Diesel- and LPG-engined lift trucks 2000 to 3500 kg carrying capacity





Linde H20 – H35 forklift trucks are the perfect choice for a wide range of applications:

The combination of high engine torque and controlled Linde hydrostatic transmission is synonymous with high productivity. Equipped with diesel and LPG engines specially designed to meet highest demands and ensure outstandingly low exhaust emissions and pollution levels. Cockpit of extremely functional and accomplished ergonomic design in which the operator feels fully comfortable on the job. Long servicing intervals and small maintenance requirements characteristic of these trucks accumulate in low operating cost.

High-comfort operator compartment

Linde knows what ergonomic design is really about:

- Comfortable suspension and hydraulic cushioning of the seat. Fully adjustable to the operator's body size and weight.
- Compartment fully isolated from the truck body, ensuring pleasant working conditions throughout the working shift by greatly reducing exposure to vibration and noise.
- Twin drive pedals no need for separate brake pedal.
- Single control lever for load lifting/ lowering and mast forward/back tilting.

- Multi-function hydraulic control lever for lift, lower and mast tilt, automatic engine speed-up governed according to hydraulic power demand.
- Driver's module and overhead guard form an integrated unit capable of being built up to a fully enclosed cab.

Rugged chassis

Expert engineering design and high-quality materials of construction guarantee a chassis capable of withstanding the stresses of heavy use in harsh conditions. Chassis enclosed on all sides to protect internal components and minimize noise level.

Optimized engine

The Diesel- and LPG-engines are specifically designed for the utilization in the new truck range. High torque and low rpm result in low fuel consumption, emission and noise levels. On the Diesel engines, there is very little exhaust smoke, below Bosch 2.5 even at full load.

Automatic engine speed adjustment

Engine speed is adjusted automatically to actual power requirement by hydraulic control, resulting in greater fuel efficiency, reduced exhaust emissions and better operator comfort.

Hydrostatic transmission

The fully automatic, high-efficiency hydrostatic transmission enables smooth, jerkfree control of travelling speed, acceleration and deceleration; due to its operating principle, it integrates the service brake function and does away with clutch, gear shift, differential and drum-type mechanical brakes.

Anti-kick steering

The hydrostatic power steering has zero kick-back and virtually no free play. Steering effort is a low 20 N which made it possible to use a high-manoeuvrability (300 mm diameter) steering wheel.

Excellent visibility

Mast optimized for visibility to provide the operator with superb forward view, contributing to high safety. Clear-view masts available in standard, duplex and triplex designs.

Non-wearing brakes

Truck is braked by the hydrostatic transmission, entirely without mechanical wear. No drum brake required. Integrated multidisk parking brake engages automatically when the engine is cut and does not incur any wear.

LINDE

Forklift trucks Designation acc. to VDI 2198

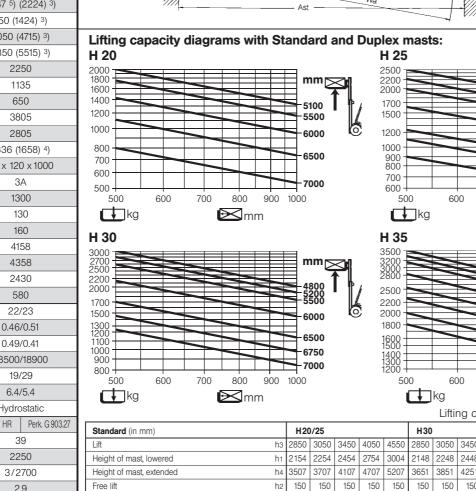
Data sheet for material handling equipment

