

# H190HD<sub>2</sub> - H210HD<sub>2</sub> SPECIFICATIONS

GENERAL	HYSTER		HYSTER	
	H190HD <sub>2</sub>		H210HD <sub>2</sub>	
1	Manufacturer		HYSTER	
2	Model designation		H190HD <sub>2</sub>	
3	Power: battery, diesel, LPG, electric mains		Diesel	
4	Transmission		SOH TE-10	ZF WG161
5	Brake		Air / Drum	Wet Disc
6	Operation: manual, pedestrian, stand, sit, seat		Seat	
7	Load capacity		19000 (8000)	
8	Load center		24 (600)	
9	Unladen weight including front end		27318 (12389)	
10	Axle loading with load, front/rear		40127 (18198)	4831 (2191)
11	Axle loading without load, front/rear		13814 (6265)	13503 (6124)
12	Tires		Pneumatic	
13	Tire size, front		10.00-20 14PR	
14	Tire size, rear		10.00-20 14PR	
15	Number of wheels, front/rear (X = driven)		4X / 2	
16	Tread width, front		86.2 (2190)	
17	Tread width, rear		76.0 (1930)	
18	Mast tilt, a = forward / b = back		15/12	
19	Height of mast, lowered		165.0 (4179)	
20	Lift height		212.0 (5401)	
21	Height of mast, extended; without LBE		270.0 (6846)	
22	Overhead guard height (including wiper)		118.7 (3015)	
23	Length to face of forks w/std. carriage		169.0 (4292)	
24	Load distance		28.5 (725)	
25	Wheelbase		106.3 (2700)	
26	Overall width - dry brake axle/wet brake axle*		97.80 (2484)	
27	Fork dimensions		2.5/8/48.0 (65/200/1220)	
28	Fork carriage type		2.56 (65) pin type	
29	Fork carriage width (without load backrest)		92.5 (2350)	
30	Out to out dimension, fork positioner*		20.5 - 87.8 (520 - 2230)	
31	Sideshift from center of truck*		5.9 (150)	
32	Ground clearance under mast, with load		9.8 (248)	
33	Ground clearance, center of wheelbase		10.8 (274)	
34	Aisle width with pallets 1000 x 1200 wide		225.9 (5739)	
35	Outer turning radius		154.1 (3914)	
	Inner turning radius		8.7 (220)	
36	Transmission manufacturer/type		SOH TE-10	ZF WG161
37	Travel speed with load		16.4 (26.4)	19.0 (30.5)
	Travel speed without load		17.5 (28.1)	19.4 (31.2)
38	Lifting speed loaded (Std. Performance)		90.6 (.46)	
	Lifting speed unloaded (Std. Performance)		102.4 (.52)	
39	Lowering speed loaded (Std. Performance)		98.4 (.50)	
	Lowering speed unloaded (Std. Performance)		95.0 (.48)	
40	Lifting speed loaded (High Performance)*		N/A	
	Lifting speed unloaded (High Performance)*		124.0 (.63)	
41	Lowering speed loaded (High Performance)*		98.4 (.50)	
	Lowering speed unloaded (High Performance)*		94.5 (.48)	
42	Tilt speed		5.0	
43	Drawbar pull with load (at 1 mph/1.6km/h)		196907 (89300)	211901 (96100)
	Drawbar pull without load (at 1 mph/1.6km/h)		79380 (36000)	79380 (36000)
44	Maximum drawbar pull with load		230643 (104600)	257544 (116800)
	Maximum drawbar pull without load		79380 (36000)	79380 (36000)
45	Gradeability with load (at 1 mph/1.6km/h)		51	
	Gradeability without load (at 1 mph/1.6km/h)		32	
	Gradeability with load		63	
	Gradeability without load		32	
46	Service brake air brakes / wet brakes		air	
47	Engine manufacturer/type		Cummins QSB6.7	
48	Engine output, in accordance with ISO 14396		155 (116)	
49	Engine torque		440/1500 (597/1500)	
50	Governed speed		2300	
51	Number of cylinders/displacement		6/409 (6/6700)	
52	Transmission		3-speed autoshift	
53	Working pressure for attachments		2800 (193)	
54	Oil flow for attachments		26.4 (100)	

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# H230HD<sub>2</sub> - H230HD<sub>2</sub>S SPECIFICATIONS

