



Internal Combustion Engine Counterbalance Truck

H16 - H20

3140 - 4500 lb. Capacity

Series 391-02

- Compact dimensions for operation in tight corners
- Spacious, ergonomic workplace with outstanding visibility for maximum operating comfort
- Sturdy design for the most demanding applications in dusty environments or multi-shift operation
- Wide variety of models, comprehensive range of standard equipment, additional options and customer-specific solutions for maximum versatility
- Hydrostatic direct drive, Twin Pedal control and Linde Load Control ensure powerful, fast and precise power delivery
- Low fuel consumption, long service intervals and maintenance-free components ensure high availability and keep total cost of ownership as low as possible

STANDARD & OPTIONAL EQUIPMENT

	Model/Equipment	H16 - H20 T
Workplace	Ergonomic and safe truck access due to a low entry step and grab handle on A-pillar	●
	Innovative decoupling concept for lowest human vibrations	●
	Tilt adjustable steering column	○
	Container overhead guard: height 84 inch	●
	Operator's seat - fast mechanical weight adjustment	●
	Additional seating options such as heating, air suspension, active seat ventilation, longitudinal suspension	○
	Swiveling operator's seat	○
	Antiglare display with fuel gauge, clock, hour meter and servicing information	●
	Display shows engine oil pressure, engine overheating, parking brake, audible warning signal for engine and hydraulic oil temperature, blocked intake filter and low fuel consumption	●
	Armored glass top window	○
	DAB+, MP3 Player incl. bluetooth hands-free equipment	○
	Doors with opening window	○
	Illuminated clipboard	○
	Warm water heater incl. demister/air conditioning	○
Drive and Brake System	Linde Hydrostatic Drive - for high productivity and low fuel consumption	●
	Deutz LPG Engine - Fully EPA and CARB compliant	●
	LPG truck fitted with accurate ultrasonic fuel level indicator for exchange bottles	●
	3-Way catalytic converter	●
	Engine air filter including safety elements	●
	Linde Engine Protection System (LEPS)- warning, speed reduction under critical engine conditions	●
	Hydraulic parking brake	●
	Oversized, variable displacement pump for lifting functions - reduces fuel consumption, noise and gaseous emissions	●
	High performance hydraulic filter concept, guarantees maximum oil purity and extends life of all hydraulic components	●
	Power settings - efficiency, economy or performance	○
Axles and Tyres	Super Elastic (SE) tyres	●
	Closed Shoulder tyres CS 20	○
	Pneumatic tyres	○
	Antistatic, non-marking tyres	○
	Anti-spray mudflaps front and rear	○
		○
Mast	Top mounted tilt cylinders - including maintenance free bearings	●
	Best visibility through standard, duplex, triplex mast	●
	Electronically damped tilt stop	●
Attach-ment/ Fork	Hydraulic accumulator protects fragile loads over rough ground	○
	Integral roller guided sideshift with full lift capacity	○
	Integral fork positioner "View" for high residual capacities and optimized visibility	○
		○
CONFIDENCE	Linde Curve Assist - automatic drive speed reduction when cornering	●
	Electric seat belt monitoring - visual and acoustic feedback	●
	Linde Load Assist - increased safety at high lift heights	●
	BlueSpot and TruckSpot - optical warning signal for pedestrians and operators	○
	Load weight indicator	○
	load-dependent travel and lifting speed intervention plus additional functions	○
	Linde Guardian - truck to truck warning and truck to pedestrian warning	○
	Speed limitations (via switch, indoor-outdoor, load depending)	○
	Stability ensured by Linde Protector Frame	●
	Different lighting options truck lighting, working lamps, LED stripes, VertiLights	○
Digitalisation	Data Transmission Online	○
	Data Transmission Wifi	○
	Linde connect:desk - local fleet management with different functional modules	○
	Linde connect:cloud - fleet management as a service (hosted version)	○
	Pre-Operation Check - individualisable daily check protocol for operational readiness	○
		○
Operation/ Load Handling	Twin pedal control - stepless acceleration and fast reversing	●
	Single pedal control - stepless acceleration	○
	Linde Load Control - integrated into armrest for precise control of all hydraulic functions	●
	Individual Lever System	●

