Equipment

Telescopic Container side lift beam

Standard equipment includes a telescopic side lift beam 20 ft to 40 ft, mounted directly on the (outer) moving mast; it incorporates hydraulically operated twistlocks with electronic safety release switches, indicator lights on the mast and in the cab, in addition to mechanical indicator flags fitted to the twistlock camshaft. Internally mounted hydraulic extension and retraction cylinders, sideshift +/-300 mm.

- Transmission integrated forward/reverse interlock and downshift protection.
- Engine Neutral start transmission safety interlock.
- Safe load lowering valve.
- Steering control integrated 'anti-kick' valve.
- Steering axle proximity mounted shock valve.
- High mounted cabin excellent all-round visibility.
- Low noise emissions.
- Central warning lamp (instrument monitoring).
- Horn.

Standard equipment

- Fully equipped cab with hinged doors, wipers and washers for windscreen, rear screen and overhead guard screen, heater and de-mister.
- Fully adjustable suspension-type seat.
- Comprehensive instrumentation.
- Perkins diesel engine with turbo-charger. Clark 3 speed Powershift transmission
- with integrated forward/reverse safety interlock; automatic transmission ratio selection. Heavy-duty double hub reduction drive
- axle, incorporating Oil bath type multi-disc brakes with zero maintenance requirements.
- Anti-stall engine speed-up device for all working hydraulic functions.
- Power-assisted hydraulic steering.
- Twin mounted drive wheels
- Pneumatic tyres
- Standard ultra-wide clearview lift mast.
- Container side lift beam.
- Safety monitors for engine and transmission oil pressure.
- Standard colour scheme vermilion and charcoal grey.

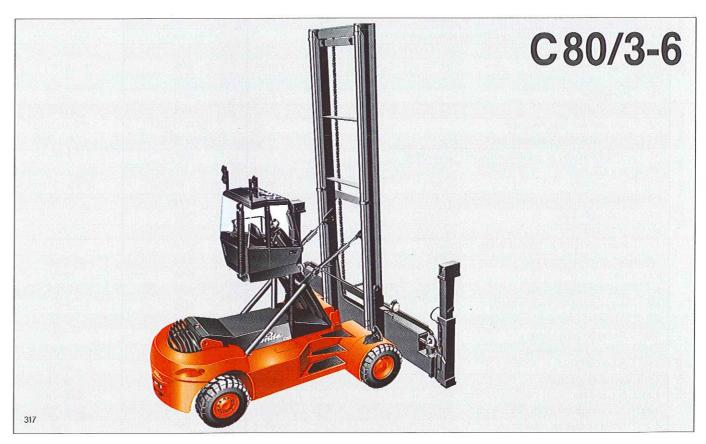
Optional equipment

- Hook type side lift beam.
- 30 ft and 35 ft hydraulic lock stops.
- Load weight indicator
- Particle filter.
- High level engine pre-filter.
- Spark arrestor.
- Exhaust purifier.
- Cold climate specification to −25°C.
- Cabin pre-heat system.
- Air conditioning unit.
- High level heater intake.
- Road lighting.
- Working lights.
- Spreader mounted lights.
- Radio cassette player.
- Alternative colour schemes.



Empty Container handler





Introduction

The Linde dedicated Empty Container Handlers C80 are capable of stacking all types of empty containers, including reefers. 3, 4, 5 and 6 high respectively.

The major characteristics at a glance:

- 8000 kg carrying capacity up to maximum elevation (C80/6, 6000 kg).
- Ultra-wide innovative design, clearview lift mast, combining excellent rigidity with optimum visibility.
- Ergonomically optimised elevated driver's cab providing excellent forward visibility, and optimised around truck free-sight.
- Powerful, modern diesel engine combining low fuel consumption with excellent exhaust emission characteristics fully satisfying the latest EURO 1 standards.
- Automatic three-speed transmission incorporating a reverse interlock, enabling safe, efficient working and providing high rates of acceleration and slow down.
- Engine speed-up design affording power-on-demand and anti-stall feature.
- Robust wide-track drive axle with 'Zero' maintenance wet disc brakes. · Heavy-duty steer axle.

Driver's compartment with optimised ergonomics

Access to the elevated driver's compartment is provided by a staircase with safety rails. The comfortable suspension-type driver's seat is fully adjustable to weight and size of the operator. The controls not only satisfy the ergonomic standards defined

optimised for easy, effortless operation. A Multi-function hydraulic control lever is provided for all load movements, facilitating smooth easy load handling.

Control and supervision instruments are installed below the lower front cross member of the overhead guard; they do not require constant monitoring by the driver, because possible malfunctions are signalled by a central warning light - the driver is able to concentrate fully on the job in hand, in the safe knowledge that all important truck functions are subject to permanent, automatic supervision.

Stable, robust chassis

The Monocogue chassis of fabricated steel plate and tubes gives high strength to weight ratio and full protection to components. All inside surfaces are covered in sound deadening material, full underbody covers are standard.

