



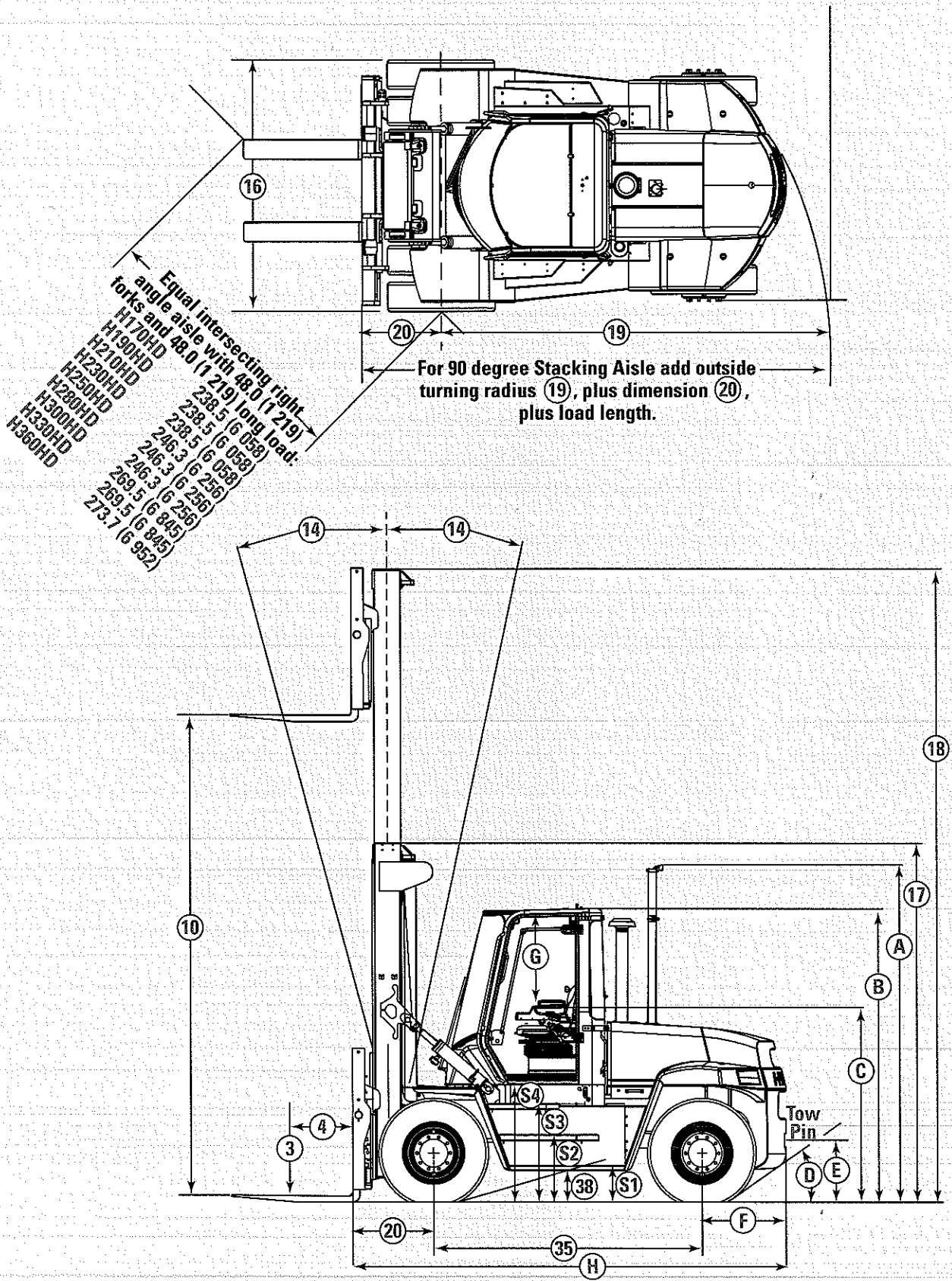
# H1770-360HD

*Technical Guide*





# H170-360HD LIFT TRUCK SPECIFICATIONS



Circled dimensions correspond to the line numbers on the tabulated chart inside the Technical Guide.  
 Dimensions are in inches (millimeters).