● Standard equipment ○ Optional equipment – Not available

ANSI: Standard truck meets all applicable mandatory requirements of ANSI/ISO B561 standards for powered industrial trucks.
NOTE: Performance data may vary due to motor and system efficiency tolerances. The performance depicted represents nominal values obtained under typical operating conditions. Metric dimensions are in millimeters unless otherwise specified. All metric dimensions are not direct equivalents due to rounding data. The descriptions and specifications included on this data sheet were in effect at the time of printing. ICON North America Corporation reserves the right to make improvements and changes in specification or design without notice and without incurring obligation. Please check with your authorized Linde dealer for information on possible updates or revisions.

H16 - H20 TECHNICAL DATA

WWCharacteristics	1.1	Manufacturer			LINDE		LINDE	
	1.2	Manufacturer's type designation			H16T		H18T	
	1.2a	Series			391-02		391-02	
	1.3	Power unit			Liquid Propane		Liquid Propane	
	1.4	Operation			Seat		Seat	
	1.5	Load capacity/Load			Q	lb.	kg	
	1.6	Load centre distance			c	inch	mm	
	1.8	Axle centre to fork face			x	inch	mm	
	1.9	Wheelbase			y	inch	mm	
Weights	2.1	Service weight				lb.	kg	
	2.2	Axle load, with load, front/rear				lb.	kg	
	2.3	Axle load, without load, front/rear				lb.	kg	
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane			SE & Cushion		SE & Cushion	
	3.2	Tyre size, front			(18x7-8) & (18x7x12)		(200/50-10) & (18x7x12)	
	3.3	Tyre size, rear			(18x7-8) & (18x6x12)		(18x7-8) & (18x6x12)	
	3.5	Wheels, number front/rear (x = driven)			2x / 2		2x / 2	
	3.6	Track width, front			b10	inch	mm	
DimensionsW	3.7	Track width, rear			b11		mm	
	4.1	Mast/fork carriage tilt, forward/backward			α/β (°)		6.0 / 9.0 ¹⁾	
	4.2	Height of mast, lowered			h1	inch	mm	
	4.3	Free lift			h2	inch	mm	
	4.4	Lift			h3	inch	mm	
	4.5	Height of mast, extended			h4	inch	mm	
	4.7	Height of overhead guard (cabin)			h6	inch	mm	
	4.8	Seat height relating to SIP/stand height			h7	inch	mm	
	4.12	Towing coupling height			h10	inch	mm	
	4.19	Overall length			l1	inch	mm	
	4.20	Length to fork face			l2	inch	mm	
	4.21	Overall width			b1/b2	inch	mm	
	4.23	Fork carriage			class 2		class 2	
	4.24	Width of fork carriage			b3	inch	mm	
	4.31	Ground clearance, below mast			m1	inch	mm	
	4.32	Ground clearance, centre of wheelbase			m2	inch	mm	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways			Ast	inch	mm	
	4.34.2	Aisle width with pallet 800 x 1200 along forks			Ast	inch	mm	
	4.35	Turning radius			Wa	inch	mm	
	4.36	Minimum pivoting point distance			b13	inch	mm	
Performance	5.1	Travel speed, with/without load			mph	km/h		
	5.2	Lifting speed, with/without load			f/m	m/s		
	5.3	Lowering speed, with/without load			f/m	m/s		
	5.5	Tractive force, with/without load				N		
	5.7	Climbing ability, with/without load			%			
	5.9	Acceleration time, with/without load			sec			
	5.10	Service brake			hydrostatic		hydrostatic	
IC-Drive	7.1	Engine manufacturer/type			Deutz G 2.2 L3		Deutz G 2.2 L3	
	7.2	Engine power			hp	40.8		
	7.3	Rated speed			rpm			
	7.4	Number of cylinders / displacement			3/in³	3/cm³		
Charact eristics	8.1	Type of drive unit			hydrost./stepl.		hydrost./stepl.	
Othes	10.1	Operating pressure for attachments			psi	bar		
	10.2	Oil flow for attachments			gpm	l/min		
	10.7	Sound pressure level LpAZ (at the driver's seat)			dB(A)			
	11.2	Static stability						

