



## Forklift Truck Capacity 10000 – 18000 kg HT100D – HT180D

Series 1411

### Safety

Excellent all round visibility is achieved by the overall design of the new HT100D-HT180D. By positioning the cab, seat and steering in a centralized position Linde ensures a superb through mast visibility. The rear visibility is optimized by the wide rear screen and unique "Clear View" rear deck. The new armoured glass roof provides an unobstructed view to the lifted load.

### Performance

A highlight of the HT100D-HT180D range is the lifting "Power on Demand" capability which balances engine speed to the truck application, this ensures delivery of maximum hydraulic performance while reducing fuel and consequently service costs. High productivity is delivered by the robust, quiet, reliable and fuel-efficient Diesel engine.

### Comfort

This truck delivers a comfortable and ergonomic operating environment with maximized cab space. Fully adjustable seating allows the driver to set his individual seating position, whilst a range of options ensures that the cab can be tailored to individual customer requirements. The premium armrest is optionally equipped with an ergonomic "rotary multi-function interface" which is connected to a 7" screen.

### Reliability

The new Linde range of heavy forklift trucks are equipped with quality, well-known, robust and reliable Original Equipment Manufacturer (OEM) components which have been thoroughly tested in material handling and heavy duty applications to ensure a long operational life.

### Productivity

Powerful acceleration and precise load handling are provided at all times thereby assuring optimal levels of productivity. The Mercedes-Benz/Detroit Diesel, ZF 3 WG and Kessler drive train combination ensures fully automatic powershift transmission with no interruption of the tractive effort by the use of proportional valves and highly intelligent software.

Linde Material Handling

*Linde*

# Standard Equipment/Optional Equipment

## Standard Equipment

Open cabin with armoured glass roof	Engine intake air cleaner with integral safety element
Adjustable steering column	ZF 3 WG 161/ZF 3 WG 131 ERGOPOWER SERIES (depending on the truck model)
Orange lap type seat belt	Kessler D81 drive axle
USB charging port	Digital, proportional valve with integrated safety monitoring
Battery isolator switch	High-performance hydraulic filter preserving max. purity of oil for long life of all hydraulic components
Abundant storage space	Undertrays on chassis
Chassis mounted hourmeter	Fork carriage, width b3=2545 mm
12V socket in cabin	Trelleborg or similar premium tyres
Lockable, underseat storage box	Standard mast, lift height h3 = 4000 mm
Single drive pedal with direction selector in armrest	Linde Service Monitoring System incl. static and mobile working hours
Basic PVC covered seat	
Linde Load Control for low-effort precision of all mast functions	
Armrest with storage box	
4.3" High resolution colour display	
Electro-hydraulic forward tilting cabin	
Audible warning reverse alarm (85 dB)	

## Optional Equipment

Fully cabin with clear, tinted or heated glass and armoured glass roof	Remote (Modem) diagnostics
External rear view mirrors	Absent driver shut off switch
Internal mirror/Panoramic internal mirror	Connect Access Control
Buddy seat, PVC covered	Individual levers for lift and tilt/forkspreload and sideshift
10° or 17° rotating driver's seat	Digital audio broadcasting radio with MP3, USB, Bluetooth and speakers
DIN A4 illuminated clipboard	Truck speed limiting based on digital input (switch inside the cabin)
Cup holder	Cyclonic air intake filter
Heater/Climate Control	Single and double auxiliary hydraulics for all mast types
Sun blinds front & top screen	Linde Load Weight Indicator (+/- 100 kg)
Cabin pre-heater	Mast accumulator
Reversing camera system and screen	Integral fork positioner
Active radar system	Michelin and Simex E4 tyres
Seat incorporating air suspension with compressor	Standard masts, 2430 - 9500 mm lift height (model specific, refer to mast table)
Gated lever - additional hydraulic service	Duplex masts (full free lift), 2580 - 7000 mm lift height (model specific)
External step lighting	Custom paintwork
Working lights LED	Triplex masts (full free lift), 5500 - 7000 mm lift height
Full road lighting	Variable displacement piston pump
Beacon lamps	
7" colour display with „rotary pushbutton knob“ for ergonomic menu navigation	

# Features

## Modern, powerful engines

- Modern, reliable and fuel-efficient Diesel engines
- Mercedes-Benz OM934 (Detroit Diesel DD5) EU Stage IV at 129 kW, 150 kW or 170kW power ratings incorporating selective catalytic reduction
- Perkins 1106D E70TA ECE-R96 (EU Stage IIIA) at 129 kW or 151 kW



## Reliable equipment

- Known quality OEM components, thoroughly tested for endurance and security in operation
- Variable displacement piston pumps and CanBus control valves
- Kessler D81 Drive Axle
- ZF 3WG 161/ ZF 3WG 131 Transmission
- Heavy Duty mast and chains

## Precise operation

- Power on Demand Capability
- Linde Load Control
- Precise load handling and powerful acceleration based on hydro-dynamic drive

## Linde Service Monitoring System (SMS)

- Optimized Total Cost of Ownership due to real time monitoring of static and mobile working hours
- Lubricants are changed based on application and not fixed hours - saving time, money and resources
- Mercedes-Benz engine - 750hrs engine oil change interval

## Linde Carriage Options

- Non-hydraulic carriage or Hydraulic carriage with integrated, hook type or pin type forks
- Apron Style (Multifunctional) Carriage with bar mounted forks
- USA Bar type carriage with pin type forks
- Levelling carriage for uneven surfaces with integrated, hook or pin type forks



## Operator's compartment

- Maximized cab and adjustable steering column
- Linde Load Control electro joysticks
- IFM Colour Display 4.3" High Resolution
- Optional 7" High Resolution Colour Display with „rotary multi-function interface“



## Forward Tilt Cab

- Unique design
- Major service items can be reached easily by tilting the cab forward
- Maximized access is possible by tilting the cooler
- Minimized truck footprint in the service center
- Easy service access from both sides of the truck



## Unique all-round visibility

- Excellent through mast visibility due to an optimized seating position
- The armoured glass roof section provides excellent visibility on the elevated load
- Superb rear visibility guaranteed by a wide rear screen and the unique Linde „Clear View“ deck incorporating a flush mounted cooling pack, the repositioning of all obtrusive components and the Porsche designed counterweight

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.

# Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE
	1.2	Manufacturer's type designation		<b>HT100D/600</b>	<b>HT120D/600</b>
	1.2a	Series		1411-00	1411-00
	1.3	Power unit		Diesel	Diesel
	1.4	Operation		Seat	Seat
	1.5	Load capacity/Load	Q (t)	10.0	12.0
	1.6	Load centre distance	c (mm)	600	600
	1.8	Axle centre to fork face	x (mm)	847	847
	1.9	Wheelbase	y (mm)	3000	3000
Weights	2.1	Service weight	(kg)	16298	16453
	2.2	Axle load with load, front/rear	(kg)	23150 / 3148	26163 / 2290
	2.3	Axle load without load, front/rear	(kg)	8327 / 7971	8375 / 8078
Wheels /Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Pneumatic	Pneumatic
	3.2	Tyre size, front		10.00-20 / 16PR	10.00-20 / 16PR
	3.3	Tyre size, rear		10.00-20 / 16PR	10.00-20 / 16PR
	3.5	Wheels, number front/rear (x = driven)		4x / 2	4x / 2
	3.6	Track width, front	b10 (mm)	1874	1874
	3.7	Track width, rear	b11 (mm)	1970	1970
	Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	15.0 / 10.0 <sup>1)</sup>
4.2		Height of mast, lowered	h1 (mm)	3404 <sup>2)</sup>	3404 <sup>2)</sup>
4.3		Free lift	h2 (mm)	150	150
4.4		Lift	h3 (mm)	4000	4000
4.5		Height of mast, extended	h4 (mm)	5329	5329
4.7		Height of overhead guard (cabin)	h6 (mm)	3010	3010
4.8		Height of seat/stand on platform	h7 (mm)	1974	1974
4.12		Towing coupling height	h10 (mm)	550	550
4.19		Overall length	l1 (mm)	5984	5984
4.20		Length to fork face	l2 (mm)	4584	4584
4.21		Overall width	b1/b2 (mm)	2530 / 2300	2530 / 2300
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	90 x 200 x 1400	90 x 200 x 1400
4.23		Fork carriage to ISO 2328, class/type A, B		Hyd Fork Posn.	Hyd Fork Posn.
4.24		Width of fork carriage	b3 (mm)	2545	2545
4.25		Fork spread	b5 (mm)	610 / 2274	610 / 2274
4.31		Ground clearance, below mast	m1 (mm)	172	172
4.32		Ground clearance, centre of wheelbase	m2 (mm)	346	346
4.33		Load dimension b12 x l6	b12 x l6 (mm)	-	-
4.34		Aisle width predetermined load dimensions	Ast (mm)	-	-
4.34.1		Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	6549 (6149) <sup>3)</sup>	6549 (6149) <sup>3)</sup>
4.34.2		Aisle width with pallet 800 x 1200 along forks	Ast (mm)	6549 (6349) <sup>3)</sup>	6549 (6349) <sup>3)</sup>
4.35		Turning radius	Wa (mm)	4102	4102
4.36	Minimum pivoting point distance	b13 (mm)	1362	1362	
Performance	5.1	Travel speed, with/without load	(km/h)	27.9 / 29.1	27.6 / 29.1
	5.2	Lifting speed, with/without load	(m/s)	0.4 / 0.42	0.4 / 0.42
	5.3	Lowering speed, with/without load	(m/s)	0.45 / 0.4	0.45 / 0.4
	5.5	Tractive force, with/without load	(N)	98500 / 100500	98300 / 100600
	5.7	Climbing ability, with/without load	(%)	41.3 / 80.8	37.6 / 79.7
	5.9	Acceleration time, with/without load	(s)	-	-
	5.10	Service brake		Wet disc	Wet disc
6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	24 (2x 12) / 95	24 (2x 12) / 95	
IC-Drive	7.1	Engine manufacturer/type		Mercedes-Benz OM934	Mercedes-Benz OM934
	7.2	Engine performance according to DIN ISO 1585	(kW)	129	129
	7.3	Rated speed	(1/min)	2200	2200
	7.4	Number of cylinders / displacement	(-/cm3)	4 / 5100	4 / 5100
	7.5	Fuel consumption according to VDI cycle	(l/h)	-	-
8.1	Type of drive unit		Torque conv. 3/3	Torque conv. 3/3	
Others	10.1	Operating pressure for attachments	(bar)	250	250
	10.2	Oil flow for attachments	(l/min)	5-130	5-130
	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	70	70
	10.8	Towing coupling, design/type, DIN 15 170		Ø 50 mm	Ø 50 mm

1) tilt angle (forward) stops at 5°, 15° is possible over second interlock  
2) With 150 mm free lift  
3) Including a 200 mm (min.) operating aisle clearance.

4) Figures in ( ) if fork length ≤ 1000 mm  
5) Figures in ( ) if fork length ≤ 1200 mm

# Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE
	1.2	Manufacturer's type designation		<b>HT140D/600</b>	<b>HT150D/600</b>
	1.2a	Series		1411-00	1411-00
	1.3	Power unit		Diesel	Diesel
	1.4	Operation		Seat	Seat
	1.5	Load capacity/Load	Q (t)	14.0	15.0
	1.6	Load centre distance	c (mm)	600	600
	1.8	Axle centre to fork face	x (mm)	884	884
	1.9	Wheelbase	y (mm)	3000	3250
Weights	2.1	Service weight	(kg)	19081	19253
	2.2	Axle load with load, front/rear	(kg)	30495 / 2586	31500 / 2753
	2.3	Axle load without load, front/rear	(kg)	9570 / 9511	9651 / 9602
Wheels /Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Pneumatic	Pneumatic
	3.2	Tyre size, front		12.00-20 / 20PR	12.00-20 / 20PR
	3.3	Tyre size, rear		12.00-20 / 20PR	12.00-20 / 20PR
	3.5	Wheels, number front/rear (x = driven)		4x / 2	4x / 2
	3.6	Track width, front	b10 (mm)	1874	1874
	3.7	Track width, rear	b11 (mm)	1970	1970
	Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	15.0 / 10.0 <sup>1)</sup>
4.2		Height of mast, lowered	h1 (mm)	3736 <sup>2)</sup>	3736 <sup>2)</sup>
4.3		Free lift	h2 (mm)	150	150
4.4		Lift	h3 (mm)	4000	4000
4.5		Height of mast, extended	h4 (mm)	5661	5661
4.7		Height of overhead guard (cabin)	h6 (mm)	3035	3035
4.8		Height of seat/stand on platform	h7 (mm)	2004	2004
4.12		Towing coupling height	h10 (mm)	580	580
4.19		Overall length	l1 (mm)	6066	6316
4.20		Length to fork face	l2 (mm)	4666	4916
4.21		Overall width	b1/b2 (mm)	2565 / 2300	2565 / 2300
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	100 x 200 x 1400	100 x 200 x 1400
4.23		Fork carriage to ISO 2328, class/type A, B		Hyd Fork Posn.	Hyd Fork Posn.
4.24		Width of fork carriage	b3 (mm)	2545	2545
4.25		Fork spread	b5 (mm)	620 / 2220	620 / 2220
4.31		Ground clearance, below mast	m1 (mm)	200	200
4.32		Ground clearance, centre of wheelbase	m2 (mm)	376	376
4.33		Load dimension b12 x l6	b12 x l6 (mm)	-	-
4.34		Aisle width predetermined load dimensions	Ast (mm)	-	-
4.34.1		Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	6586 (6186) <sup>3)4)</sup>	6822 (6422) <sup>3)4)</sup>
4.34.2		Aisle width with pallet 800 x 1200 along forks	Ast (mm)	6586 (6386) <sup>3)5)</sup>	6822 (6622) <sup>3)5)</sup>
4.35		Turning radius	Wa (mm)	4102	4338
4.36	Minimum pivoting point distance	b13 (mm)	1362	1405	
Performance	5.1	Travel speed, with/without load	(km/h)	28.3 / 30.2	28.3 / 30.2
	5.2	Lifting speed, with/without load	(m/s)	0.37 / 0.4	0.4 / 0.42
	5.3	Lowering speed, with/without load	(m/s)	0.42 / 0.38	0.45 / 0.4
	5.5	Tractive force, with/without load	(N)	92800 / 95500	103000 / 105900
	5.7	Climbing ability, with/without load	(%)	29.8 / 59.3	32.2 / 67.7
	5.9	Acceleration time, with/without load	(s)	-	-
	5.10	Service brake		Wet disc	Wet disc
6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	24 (2x 12) / 95	24 (2x 12) / 95	
IC-Drive	7.1	Engine manufacturer/type		Mercedes-Benz OM934	Mercedes-Benz OM934
	7.2	Engine performance according to DIN ISO 1585	(kW)	129	150
	7.3	Rated speed	(1/min)	2200	2200
	7.4	Number of cylinders / displacement	(-/cm3)	4 / 5100	4 / 5100
	7.5	Fuel consumption according to VDI cycle	(l/h)	-	-
8.1	Type of drive unit		Torque conv. 3/3	Torque conv. 3/3	
Others	10.1	Operating pressure for attachments	(bar)	250	250
	10.2	Oil flow for attachments	(l/min)	5-130	5-130
	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	70	70
	10.8	Towing coupling, design/type, DIN 15 170		Ø 50 mm	Ø 50 mm

1) tilt angle (forward) stops at 5°, 15° is possible over second interlock  
 2) With 150 mm free lift  
 3) Including a 200 mm (min.) operating aisle clearance.

4) Figures in ( ) if fork length ≤ 1000 mm  
 5) Figures in ( ) if fork length ≤ 1200 mm

# Technical Data according to VDI 2198

			LINDE	LINDE	
Characteristics	1.1	Manufacturer		LINDE	
	1.2	Manufacturer's type designation	<b>HT160D/600</b>	<b>HT180D/600</b>	
	1.2a	Series	1411-00	1411-00	
	1.3	Power unit	Diesel	Diesel	
	1.4	Operation	Seat	Seat	
	1.5	Load capacity/Load	Q (t)	16.0	18.0
	1.6	Load centre distance	c (mm)	600	600
	1.8	Axle centre to fork face	x (mm)	884	884
	1.9	Wheelbase	y (mm)	3250	3250
Weights	2.1	Service weight	(kg)	19720	22113
	2.2	Axle load with load, front/rear	(kg)	32935 / 2785	36613 / 3500
	2.3	Axle load without load, front/rear	(kg)	9629 / 10091	10394 / 11719
Wheels /Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Pneumatic	Pneumatic
	3.2	Tyre size, front		12.00-20 / 20PR	12.00-20 / 20PR
	3.3	Tyre size, rear		12.00-20 / 20PR	12.00-20 / 20PR
	3.5	Wheels, number front/rear (x = driven)		4x / 2	4x / 2
	3.6	Track width, front	b10 (mm)	1874	1874
	3.7	Track width, rear	b11 (mm)	1970	1970
	Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	15.0 / 10.0 <sup>1)</sup>
4.2		Height of mast, lowered	h1 (mm)	3736 <sup>2)</sup>	3736 <sup>2)</sup>
4.3		Free lift	h2 (mm)	150	150
4.4		Lift	h3 (mm)	4000	4000
4.5		Height of mast, extended	h4 (mm)	5661	5661
4.7		Height of overhead guard (cabin)	h6 (mm)	3035	3035
4.8		Height of seat/stand on platform	h7 (mm)	2004	2004
4.12		Towing coupling height	h10 (mm)	580	580
4.19		Overall length	l1 (mm)	6316	6516
4.20		Length to fork face	l2 (mm)	4916	5116
4.21		Overall width	b1/b2 (mm)	2565 / 2300	2565 / 2300
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	100 x 200 x 1400	100 x 200 x 1400
4.23		Fork carriage to ISO 2328, class/type A, B		Hyd Fork Posn.	Hyd Fork Posn.
4.24		Width of fork carriage	b3 (mm)	2545	2545
4.25		Fork spread	b5 (mm)	620 / 2220	620 / 2220
4.31		Ground clearance, below mast	m1 (mm)	200	200
4.32		Ground clearance, centre of wheelbase	m2 (mm)	376	376
4.33		Load dimension b12 x l6	b12 x l6 (mm)	-	-
4.34		Aisle width predetermined load dimensions	Ast (mm)	-	-
4.34.1		Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	6822 (6422) <sup>3)</sup>	6996 (6596) <sup>3)</sup>
4.34.2		Aisle width with pallet 800 x 1200 along forks	Ast (mm)	6822 (6622) <sup>3)</sup>	6996 (6796) <sup>3)</sup>
4.35		Turning radius	Wa (mm)	4338	4512
4.36		Minimum pivoting point distance	b13 (mm)	1405	1405
Performance		5.1	Travel speed, with/without load	(km/h)	28.1 / 30.1
	5.2	Lifting speed, with/without load	(m/s)	0.37 / 0.42	0.37 / 0.4
	5.3	Lowering speed, with/without load	(m/s)	0.45 / 0.4	0.42 / 0.38
	5.5	Tractive force, with/without load	(N)	102700 / 105800	102600 / 105300
	5.7	Climbing ability, with/without load	(%)	30.6 / 65.3	30.3 / 55.6
	5.9	Acceleration time, with/without load	(s)	5.0 / 5.5	-
	5.10	Service brake		Wet disc	Wet disc
6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	24 (2x 12) / 95	24 (2x 12) / 95	
IC-Drive	7.1	Engine manufacturer/type		Mercedes-Benz OM934	Mercedes-Benz OM934
	7.2	Engine performance according to DIN ISO 1585	(kW)	150	150
	7.3	Rated speed	(1/min)	2200	2200
	7.4	Number of cylinders / displacement	(-/cm3)	4 / 5100	4 / 5100
	7.5	Fuel consumption according to VDI cycle	(l/h)	-	-
8.1	Type of drive unit		Torque conv. 3/3	Torque conv. 3/3	
Others	10.1	Operating pressure for attachments	(bar)	250	250
	10.2	Oil flow for attachments	(l/min)	5-130	5-130
	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	70	70
	10.8	Towing coupling, design/type, DIN 15 170		Ø 50 mm	Ø 50 mm

