Electric Forklift Truck 1000 kg





334-02

Introduction

The new concept counterbalance model E 10, has been designed with a unique stand-on operating position resulting in a compact, highly manoeuvrable truck suited for a main range of applications: such as storage/retrieval, block stacking and rapid load transfer. Available in two versions: standard version and lower container version.

Features

- Stand-on operating position angled to the direction of travel providing excellent visibility, complete operator protection and comfort
- Energy saving Digital Control of traction, steering and hydraulics providing quiet, infinitely variable operation
- Two independent braking systems including automatic electric braking (LBC)
- Low overhead guard height enabling operation in ISO containers.

Operator's compartment

The operator's compartment has been designed to ensure optimum operator comfort for high productivity and minimum fatigue. The low access step can be hydraulically raised to achieve the best operating position for individual operators. A padded backrest provides a safe and comfortable operating environment. The operator is diagonally positioned to the direction of travel which minimises head and body movements when changing from forward to reverse.

A multi-grip control operated by the left hand incorporates a twist grip for travel speed, direction, automatic and reverse electric braking plus push buttons for lift/ lower and also tilting forks, when fitted. Operation of the ergonomically designed steering wheel is by the right hand.

A combined hour meter and battery discharge indicator with lift interlock enables cost effective planning of maintenance intervals and battery charging schedules for optimum performance and safety.

Chassis

The compact chassis with integrated mast and overhead guard has been designed to achieve maximum strength, rigidity and stability, and is profiled for optimum manoeuvrability and visibility. The motors, sub-components and electronics are all protected within the rugged structure and are accessed via an easily removable steel cover. Access to the battery is via steel top and side covers enabling battery changing from the side using independent lifting equipment.

Drive and transmission

The drive unit consists of a centrally mounted split field, series wound, 2.2 kW motor driving the spur and bevel transmission unit.

Electrical system

The truck is fitted with the advanced digital control system which governs traction and hydraulics and gives optimum utilisation of battery energy together with precise, responsive and infinitely variable speed control, smooth acceleration plus automatic and reverse electric braking.

The system is self diagnostic and very quiet due to the high frequency actuation of the power transistors.

The efficiency of the system allows a high number of work cycles from each battery charge.

Steering

Hydrostatic power steering requiring only five and a quarter turns lock to lock and a very low steering effort for outstanding manoeuvrability giving maximum operator efficiency with minimum fatigue.

Mast and hydraulics

The clearview mast, which is bolted to the overhead guard and chassis, has been developed with the aid of the finite element method for optimum strength, rigidity and visibility.

A choice of simplex, duplex and triplex, full free lift masts is available.

A powerful 3.0 kW motor gives fast lift speeds for high productivity.