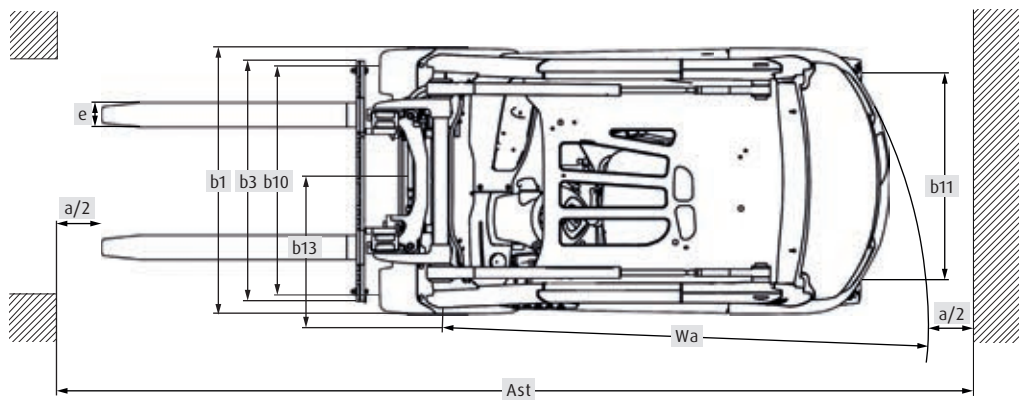
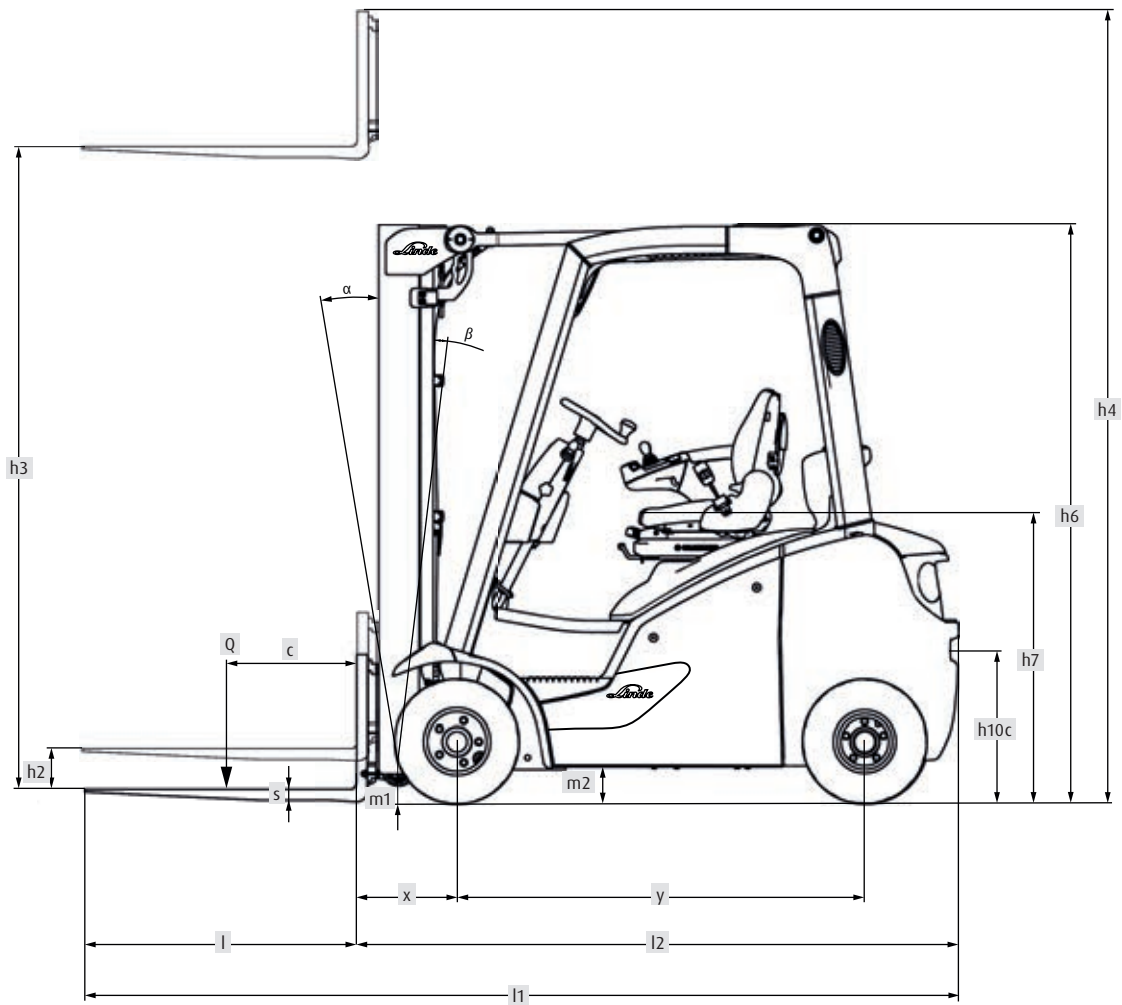
- 1) Lift height and equipment can alter rear mast tilt angle
- 2) includes 8" of operational clearance
- 3) add load length, add operational clearance
- 4) 10mph with cushion tires