1) tilt angle (forward) stops at 5°, 15° is possible over second interlock  
2) With 150 mm free lift  
3) Including a 200 mm (min.) operating aisle clearance.

4) Figures in ( ) if fork length <= 1000 mm  
5) Figures in ( ) if fork length <= 1200 mm

# Technical Data according to VDI 2198

			HT180D/900		HT100D/1200	
Characteristics	1.1	Manufacturer		LINDE	LINDE	
	1.2	Manufacturer's type designation		<b>HT180D/900</b>	<b>HT100D/1200</b>	
	1.2a	Series		1411-00	1411-00	
	1.3	Power unit		Diesel	Diesel	
	1.4	Operation		Seat	Seat	
	1.5	Load capacity/Load	Q (t)	16.0	10.0	
	1.6	Load centre distance	c (mm)	900	1200	
	1.8	Axle centre to fork face	x (mm)	929	884	
	1.9	Wheelbase	y (mm)	3500	3000	
Weights	2.1	Service weight	(kg)	22786	19274	
	2.2	Axle load with load, front/rear	(kg)	34785 / 4001	27088 / 2186	
	2.3	Axle load without load, front/rear	(kg)	10424 / 12362	10141 / 9133	
Wheels /Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Pneumatic	Pneumatic	
	3.2	Tyre size, front		12.00-20 / 20PR	12.00-20 / 20PR	
	3.3	Tyre size, rear		12.00-20 / 20PR	12.00-20 / 20PR	
	3.5	Wheels, number front/rear (x = driven)		4x / 2	4x / 2	
	3.6	Track width, front	b10 (mm)	1874	1874	
	3.7	Track width, rear	b11 (mm)	1970	1970	
	Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	15.0 / 10.0 <sup>1)</sup>	15.0 / 10.0 <sup>1)</sup>
4.2		Height of mast, lowered	h1 (mm)	3736 <sup>2)</sup>	3736 <sup>2)</sup>	
4.3		Free lift	h2 (mm)	150	150	
4.4		Lift	h3 (mm)	4000	4000	
4.5		Height of mast, extended	h4 (mm)	5661	5661	
4.7		Height of overhead guard (cabin)	h6 (mm)	3035	3035	
4.8		Height of seat/stand on platform	h7 (mm)	2004	2004	
4.12		Towing coupling height	h10 (mm)	580	580	
4.19		Overall length	l1 (mm)	7166	6984	
4.20		Length to fork face	l2 (mm)	5366	4584	
4.21		Overall width	b1/b2 (mm)	2565 / 2300	2565 / 2300	
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	100 x 250 x 1800	100 x 200 x 2400	
4.23		Fork carriage to ISO 2328, class/type A, B		Hyd Fork Posn.	Hyd Fork Posn.	
4.24		Width of fork carriage	b3 (mm)	2545	2545	
4.25		Fork spread	b5 (mm)	720 / 2290	620 / 2220	
4.31		Ground clearance, below mast	m1 (mm)	200	200	
4.32		Ground clearance, centre of wheelbase	m2 (mm)	376	376	
4.33		Load dimension b12 x l6	b12 x l6 (mm)	2000 x 1800	2000 x 2400	
4.34		Aisle width predetermined load dimensions	Ast (mm)	7683 <sup>3)</sup>	7586 <sup>3)</sup>	
4.34.1		Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	8283 (6838) <sup>4)</sup>	7586 (6186) <sup>4)</sup>	
4.34.2		Aisle width with pallet 800 x 1200 along forks	Ast (mm)	8283 (7083) <sup>5)</sup>	7586 (6386) <sup>5)</sup>	
4.35		Turning radius	Wa (mm)	4754	4102	
4.36	Minimum pivoting point distance	b13 (mm)	1448	1362		
Performance	5.1	Travel speed, with/without load	(km/h)	25 / 25	28.8 / 30.1	
	5.2	Lifting speed, with/without load	(m/s)	0.37 / 0.4	0.37 / 0.4	
	5.3	Lowering speed, with/without load	(m/s)	0.42 / 0.38	0.42 / 0.38	
	5.5	Tractive force, with/without load	(N)	102100 / 105200	93500 / 95500	
	5.7	Climbing ability, with/without load	(%)	27.8 / 53.4	34.4 / 58.5	
	5.9	Acceleration time, with/without load	(s)	-	-	
	5.10	Service brake		Wet disc	Wet disc	
	6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	24 (2x 12) / 95	24 (2x 12) / 95	
IC-Drive	7.1	Engine manufacturer/type		Mercedes-Benz OM934	Mercedes-Benz OM934	
	7.2	Engine performance according to DIN ISO 1585	(kW)	150	129	
	7.3	Rated speed	(1/min)	2200	2200	
	7.4	Number of cylinders / displacement	(-/cm3)	4 / 5100	4 / 5100	
	7.5	Fuel consumption according to VDI cycle	(l/h)	-	-	
8.1	Type of drive unit		Torque conv. 3/3	Torque conv. 3/3		
Others	10.1	Operating pressure for attachments	(bar)	250	250	
	10.2	Oil flow for attachments	(l/min)	5-130	5-130	
	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	70	70	
	10.8	Towing coupling, design/type, DIN 15 170		Ø 50 mm	Ø 50 mm	