GENERAL	HYSTER		HYSTER	
	H230HD <sub>2</sub>		H230HD <sub>2</sub> S	
1	Manufacturer		HYSTER	
2	Model designation		H230HD <sub>2</sub>	
3	Power: battery, diesel, LPG, electric mains		Diesel	
4	Transmission		SOH TE-10	ZF WG161
5	Brake		Air / Drum	Wet Disc
6	Operation: manual, pedestrian, stand, sit, seat		Seat	
7	Load capacity	lbs (kg)	23000 (10000)	
8	Load center	in (mm)	24 (600)	
9	Unladen weight including front end	lbs (kg)	32169 (14589)	
10	Axle loading with load, front/rear	lbs (kg)	48347 (21926)   5872 (2663)	48347 (21926)   5872 (2663)
11	Axle loading without load, front/rear	lbs (kg)	15940 (7229)   16229 (7360)	15940 (7229)   16229 (7360)
12	Tires		Pneumatic	Pneumatic
13	Tire size, front		10.00-20 14PR	10.00-20 14PR
14	Tire size, rear		10.00-20 14PR	10.00-20 14PR
15	Number of wheels, front/rear (X = driven)		4X / 2	4X / 2
16	Tread width, front	in (mm)	86.2 (2190)	86.2 (2190)
17	Tread width, rear	in (mm)	76.0 (1930)	76.0 (1930)
18	Mast tilt, a = forward / b = back	degrees	15/12	15/12
19	Height of mast, lowered	in (mm)	176.0 (4453)	176.0 (4453)
20	Lift height	in (mm)	213.0 (5411)	213.0 (5411)
21	Height of mast, extended; without LBE	in (mm)	281.0 (7118)	281.0 (7118)
22	Overhead guard height (including wiper)	in (mm)	119.4 (3033)	119.4 (3033)
23	Length to face of forks w/std. carriage	in (mm)	177.0 (4495)	177.0 (4495)
24	Overall width - dry brake axle/wet brake axle*	in (mm)	97.80 (2484)	96.30 (2446)
25	Load distance	in (mm)	29.9 (760)	
26	Wheelbase	in (mm)	114.2 (2900)	
27	Fork dimensions	in (mm)	3.0/8/48.0 (75/200/1220)	
28	Fork carriage type	in (mm)	2.95 (75) pin type	
29	Fork carriage width (without load backrest)	in (mm)	92.5 (2350)	
30	Out to out dimension, fork positioner*	in (mm)	20.5 - 87.8 (520 - 2230)	
31	Sideshift from center of truck*	in (mm)	5.9 (150)	
32	Ground clearance under mast, with load	in (mm)	8.9 (225)	
33	Ground clearance, center of wheelbase	in (mm)	11.5 (292)	
34	Aisle width with pallets 1000 x 1200 wide	in (mm)	235.1 (5971)	
35	Outer turning radius	in (mm)	161.9 (4111)	
	Inner turning radius	in (mm)	9.9 (252)	
36	Transmission manufacturer/type		SOH TE-10	ZF WG161
37	Travel speed with load	mph (kph)	15.5 (25.0)	19.0 (30.6)
	Travel speed without load	mph (kph)	18.5 (29.7)	19.9 (32.0)
38	Lifting speed loaded (Std. Performance)	fpm (m/sec)	68.9 (.35)	68.9 (.35)
	Lifting speed unloaded (Std. Performance)	fpm (m/sec)	78.7 (.40)	78.7 (.40)
39	Lowering speed loaded (Std. Performance)	fpm (m/sec)	96.5 (.49)	96.5 (.49)
	Lowering speed unloaded (Std. Performance)	fpm (m/sec)	91.0 (.46)	91.0 (.46)
40	Lifting speed loaded (High Performance)*	fpm (m/sec)	N/A	82.7 (.42)
	Lifting speed unloaded (High Performance)*	fpm (m/sec)	N/A	94.5 (.48)
41	Lowering speed loaded (High Performance)*	fpm (m/sec)	N/A	98.4 (.50)
	Lowering speed unloaded (High Performance)*	fpm (m/sec)	N/A	90.6 (.46)
42	Tilt speed	deg/sec	5.0	
43	Drawbar pull with load (at 1 mph/1.6km/h)	lbs (kg)	189189 (85800)	67473 (30600)
	Drawbar pull without load (at 1 mph/1.6km/h)	lbs (kg)	90846 (41200)	90846 (41200)
44	Maximum drawbar pull with load	lbs (kg)	220059 (99800)	243432 (110400)
	Maximum drawbar pull without load	lbs (kg)	90846 (41200)	90846 (41200)
45	Gradeability with load (at 1 mph/1.6km/h)	%	38	
	Gradeability without load (at 1 mph/1.6km/h)	%	31	
	Gradeability with load	%	46	
	Gradeability without load	%	31	
46	Service brake air brakes / wet brakes		air	wet
47	Engine manufacturer/type		Cummins QSB6.7	Cummins QSB6.7
48	Engine output, in accordance with ISO 14396	hp (kW)	155 (116)	
49	Engine torque	lb-ft/rpm (Nm/rpm)	440/1500 (597/1500)	
50	Governed speed	rpm	2300	
51	Number of cylinders/displacement	in <sup>3</sup> (cm <sup>3</sup> )	6/409 (6/6700)	
52	Transmission		3-speed autoshift	
53	Working pressure for attachments	psi (bar)	2800 (193)	
54	Oil flow for attachments	gpm (l/min)	26.4 (100)	