H16 - H20 TECHNICAL DATA

WWCharacteristics	1.1	Manufacturer			LINDE		LINDE	
	1.2	Manufacturer's type designation			H20T		H20T/600	
	1.2a	Series			391-02		391-02	
	1.3	Power unit			Liquid Propane		Liquid Propane	
	1.4	Operation			Seat		Seat	
	1.5	Load capacity/Load			Q	lb.	kg	
	1.6	Load centre distance			c	inch	mm	
	1.8	Axle centre to fork face			x	inch	mm	
	1.9	Wheelbase			y	inch	mm	
Weights	2.1	Service weight				lb.	kg	
	2.2	Axle load, with load, front/rear				lb.	kg	
	2.3	Axle load, without load, front/rear				lb.	kg	
Wheels/Tyres	3.1	Tyres rubber, SE, pneumatic, polyurethane			SE & Cushion		Cushion only	
	3.2	Tyre size, front			(200/50-10) & (18x7x12)		18x7x12	
	3.3	Tyre size, rear			(18x7-8) & (18x6x12)		18x6x12	
	3.5	Wheels, number front/rear (x = driven)			2x / 2		2x / 2	
	3.6	Track width, front			b10	inch	mm	
	3.7	Track width, rear			b11		mm	
DimensionsW	4.1	Mast/fork carriage tilt, forward/backward			α/β (°)		6.0 / 9.0 ¹⁾	
	4.2	Height of mast, lowered			h1	inch	mm	
	4.3	Free lift			h2	inch	mm	
	4.4	Lift			h3	inch	mm	
	4.5	Height of mast, extended			h4	inch	mm	
	4.7	Height of overhead guard (cabin)			h6	inch	mm	
	4.8	Seat height relating to SIP/stand height			h7	inch	mm	
	4.12	Towing coupling height			h10	inch	mm	
	4.19	Overall length			l1	inch	mm	
	4.20	Length to fork face			l2	inch	mm	
	4.21	Overall width			b1/b2	inch	mm	
	4.23	Fork carriage			class 2		class 2	
	4.24	Width of fork carriage			b3	inch	mm	
	4.31	Ground clearance, below mast			m1	inch	mm	
	4.32	Ground clearance, centre of wheelbase			m2	inch	mm	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways			Ast	inch	mm	
	4.34.2	Aisle width with pallet 800 x 1200 along forks			Ast	inch	mm	
	4.35	Turning radius			Wa	inch	mm	
	4.36	Minimum pivoting point distance			b13	inch	mm	
Performance	5.1	Travel speed, with/without load				mph	km/h	
	5.2	Lifting speed, with/without load				f/m	m/s	
	5.3	Lowering speed, with/without load				f/m	m/s	
	5.5	Tractive force, with/without load					N	
	5.7	Climbing ability, with/without load					%	
	5.9	Acceleration time, with/without load					sec	
	5.10	Service brake						
IC-Drive	7.1	Engine manufacturer/type			Deutz G 2.2 L3		Deutz G 2.2 L3	
	7.2	Engine power				hp	40.8	
	7.3	Rated speed				rpm		
	7.4	Number of cylinders / displacement				3/in ³	3/cm ³	
Charact eristics	8.1	Type of drive unit			hydropst./stepl.		hydropst./stepl.	
Othes	10.1	Operating pressure for attachments				psi	bar	
	10.2	Oil flow for attachments				gpm	l/min	
	10.7	Sound pressure level LpAZ (at the driver's seat)					dB(A)	
	11.2	Static stability						

