no		DIN 15170-H	DIN 15170-H	DIN 1517)-H		DIN 15170-H	h ₁ Height of mast, lowered ⁶⁾ 2148 2248 2448 2748 2998 2075 2225 2475 2075 2225 2475 2675 2925
	1) Optional pneumatic tyres								h ₄ Height of mast, extended 3651 3851 4251 4851 5351 3716 4016 4516 5116 5506 6156 6756 7406	
	2) Alternative tyre sizes and twin front wheels as optional extra 3) Figures in brackets refer to twin front wheels								H35 MAST VARIATIONS Standard clearview Duplex clearview Triplex clearview	
									h ₃ Lift 2850 3050 3450 4050 4550 2920 3220 3720 4325 4715 5365 5965 6615	
		tional specifications may alter mast tilt angles. Tilt spe	eed = 1° per	second above 5 000 m	m lift					h ₃ +s Lift height ⁵⁾ 2900 3100 3500 4100 4600 2970 3270 3770 4375 4765 5415 6015 6665
	5) Alt	ernative tyre equipment may alter overall width b1								h ₂ Free lift 150 150 150 150 150 1274 1424 1674 1274 1424 1674 1874 2124
		h 150 mm free lift on standard mast								h ₁ Height of mast, lowered ⁶⁾ 2147 2247 2447 2747 2997 2065 2215 2465 2074 2224 2474 2674 2924
								h ₄ Height of mast, extended 3650 3850 4250 4850 5350 3711 4011 4511 5125 5515 6165 6765 7415		