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# H250HD<sub>2</sub> - H280HD<sub>2</sub> SPECIFICATIONS

GENERAL	WT.	H250HD <sub>2</sub>				H280HD <sub>2</sub>			
		H250HD <sub>2</sub>		H280HD <sub>2</sub>		H250HD <sub>2</sub>		H280HD <sub>2</sub>	
1	Manufacturer	HYSTER				HYSTER			
2	Model designation	H250HD <sub>2</sub>				H280HD <sub>2</sub>			
3	Power: battery, diesel, LPG, electric mains	Diesel				Diesel			
4	Transmission	SOH TE-10		ZF WG161		SOH TE-10		ZF WG161	
5	Brake	Air / Drum		Wet Disc		Air / Drum		Wet Disc	
6	Operation: manual, pedestrian, stand, sit, seat	Seat				Seat			
7	Load capacity	25000 (12000)				28000 (12000)			
8	Load center	24 (600)				24 (600)			
9	Unladen weight including front end	32581 (15444)				34054 (15444)			
10	Axle loading with load, front/rear	52772 (24773)   4810 (2672)		52772 (24773)   4810 (2672)		54624 (24770)   5892 (2672)		54624 (24770)   5892 (2672)	
11	Axle loading without load, front/rear	15938 (7136)   16643 (8308)		15938 (7136)   16643 (8308)		15735 (7136)   18319 (8308)		15735 (7136)   18319 (8308)	
12	Tires	Pneumatic				Pneumatic			
13	Tire size, front	10.00-20 14PR		10.00-20 14PR		10.00-20 14PR		10.00-20 14PR	
14	Tire size, rear	10.00-20 14PR		10.00-20 14PR		10.00-20 14PR		10.00-20 14PR	
15	Number of wheels, front/rear (X = driven)	4X/2		4X/2		4X / 2		4X / 2	
16	Tread width, front	86.2 (2190)		86.2 (2190)		86.2 (2190)		86.2 (2190)	
17	Tread width, rear	76.0 (1930)		76.0 (1930)		76.0 (1930)		76.0 (1930)	
18	Mast tilt, a = forward / b = back	15/12		15/12		15/12		15/12	
19	Height of mast, lowered	176.0 (4453)		176.0 (4453)		176.0 (4453)		176.0 (4453)	
20	Lift height	213.0 (5411)		213.0 (5411)		213.0 (5411)		213.0 (5411)	
21	Height of mast, extended; without LBE	281.0 (7118)		281.0 (7118)		281.0 (7118)		281.0 (7118)	
22	Overhead guard height (including wiper)	119.4 (3033)		119.4 (3033)		119.4 (3033)		119.4 (3033)	
23	Length to face of forks w/std. carriage	177.0 (4495)		177.0 (4495)		177.0 (4495)		177.0 (4495)	
24	Overall width - dry brake axle/wet brake axle*	97.80 (2484)		96.30 (2446)		97.8 (2484)		96.30 (2446)	
25	Load distance	29.9 (760)				29.9 (760)			
26	Wheelbase	114.2 (2900)				114.2 (2900)			
27	Fork dimensions	3.0/8/48.0 (75/200/1220)		3.0/8/48.0 (75/200/1220)		3.0/8/48.0 (75/200/1220)		3.0/8/48.0 (75/200/1220)	
28	Fork carriage type	2.95 (75) pin type		2.95 (75) pin type		2.95 (75) pin type		2.95 (75) pin type	
29	Fork carriage width (without load backrest)	92.5 (2350)		92.5 (2350)		92.5 (2350)		92.5 (2350)	
30	Out to out dimension, fork positioner*	20.5 - 87.8 (520-2230)		20.5 - 87.8 (520-2230)		20.5 - 87.8 (520-2230)		20.5 - 87.8 (520-2230)	
31	Sideshift from center of truck*	5.9 (150)		5.9 (150)		5.9 (150)		5.9 (150)	