- 1) Lift height and equipment can alter rear mast tilt angle
- 2) includes 8" of operational clearance
- 3) add load length, add operational clearance
- 4) 10mph with cushion tires

H16 - H20 TECHNICAL DATA



H16 - H20 MAST TABLES

H16

For ISS & ISSFP, forks cannot be longer than 60" long

1.75" x 4" x 48" Forks Class 2

SGL 18x7-12.125 CUSH or SGL 18-7-12.125 SE **Cascade HOSS 55F-55S-2-0211

Mast Table								Capacity @ Load Center							
Lowered Height		Lift Height		Free Lift				Std. Carriage		Integral SS Carriage		Integral SSFP Carriage		38" HOSS** 55F-55S-2-0211	
h1		h3		h2		Tilt°									
in mm		in mm		in mm				lb kg		lb kg		lb kg		lb kg	
Simplex	86.5	2196	124.0	3150	0.0	0	6° F/9° B	3225	1470	3075	1400	3050	1390	3000	1370
	94.3	2396	139.8	3550	0.0	0	6° F/9° B	3225	1470	3075	1400	3050	1390	3000	1370
	100.2	2546	151.6	3850	0.0	0	6° F/9° B	3225	1470	3075	1400	3050	1390	3000	1370
	108.1	2746	167.3	4250	0.0	0	6° F/9° B	3225	1470	2975	1360	2975	1350	3000	1370
	116.0	2946	183.1	4650	0.0	0	6° F/9° B	3225	1470	2575	1170	2550	1160	3000	1370
Duplex	83.5	2121	123.8	3145	59.8	1518	6° F/9° B	3225	1470	3075	1400	3050	1390	3000	1370
	91.4	2321	139.6	3545	67.6	1718	6° F/9° B	3225	1470	3075	1400	3050	1390	3000	1370
	97.3	2471	151.4	3845	73.5	1868	6° F/9° B	3225	1470	3075	1400	3050	1390	3000	1370
Triplex	***	***	163.8	4160	***	***	***	***	***	2700	1230	2650	1210	***	***
	83.5	2121	182.1	4625	59.8	1519	6° F/9° B	3225	1470	2600	1190	2575	1170	3000	1370
	87.4	2221	193.9	4925	63.7	1619	6° F/9° B	2975	1350	2275	1040	2250	1030	2750	1250
	91.4	2321	205.7	5225	67.7	1719	6° F/9° B	2600	1190	1950	890	1925	880	2425	1100
	97.3	2471	215.6	5475	73.6	1869	6° F/9° B	2350	1070	1675	770	1675	760	2150	980
	105.2	2671	239.2	6075	81.5	2069	6° F/9° B	1675	760	1050	480	1000	460	1500	690
	109.1	2771	251.0	6375	85.4	2169	6° F/9° B	1325	610	725	330	700	320	1200	550