1) tilt angle (forward) stops at 5°, 15° is possible over second interlock  
2) With 150 mm free lift  
3) Including a 200 mm (min.) operating aisle clearance.

4) Figures in ( ) if fork length <= 1000 mm  
5) Figures in ( ) if fork length <= 1200 mm

# Technical Data according to VDI 2198

Characteristics	1.1	Manufacturer		LINDE	LINDE
	1.2	Manufacturer's type designation		<b>HT120D/1200</b>	<b>HT140D/1200</b>
	1.2a	Series		1411-00	1411-00
	1.3	Power unit		Diesel	Diesel
	1.4	Operation		Seat	Seat
	1.5	Load capacity/Load	Q (t)	12.0	14.0
	1.6	Load centre distance	c (mm)	1200	1200
	1.8	Axle centre to fork face	x (mm)	884	929
	1.9	Wheelbase	y (mm)	3250	3250
Weights	2.1	Service weight	(kg)	20725	22113
	2.2	Axle load with load, front/rear	(kg)	30464 / 2261	33565 / 2548
	2.3	Axle load without load, front/rear	(kg)	10769 / 9956	10394 / 11719
Wheels /Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Pneumatic	Pneumatic
	3.2	Tyre size, front		12.00-20 / 20PR	12.00-20 / 20PR
	3.3	Tyre size, rear		12.00-20 / 20PR	12.00-20 / 20PR
	3.5	Wheels, number front/rear (x = driven)		4x / 2	4x / 2
	3.6	Track width, front	b10 (mm)	1874	1874
	3.7	Track width, rear	b11 (mm)	1970	1970
	Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	15.0 / 10.0 <sup>1)</sup>
4.2		Height of mast, lowered	h1 (mm)	3736 <sup>2)</sup>	3736 <sup>2)</sup>
4.3		Free lift	h2 (mm)	150	150
4.4		Lift	h3 (mm)	4000	4000
4.5		Height of mast, extended	h4 (mm)	5661	5661
4.7		Height of overhead guard (cabin)	h6 (mm)	3035	3035
4.8		Height of seat/stand on platform	h7 (mm)	2004	2004
4.12		Towing coupling height	h10 (mm)	580	580
4.19		Overall length	l1 (mm)	7316	7516
4.20		Length to fork face	l2 (mm)	4916	5116
4.21		Overall width	b1/b2 (mm)	2565 / 2300	2565 / 2300
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	100 x 200 x 2400	100 x 250 x 2400
4.23		Fork carriage to ISO 2328, class/type A, B		Hyd Fork Posn.	Hyd Fork Posn.
4.24		Width of fork carriage	b3 (mm)	2545	2545
4.25		Fork spread	b5 (mm)	620 / 2220	720 / 2290
4.31		Ground clearance, below mast	m1 (mm)	200	200
4.32		Ground clearance, centre of wheelbase	m2 (mm)	376	376
4.33		Load dimension b12 x l6	b12 x l6 (mm)	2000 x 2400	2000 x 2400
4.34		Aisle width predetermined load dimensions	Ast (mm)	7822 <sup>3)</sup>	8041 <sup>3)</sup>
4.34.1		Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	7822 (6422) <sup>3)4)</sup>	8041 (6641) <sup>3)4)</sup>
4.34.2		Aisle width with pallet 800 x 1200 along forks	Ast (mm)	7822 (6622) <sup>3)5)</sup>	8041 (6841) <sup>3)5)</sup>
4.35		Turning radius	Wa (mm)	4338	4512
4.36		Minimum pivoting point distance	b13 (mm)	1405	1405
Performance	5.1	Travel speed, with/without load	(km/h)	28.4 / 29.9	28.1 / 29.8
	5.2	Lifting speed, with/without load	(m/s)	0.4 / 0.42	0.4 / 0.42
	5.3	Lowering speed, with/without load	(m/s)	0.45 / 0.4	0.45 / 0.4
	5.5	Tractive force, with/without load	(N)	92900 / 95200	102600 / 105300
	5.7	Climbing ability, with/without load	(%)	30.2 / 53.0	30.3 / 55.6
	5.9	Acceleration time, with/without load	(s)	-	-
	5.10	Service brake		Wet disc	Wet disc
6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	24 (2x 12) / 95	24 (2x 12) / 95	
IC-Drive	7.1	Engine manufacturer/type		Mercedes-Benz OM934	Mercedes-Benz OM934
	7.2	Engine performance according to DIN ISO 1585	(kW)	129	150
	7.3	Rated speed	(1/min)	2200	2200
	7.4	Number of cylinders / displacement	(-/cm3)	4 / 5100	4 / 5100
	7.5	Fuel consumption according to VDI cycle	(l/h)	-	-
8.1	Type of drive unit		Torque conv. 3/3	Torque conv. 3/3	
Others	10.1	Operating pressure for attachments	(bar)	250	250
	10.2	Oil flow for attachments	(l/min)	5-130	5-130
	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	70	70
	10.8	Towing coupling, design/type, DIN 15 170		Ø 50 mm	Ø 50 mm

1) tilt angle (forward) stops at 5°, 15° is possible over second interlock  
2) With 150 mm free lift  
3) Including a 200 mm (min.) operating aisle clearance.

