



Standard Equipment/Optional Equipment

Standard Equipment

Linde twin drive pedals to control forward/reverse travel and braking
 Original Linde Load Control integrated in armrest
 Suspended and hydraulically damped comfort-class seat with extensive range of adjustment
 Hydrostatic steering, kickback free
 Anti-glare display with fuel gauge, clock, hour meter and service information
 LEPS (Linde-Engine-Protection-System) as monitoring of motor oil level and pressure, temperature and level of the cooling water and temperature of the hydraulic oil
 Plenty of storage space for writing utensils, beverage cans...
 Air intake filter with integrated cyclone separator
 High-performance hydraulic filter concept, guarantees maximum oil purity and extends life of all hydraulic components
 Variable displacement pumps for driving and lifting to reduce fuel consumption
 Interior light, 12V socket
 Superelastic tyres

Optional Equipment

Single drive pedal with direction selector on armrest
 Overhead guard can be upgraded to full cabine with roof, front and rear screens and doors (also available with tinted glass)
 Wiper-washers for front, rear and roof screens
 Further seats with additional comfort and adjustments
 Cab heater with integrated pollen filter
 Air Conditioning
 Radio and DAB + radio
 Sun blinds, illuminated clipboard, interior lighting, height adjustable steering column
 Standard masts from 3,350 mm to 8,850 mm lift
 Triplex masts (full free lift) from 4,770 mm to 9,755 mm lift
 One, two or three additional hydraulic circuits for all mast types
 Alternative fork lengths

For Diesel trucks EU/USA-version:

Turbocharged common rail DEUTZ diesel engine, 4.0l, 85kW, complies with 2004/26/EC stage 4 and US EPA Tier 4f, with intercooler, passive operating diesel particulate filter and a SCR catalyzer with diesel emission fluid (DEF/AdBlue) additive

For Diesel trucks non-EU-version:

Turbocharged common rail DEUTZ diesel engine, 4.0l, 85kW, with silencer but without diesel particulate filter

For LPG trucks:

Volkswagen 3.6l LPG engine with 3-way catalytic converter and 2 gas cylinders of 115l volume and ergonomic supply connections
 Filling level indicator in cabin display
 72kW output @ 2500rpm

LED truck lighting, LED working lamps
 Audible reversing alarm, flasher and strobe beacons
 Mirrors, sequential seat belt monitoring
 Linde original BlueSpot, BlueSpot RED
 Camera and colour monitor, terminal support
 Road traffic specifications
 Air precleaner, oilbath air precleaner
 Steering directional mudflaps
 Hydraulic accumulator
 Engine shut off 30 s to 5 min
 Foundry version
 Swivelling seat 17°
 Connected Solutions
 Custom paintwork

Other options available on request



Diesel and LPG Forklift Trucks
 Capacity 5000 - 8000 kg
 H50, H60, H70, H80 *EVO*[®]
 H80/900, H80/1100 *EVO*[®]

Series 396-03

Linde Material Handling

Linde

Safety

With loads weighing up to 8000 kg, safe and precise load handling is assured by the unique Linde Torsion Support. Mast deflection is reduced by up to 30% - an enormous advantage, especially with higher lift heights. This unique design also enables use of slimmer mast profiles for outstanding visibility.

Performance

A truck designed to cope with the really tough applications. Advanced drive technology with powerful diesel and LPG engines combined with the original Linde Load Control enables the operator to use the truck's vast potential to perform effectively every day, shift after shift.

Comfort

Relaxed when starting work, relaxed at the end of the shift. Linde provides this truck with a generously sized automobile class workspace. The perfect interface between operator and truck has been achieved through the Linde ergonomic design concept. The spacious cab, comfort-class seat with adjustable armrest and intuitive controls allow fast and stress-free working.

Reliability

50 years of continuous development of the original Linde hydraulic system are combined with robust industrial engines. The result is absolute reliability. The power unit with its two maintenance-free displacement pumps for driving and lifting is designed for ease of operation in arduous applications.

Productivity

Efficient and cost-effective at work: The original Linde hydrostatic transmission has no gearbox, no clutch, no differential and no conventional drum brakes. As a result, uptime is increased and maintenance costs are low. The three-way isolation of the operator's compartment, chassis and engine significantly reduces oscillation and vibration to maximise productivity.

