Standard Equipment/Optional Equipment

Standard Equipment

Modular designed truck for perfect customization

Operators compartment
- Operators cabin “Combi” for easy stacking or order picking
- Height and length adjustable and stowable fabric seat
- Suspension-mounted cab to absorb shock and vibration
- Very soft and comfortable platform surface
- Steering knob
- Truck access via key
- Low step on height for easy on and off
- Optic and acoustic user guidance with signalling
- Basic functions without changing position of grip
- Multipurpose display with keypad
- Assured 2 handed driving through sensor area for 2nd hand
- Sensor area for 2nd hand for 2 handed driving

Throughput
- LSC standard
- Synchronized lowering
- Energy recovery when braking or lowering the cabin

Mast Forks
- L Head or telescopic forks

Motors
- 7 KW drive motor
- 20 KW lift motor

Optional Equipment

Operators compartment
- Different types of cabins (combi, truck, comfort, coldstore)
- Comfortable seats (air suspended, heated, adjustable backrests, armrests, etc.)
- Radio preparation integrated in the overhead guard
- Rearview (left/right) and panorama mirror
- Clipboard DIN A4
- Wind protection for lateral doors and loadside (glazed doors and cabin)
- Operator fan
- Lighting for operators compartment
- Working lights into racking
- LFM

Throughput
- LSC with load recognition, load sensor or weight and load recognition
- Automatic fork cyclus
- Overreach of forks
- Lift height preselection
- Different drive and lift motors available

Service
- Hydraulic oil filling assistance

Masts / Forks
- Standard masts: 11800 mm
- Triplex masts available up to12850 mm lift height
- Telescopic forks
- Manual or hydraulical adaptable forks
- Gear rack cover of L-Head

Battery
- Different battery (compartment) sizes
- Battery roller for lateral change
- Battery carrier
- Electrical verification for battery lock
- Side covering for battery

Environment
- Cold store protection (optional with 2nd sliding door, Intercom)
- Antistatic guide rollers

Safety
- Load wheel brake for increased safety at emergency stop
- Personal safety equipment (PSE)
- Non contact collision avoiding sensor

Modular very narrow aisle (VNA) dual purpose combi truck
Capacity up to 1.500 kg
K

Series 011

Linde Material Handling

Safety

The new K range is a versatile, dual-purpose rising cab VNA system truck designed for high density storage and retrieval of unit loads, as well as order picking in very narrow aisles. With its modern, superbly functional cabin the K range provides an environment in which the operator can work in complete comfort and safety.

Performance

The intuitive panel control layout enables maximum throughput with minimal hand movement. The operator can check the truck’s status via the multifunctional display in the control panel. Designed for low energy consumption, the K truck also returns energy to the battery during braking and main mast/cab lowering.

Comfort

With the K trucks superb cabin layout the operator feels immediately at ease and acclimatised. With generous space for freedom of movement, the cab offers a comfortable operational environment for fatigue-free working and promotes optimum efficiency and productivity.

Reliability

These ruggedly constructed, high quality trucks combine with advanced technology and Linde’s vast experience in very narrow aisle applications to ensure optimum reliability and durability. Integrated diagnostic CAN bus technology minimises maintenance intervals.

Productivity

The unique modular design ensures that an individual K truck’s specification can be tailored to match the application precisely in order to maximise productivity at all times. The smart electronics of Linde System Control (LSC) continuously monitors the truck’s technical potential in order to deliver optimum simultaneous lift and travel speeds relative to lift height and load weight.

Features

Cabin
- 4 different cabins available
  - Combi cabin (combined picking/stacking)
  - Truck cabin for seated operation
  - Comfort cabin with + 200 mm depth
  - Cold store cabin (-30 degrees)
- Reduced shock and vibration due to the isolation of the cab
- Easy and low access height
- Various comfortable and adjustable seat options

Linde System Control (LSC)
- LSC-Standard: Dynamical diagram of residual capacity depending on the actual lifting height
- LSC-load recognition: Optimation of shift, swiveling, suppl. lift
- LSC-load sensor: Optimation of shift, swiveling, suppl. lift + driving
- LSC-weight sensor: Detection of weight: Drive, lift, shift optimation according to the exact weight.

Modular concept
- Unique modular design concept enables the perfect specification for each application:
- Combination of different lift and drive motors (light, normal, heavy duty)
- Truck capacities from 0,5 t to 1,5 t
- Cabins optimized for picking or storage or combined use
- Various chassis width

Control panels
- 2 control panel options for perfect customisation:
- Front control panel for full pallet handling
- Split control for order picking or full pallet handling

Braking
- Two independent wear-free service braking systems:
- Electric regenerative braking automatically actuated as the accelerator is released or opposite direction of travel is selected
- Electromagnetic, spring loaded parking and emergency brake

Mast
- New modular design with exceptionally stable, low deflection characteristics
- Alternative standard and triplex masts to suit all headroom requirements
- Automatic soft stop of lift, rotate and traverse movements

Doors
- Side barriers for quick access and easy order picking
- Glass doors to avoid draft and wind
- Tilting barriers for perfect reach of picking position

Operator’s compartment
- Powerful, 2 stage ventilation for comfortable working
- Low energy consuming and bright LED lamps
- Modular storage system for flexible use of individual monitors, scanners, etc.
- Comfortable knee pad at cabin front for placing of picks