Abbreviation acc. t

DFC

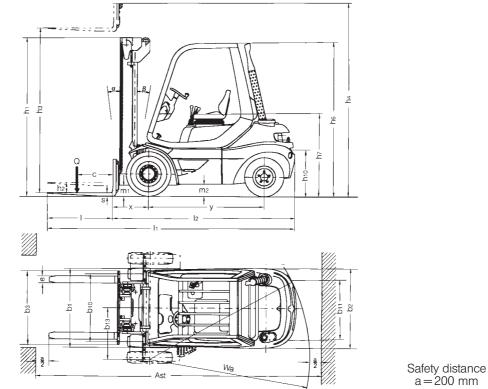
| Wheels and tyres Weights Characteristics 7 5 5 5 5 1 1 1 1 1 | 1.1 1.1 1.2 1.3 1.3 1.4 1.5 1.6 1.8 1.9 2.1 2.3 3.1 3.2 3.3 3.5 3.6 | Manufacturer Model designation Power unit: battery, diesel, petrol, LP gas, mains power Operation: Manual, stand-on, seated Load capacity Load centre Axle centre to fork face Wheelbase Service weight | Q (kg) c (mm) | Lin H 20 D Diesel Sea | nde H 20 T LPG | H 25 D | Linde H 25 T | H 25 T | Lin H 30 D | de H 30 T | | |
|--|---|---|-------------------|--------------------------------|------------------------------------|--------------------------|----------------------------|-----------------|------------------------------------|----------------------------------|---------------------------------|--|
| Wheels and tyres Weights Characteristics 7 6 6 6 7 1 | 1.2 1.3 1.4 1.5 1.6 1.8 1.9 2.1 2.2 2.3 3.1 3.2 3.3 3.5 | Model designation Power unit: battery, diesel, petrol, LP gas, mains power Operation: Manual, stand-on, seated Load capacity Load centre Axle centre to fork face Wheelbase | c (mm) | H 20 D Diesel | H 20 T | | H 25 T | | | | | |
| Wheels and tyres Weights Characteristics 7 6 6 5 5 1 | 1.3 1.4 1.5 1.6 1.8 1.9 2.1 2.2 2.3 3.1 3.2 3.3 3.5 | Power unit: battery, diesel, petrol, LP gas, mains power Operation: Manual, stand-on, seated Load capacity Load centre Axle centre to fork face Wheelbase | c (mm) | Diesel | | | | | 1100 - | | | |
| Wheels and tyres Weights | 1.4 1.5 1.6 1.8 1.9 2.1 2.2 2.3 3.1 3.2 3.3 3.5 | Operation: Manual, stand-on, seated Load capacity Load centre Axle centre to fork face Wheelbase | c (mm) | | | | LPG | LPG | Diesel | LPG | | |
| Wheels and tyres Weights | 1.5 1.6 1.8 1.9 2.1 2.2 2.3 3.1 3.2 3.3 3.5 | Load capacity Load centre Axle centre to fork face Wheelbase | c (mm) | 000 | hate | 21000. | Seated | | Sea | - | | |
| Wheels and tyres Weights | 1.6 1.8 1.9 2.1 2.2 2.3 3.1 3.2 3.3 3.5 | Load centre Axle centre to fork face Wheelbase | c (mm) | 2000 | | | 2500 | | 3000 | | | |
| Wheels and tyres Weights | 1.8 1.9 2.1 2.2 2.3 3.1 3.2 3.3 3.5 | Axle centre to fork face Wheelbase | , , | 200 | | | | | | 00 | | |
| Wheels and tyres Weights | 1.9 2.1 2.2 2.3 3.1 3.2 3.3 3.5 | Wheelbase | (2000) | | | 500 | 500 | | | | | |
| Wheels and tyres Weights | 2.1 2.2 2.3 3.1 3.2 3.3 3.5 | | x (mm) | 52 | | 520 | 520 | 520 | 52 | | | |
| Wheels and tyres Weight | 2.2 2.3 3.1 3.2 3.3 3.5 | Service weight | y (mm) | | 95 | | 1715 | | 178 | | | |
| Wheels and tyres | 2.3 3.1 3.2 3.3 3.5 | | kg | 3895 | 3675 | | 350 | 4140 | 489 | | | |
| Wheels and tyres | 3.1 3.2 3.3 3.5 | Axle load with load, front / rear | kg | 5190/705 | 5010/66 | | 75/675 | 6015/625 | 7105/ | | | |
| Wheels and tyres | 3.2 3.3 3.5 | Axle load without load, front / rear | kg | 1975/1920 | 1780/184 | .5 209 | 0/2260 | 1950/2190 | 2285/ | | | |
| 4 | 3.3 3.5 | Tyres: solid rubber, superelastic, pneumatic | <u> </u> | SE/S | , | | SE / SE 1) | | SE / S | , | | |
| 4 | 3.5 | Tyre size, front | | 7.00 – | | | 7.00 - 12 1) | | | - 12 ¹) | | |
| 4 | | Tyre size, rear | [! | 6.50 - | - 10 ¹) | | 6.50 - 10 ¹) | | 23 x 9 | - 10 ¹) | 「 <u> </u> | |
| 4 | 3.6 | Wheels, number front / rear ($x = driven$) | | 2 (4) x/ | /2 1) 4) | | 2 (4) x/2 1) 4) | | | /2 ¹) ⁴) | | |
| 4 | | Track width, front | b10 (mm) | 990 (122 | 20) 1) 4) | | 990 (1220) 1) | 4) | 1053 (12 | 20) 1) 4) | | |
| | 3.7 | Track width, rear | b11 (mm) | 94 | 42 | | 942 | | 93 | 32 | | |
| | 4.1 | Mast lift, forward / backward | deg. | 5/9 | 9 2) | | 5/9 2) | | | 9 2) | | |
| 1.7 | 4.2 | Height of mast, lowered | h1 (mm) | 2254 5) (| (2222) ³) | | 2254 5) (2222) | 3) | 2248 5) (| (2275) ³) | | |
| 4 | 4.3 | Free lift | h2 (mm) | 150 (1574) ³) | | | 150 (1574) ³) | | 150 (14 | | | |
| | 4.4 | Lift | h3 (mm) | 3050 (4655) ³) | | | 3050 (4655) 3 | | 3050 (4 | | | |