32	Ground clearance under mast, with load	8.9 (225)		8.9 (225)		8.9 (225)		8.9 (225)	
33	Ground clearance, center of wheelbase	11.5 (292)		11.5 (292)		11.5 (292)		11.5 (292)	
34	Aisle width with pallets 1000 x 1200 wide	235.1 (5971)		235.1 (5971)		235.1 (5971)		235.1 (5971)	
35	Outer turning radius	161.9 (4111)		161.9 (4111)		161.9 (4111)		161.9 (4111)	
	Inner turning radius	9.9 (252)		9.9 (252)		9.9 (252)		9.9 (252)	
36	Transmission manufacturer/type	SOH TE-10		ZF WG161		SOH TE-10		ZF WG161	
37	Travel speed with load	15.5 (25.0)		18.8 (30.3)		15.5 (25.0)		18.8 (30.3)	
	Travel speed without load	18.5 (29.7)		19.9 (32.0)		18.5 (29.7)		19.9 (32.0)	
38	Lifting speed loaded (Std. Performance)	68.9 (.35)		68.9 (.35)		68.9 (.35)		68.9 (.35)	
	Lifting speed unloaded (Std. Performance)	78.7 (.40)		78.7 (.40)		78.7 (.40)		78.7 (.40)	
39	Lowering speed loaded (Std. Performance)	96.5 (.49)		96.5 (.49)		96.5 (.49)		96.5 (.49)	
	Lowering speed unloaded (Std. Performance)	91.0 (.46)		91.0 (.46)		91.0 (.46)		91.0 (.46)	
40	Lifting speed loaded (High Performance)*	N/A		82.7 (.42)		N/A		82.7 (.42)	
	Lifting speed unloaded (High Performance)*	N/A		94.5 (.48)		N/A		94.5 (.48)	
41	Lowering speed loaded (High Performance)*	N/A		98.4 (.50)		N/A		98.4 (.50)	
	Lowering speed unloaded (High Performance)*	N/A		90.6 (.46)		N/A		90.6 (.46)	
42	Tilt speed	5.0		5.0		5.0		5.0	
43	Drawbar pull with load (at 1 mph/1.6km/h)	187866 (85200)		198450 (90000)		187866 (85200)		198450 (90000)	
	Drawbar pull without load (at 1 mph/1.6km/h)	99005 (44900)		99005 (44900)		99005 (44900)		99005 (44900)	
44	Maximum drawbar pull with load	218736 (99200)		243432 (110400)		218736 (99200)		243432 (110400)	
	Maximum drawbar pull without load	99005 (44900)		99005 (44900)		99005 (44900)		99005 (44900)	
45	Gradeability with load (at 1 mph/1.6km/h)	32		34		32		34	
	Gradeability without load (at 1 mph/1.6km/h)	30		30		30		30	
	Gradeability with load	38		46		38		46	
	Gradeability without load	30		30		30		30	
46	Service brake air brakes / wet brakes	air		wet		air		wet	
47	Engine manufacturer/type	Cummins QSB6.7		Cummins QSB6.7		Cummins QSB6.7		Cummins QSB6.7	
48	Engine output, in accordance with ISO 14396	155 (116)		155 (116)		155 (116)		155 (116)	
49	Engine torque	440/1500 (597/1500)		440/1500 (597/1500)		440/1500 (597/1500)		440/1500 (597/1500)	
50	Governed speed	2300		2300		2300		2300	
51	Number of cylinders/displacement	6/409 (6/6700)		6/409 (6/6700)		6/409 (6/6700)		6/409 (6/6700)	
52	Transmission	3-speed autoshift				3-speed autoshift			
53	Working pressure for attachments	2800 (193)		2801 (193)		2800 (193)		2801 (193)	
54	Oil flow for attachments	26.4 (100)		26.4 (100)		26.4 (100)		26.4 (100)	