4) Figures in ( ) if fork length ≤ 1000 mm  
5) Figures in ( ) if fork length ≤ 1200 mm



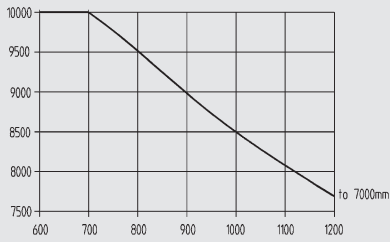
# Technical Data according to VDI 2198

			HT150D/1200	HT160D/1200	
	Manufacturer		LINDE	LINDE	
Characteristics	1.1	Manufacturer		LINDE	
	1.2	Manufacturer's type designation	<b>HT150D/1200</b>	<b>HT160D/1200</b>	
	1.2a	Series	1411-00	1411-00	
	1.3	Power unit	Diesel	Diesel	
	1.4	Operation	Seat	Seat	
	1.5	Load capacity/Load	Q (t)	15.0	16.0
	1.6	Load centre distance	c (mm)	1200	1200
	1.8	Axle centre to fork face	x (mm)	929	929
	1.9	Wheelbase	y (mm)	3500	3500
Weights	2.1	Service weight	(kg)	21981	22786
	2.2	Axle load with load, front/rear	(kg)	34553 / 2428	36157 / 2629
	2.3	Axle load without load, front/rear	(kg)	10429 / 11552	10424 / 12362
Wheels /Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane		Pneumatic	Pneumatic
	3.2	Tyre size, front		12.00-20 / 20PR	12.00-20 / 20PR
	3.3	Tyre size, rear		12.00-20 / 20PR	12.00-20 / 20PR
	3.5	Wheels, number front/rear (x = driven)		4x / 2	4x / 2
	3.6	Track width, front	b10 (mm)	1874	1874
	3.7	Track width, rear	b11 (mm)	1970	1970
	Dimensions	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	15.0 / 10.0 <sup>1)</sup>
4.2		Height of mast, lowered	h1 (mm)	3736 <sup>2)</sup>	3736 <sup>2)</sup>
4.3		Free lift	h2 (mm)	150	150
4.4		Lift	h3 (mm)	4000	4000
4.5		Height of mast, extended	h4 (mm)	5661	5661
4.7		Height of overhead guard (cabin)	h6 (mm)	3035	3035
4.8		Height of seat/stand on platform	h7 (mm)	2004	2004
4.12		Towing coupling height	h10 (mm)	580	580
4.19		Overall length	l1 (mm)	7766	7766
4.20		Length to fork face	l2 (mm)	5366	5366
4.21		Overall width	b1/b2 (mm)	2565 / 2300	2565 / 2300
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	100 x 250 x 2400	100 x 250 x 2400
4.23		Fork carriage to ISO 2328, class/type A, B		Hyd Fork Posn.	Hyd Fork Posn.
4.24		Width of fork carriage	b3 (mm)	2545	2545
4.25		Fork spread	b5 (mm)	720 / 2290	720 / 2290
4.31		Ground clearance, below mast	m1 (mm)	200	200
4.32		Ground clearance, centre of wheelbase	m2 (mm)	376	376
4.33		Load dimension b12 x l6	b12 x l6 (mm)	2000 x 2400	2000 x 2400
4.34		Aisle width predetermined load dimensions	Ast (mm)	8283 <sup>3)</sup>	8283 <sup>3)</sup>
4.34.1		Aisle width for pallets 1000 x 1200 crossways	Ast (mm)	8283 (6838) <sup>3)4)</sup>	8283 (6838) <sup>3)4)</sup>
4.34.2		Aisle width with pallet 800 x 1200 along forks	Ast (mm)	8283 (7083) <sup>3)5)</sup>	8283 (7083) <sup>3)5)</sup>
4.35		Turning radius	Wa (mm)	4754	4754
4.36		Minimum pivoting point distance	b13 (mm)	1448	1448
Performance	5.1	Travel speed, with/without load	(km/h)	27.9 / 29.8	27.7 / 29.7
	5.2	Lifting speed, with/without load	(m/s)	0.4 / 0.42	0.37 / 0.42
	5.3	Lowering speed, with/without load	(m/s)	0.45 / 0.4	0.45 / 0.4
	5.5	Tractive force, with/without load	(N)	102400 / 105400	102100 / 105200
	5.7	Climbing ability, with/without load	(%)	29.4 / 56.0	27.8 / 53.4
	5.9	Acceleration time, with/without load	(s)	-	-
	5.10	Service brake		Wet disc	Wet disc
6.4	Battery voltage/rated capacity (5h)	(V)/(Ah)	24 (2x 12) / 95	24 (2x 12) / 95	
IC-Drive	7.1	Engine manufacturer/type		Mercedes-Benz OM934	Mercedes-Benz OM934
	7.2	Engine performance according to DIN ISO 1585	(kW)	150	150
	7.3	Rated speed	(1/min)	2200	2200
	7.4	Number of cylinders / displacement	(-/cm3)	4 / 5100	4 / 5100
	7.5	Fuel consumption according to VDI cycle	(l/h)	-	-
8.1	Type of drive unit		Torque conv. 3/3	Torque conv. 3/3	
Others	10.1	Operating pressure for attachments	(bar)	250	250
	10.2	Oil flow for attachments	(l/min)	5-130	5-130
	10.7	Sound pressure level LpAZ (at the driver's seat)	(dB(A))	70	70
	10.8	Towing coupling, design/type, DIN 15 170		Ø 50 mm	Ø 50 mm

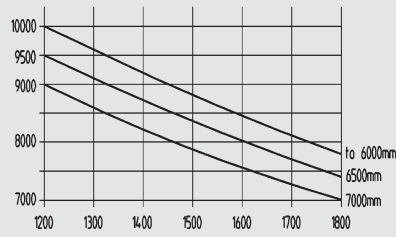
1) tilt angle (forward) stops at 5°, 15° is possible over second interlock  
2) With 150 mm free lift  
3) Including a 200 mm (min.) operating aisle clearance.