High-tech Diesel Engine

Perkins 6 cylinder diesel engine of 6 litres cubic capacity, equipped with turbo-charger providing a rated output of 112 kW. This modern propulsion unit is notable for particularly smooth running with low noise emissions and outstandingly clean exhaust.

The automatic transmission and drive axle

The engine is in unit with a torque converter and an automatic three-speed powershift transmission. A reversing interlock is standard. For accurate lower-speed handling and positioning, a secondary brake pedal actuated by the left foot incorporates a presby ISO 6682 but have all been further sure switch providing an inching facility.

The wide-track front drive axle incorporates two-stage reduction gearboxes and has been optimised for heavy-load handling.

Powerful brakes

The robust front drive axle incorporates oil bath-type multi-disc brakes with zero maintenance requirements. The brakes are actuated by a centrally positioned service brake pedal, alternatively by a secondary brake pedal incorporating a pressure-switch-actuated inching facility. The disc-type parking brake on differential input shaft, can be actuated by a switch on the operator's seat.

Smooth power steering

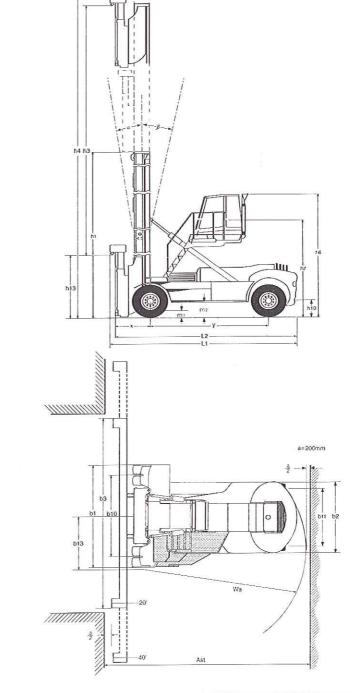
The hydrostatic power steering allows full steering lock to be attained even at standstill; it enables the driver to carry out highly accurate manoeuvres with minimum effort. A heavy-duty steer axle is mounted to the chassis via spherelastic bushes to allow axle articulation over uneven ground.

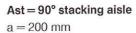
Innovative lift mast

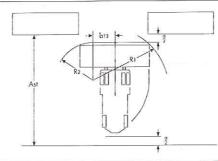
The design of the ultra-wide clearview lift mast qualifies as revolutionary; in contrast to established fork truck design principles, the inner mast is pivoted on the chassis whereas it is the outer mast that telescopes. This results in particularly good forward visibility, whilst the mast construction itself is extremely stiff in torsion, guaranteeing perfect load elevation up to maximum lift. Torsional loads imposed on the load carrier are transmitted to the cab-supporting structure via high-mounted tilt jacks, themselves hydraulically interconnected via a special interlock valve.