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# H300HD<sub>2</sub> - H330HD<sub>2</sub> SPECIFICATIONS

GENERAL	HYSTER		HYSTER	
	H300HD <sub>2</sub>		H330HD <sub>2</sub>	
1	Manufacturer		HYSTER	
2	Model designation		H300HD <sub>2</sub>	
3	Power: battery, diesel, LPG, electric mains		Diesel	
4	Transmission		SOH TE-10	ZF WG161
5	Brake		Air / Drum	Wet Disc
6	Operation: manual, pedestrian, stand, sit, seat		Seat	
7	Load capacity	lbs (kg)	30000 (13000)	
8	Load center	in (mm)	24 (600)	
9	Unladen weight including front end	lbs (kg)	39825 (18061)	
10	Axle loading with load, front/rear	lbs (kg)	63352 (28731)   5138 (2330)	66646 (30225)   5660 (2567)
11	Axle loading without load, front/rear	lbs (kg)	21988 (9972)   17836 (8089)	22101 (10023)   19336 (8769)
12	Tires		Pneumatic	Pneumatic
13	Tire size, front		12.00-20 16PR	12.00-20 16PR
14	Tire size, rear		12.00-20 16PR	12.00-20 16PR
15	Number of wheels, front/rear (X = driven)		4X / 2	4X / 2
16	Tread width, front	in (mm)	89.6 (2276)	89.6 (2276)
17	Tread width, rear	in (mm)	78.7 (2000)	78.7 (2000)
18	Mast tilt, a = forward / b = back	degrees	15/12	15/12
19	Height of mast, lowered	in (mm)	176.0 (4466)	176.0 (4466)
20	Lift height	in (mm)	212.0 (5400)	212.0 (5400)
21	Height of mast, extended; without LBE	in (mm)	281.0 (7120)	281.0 (7120)
22	Overhead guard height (including wiper)	in (mm)	119.8 (3043)	120.6 (3064)
23	Length to face of forks w/std. carriage	in (mm)	197.0 (5004)	197.0 (5004)
24	Load distance	in (mm)	33.9 (862)	
25	Wheelbase	in (mm)	129.9 (3300)	
26	Overall width - dry brake axle/wet brake axle*	in (mm)	102.64 (2607)	102.64 (2607)
27	Fork dimensions	in (mm)	3.5/8/60 (90/200/1525)	3.5/8/60 (90/200/1525)
28	Fork carriage type	in (mm)	3.35 (85) pin type	3.35 (85) pin type
29	Fork carriage width (without load backrest)	in (mm)	98.4 (2500)	98.4 (2500)
30	Out to out dimension, fork positioner*	in (mm)	20.5 - 93.7 (520-2380)	20.5 - 93.7 (520-2380)
31	Sideshift from center of truck*	in (mm)	5.9 (150)	5.9 (150)
32	Ground clearance under mast, with load	in (mm)	6.2 (157)	7.0 (178)
33	Ground clearance, center of wheelbase	in (mm)	12.8 (325)	13.6 (346)
34	Aisle width with pallets 1000 x 1200 wide	in (mm)	257.7 (6546)	257.7 (6546)
35	Outer turning radius	in (mm)	180.5 (4584)	180.5 (4584)
	Inner turning radius	in (mm)	18.1 (459)	18.0 (458)
36	Transmission manufacturer/type		SOH TE-10	ZF WG161
37	Travel speed with load	mph (kph)	15.2 (24.5)	14.5 (23.4)
	Travel speed without load	mph (kph)	17.2 (27.6)	17.4 (28.0)
38	Lifting speed loaded (Std. Performance)	fpm (m/sec)	55.1 (.28)	55.1 (.28)
	Lifting speed unloaded (Std. Performance)	fpm (m/sec)	84.0 (.42)	84.0 (.42)
39	Lowering speed loaded (Std. Performance)	fpm (m/sec)	94.5 (.48)	94.5 (.48)
	Lowering speed unloaded (Std. Performance)	fpm (m/sec)	87.0 (.44)	87.0 (.44)
40	Lifting speed loaded (High Performance)*	fpm (m/sec)	N/A	N/A
	Lifting speed unloaded (High Performance)*	fpm (m/sec)	N/A	N/A
41	Lowering speed loaded (High Performance)*	fpm (m/sec)	N/A	N/A
	Lowering speed unloaded (High Performance)*	fpm (m/sec)	N/A	N/A
42	Tilt speed	deg/sec	3.9	3.9
43	Drawbar pull with load (at 1 mph/1.6km/h)	lbs (kg)	215429 (97700)	233951 (106100)
	Drawbar pull without load (at 1 mph/1.6km/h)	lbs (kg)	113337 (51400)	113337 (51400)
44	Maximum drawbar pull with load	lbs (kg)	261513 (118600)	287312 (130300)
	Maximum drawbar pull without load	lbs (kg)	113337 (51400)	113337 (51400)
45	Gradeability with load (at 1 mph/1.6km/h)	%	36	38
	Gradeability without load (at 1 mph/1.6km/h)	%	33	33
	Gradeability with load	%	45	46
	Gradeability without load	%	33	33
46	Service brake air brakes / wet brakes		air	wet
47	Engine manufacturer/type		Cummins QSB6.7	Cummins QSB6.7
48	Engine output, in accordance with ISO 14396	hp (kW)	155 (116)	155 (116)
49	Engine torque	lb-ft/rpm (Nm/rpm)	440/1500 (597/1500)	440/1500 (597/1500)
50	Governed speed	rpm	2300	2300
51	Number of cylinders/displacement	in <sup>3</sup> (cm <sup>3</sup> )	6/409 (6/6700)	6/409 (6/6700)
52	Transmission		3-speed autoshift	3-speed autoshift
53	Working pressure for attachments	psi (bar)	2800 (193)	2800 (193)
54	Oil flow for attachments	gpm (l/min)	26.4 (100)	26.4 (100)

**CERTIFICATION:** These Hyster® lift trucks meet design specifications of Part II ANSI B56.1-1969, as required by OSHA Section 1910.178(a)(2) and also comply with Part III ANSI B56.1-revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under Standard Equipment on this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