Features

Original Linde hydrostatic drive

- Sensitive, smooth, and precise driving
- Variable displacement pumps and motors for best energy consumption
- No clutch, no differential, and no drum brakes thanks to hydrostatic drive and braking
- Robust drive even in extreme environments

Linde clear-view mast

- Excellent visibility due to narrow mast sections made possible by top-mounted tilt cylinders
- Full rated capacity up to maximum lift height
- Exceptional residual capacity thanks to Linde Torsion Support



Linde twin accelerator pedals

- Fast and smooth travel direction changes without constantly moving feet from one pedal to the other
- Progressive hydrostatic braking occurs as either accelerator pedal is released
- No strain on ankles or legs
- Operator maintains high efficiency levels

Linde Load Control

- Mini levers for all mast functions mounted on an adjustable armrest
- Precise and effortless fingertip control of all mast functions for safe, efficient load handling
- Engine rpm is automatically synchronised to precisely match hydraulic demands

Linde Truck Control

- Advanced electronic controller
- High reliability resulting from duplicated monitoring systems
- Automatic control of engine speed determined by load carried
- Enclosed in sealed modules for protection against dust and dirt



Linde operator's compartment

- Advanced functional design for optimum operator comfort and efficiency
- Superb working environment with spacious leg and headroom
- Excellent visibility of the load and surrounding environment through slim-line profile mast sections
- Resilient mounting of drive unit and driver compartment absorbs road shocks and vibrations
- Quiet, stress-free working



Highly economical engine design

- DEUTZ industrial diesel engine complies with 2004/26/EC Stage 4 and US EPA Tier 4f as EU/USA-version with DOC Diesel particle filter + SCR catalyzer
- Or Volkswagen LPG engine incorporating advanced technology
- High torque
- Low fuel consumption
- Low engine-out emissions



Linde Torsion Support

- Stresses on the mast and chassis caused by the dynamic torsional movements of the load are reduced by up to 30% thanks to the Linde Torsion Support system
- The top mounted tilt jacks provide the optimum leverage for outstanding mast control and handling stability of heavy loads
- Safer, smoother load handling and extended working life

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Linde Material Handling

Linde

Subject to modification in the interest of progress. Illustrations and technical details could include options and not binding for actual constructions. All dimensions subject to usual tolerances.