| | 4.5 | Height of mast, extended | h4 (mm) | 3707 (5303) ³) | | | 3707 (5303) ³ | | 3851 (5 | | | |
| | 4.7 | Height of overhead guard | h6 (mm) | 22 | | | 2250 | / | 22 | | | |
| | 4.8 | Height of seat | h7 (mm) | | 1135 | | 1135 | | | 1135 | | |
| | 4.12 | Towing coupling height | h10 (mm) | | | | 650 | | | 50 | | |
| | 4.12 4.19 | | . , | | 650 | | 3657 | | | 36 | | |
| | | Overall length | l1 (mm) | | 3637 | | 2657 | | | | | |
| sus | 4.20 | Length of fork face | l2 (mm) | | 2637 1164 (1623) ⁴) | | | | 1300 (1) | | | |
| Ĕ, | 4.21 | Overall width | b_1/b_2 (mm) | | | | 1164 (1623) ⁴) | | | 623) ⁴) | | |
| | 4.22 | Fork dimensions | s/e/l (mm) | | 0 x 1000 | | 45 x 100 x 100 | 0 | 45 x 100 | | | |
| | 4.23 | Fork carriage to DIN 15173, class/form A, B | | | A | | 2A | | 3/ | | | |
| | 4.24 | Width of fork carriage | b3 (mm) | | 50 | | 1150 | | 115 | | | |
| | 4.31 | Ground clearance, mast | m1 (mm) | | 130 | | 130 | | 13 | | | |
| | 4.32 | Ground clearance, centre of wheelbase | m2 (mm) | 160 | | | 160 | | 16 | | | |
| | 4.33 | Aisle width with pallet 1000 x 1200 across forks | Ast (mm) | 3990 | | | 4010 | | 408 | | | |
| | 4.34 | Aisle width with pallet 800 x 1200 along forks | Ast (mm) | 4190 | | | 4210 | | 428 | | | |
| 4 | 4.35 | Turning radius | Wa (mm) | 2270 | | | 2290 | | 23 | 60 | | |
| 4 | 4.36 | Minimum pivoting point distance | b13 (mm) | 58 | 580 | | 580 21/22 21/21 | | 58 | 30 | | |
| 5 | 5.1 | Travel speed, with / without load | km/h | 21/22 | 21/21 | 2 | 21/22 | | 22/ | 23 | | |
| | 5.2 | Lifting speed, with / without load | m/s | 0.55/0.58 | 0.52/0.54 | 4 0.5 | 4/0.58 | 0.51/0.53 | 0.52/ | 0.57 | | |
| uce 5 | 5.3 | Lowering speed, with / without load | m/s | 0.52/ | /0.47 | | 0.52/0.47 | | 0.53/ | 0.46 | | |
| Performance | 5.5 | Tractive force, with / without load | N | 13500 | /13500 | | 15800/15800 | | | '16400 | | |
| arfor | 5.7 | Climbing ability, with / without load | % | 22/32 | | | 22/31 23/30 | | 19/30 | | | |
| | 5.9 | Acceleration time, with / without load | S | | /4.8 | | 6.0/5.0 | | 6.2/ | | | |
| | 5.10 | Service brake | | Hydro | | | Hydrostatic | | Hydro | | | |
| | 7.1 | Engine manufacturer / type | | Perk. 903.27 | Renault F3R-2 | 264 Perk. 903.27 | Perk. G 903.27 | Renault F3R-264 | Perk. 903.27 | Perk. G 903.27 | | |
| | 7.2 | Engine performance according to ISO 1585 | kW | 35 | 34 | 35 | 36 | 34 | 35 | 36 | | |
| 0 | 7.3 | Rated speed | min ⁻¹ | 2100 | 2500 | | 2100 | 2500 | 210 | | | |
| | | | cm ³ | | | | | | | | | |
| | 7.4 | Number of cylinders / displacement | | 3/2700 | 4 / 1998 | | 2700 | 4/1998 | 3/2 | | | |
| | 7.5 | Fuel consumption according to VDI cycle | l/h; kg/h | 2.3 | | 2.5 | 2.4 | 2.4 | 2.7 Hydrost infinitely variable | | | |
| | 8.1 | Type of drive control | <u> </u> ! | Hydrost. infinitely variab | | ole Hya | | | Hydrost. infinitely variable | | | |
| | 8.2 | Working pressure for attachments | bar | 150 (160) ³) | | | 175 (185) ³) | | 200 (205) ³) | | | |
| ∣ö⊢ | 8.3 | Oil flow for attachments | l/min | 34 | 29 | | 34 29 | | 34 | | | |
| 2 | 8.4 | Noise level at operator's ear | dB (A) | 76 | 75.5 | 76 | | | 76 | | | |
| 3 | 8.5 | Towing coupling, design/type, DIN, no | | DIN 15 | 5170-H | | DIN 15170-H | | DIN 15 | | | |
| | 1) For ty | tyre alternatives see tables on pages 2 - 3. | | Туг | r es (special tyre | | | | | | | |
| 2 | 2) Lift h | neight and equipment can change the rearward | ds mast lift. | | Ту | | Туре | front Pr | | | | |
| [] | 3) Figur | ires in brackets refer to duplex and triplex mas | its. | | H2 | front 20/25 7.00–12/1 | 0 H30 | 7.00-12/16 Z | | | | |
| | 4) Fiau | ires in brackets refer to front twin tyres 7.00-12. | | | | 7.00-12/1 | 6 Zw. 23x9 - | -10/14 7.00 - | -12 Zw. 6.50-10 | | 27x10-12/14 | |
| | , 3,54 | 150 mm free lift. | | | | 27x10-12 28x9-15 | | 27x10 | 0–12 | H35 | 7.00 – 12/16 Z 27×10 – 12/20 | |
| | | | | | | 2010 10 | 14 | | | | | |