# H360HD<sub>2</sub> SPECIFICATIONS

<b>GENERAL</b>	1	Manufacturer	HYSTER			
	2	Model designation	H360HD <sub>2</sub>			
	3	Power: battery, diesel, LPG, electric mains	Diesel			
	4	Transmission	SOH TE-10		ZF WG161	
	5	Brake	Air / Drum		Wet Disc	
	6	Operation: manual, pedestrian, stand, sit, seat	Seat			
<b>WT.</b>	7	Load capacity	lbs (kg) 36000 (16000)			
	8	Load center	in (mm) 24 (600)			
	9	Unladen weight including front end	lbs (kg) 43763 (19847)			
	10	Axle loading with load, front/rear	72966 (33091)   6077 (2756)		72966 (33091)   6077 (2756)	
<b>WHEELS</b>	11	Axle loading without load, front/rear	22054 (10002)   21708 (9845)		22054 (10002)   21708 (9845)	
	12	Tires	Pneumatic		Pneumatic	
	13	Tire size, front	12.00-20 16PR		12.00-20 16PR	
	14	Tire size, rear	12.00-20 16PR		12.00-20 16PR	
	15	Number of wheels, front/rear (X = driven)	4X / 2		4X / 2	
	16	Tread width, front	in (mm) 89.6 (2276)		89.6 (2276)	
	17	Tread width, rear	in (mm) 78.7 (2000)		78.7 (2000)	
	18	Mast tilt, a = forward / b = back	degrees 15/12		15/12	
	19	Height of mast, lowered	in (mm) 176.0 (4466)		176.0 (4466)	
	20	Lift height	in (mm) 212.0 (5400)		212.0 (5400)	
	21	Height of mast, extended; without LBE	in (mm) 281.0 (7120)		281.0 (7120)	
<b>DIMENSIONS</b>	22	Overhead guard height (including wiper)	in (mm) 120.6 (3064)		120.6 (3064)	
	23	Length to face of forks w/std. carriage	in (mm) 197.0 (5004)		197.0 (5004)	
	24	Load distance	in (mm) 33.9 (862)			
	25	Wheelbase	in (mm) 129.9 (3300)			
	26	Overall width - dry brake axle/wet brake axle*	in (mm) 102.64 (2607)		102.64 (2607)	
	27	Fork dimensions	in (mm) 3.5/8/60 (90/200/1525)		3.5/8/60 (90/200/1525)	
	28	Fork carriage type	in (mm) 3.35 (85) pin type		3.35 (85) pin type	
	29	Fork carriage width (without load backrest)	in (mm) 98.4 (2500)			
	30	Out to out dimension, fork positioner*	in (mm) 20.5 - 93.7 (520-2380)		20.5 - 93.7 (520-2380)	
	31	Sideshift from center of truck*	in (mm) 5.9 (150)			
	32	Ground clearance under mast, with load	in (mm) 7.0 (178)			
	33	Ground clearance, center of wheelbase	in (mm) 13.6 (346)			
	34	Aisle width with pallets 1000 x 1200 wide	in (mm) 257.7 (6546)			
	<b>PERFORMANCE</b>	35	Outer turning radius	in (mm) 180.5 (4584)		
		Inner turning radius	in (mm) 18.0 (458)			
36		Transmission manufacturer/type	SOH TE-10		ZF WG161	
37		Travel speed with load	mph (kph) 14.5 (23.4)		16.3 (26.3)	
		Travel speed without load	mph (kph) 17.0 (27.3)		17.3 (27.9)	
38		Lifting speed loaded (Std. Performance)	fpm (m/sec) 55.1 (.28)			
		Lifting speed unloaded (Std. Performance)	fpm (m/sec) 84.0 (.42)			
39		Lowering speed loaded (Std. Performance)	fpm (m/sec) 94.5 (.48)			
		Lowering speed unloaded (Std. Performance)	fpm (m/sec) 87.0 (.44)			
40		Lifting speed loaded (High Performance)*	fpm (m/sec) 66.9 (.34)			
		Lifting speed unloaded (High Performance)*	fpm (m/sec) 98.4 (.50)			
41		Lowering speed loaded (High Performance)*	fpm (m/sec) 98.4 (.50)			
		Lowering speed unloaded (High Performance)*	fpm (m/sec) 90.6 (.46)			
42		Tilt speed	deg/sec 3.9			
43	Drawbar pull with load (at 1 mph/1.6km/h)	lbs (kg) 207050 (93900)		224028 (101600)		
	Drawbar pull without load (at 1 mph/1.6km/h)	lbs (kg) 118629 (53800)		118629 (53800)		
44	Maximum drawbar pull with load	lbs (kg) 249165 (113000)		275405 (124900)		
	Maximum drawbar pull without load	lbs (kg) 118629 (53800)				
45	Gradeability with load (at 1 mph/1.6km/h)	% 28				
	Gradeability without load (at 1 mph/1.6km/h)	% 31				
	Gradeability with load	% 35				
	Gradeability without load	% 31				
46	Service brake air brakes / wet brakes	air		wet		
<b>ENGINE</b>	47	Engine manufacturer/type	Cummins QSB6.7		Cummins QSB6.7	
	48	Engine output, in accordance with ISO 14396	hp (kW) 155 (116)			
	49	Engine torque	lb-ft/rpm (Nm/rpm) 440/1500 (597/1500)		440/1500 (597/1500)	
	50	Governed speed	rpm 2300			
	51	Number of cylinders/displacement	in <sup>3</sup> (cm <sup>3</sup> ) 6/409 (6/6700)			
<b>OTHER</b>	52	Transmission	3-speed autoshift			
	53	Working pressure for attachments	psi (bar) 2800 (193)			
	54	Oil flow for attachments	gpm (l/min) 26.4 (100)			