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DFG **Empty Container Trucks Data sheet for Industrial trucks** LINDE **VDI 2198** Designation to VDI 3586 **April 1998** Linde Linde Linde Linde 1.1 Manufacturer C 80/6 C 80/5 C 80/3 C 80/4 1.2 Model designation Diesel Diesel Diesel Diesel 1.3 Power unit: battery, diesel, LP gas, mains power Rider, seated Rider, seated Rider, seated Rider, seated Operation: manual, pedestrian, stand-on, seated, order picker 1.4 8.0 6.0 1) 2) 8.0 8.0 1.5 Load capacity 1295 1295 1295 1295 c (mm) 1.6 Load centre 1040 1040 1040 1040 x (mm) 1.8 Load centre distance 3670 3670 3670 3670 y (mm) 1.9 Wheelbase 29550 28500 24000 26150 Service weight kg 2.1 28710 / 6590 31020/5180 30330/3660 28540/3460 kg 2.2 Axle load with load, front/rear 19500 / 10050 18190 / 10310 15450/8550 17620/8530 kg 2.3 Axle load without load, front/rear P/P P/P P/P P/P Tyres, front/rear, SE = (superelastic), P = (pneumatic) 3.1 12.00 x 20/20 pr 12.00 x 20/20 pr 12.00 x 20/20 pr 12.00 x 20/20 pr 3.2 Tyre size, front 12.00 x 20/20 pr 12.00 x 20/20 pr 12.00 x 20/20 pr 12.00 x 20/20 pr b11 (mm) 3.3 Tyre size, rear 4x/2 4x/2 4x/2 4x/2 3.5 Wheels, number front/rear (x = driven) 2800 2800 2800 b10 (mm) 2800 3.6 Track width, front 2067 2067 2067 b11 (mm) 2067 3.7 Track width, rear 3/3.5 3/3.5 3/3.5 3/3.5 Grad Mast/fork carriage/truck tilt, forward/backward 4.1 9580 8780 5930 7330 Height of mast, lowered h1 (mm) 4.2 14000 12400 9500 6700 h3 (mm) 4.4 Lift 16660 15060 12160 h4 (mm) 9360 4.5 Height of mast, extended 4605 4605 4605 Height of overhead guard (cabin) 4605 4.7 he (mm) 3520 3520 3520 3520 Height operators seat/stand-on platform h7 (mm) 4.8 550 550 h10 (mm) 550 550 4.12 Towing coupling height 2290 2290 2290 h13 (mm) 2290 4.15 Twistlock height lowered 5830 5830 5630 5630 l1 (mm) 4.19 Overall length 5630 5630 5430 5430 12 (mm) 4.20 Length to fork face 3500/2550 3500/2550 3500/2550 3500/2550 b1/b2 (mm) 4.21 Overall width 6050 / 12150 6050 / 12150 6050 / 12150 6050 / 12150 ps (mm) Width of attachment 20' / 40' 4.24 250 250 250 250 mı (mm) 4.31 Ground clearance, mast 320 320 320 320 m2 (mm) 4.32 Ground clearance, centre of wheelbase 9603 9603 9603 9603 Ast (mm) 4.33 Stacking aisle, 20' container 14905 14905 14905 14905 Ast (mm) Stacking aisle, 40' container 5200 5200 5000 5000 Wa (mm) 4.35 Turning radius 1770 1770 1770 1770 b13 (mm) 4.36 Minimum pivoting point distance 25/25 25/25 25/25 25/25 km/h 5.1 Travel speed, with / without load 0.44/0.53 0.44/0.53 0.50 / 0.55 0.50/0.55 m/s 5.2 Lift speed, with / without load 0.56 / 0.59 0.56/0.59 0.56/0.59 0.56/0.59 m/s 5.3 Lowering speed, with/without load 94/94 94/94 94/94 N 94/94 5.5 Tractive force, with / without load 29/30 29/30 29/30 96 29/30 5.7 Climbing ability with / without load 5.9 Acceleration time, with/without load Wet disc Wet disc Wet disc Wet disc 5.10 Service brake 12/128 12/128 12/128 12/128 V/Ah 6.4 Battery voltage, rated capacity Perkins 1006-60 T Perkins 1006-60 T Perkins 1006-60 T Perkins 1006-60 T Engine manufacturer / type 7.1 112 112 112 kW 112 7.2 Engine performance according to ISO 1585 2500 2500 2500 1/min 2500 7.3 6/6000 6/6000 6/6000 / cm³ 6/6000 7.4 Number of cylinders / displacement I/h 7.5 Fuel consumption according to VDI cycle Torque converter 3/3 Torque converter 3/3 Torque converter 3/3 Torque converter 3/3 Type of drive control 8.1 200 200 200 200 8.2 Working pressure for attachments bar 74 74 74 dB(A) 74 8.4 Noise level, at operator's ear, Overhead guard / Cab 50 50 50 50 Trailer coupling, design/type DIN 1) C 80/6: 6 Container (8'6") high 6th Container 6 tonne max. weight up to 5 high 7 tonne max. weight 2) C 80/6: 5 Container (9'6") high all Containers 7 tonne max. weight Container load weight C80/6 C80/5 C80/4 C80/3 8'6" Container 9'6" Container 9'6" Container 8' Container 8'6" Container Q Height (mm) 8 t 7773 4876 5182 8 t 8 t 8 t







Model	20 FR		40 FR		1	Wa		
	R1	R2	R ₁	R2	20 Fr	40 Fr		
C 80/3	4920	3810	7927	5623	9603	14905	5000	
C 80/4	4920	3810	7927	5623	9603	14905	5000	
C 80/5	4920	3810	7927	5623	9603	14905	5000	
C 80/6	4920	3810	7927	5623	9603	14905	5200	

2438 2591 8 t 8 t to c=1295 mm

8 t	9752	8 t	10364	8 t	11584
8 t	7314	8 t	7773	8 t	8688
8 t	4876	8 t	5182	8 t	5792
8 t	2438	8 t	2591	8 t	2896

8' C	ontainer	8'6" (Container	9'6" Container			
Q	Height (mm)	Q	Height (mm)	Q	Height (mm		
8 t	☐ 12190 	8 t	12955	8 t	14480		
8 t	9752	8 t	10364	8 t	11584		
8 t	7314	8 t	7773	8 t	8688		
8t	4876	8 t	5182	8 t	5792		
8+	7 2438	8+	2591	8 t	2896		

3' Container 8'6" Containe		Container	9'6" Container		8' Container		8'6" Container		9'6" Container		
Q	Height (mm)	Q	Height (mm)	Q	Height (mm)	Q	Height (mm)	Q	Height (mm)	Q	Height (mm)
-	,	N7.5	•			6 t	14628	6 t	15546		
8 t	7 12190 €	8 t	12955	8 t	14480	8 t	12190	8 t	12955	7 t	14480
Bt	9752	8 t	10364	8 t	11584	8 t	9752	8 t	10364	8 t	11584
3 t	7314	8 t	7773	8 t	8688	8 t	7314	8 t	7773	8 t	8688
B t	4876	8 t	5182	8 t	5792	8 t	4876	8 t	5182	8 t	5792
Bt	2438	8 t	2591	8 t	2896	8 t	2438	8 t	2591	8 t	2896
to c = 1295 mm						to c=1295 mm					