H18

For ISS & ISSFP, forks cannot be longer than 60" long

1.75" x 4" x 48" Forks Class 2

SGL 18x7-12.125 CUSH or SGL 18-7-12.125 SE **Cascade HOSS 55F-55S-2-0211

Mast Table								Capacity @ Load Center							
Lowered Height		Lift Height		Free Lift				Std. Carriage		Integral SS Carriage		Integral SSFP Carriage		38" HOSS** 55F-55S-2-0211	
h1		h3		h2		Tilt°									
in mm		in mm		in mm				lb kg		lb kg		lb kg		lb kg	
Simplex	86.5	2196	124.0	3150	0.0	0	6° F/9° B	3725	1690	3525	1610	3525	1600	3450	1570
	94.3	2396	139.8	3550	0.0	0	6° F/9° B	3725	1690	3525	1610	3525	1600	3450	1570
	100.2	2546	151.6	3850	0.0	0	6° F/9° B	3725	1690	3525	1610	3525	1600	3450	1570
	108.1	2746	167.3	4250	0.0	0	6° F/9° B	3725	1690	3525	1610	3525	1600	3450	1570
	116.0	2946	183.1	4650	0.0	0	6° F/9° B	3725	1690	3150	1440	3150	1430	3450	1570
Duplex	83.5	2121	123.8	3145	59.8	1518	6° F/9° B	3725	1690	3525	1610	3525	1600	3450	1570
	91.4	2321	139.6	3545	67.6	1718	6° F/9° B	3725	1690	3525	1610	3525	1600	3450	1570
	97.3	2471	151.4	3845	73.5	1868	6° F/9° B	3725	1690	3525	1610	3525	1600	3450	1570
Triplex	***	***	163.8	4160	***	***	***	***	***	3525	1610	3525	1600	***	***
	83.5	2121	182.1	4625	59.8	1519	6° F/9° B	3725	1690	3200	1460	3175	1450	3450	1570
	87.4	2221	193.9	4925	63.7	1619	6° F/9° B	3625	1650	2825	1290	2800	1280	3350	1530
	91.4	2321	205.7	5225	67.7	1719	6° F/9° B	3200	1460	2450	1120	2425	1110	2975	1360
	97.3	2471	215.6	5475	73.6	1869	6° F/9° B	3725	1690	2150	980	2100	960	2675	1220
	105.2	2671	239.2	6075	81.5	2069	6° F/9° B	2725	1240	1400	640	1350	620	1900	870
	109.1	2771	251.0	6375	85.4	2169	6° F/9° B	1675	770	1025	470	975	450	1525	700

H16 - H20 CAPACITY RATINGS

H20

For ISS & ISSFP, forks cannot be longer than 60" long

1.75" x 4" x 48" Forks Class 2

SGL 18x7-12.125 CUSH or SGL 18-7-12.125 SE **Cascade HOSS 55F-SSS-2-0211

Mast Table								Capacity @ Load Center							
Lowered Height		Lift Height		Free Lift				Std. Carriage		Integral SS Carriage		Integral SSFP Carriage		38" HOSS** 55F-SSS-2-0211	
h1		h3		h2		Tilt®									
in mm		in mm		in mm				lb kg		lb kg		lb kg		lb kg	
Simplex	86.5	2196	124.0	3150	0.0	0	6° F/9° B	4100	1870	3925	1790	3900	1780	3825	1740
	94.3	2396	139.8	3550	0.0	0	6° F/9° B	4100	1870	3925	1790	3900	1780	3825	1740
	100.2	2546	151.6	3850	0.0	0	6° F/9° B	4100	1870	3925	1790	3900	1780	3825	1740
	108.1	2746	167.3	4250	0.0	0	6° F/9° B	4100	1870	3825	1740	3800	1730	3825	1740
	116.0	2946	183.1	4650	0.0	0	6° F/9° B	4100	1870	3325	1510	3300	1500	3825	1740
Duplex	83.5	2121	123.8	3145	59.8	1518	6° F/9° B	4100	1860	3925	1790	3900	1780	3825	1740
	91.4	2321	139.6	3545	67.6	1718	6° F/9° B	4100	1860	3925	1790	3900	1780	3825	1740
	97.3	2471	151.4	3845	73.5	1868	6° F/9° B	4100	1860	3925	1790	3900	1780	3825	1740
Triplex	***	***	163.8	4160	***	***	***	***	***	3925	1790	3900	1780	***	***
	83.5	2121	182.1	4625	59.8	1519	6° F/9° B	4100	1860	3350	1520	3325	1510	3800	1730
	87.4	2221	193.9	4925	63.7	1619	6° F/9° B	4000	1820	2975	1350	2950	1340	3725	1690
	91.4	2321	205.7	5225	67.7	1719	6° F/9° B	3550	1620	2600	1180	2550	1160	3325	1510
	97.3	2471	215.6	5475	73.6	1869	6° F/9° B	3200	1460	2250	1030	2225	1020	2975	1350
	105.2	2671	239.2	6075	81.5	2069	6° F/9° B	2350	1070	1500	690	1475	670	2175	990
	109.1	2771	251.0	6375	85.4	2169	6° F/9° B	1925	880	1125	520	1100	500	1750	800