4) Figures in ( ) if fork length <= 1000 mm  
5) Figures in ( ) if fork length <= 1200 mm

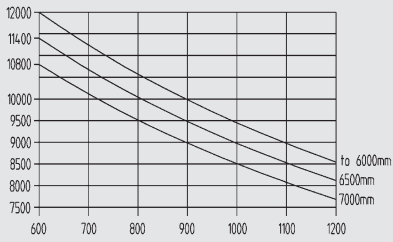
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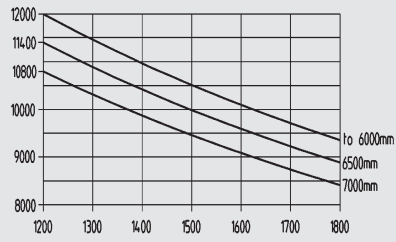
HT100D/1200



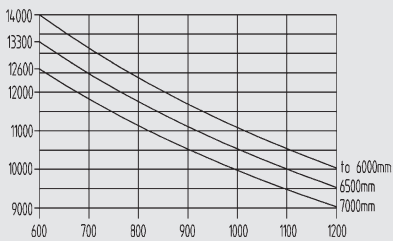
HT120D/600



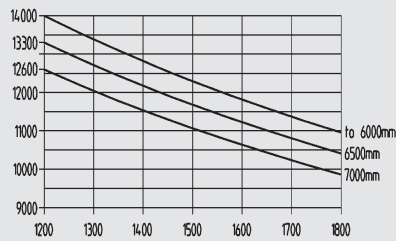
HT120D/1200



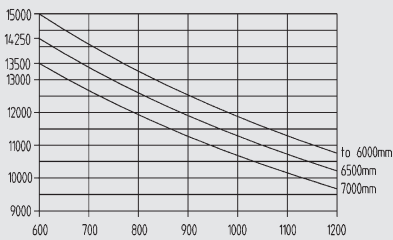
HT140D/600



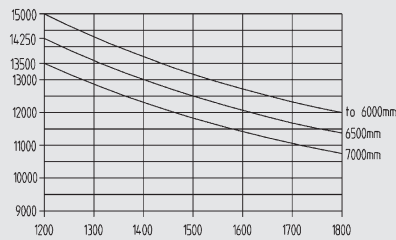
HT140D/1200



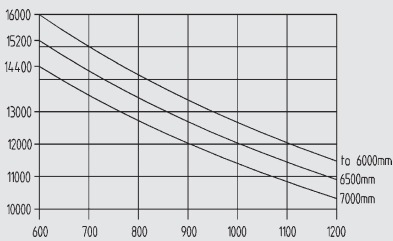
HT150D/600



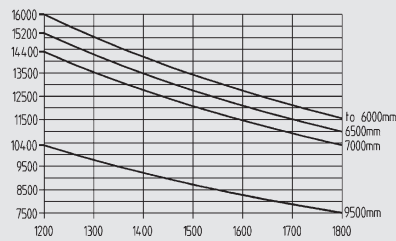
HT150D/1200



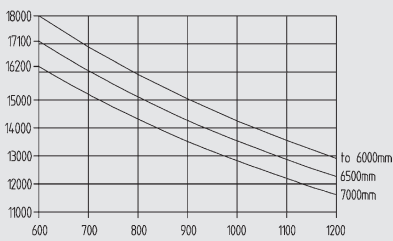
HT160D/600



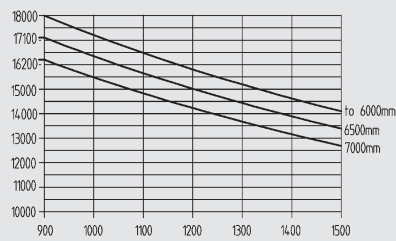
HT160D/1200

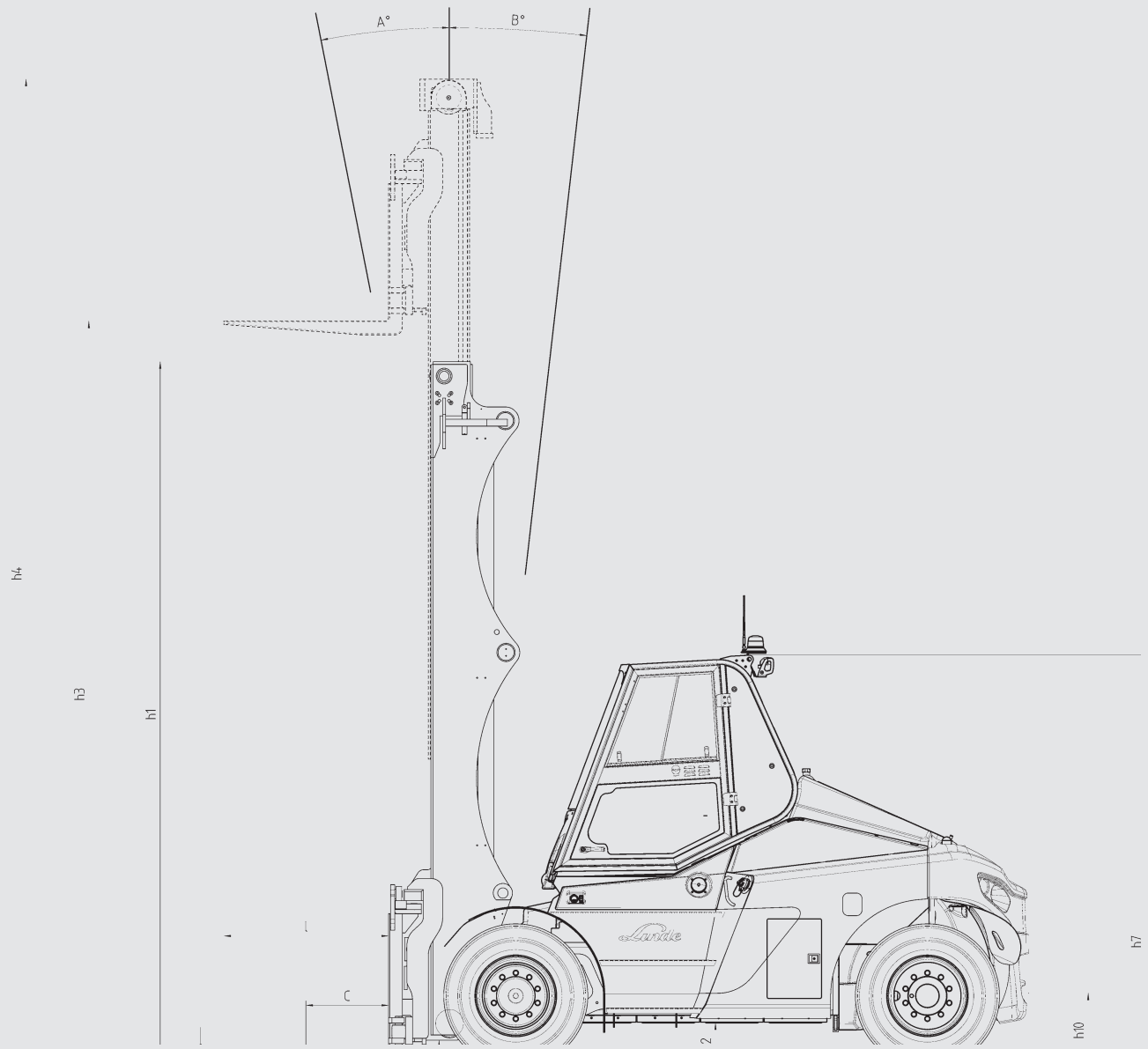
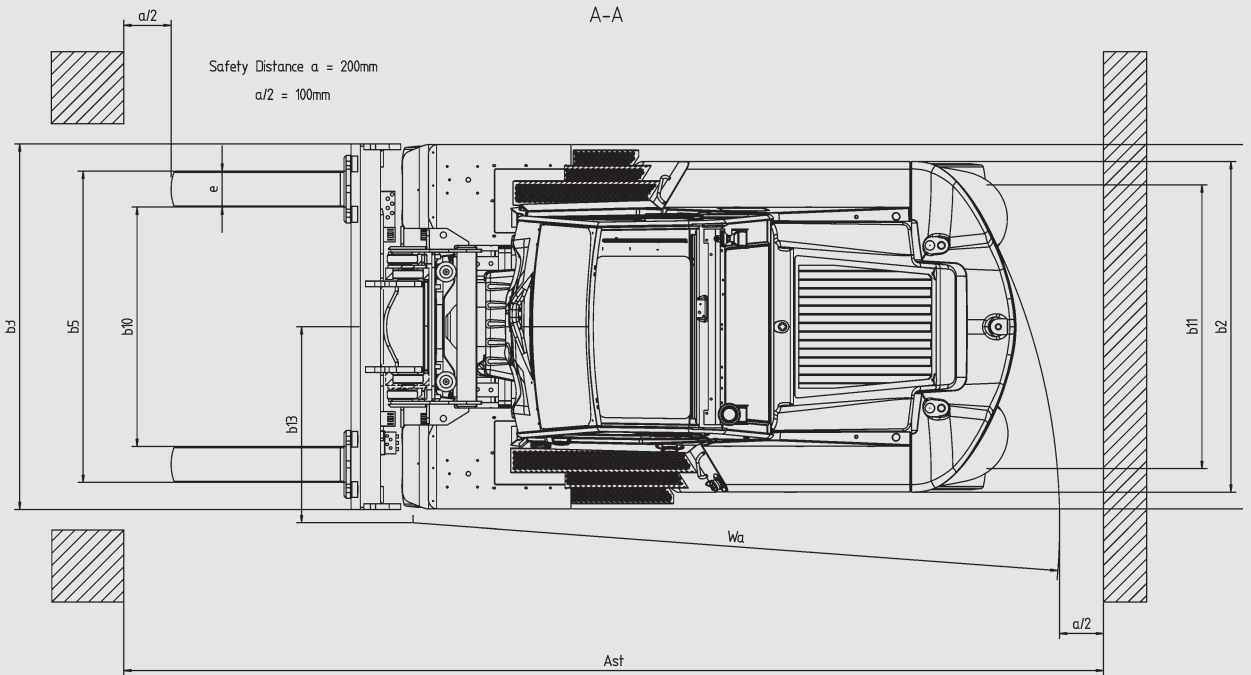


HT180D/600



HT180D/900







Standard Mast HT1000/600, HT1200/600									
<b>h3</b>	Lift	3500	4000	4500	5000	5500	6000	6500	
<b>h3 + s</b>	Lift Height	3590	4090	4590	5090	5590	6090	6590	
<b>h2</b>	Free Lift	150	150	150	150	150	150	150	
<b>h1</b>	Height or mast, lowered	3080	3330	3580	3830	4080	4330	4580	
<b>h1#</b>	Height or mast with free lift	3155	3405	3655	3905	4155	4405	4655	
<b>h4</b>	Height of mast, extended	4830	5330	5830	6330	6830	7330	7830	