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Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		**K-Example 0,7**	**K-Example 0,9**	**K-Example 1,1**	**K-Example 1,3**	**K-Example 1,5**
	1.3	Power unit		Battery	Battery	Battery	Battery	Battery
	1.4	Operation		Stand/Sitz	Stand/Sitz	Stand/Sitz	Stand/Sitz	Stand/Sitz
	1.5	Load capacity	Q (t)	0.7 [1]	0.9 [1]	1.1 [1]	1.3 [1]	1.5 [1]
	1.6	Load centre	c (mm)	600	600	600	600	600
	1.9	Wheelbase	y (mm)	1586	1586	1730	1964	1964
Weights	2.1	Service weight	(kg)	6488 [2]	7357 [2]	8122 [2]	9036 [2]	10228 [2]
	2.2	Axle load with load, front/rear	(kg)	1972/5216	2212/6044	2533/6690	2924/7412	3191/8537
	2.3	Axle load without load, front/rear	(kg)	2424/4064	2794/4563	3183/4939	3613/5423	3995/6233
Wheels/Tyres	3.1	Tyres		Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
	3.2	Tyre size, front		360x140	406x170	406x170	406x170	406x170
	3.3	Tyre size, rear		370x160	370x160	370x160	370x160	370x160
	3.5	Wheels, number front/rear (x = driven)		1x/2	1x/2	1x/2	1x/2	1x/2
	3.6	Track width, front	b10 (mm)	1240	1240	1240	1240	1240
Dimensions	4.2	Height of mast, lowered	h1 (mm)	3900	4400	4900	5900	7400
	4.4	Lift	h3 (mm)	5600	6200	7200	9000	11800
	4.5	Height of mast, extended	h4 (mm)	8155	8755	9755	11555	14355
	4.7	Height of overhead guard (cabin)	h6 (mm)	2555	2555	2555	2555	2555
	4.8	Height of seat/stand-on platform	h7 (mm)	445	445	445	445	445
	4.11	Supplementary lift	h9 (mm)	1675	1675	1675	1675	1675
	4.14	Platform height, raised	h12 (mm)	6045	6645	7645	9445	12245
	4.15	fork height, lowered	h13 (mm)	60	60	60	60	60
	4.19	Overall length	l1 (mm)	3196	3206	3350	3584	3584
	4.21	Overall width	b1/b2 (mm)	1160/1450 [3]	1160/1450 [3]	1160/1450 [3]	1160/1450 [3]	1160/1450 [3]
	4.22	Fork dimensions	s/e/l (mm)	50x120x1190	50x120x1190	50x120x1190	50x120x1190	50x120x1190
	4.24	Width of fork carriage	b3 (mm)	710	710	710	710	710
	4.25	Fork spread, min/max	b5 (mm)	470/640	470/640	470/640	470/640	470/640
	4.27	Width over side guide rollers	b6 (mm)	1585	1585	1585	1585	1585
	4.29	Lateral reach travel	b7 (mm)	1300	1300	1300	1300	1300
	4.31	Ground clearance, below mast	m1 (mm)	40	40	40	40	40
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	87	87	87	87	87
	4.34	Aisle width with pallet 800 x 1200 along forks	Ast (mm)	1640 [4]	1640 [4]	1640 [4]	1640 [4]	1640 [4]
	4.35	Turning radius	Wa (mm)	1842	1852	1996	2230	2230
	4.38	Centre of axle to fork pivot	l8 (mm)	999	999	999	999	999
	4.39	Head centre	A (mm)	480	480	480	480	480
	4.40	Width of reach carriage	B (mm)	1465	1465	1465	1465	1465
	4.41	Head width	F (mm)	250	250	250	250	260
	4.42	End aisle width, with/without load	Au (mm)	3618	3628	3772	4006	4008
Performance	5.1	Travel speed, with/without load	(km/h)	9/9	12/12	12/12	12/12	12/12
	5.2	Lifting speed, with/without load	(m/s)	0.4/0.4	0.39/0.53	0.45/0.6	0.43/0.43	0.37/0.37
	5.3	Lowering speed, with/without load	(m/s)	0.45/0.45	0.45/0.45	0.45/0.45	0.45/0.45	0.43/0.43
	5.4	Reach speed, with/without load	(m/s)	0/0	0/0	0/0	0/0	0/0
	5.9	Acceleration time, with/without load	(s)	6/6	6/6	6/6	6/6	6/6
	5.10	Service brake		Regenerative	Regenerative	Regenerative	Regenerative	Regenerative
Drive	6.1	Drive motor, 60 minute rating	(kW)	6.5	7	7	7	7
	6.2	Lift motor rating at S3 15%	(kW)	13	24	24	24	24
	6.3	Battery according to DIN 43531/35/36 A,B,C,no		43 531/B	43 536/A	43 536/A	43 536/A	43 536/A
	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	48/775	80/465	80/620	80/775	80/775
	6.5	Battery weight (± 5%)	(kg)	1119	1238	1558	1863	1863
Others	8.1	Type of drive control		Microprocessor	Microprocessor	Microprocessor	Microprocessor	Microprocessor
	8.4	Noise level at operator's ear	(dB(A))	68	68	68	68	68

1) Delta Q = 100 kg; from 500-1500 kg with L-Head model and from 500 - 1300 kg with telescopic forks
2) Figures with battery, see line 6.4/6.5.
3) Step for b2; 50 mm from 1160 - 1800 mm
4) Including a 200 mm (min.) operating aisle clearance.