H20/600

For ISS & ISSFP, forks cannot be longer than 60" long

1.75" x 4" x 48" Forks Class 2

SGL 18x7-12.125 CUSH or SGL 18-7-12.125 SE **Cascade HOSS 55F-SSS-2-0211

Mast Table								Capacity @ Load Center							
Lowered Height		Lift Height		Free Lift				Std. Carriage		Integral SS Carriage		Integral SSFP Carriage		38" HOSS** 55F-SSS-2-0211	
h1		h3		h2		Tilt®									
in mm		in mm		in mm				lb kg		lb kg		lb kg		lb kg	
Simplex	86.5	2196	124.0	3150	0.0	0	6° F/9° B	4425	2010	4425	2010	4425	2010	4300	1960
	94.3	2396	139.8	3550	0.0	0	6° F/9° B	4425	2010	4425	2010	4425	2010	4300	1960
	100.2	2546	151.6	3850	0.0	0	6° F/9° B	4425	2010	4425	2010	4425	2010	4300	1960
	108.1	2746	167.3	4250	0.0	0	6° F/9° B	4275	1940	4200	1910	4175	1900	4100	1860
	116.0	2946	183.1	4650	0.0	0	6° F/9° B	3250	1480	3175	1450	3150	1440	3075	1400
Duplex	83.5	2121	123.8	3145	59.8	1518	6° F/9° B	4425	2010	4425	2010	4425	2010	4300	1960
	91.4	2321	139.6	3545	67.6	1718	6° F/9° B	4425	2010	4425	2010	4425	2010	4300	1960
	97.3	2471	151.4	3845	73.5	1868	6° F/9° B	4425	2010	4425	2010	4425	2010	4300	1960
Triplex	***	***	163.8	4160	***	***	***	4425	2010	4425	2010	4400	2000	4275	1950
	83.5	2121	182.1	4625	59.8	1519	6° F/9° B	3300	1500	3250	1480	3225	1470	3150	1430
	87.4	2221	193.9	4925	63.7	1619	6° F/9° B	2525	1150	2475	1130	2450	1120	2400	1090
	91.4	2321	205.7	5225	67.7	1719	6° F/9° B	1750	800	1700	780	1675	770	1650	750

CHARACTERISTICS

Linde Material Handling

Linde

CONFIDENCE

- Linde Protector Frame for the highest level of operator safety
- Particularly slim lift mast profile for optimum visibility
- Linde Curve Assist for reduced speed around corners, reducing the risk of the forklift truck tipping over
- Linde Engine Protection System for monitoring important engine operating parameters such as oil pressure, coolant level and temperature

ERGONOMICS

- Spacious cabin with a large footwell, comfortable seat and automotive ambience for low-fatigue working
- Ergonomic configuration of all controls with adjustable armrest and seat for efficient, comfortable working
- Precise and sensitive control of all mast and lifting movements for effortless maneuvering
- Operator's cab, mast and drive axle isolated from chassis for almost vibration and shock-free operation

HANDLING

- Hydrostatic direct drive for responsive, smooth and precise movement
- Durable diesel, LPG or natural gas engines ensure high torque and minimal fuel consumption
- Twin or single pedal control for efficient operation
- Linde Load Control for pin-point precision control of all mast function

SERVICE

- Maintenance-free mounting of axles and tilt cylinders for minimal downtime and operating costs
- Linde hydrostatic transmission reduces service costs, guarantees excellent availability and increases handling performance
- Easy access to maintenance components for fast servicing and increased truck availability
- Rapid diagnostics via laptop

For more information on Linde Material Handling equipment, please contact:



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