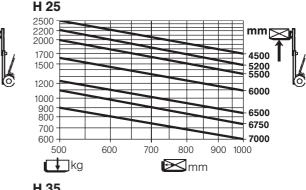
| Co VDI 3586 | | VDI 2198 | | | | | | | | |
|---------------------|---|-------------------------|--|--|--|--|--|--|--|--|
| | Linde | | | | | | | | | |
| | H 35 D | H 35 T | | | | | | | | |
| | Diesel | LPG | | | | | | | | |
| | S | eated | | | | | | | | |
| | ; | 3500 | | | | | | | | |
| | | 500 | | | | | | | | |
| | | 528 | | | | | | | | |
| | 1850 | | | | | | | | | |
| | | 5500 | | | | | | | | |
| | | 20/980 | | | | | | | | |
| | 25 | 10/2990 | | | | | | | | |
| | SE | /SE 1) | | | | | | | | |
| | | 2.5 – 15 ¹) | | | | | | | | |
| | | 9 - 10 ¹) | | | | | | | | |
| | |) x/2 1) 4) | | | | | | | | |
| | 1042 | (1255) 1) 4) | | | | | | | | |
| | | 932 | | | | | | | | |
| | | 5/9 ²) | | | | | | | | |
| | | 5) (2224) 3) | | | | | | | | |
| | | (1424) 3) | | | | | | | | |
| | |) (4715) ³) | | | | | | | | |
| | |) (5515) ³) | | | | | | | | |
| | | 2250 | | | | | | | | |
| | | 1135 | | | | | | | | |
| | | 650 | | | | | | | | |
| | 3805 | | | | | | | | | |
| | | 2805 | | | | | | | | |
| | 1336 (1658) ⁴) 50 x 120 x 1000 | | | | | | | | | |
| | 50 X | | | | | | | | | |
| | | 3A | | | | | | | | |
| | | 1300 | | | | | | | | |
| | | 100 | | | | | | | | |
| | | 160 | | | | | | | | |
| | 4158 4358 | | | | | | | | | |
| | | | | | | | | | | |
| | 2430 | | | | | | | | | |
| | | 22/23 | | | | | | | | |
| | 0.46/0.51 | | | | | | | | | |
| | 0.49/0.41 | | | | | | | | | |
| | 18500/18900 | | | | | | | | | |
| | | 19/29 | | | | | | | | |
| | 6.4/5.4 | | | | | | | | | |
| | Hydrostatic | | | | | | | | | |
| | P. 903.27 HR | | | | | | | | | |
| | | 39 | | | | | | | | |
| | | 2250 | | | | | | | | |
| | | /2700 | | | | | | | | |
| | | 2.9 | | | | | | | | |
| | Hydrost. in | finitely variable | | | | | | | | |
| | | (225) ³) | | | | | | | | |
| | | 30 | | | | | | | | |
| | | 78 | | | | | | | | |
| | DIN | 15170-H | | | | | | | | |
| | • | | | | | | | | | |
| eumatic | front | SE | | | | | | | | |
| rear 23x9-10 | /14 7.00 - | rear 12 Zw. 23x9-10 | | | | | | | | |
| | 27×10 28×9 | -15 23x9-10 | | | | | | | | |
| 23x9-10 28x12.5- | /14 7.00- | 12 Zw. 23x9-10 | | | | | | | | |