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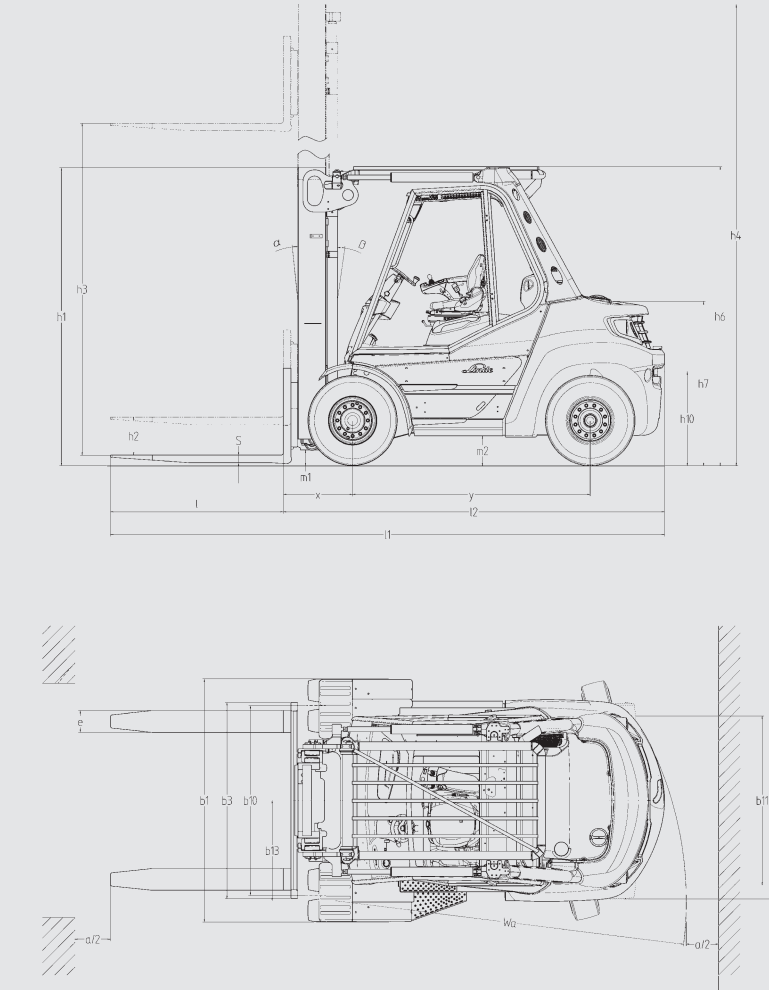
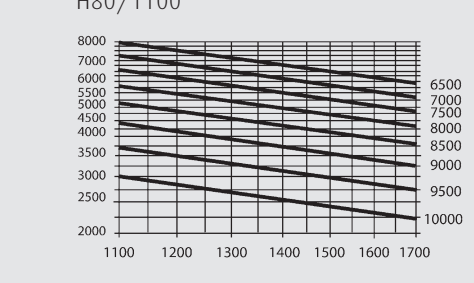
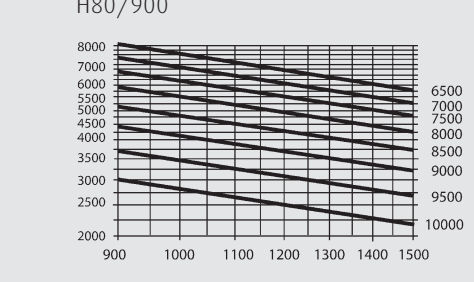
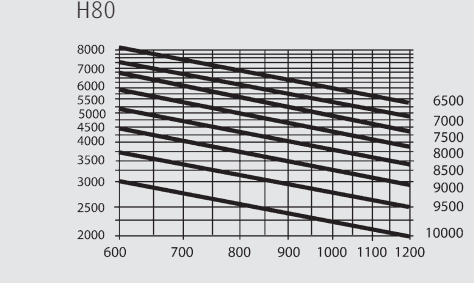
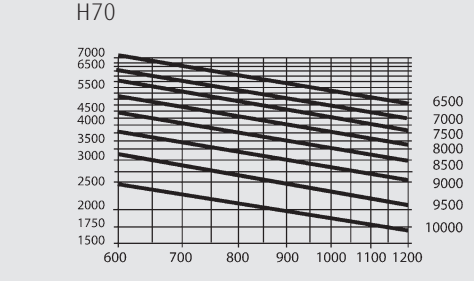
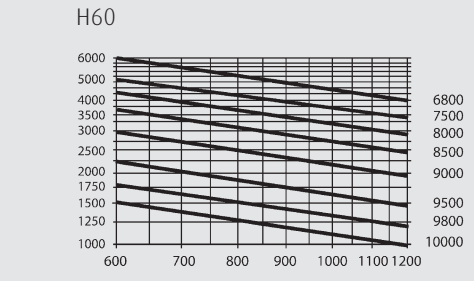
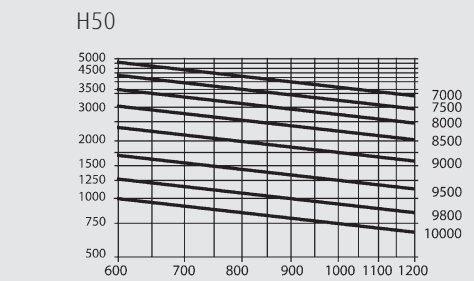
Technical Data according to VDI 2198

