

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
- Sensor area for secured 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

Masts / Forks

- Standard masts: 11800 mm
- Triplex masts available up to 12850 mm lift height
- Telescopic forks
- Manual or hydraulic 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

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



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

Series 011

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

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



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



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



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

Linde System Control (LSC)

- LSC-Standard: Dynamical diagram of residual capacity depending on the actual lifting height
- LSC-load recognition: Optimization of shift, swiveling, suppl. lift
- LSC-load sensor: Optimization of shift, swiveling, suppl. lift + driving
- LSC-weight sensor: Detection of weight: Drive, lift, shift optimization according to the exact weight.

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



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



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.

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.

Technical Data according to VDI 2198

| | | 1.1 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.9 |
|-----------------|------------------------------------|--|----------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Characteristics | 1.1 | Manufacturer | LINDE | 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 |
| 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 |
| Dimensions | 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 |
| | 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 53 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.