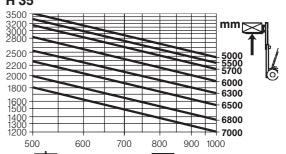


| | 6000 6500 6750 7000 | 1800 - 1600 - 1500 - 1400 - 1300 - 1200 - 50 | i0 L kg | | Ē | | 600 630 650 680 700 1000 | 0 10 10 | | | |
|---------|------------------------------|--|------------|--|-----------|-----------|---|---------------|--|--|--|
| | 0/25 | | H30 | Lifting capacity diagrams valid with SE-tyr H30 H35 | | | | | | | |
| | | | | | 1050 1550 | | | | | | |
| h3 2850 | 3050 3450 | 4050 4550 | 2850 30 | 50 3450 | 4050 4550 | 2850 3050 | 3450 4 | 4050 4550 | | | |
| h1 2154 | 2254 2454 | 2754 3004 | 2148 22 | 48 2448 | 2748 2998 | 2147 2247 | 2447 2 | 2747 2997 | | | |
| h4 3507 | 3707 4107 | 4707 5207 | 3651 38 | 51 4251 | 4851 5351 | 3650 3850 | 4250 4 | 4850 5350 | | | |
| h2 150 | 150 150 | 150 150 | 150 1 | 50 150 | 150 150 | 150 150 | 150 | 150 150 | | | |
| | | | | | | | | | | | |
| H2 | 0/25 | | H30 H35 | | | | | | | | |
| h3 28 | h3 2865 3165 3665 | | 2915 | 3215 | 3715 | 2920 | 3220 | 3720 | | | |
| h1 20 | 2072 2222 2472 | | 2075 | 2225 | 2475 | 2074 | 2224 | 2474 | | | |
| h4 35 | 14 3513 3813 43 ⁻ | | 3716 | 4016 | 4516 | 3720 | 4020 | 4520 | | | |
| h2 14 | 24 1574 | 1824 | 1274 | 1424 | 1674 | 1274 | 1424 | 1674 | | | |