Characteristics	LINDE														
	1.1	1.2	1.2a	1.3	1.4	1.5	1.6	1.8	1.9	2.1	2.2	2.3	3.1	3.2	3.3
Manufacturer	LINDE														
Model designation	H50D H60D H70D H80D H80/900D H80/1100D H50T H60T H70T H80T H80/900T H80/1100T														
Series	396-03														
Power unit	Diesel Diesel Diesel Diesel Diesel Diesel LPG LPG LPG LPG LPG LPG														
Operation	Seat Seat Seat Seat Seat Seat Seat Seat Seat Seat Seat Seat Seat Seat Seat Seat														
Load capacity/Load	Q (t)	5.0 6.0 7.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0													
Load centre	c (mm)	600 600 600 600 900 1100 600 600 600 600 600 900 1100													
Axle centre to fork face	x (mm)	630 630 640 640 670 680 630 630 640 640 670 680													
Wheelbase	y (mm)	2200 2200 2200 2200 2510 2810 2200 2200 2200 2200 2510 2810													
Service weight	(kg)	10105 10169 11381 12335 14039 14873 9980 10031 11379 12210 13931 14748													
Axle load with load, front/rear	(kg)	12689 / 2416 14250 / 1919 15995 / 2386 17844 / 2491 19725 / 2314 20586 / 2287 12504 / 2476 14030 / 2001 15904 / 2475 17625 / 2585 19563 / 2368 20388 / 2360													
Axle load without load, front/rear	(kg)	4894 / 5211 4895 / 5274 5050 / 6331 5335 / 7000 6721 / 7318 7518 / 7355 4709 / 5271 4675 / 5356 4959 / 6420 5116 / 7094 6559 / 7372 7320 / 7428													
Tyres rubber, SE, pneumatic, polyurethane	SE SE SE twin SE twin SE twin SE twin SE SE SE twin SE twin SE twin SE twin SE twin SE twin														
Tyre size, front	355/65-15 355/65-15 8.25-15 8.25-15 8.25-15 8.25-15 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15)														
Tyre size, rear	8.25-15 8.25-15 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15) 315/70-15 (300-15)														
Wheels, number front/rear (x = driven)	2x / 2 2x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2 4x / 2														
Track width, front	b10 (mm)	1594 1594 1742 1742 1742 1752 1594 1594 1742 1742 1742 1752													
Track width, rear	b11 (mm)	1600 1600 1550 1550 1550 1550 1600 1600 1550 1550 1550 1550													
Mast/fork carriage tilt, forward/backward	a/b (°)	5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0 5.0 / 9.0													
Height of mast, lowered	h1 (mm)	2735 ¹⁾ 2735 ¹⁾ 2738 ¹⁾ 2737 ¹⁾ 2735 ¹⁾ 2737 ¹⁾ 2735 ¹⁾ 2735 ¹⁾ 2738 ¹⁾ 2737 ¹⁾ 2735 ¹⁾ 2735 ¹⁾ 2737 ¹⁾ 2735 ¹⁾ 2737 ¹⁾													
Free lift	h2 (mm)	150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150													
Lift	h3 (mm)	3550 ²⁾ 3550 ²⁾ 3150 ²⁾ 3150 ²⁾ 2750 ²⁾ 2750 ²⁾ 3550 ²⁾ 3550 ²⁾ 3150 ²⁾ 3150 ²⁾ 2750 ²⁾ 2750 ²⁾ 3550 ²⁾ 3550 ²⁾ 3150 ²⁾													
Height of mast, extended	h4 (mm)	4448 4448 4245 4244 4144 4146 4448 4448 4245 4244 4144 4146 4448 4448 4245 4244 4144 4146													
Height of overhead guard (cabin)	h6 (mm)	2746 2746 2748 2746 2746 2747 2746 2746 2748 2746 2746 2747 2746 2746 2748 2746 2747													
Height of seat/stand on platform	h7 (mm)	1507 1507 1509 1508 1507 1508 1507 1507 1509 1508 1507 1508 1507 1508 1507 1508 1508													
Towing coupling height	h10 (mm)	830 830 830 828 828 827 830 830 828 828 828 828 828 827 830 828 827													
Overall length	l1 (mm)	4719 4719 4729 4729 5629 6339 4719 4719 4729 4729 5629 6339													
Length to fork face	l2 (mm)	3519 3519 3529 3529 3829 4139 3519 3519 3529 3529 3829 4139													
Overall width	b1/b2 (mm)	1900 / 1870 ³⁾ 1900 / 1870 ³⁾ 2232 / 1870 ³⁾ 2232 / 1870 ³⁾ 2232 / 1870 ³⁾ 2305 / 1870 ³⁾ 1900 / 1870 ³⁾ 1900 / 1870 ³⁾ 2232 / 1870 ³⁾ 2232 / 1870 ³⁾ 2232 / 1870 ³⁾ 2305 / 1870 ³⁾ 1900 / 1870 ³⁾ 1900 / 1870 ³⁾ 2232 / 1870 ³⁾													
Fork dimensions	s/e/l (mm)	60 x 130 x 1200 60 x 130 x 1200 70 x 150 x 1200 70 x 150 x 1200 70 x 200 x 1800 80 x 200 x 2200 60 x 130 x 1200 60 x 130 x 1200 70 x 150 x 1200 70 x 200 x 1800 70 x 150 x 1200 70 x 200 x 2200 80 x 200 x 2200													
Fork carriage to ISO 2328, class/type A, B	4A 4A 4A 4A 4A 4A 4A 4A 4A 4A 4A 4A 4A 4A 4A 4A														