LINDE

Forklift Truck

Designation VDI 3586

Data sheet for materials handling equipment

ESG acc. VDI 358

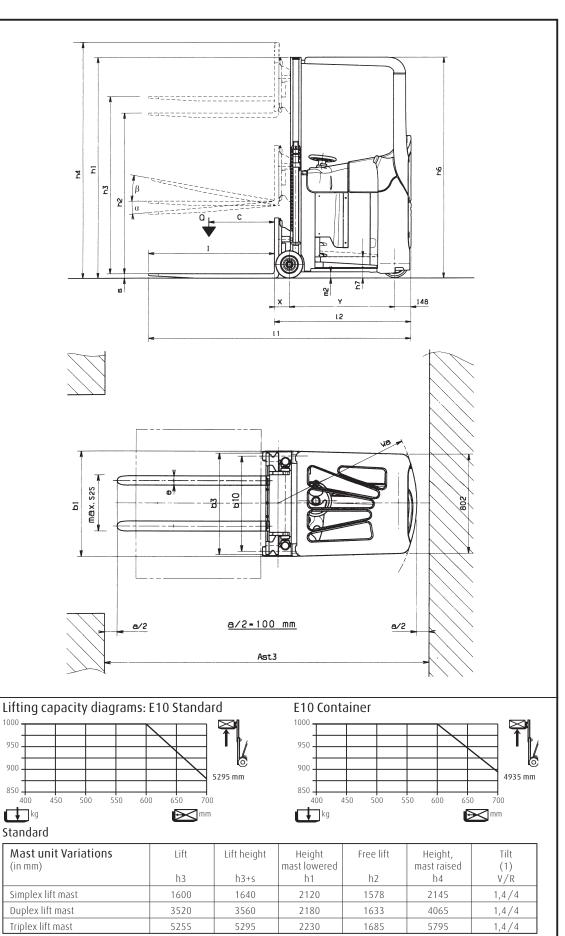
,	July 2	001	moterie	erials handling equipment				
	1.1	.1 Manufacturer			Linde	Linde		
	1.2	Model designation			E 10 Simplex	E 10 Duplex		
	1.3		: battery, diesel, petrol, LP gas, mains power		Battery	Battery		
	1.4	Operation:	manual, pedestrian, stand-on, seated, order picker		Stand-on	Stand-on		
	1.5	Load capad	ity	Q (kg)	1000	1000		
Ĭ	1.6	Load centr	2	c (mm)	600	600		
	1.8	Axle centre	e to fork face	x (mm)	138	138		
	1.9	Wheelbase		y (mm)	966	966		
2	2.1	Service we	ight	kg	1973	2070		
	2.2	Axle load v	vith load, front/rear	kg	2487/493	2583/500		
	2.3	Axle load v	vithout load, front/rear	kg	723/1257	819/1264		
	3.1	Tyres: solic	rubber, contoured solid (superelastic), pneumatic, polyurethane		Polyurethane	Polyurethane		
	3.2	Tyre size, f	ront		250/80-170	250/80-170		
	3.3	Tyre size, r	291		254/100-210	254/100-210		
İ	3.5	Wheels, nu	ımber front/rear (x = driven)		2/1x	2/1x		
Ī	3.6	Track widtl		b10 (mm)	770	770		
İ	3.7	Track widtl	n, rear	b11 (mm)	0	0		
T	4.1		, carriage tilt, forward/backward	α/β Grad	1,4/41)	1,4/41)		
	4.2		nast, lowered	h1 (mm)	2120 (2000)	2180 (2060)		
	4.3	Free lift	,	h ₂ (mm)	1578 (1460)	1633 (1515)		
	4.4	Lift		h ₂ (mm)	1600 (1480)	3520 (3280)		
ľ	4.5		nast, extended	h4 (mm)	2145 (2025)	4065 (3825)		
h	4.7		verhead guard (cabin)	h6 (mm)	2130 (2010)	2130 (2010)		
ł	4.8	_	eat/stand-on platform	h7 (mm)	95-195	95-195		
h	4.19	Overall len		l1 (mm)	2402	2402		
	4.20	Length to f	•	l2 (mm)	1252	1252		
ł	4.21	Overall wid		b1/b2(mm)	850	850		
ł	4.22	Fork dimer		s/e/l (mm)	40/80/1150	40/80/1150		
	4.23		ge to DIN 15173, class/form A, B	5/ C/ I (IIIII)	II/A	II/A		
ł	4.24		rk carriage	b3 (mm)	820	612		
ł	4.31		arance, mast	m1 (mm)	63	48		
H	4.31		arance, centre of wheelbase	m2 (mm)	56	56		
ł	4.32		with pallet 1000 x 1200 crosswise	Ast (mm)	2600	2600		
H	4.33		with pallet 800 x 1200 lengthwise	Ast (mm)	2710	2710		
ł								
+	4.35	Turning rac	ed, with/without load	Wa (mm)	1114	1114		
	5.1		· ·	km/h	8,0 / 9,0	8,0/9,0		
	5.2		ed, with/without load	m/s	0,17/0,27	0,16/0,26		
	5.3		peed, with/without load	m / s	0,30/0,30	0,30/0,30		
+	5.8		climbing ability, with/without load	%	8/15	8/15		
	5.9		on time, with/without load	S	7,5 / 6,7	7,5 / 6,7		
+	5.10	Service bra		1.12	Hydr./mech.	Hydr./mech.		
	6.1		r (S260 min.)	kW	2,2	2,2		
+	6.2	Lift motor (kW	3,0	3,0		
l	6.3		cording to IEC		254-2	254-2		
	6.4		tage/rated capacity (5 h)	V/Ah	24/420	24/420		
4	6.5		ight (±5%)	kg	385	385		
	8.1	Type of dri			Digital with microprozessor	Digital with microprozessor		
	8.2		essure for attachments	bar	200	200		
Other	8.3		attachment	l/min	8	8		
	8.4		at operator's ear	dB (A)	68	68		
			ing fork carriage unit.					
	() Value in brackets for container version.							
Γ								
1								

 5	VDI 2198
	Linde
	E 10 Triplex
	Battery
	Stand-on
	1000
	600
	138
	966
	2189
	2706/501
	942/1265
	Polyurethane
	250/80-170
	254/100-210
	2/1x
	770
	0
	1,4/41)
	2230 (2110)
	1685 (1565)
	5255 (4895)
	5795 (5435)
	2130 (2010)
	95-195
	2402
	1252
	850
	40/80/1150
	II/A
	612
	48
	56
	2600
	2710
	1114
	8,0/9,0
	0,16/0,25
	0,30/0,30
	8/15
	7,5 / 6,7 Hydr./mech.
	2,2
	3,0
	254-2
	24/420
	385
	Digital with microprozessor
	200
	8
	68

1000

950

900



Container Mast unit Variations Lift Lift height Height Free lift Height, Tilt (1) V/R mast lowered mast raised (in mm) h3 h3+s h1 h2 h4 Simplex lift mast 1480 1520 2000 1460 2025 1,4/4 Duplex lift mast 3280 2060 1515 3825 3320 1,4/4 4895 4935 Triplex lift mast 2110 1565 5435 1,4/4 (1) With optional tilting fork carriage unit.

Features







Braking

The truck has two independent braking systems:

- 1) Hydraulic drum brakes via a mechanical linkage acting on the load wheels operated by the deadman platform switch in conjunction with traction interlock or by separate brake pedal.
- 2) Automatic electric braking (LBC) actuated when twist grip speed control is returned to neutral or by selecting opposite direction of travel.

Safety

- Two independent braking systems
- Emergency circuit isolator •
- Keyswitch
- Fail-to-safe circuitry •
- Electric horn
- Electrical and hydraulic overload protection
- Overhead guard.

Standard equipment

- All items as shown under safety
- Multi-grip control of traction and • hydraulic functions
- Combined hour meter and battery discharge indicator with lift cut-out
- 2.2 kW drive motor •
- Polyurethane tyres
- Linde Digital Control of traction and hydraulics
- Hydrostatic power steering
- 3.0 kW lift motor
- Clearview masts lift height 1640 mm • (simplex), 3560 mm (duplex) or 5295 mm (triplex)
- Fork length 1000 mm.

Batteries and chargers

24 V, 420 Ah. A range of chargers is available to suit application and mains supply requirements.

Optional equipment

- Tilting carriage
- Alternative fork lengths
- Steering indicator
- One additional hydraulic •
- Built-in-charger.

Other options available on request.



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