| Triplex (in mm) | H20/25 | | | | H30 | | | | | H35 | | | | | |
|-----------------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Lift h3 | 4265 | 4655 | 5305 | 5905 | 6555 | 4315 | 4705 | 5355 | 5955 | 6605 | 4325 | 4715 | 5365 | 5965 | 6615 |
| Height of mast, lowered h1 | | 2222 | 2472 | 2672 | 2922 | 2075 | 2225 | 2475 | 2675 | 2925 | 2074 | 2224 | 2474 | 2674 | 2924 |
| Height of mast, extended h4 | | 5303 | 5953 | 6553 | 7203 | 5116 | 5506 | 6156 | 6756 | 7406 | 5125 | 5515 | 6165 | 6765 | 7415 |
| Free lift h2 | | 1574 | 1824 | 2024 | 2274 | 1274 | 1424 | 1674 | 1874 | 2124 | 1274 | 1424 | 1674 | 1874 | 2124 |
| | | | | | | | | | | | | | | | |







Alternative lift heights and figures for triplex masts on request.

Duplex (in mm) Lift

Free lift

Height of mast, lowered Height of mast, extended

Equipment









Safety first

The standard truck versions satisfy all current Safety Regulations. The following features are of particular importance:

- Outstanding ergonomic qualities for minimum driver fatigue.
- Routine deceleration and service braking by the automatic transmission.
- Parking brake automatically engaged when the engine is switched off.
- Low noise levels: Instructions and acoustic signals are easily discernible.
- As a matter of course on all Linde trucks: High stability, excellent panoramic visibility and fully hydrostatic power steering.

Standard equipment

- Adjustable suspension-type comfort seat with hydraulic damping.
- Linde twin-pedal drive and multifunction hydraulic control lever to govern lifting, lowering and mast tilt without operators having to move from one control to another.
- Combination dry-type intake air filter.
- Suction-type hydraulic filter.

- Power steering.
- Combi-instrument on dashboard incorporating operating hour meter and control lights for all important truck functions.
- SE Tyres.
- Standard lift mast: Lift height $h_3 = 3050 \text{ mm}.$
- Fork arms
- = 1000 mm.
- Fork carriage width $b_3 = 1150 \text{ mm}.$
- LPG with two-way catalytic exhaust gas converter.

Optional equipment

- Standard lift masts, lift heights 2850 to 5550 mm. • Duplex lift masts (full free lift),
- lift heights 2865 to 4520 mm. Triplex lift masts (full free lift),
- lift heights 4265 to 6615 mm. Other masts and lift heights on demand.
- Integrated sideshift.
- Load backrest.
- One or two additional hydraulic circuits available for all mast types, control incorporates automatic engine speed up.

- Fork carriage widths 1300 mm (H 30
- and H35) and 1600 mm (H20 to H35). Various non-standard fork lengths.
- Dust filter ahead of standard air
- intake filter. Possibility for cab build-up in stages: Windscreen, top screen, side and rear
- screens, doors.
- Screenwipers front and rear.
- Heating installation.
- Truck lighting.
- Working lights. Upgrading for use on the public highway.
- Special paint.
- Container version (height of overhead)
- guard 2070 or 2150 mm). Seat height from ground increased by 300 mm, enabling transport of large-volume and high loads (height of overhead guard 2550 mm).
- Particulate filter (Diesel engines).
- Three-way catalytic converter
- (LPG engines).

Other options available on demand.

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