	Tilt forward/back	15/10	15/10	15/10	15/10	15/10	15/10	15/10	

Standard Mast HT1000/1200, HT1200/1200, HT1400/600, HT1500/600, HT1600/600, HT1800/600									
<b>h3</b>	Lift	3500	4000	4500	5000	5500	6000	6500	7000
<b>h3 + s</b>	Lift Height	3600	4100	4600	5100	5600	6100	6600	7100
<b>h2</b>	Free Lift	150	150	150	150	150	150	150	150
<b>h1</b>	Height or mast, lowered	3410	3660	3910	4160	4410	4660	4910	5160
<b>h1#</b>	Height or mast with free lift	3485	3735	3985	4235	4485	4735	4985	5235
<b>h4</b>	Height of mast, extended	5160	5660	6160	6660	7160	7660	8160	8660
	Tilt forward/back	15/10	15/10	15/10	15/10	15/10	15/10	15/10	15/10

Standard Mast HT1400/1200, HT1500/1200, HT1600/1200, HT1800/900									
<b>h3</b>	Lift	3500	4000	4500	5000	5500	6000	6500	7000
<b>h3 + s</b>	Lift Height	3600	4100	4600	5100	5600	6100	6600	7100
<b>h2</b>	Free Lift	150	150	150	150	150	150	150	150
<b>h1</b>	Height or mast, lowered	3410	3660	3910	4160	4410	4660	4910	5160
<b>h1#</b>	Height or mast with free lift	3485	3735	3985	4235	4485	4735	4985	5235
<b>h4</b>	Height of mast, extended	5160	5660	6160	6660	7160	7660	8160	8660
	Tilt forward/back	15/10	15/10	15/10	15/10	15/10	15/10	15/10	15/10

# = forks 150 mm lifted