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# H190HD<sub>2</sub> - H360HD<sub>2</sub> MAST DIMENSIONS

## H190-210HD<sub>2</sub> MAST DIMENSIONS in. (mm)

Maximum Fork Height (Top of Forks)	Overall Lowered Height	Overall Extended Height without Load Backrest Ext.	Full Free-Lift	Approx. Total Wgt. of Standard Equipped Truck w/o Load	
				H190HD <sub>2</sub> lb. (kg)	H210HD <sub>2</sub> lb. (kg)
<b>2-STAGE NO FREE-LIFT (NO FL) VISTA®</b>					
147 (3751)	133 (3353)	205 (5196)	N/A	26764 (12140)	27459 (12455)
183 (4651)	150 (3803)	240 (6096)	N/A	27267 (12368)	27961 (12683)
212 (5401)	165 (4178)	270 (6846)	N/A	27500 (12474)	28915 (12879)
<b>3-STAGE VISTA®</b>					
220 (5600)	120 (3045)	277 (7073)	56 (1435)	36367 (16496)	37062 (16811)
236 (6000)	126 (3178)	293 (7430)	61 (1568)	37249 (16896)	37944 (17211)
255 (6500)	132 (3345)	313 (7930)	68 (1735)	38352 (17396)	39046 (17711)
275 (7000)	139 (3511)	332 (8430)	74 (1901)	39454 (17896)	40148 (18211)

## H230-280HD<sub>2</sub> MAST DIMENSIONS in. (mm)

Maximum Fork Height (Top of Forks)	Overall Lowered Height	Overall Extended Height without Load Backrest Ext.	Full Free-Lift	Approx. Total Wgt. of Standard Equipped Truck w/o Load			
				H230HD <sub>2</sub> S lb. (kg)	H230HD <sub>2</sub> lb. (kg)	H250HD <sub>2</sub> lb. (kg)	H280HD <sub>2</sub> lb. (kg)
<b>2-STAGE NO FREE-LIFT (NO FL) VISTA®</b>							
148 (3761)	143 (3628)	216 (5468)	N/A	31425 (14254)	31189 (14147)	31575 (14322)	33074 (15002)
183 (4661)	161 (4078)	251 (6368)	N/A	31901 (14470)	31665 (14363)	32051 (14538)	33550 (15218)
213 (5411)	176 (4453)	281 (7118)	N/A	32377 (14686)	32141 (14579)	32527 (14754)	34026 (15434)
244 (6205)	192 (4853)	312 (7918)	N/A	32774 (14866)	32538 (14759)	32924 (14934)	34423 (15614)
<b>3-STAGE VISTA®</b>							
220 (5600)	120 (3045)	277 (7073)	56 (1435)	39494 (17914)	39258 (17807)	39644 (17982)	41143 (18662)
236 (6000)	126 (3178)	293 (7430)	61 (1568)	40375 (18314)	40140 (18207)	40525 (18382)	42025 (19062)
255 (6500)	132 (3345)	313 (7930)	68 (1735)	41478 (18814)	41242 (18707)	41628 (18882)	43127 (19562)
275 (7000)	139 (3511)	332 (8430)	74 (1901)	42580 (19314)	42344 (19207)	42730 (19382)	44229 (20062)