Width of fork carriage	b3 (mm)	1800 1800 1800 2180 2180 2400 1800 1800 1800 1800 2180 2180 2400													
Ground clearance, below mast	m1 (mm)	208 204 208 204 201 208 208 204 208 204 201 208 208 204 208 204													
Ground clearance, centre of wheelbase	m2 (mm)	250 249 251 250 248 250 250 249 251 250 248 250 250 249 251 250													
Aisle width with pallet 1000 x 1200 across forks	Ast (mm)	5016 ⁴⁾ 5016 ⁴⁾ 5026 ⁴⁾ 5026 ⁴⁾ - ⁴⁾ - ⁴⁾ 5016 ⁴⁾ 5016 ⁴⁾ 5026 ⁴⁾ 5026 ⁴⁾ - ⁴⁾ - ⁴⁾ 5016 ⁴⁾ 5016 ⁴⁾ 5026 ⁴⁾ 5026 ⁴⁾ - ⁴⁾ - ⁴⁾													
Aisle width with pallet 800 x 1200 along forks	Ast (mm)	5216 ⁴⁾ 5216 ⁴⁾ 5226 ⁴⁾ 5226 ⁴⁾ - ⁴⁾ - ⁴⁾ 5216 ⁴⁾ 5216 ⁴⁾ 5226 ⁴⁾ 5226 ⁴⁾ - ⁴⁾ - ⁴⁾ 5216 ⁴⁾ 5216 ⁴⁾ 5226 ⁴⁾ 5226 ⁴⁾ - ⁴⁾ - ⁴⁾													
Aisle width with load length 2400 mm	Ast (mm)	- - - - 6780 7130 - - - 6780 7130 - - - 6780 7130 - - - 6780 7130													
Turning radius	Wa (mm)	3186 3186 3186 3186 3510 3850 3186 3186 3186 3186 3510 3850													
Minimum pivoting point distance	b13 (mm)	1061 1061 1061 1061 1240 1410 1061 1061 1061 1061 1240 1410													
Travel speed, with/without load	(km/h)	22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23 22 / 23													
Lifting speed, with/without load	(m/s)	0.54 / 0.54 0.54 / 0.54 0.49 / 0.53 0.49 / 0.53 0.49 / 0.53 0.49 / 0.53 0.51 / 0.53 0.51 / 0.53 0.43 / 0.54 0.4 / 0.54 0.4 / 0.54 0.4 / 0.54 0.4 / 0.54 0.4 / 0.54 0.4 / 0.54													
Lowering speed, with/without load	(m/s)	0.54 / 0.5 0.54 / 0.5 0.56 / 0.45 0.56 / 0.45 0.56 / 0.45 0.56 / 0.45 0.5 / 0.5 0.5 / 0.5 0.56 / 0.48 0.56 / 0.48 0.56 / 0.48 0.56 / 0.48 0.56 / 0.48 0.56 / 0.48 0.56 / 0.48													
Tractive force, with/without load	(N)	50000 / 35000 50000 / 35000 50000 / 37000 51000 / 41000 52000 / 46000 54000 / 50000 50000 / 35000 50000 / 35000 50000 / 37000 51000 / 41000 52000 / 46000 54000 / 50000 50000 / 35000 50000 / 35000 50000 / 37000 51000 / 41000													
Climbing ability, with/without load	(%)	32.0 / 36.0 30.0 / 36.0 28.0 / 35.0 26.0 / 34.0 24.0 / 34.0 23.0 / 34.0 32.0 / 35.0 30.0 / 35.0 27.0 / 34.0 25.0 / 34.0 23.0 / 34.0 22.0 / 34.0 32.0 / 35.0 30.0 / 35.0 27.0 / 34.0 25.0 / 34.0													
Acceleration time, with/without load	(s)	5.4 / 4.8 5.6 / 5.0 5.7 / 5.1 5.8 / 5.2 6.0 / 5.2 6.1 / 5.3 6.2 / 5.2 6.4 / 5.4 6.6 / 5.6 6.8 / 5.8 7.0 / 6.0 7.2 / 6.2 5.4 / 4.8 5.6 / 5.0 5.7 / 5.1 5.8 / 5.2 6.0 / 5.2 6.1 / 5.3 6.2 / 5.2 6.4 / 5.4 6.6 / 5.6 6.8 / 5.8 7.0 / 6.0 7.2 / 6.2													
Service brake	hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic hydrostatic														
Engine manufacturer/type	Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4 Deutz TCD 4.1 L4														
Engine performance according to ISO 1585	(kW)	85 85 85 85 85 85 72 72 72 72 72 72 72 72 72 72													
Rated speed	(1/min)	2200 2200 2200 2200 2200 2200 2500 2500 2500 2500 2500 2500 2500 2500 2500 2500													
Number of cylinders/displacement	(-/cm3)	4 / 4038 4 / 4038 4 / 4038 4 / 4038 4 / 4038 4 / 4038 6 / 3597 6 / 3597 6 / 3597 6 / 3597 6 / 3597 6 / 3597 6 / 3597 6 / 3597 6 / 3597 6 / 3597													
Fuel consumption according to VDI cycle	(l/h)	6.9 7.3 7.8 8.3 8.4 8.5 - - - - 6.5 6.9 7.3 7.8 8.2 8.6													
Fuel consumption according to VDI cycle	(kg/h)	- - - - - 6.5 6.9 7.3 7.8 8.2 8.6													
Type of drive control	hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl. hydrost./stepl.														
Operating pressure for attachments	(bar)	265 265 265 265 265 265 265 265 265 265 265 265 265 265 265 265													
Oil flow for attachments	(l/min)	95 95 95 95 95 95 95 95 95 95 95 95 95 95 95 95													
Noise level at operator's ear	(dB(A))	77 77 77 77 77 77 76 76 76 76 76 76 76 76 76 76													
Towing coupling, design/type, DIN 15 170	similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H similar to form H														