## H300-360HD<sub>2</sub> MAST DIMENSIONS in. (mm)

Maximum Fork Height (Top of Forks)	Overall Lowered Height	Overall Extended Height without Load Backrest Ext.	Full Free-Lift	Approx. Total Wgt. of Standard Equipped Truck w/o Load		
				H300HD <sub>2</sub> lb. (kg)	H330HD <sub>2</sub> lb. (kg)	H360HD <sub>2</sub> lb. (kg)
<b>2-STAGE NO FREE-LIFT (NO FL) VISTA®</b>						
147 (3750)	144 (3641)	216 (5470)	N/A	37749 (17123)	39361 (17854)	41687 (18609)
183 (4650)	162 (4091)	251 (6370)	N/A	38382 (17410)	39994 (18141)	42320 (19196)
212 (5400)	176 (4466)	281 (7120)	N/A	39026 (17702)	40368 (18433)	42963 (19488)
244 (6200)	192 (4866)	312 (7920)	N/A	39509 (17921)	41120 (18652)	43446 (19707)
<b>3-STAGE VISTA®</b>						
173 (4400)	121 (3070)	240 (6080)	54 (1390)	39476 (17906)	41087 (18637)	43413 (19692)
196 (5000)	129 (3270)	263 (6680)	62 (1590)	39747 (18029)	41358 (18760)	43684 (19815)
236 (6000)	142 (3600)	303 (7680)	75 (1920)	40201 (18235)	41813 (18966)	44138 (20021)
275 (7000)	156 (3940)	342 (8680)	88 (2250)	41096 (18641)	42708 (19372)	45034 (20427)

# H190HD<sub>2</sub> - H360HD<sub>2</sub> SPECIFICATIONS

MODEL	A	B	C	D	E	F	G
	in. (mm)	in. (mm)	in. (mm)	percent	in. (mm)	in. (mm)	in. (mm)
H190HD <sub>2</sub>	116.8 (2967)	119.4 (3033)	72.3 (1837)	70.0%	25.7 (653)	31.8 (809)	46.5 (1181)
H210HD <sub>2</sub>	116.8 (2967)	119.4 (3033)	72.3 (1837)	70.0%	25.7 (653)	31.8 (809)	46.5 (1181)
H230HD <sub>2</sub>	116.8 (2967)	119.4 (3033)	72.3 (1837)	75.0%	25.7 (653)	31.8 (809)	46.5 (1181)
H250HD <sub>2</sub>	116.8 (2967)	119.4 (3033)	72.3 (1837)	75.0%	25.7 (653)	31.8 (809)	46.5 (1181)
H280HD <sub>2</sub>	116.8 (2967)	119.4 (3033)	72.3 (1837)	75.0%	25.7 (653)	31.8 (809)	46.5 (1181)
H300HD <sub>2</sub>	118.0 (2990)	120.6 (3064)	74.7 (1899)	86.9%	26.9 (684)	31.8 (809)	46.5 (1181)
H330HD <sub>2</sub>	118.0 (2990)	120.6 (3064)	74.7 (1899)	86.9%	26.9 (684)	31.8 (809)	46.5 (1181)
H360HD <sub>2</sub>	118.0 (2990)	120.6 (3064)	74.7 (1899)	86.9%	26.9 (684)	31.8 (809)	46.5 (1181)

MODEL	STEP HEIGHT				
	in. (mm)	S1	S2	S3	S4
H190HD <sub>2</sub>		15.51 (394)	27.87 (708)	40.24 (1022)	52.60 (1336)
H210HD <sub>2</sub>		15.51 (394)	27.87 (708)	40.24 (1022)	52.60 (1336)
H230HD <sub>2</sub>		15.51 (394)	27.87 (708)	40.24 (1022)	52.60 (1336)
H250HD <sub>2</sub>		15.51 (394)	27.87 (708)	40.24 (1022)	52.60 (1336)
H280HD <sub>2</sub>		15.51 (394)	27.87 (708)	40.24 (1022)	52.60 (1336)
H300HD <sub>2</sub>		18.07 (420)	30.09 (764)	42.11 (1070)	54.13 (1375)
H330HD <sub>2</sub>		18.07 (420)	30.09 (764)	42.11 (1070)	54.13 (1375)
H360HD <sub>2</sub>		18.07 (420)	30.09 (764)	42.11 (1070)	54.13 (1375)

MODEL	CARRIAGE in. (mm)				
	Standard	FP*	Sideshift	SSFP**	DFSSFP***
H190-210HD <sub>2</sub> (2-Stage)	28.5 (725)	30.5 (775)	30.9 (785)	30.9 (785)	32.9 (836)
H190-210HD <sub>2</sub> (3-Stage)	34.8 (885)	34.8 (885)	35.9 (911)	35.9 (911)	N/A
H230-280HD <sub>2</sub> (2-Stage)	29.9 (760)	31.9 (810)	32.2 (819)	32.2 (819)	33.9 (861)
H230-280HD <sub>2</sub> (3-Stage)	34.8 (885)	34.8 (885)	35.9 (911)	35.9 (911)	N/A
H300-360HD <sub>2</sub> (2-Stage)	33.9 (862)	33.9 (862)	35.3 (896)	35.3 (896)	37.4 (949)
H300-360HD <sub>2</sub> (3-Stage)	36.9 (937)	36.9 (937)	39.8 (1012)	39.8 (1012)	N/A

\*FP - Fork Positioner

\*\*SSFP - Sideshift Fork Positioner

\*\*\*DFSSFP - Dual Function Sideshift Fork Positioner