1) With 150 mm free lift
2) For alternative masts, refer to tables

3) front/rear
4) Including a 200 mm (min.) operating aisle clearance.

Load Capacity Diagrams



Overall and lift heights H50, H60 (in mm)		Standard mast					Triplex mast				
Lift	h3	3550	4150	4550	5260	6050	4770	5820	6420	7470	8670
Overall heights, forks lowered with 150 mm freelif (Standard)	h1	2730	3030	3230	3580	3980	2770	3010	3210	3560	3960
Overall heights at max. lift with 4 rollers fork carriage	h4	4440	5040	5440	6140	6940	5660	6710	7310	8360	9560
Overall heights at max. lift with 6/8 rollers fork carriage	h4	4640	5240	5640	6340	7140	5860	6910	7510	8560	9760

Overall and lift heights H70, H80 (in mm)		Standard mast					Triplex mast				
Lift	h3	3150	3750	4150	4850	5650	4705	5605	6205	7255	8455
Overall heights, forks lowered with 150 mm freelif (Standard)	h1	2730	3030	3230	3580	3980	2710	3010	3210	3560	3960
Overall heights at max. lift with 4 rollers fork carriage	h4	4240	4840	5240	5940	6740	5795	6695	7295	8345	9545
Overall heights at max. lift with 8 rollers fork carriage	h4	4540	5140	5540	6240	7040	6095	6995	7595	8645	9845

Overall and lift heights H80/900, H80/1100 (in mm)		Standard mast					Triplex mast				
Lift	h3	2750	3350	3750	4450	5250	4205	5105	5705	6755	7955
Overall heights, forks lowered with 150 mm freelif (Standard)	h1	2730	3030	3230	3580	3980	2710	3010	3210	3560	3960
Overall heights at max. lift with 8 rollers fork carriage	h4	4140	4740	5140	5840	6640	5595	6495	7095	8145	9345