# H170-190HD LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer		Hyster Company	Hyster Company	Hyster Company	Hyster Company
	2	Model		H170HD (Perkins)	H170HD (Cummins)	H190HD (Perkins)	H190HD (Cummins)
	3	Capacity, rated	lb. (kg)	17,000 (7 711)	17,000 (7 711)	19,000 (8 618)	19,000 (8 618)
	4	Load Center	in. (mm)	24.0 (600)	24.0 (600)	24.0 (600)	24.0 (600)
	5	Power type		diesel	diesel	diesel	diesel
	6	Operator type		sit	sit	sit	sit
	7	Tire type, front / rear		pneumatic	pneumatic	pneumatic	pneumatic
	8	Wheels, front / rear	(X=drive)	4X / 2	4X / 2	4X / 2	4X / 2
DIMENSIONS	10	2-Stg.VISTA mast (Top of Forks)	in. (mm)	208.9 (5 306)	208.9 (5 306)	208.9 (5 306)	208.9 (5 306)
	13	Forks, width / thickness	in. (mm)	8 (203) / 2.5 (64)	8 (203) / 2.5 (64)	8 (203) / 2.5 (64)	8 (203) / 2.5 (64)
	14	Tilt angle, standard mast, forward / rearward	° deg	15 / 12	15 / 12	15 / 12	15 / 12
	15	Length to face of forks	in. (mm)	168.3 (4 275)	168.3 (4 275)	168.3 (4 275)	168.3 (4 275)
	16	Width, standard tires	in. (mm)	98.03 (2 490)	98.03 (2 490)	98.03 (2 490)	98.03 (2 490)
	17	Height, standard mast lowered	in. (mm)	163.4 (4 150)	163.4 (4 150)	163.4 (4 150)	163.4 (4 150)
	18	Height, standard mast extended, w/o LBE	in. (mm)	271.3 (6 891)	271.3 (6 891)	271.3 (6 891)	271.3 (6 891)
	19	Turning radius, minimum outside / inside	in. (mm)	154.0 (3 912) / 6.0 (152)	154.0 (3 912) / 6.0 (152)	154.0 (3 912) / 6.0 (152)	154.0 (3 912) / 6.0 (152)
	20	Length, center drive axle to face of forks	in. (mm)	28.5 (724)	28.5 (724)	28.5 (724)	28.5 (724)
	22	Aisle width, w/ 48"x48" load	in. (mm)	238.5 (6 058)	238.5 (6 058)	238.5 (6 058)	238.5 (6 058)
PERFORMANCE †	23	Stability, (comply with ANSI)*		YES	YES	YES	YES
	24	Travel speed, maximum forward (powershift), NL / RL	mph (km/hr)	20.4 (32.8) / 18.9 (30.4)	22.2 (35.7) / 20.5 (33.0)	20.4 (32.8) / 18.6 (29.9)	22.2 (35.7) / 20.5 (33.0)
	25	Lift speed, standard mast, NL / RL	ft/min. (m/s)	143.0(0.73) / 96.0 (0.49)	155.0 (0.79) / 104.0 (0.53)	143.0 (0.73) / 96.0 (0.49)	155.0 (0.79) / 104.0 (0.53)
	26	Lowering, standard mast, NL / RL	ft/min. (m/s)	98.0(0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)
	27	Drawbar pull, powershift xsmn, 1 mph, NL / RL	lb <sub>f</sub> . (kN)	9,252 (41.2) / 19,400 (86.3)	9,252 (41.2) / 21,421 (95.3)	9,261 (41.2) / 19,300 (85.9)	9,261 (41.2) / 21,379 (95.1)
	28	Gradeability, powershift xsmn, 1 mph NL / RL	Percent	38 / 50	38 / 58	38 / 47	38 / 60
WT.	30	Total approximate weight, standard equipped truck	lb. (kg)	25,872 (11 735)	25,872 (11 735)	26,293 (11 926)	26,293 (11 926)
	31	Axle loading, static-RL front / rear	lb. (kg)	38,620 (17 518) / 4,252 (1 929)	38,620 (17 518) / 4,252 (1 929)	41,619 (18 878) / 3,675 (1 667)	41,619 (18 878) / 3,675 (1 667)
WHEELS & TIRES	32	Number of tires, front / rear		4 / 2	4 / 2	4 / 2	4 / 2
	33	Tire size, drive tires (front)		10.00-20 14PR	10.00-20 14PR	10.00-20 14PR	10.00-20 14PR
	34	Tire size, steer tires (rear)		10.00-20 14PR	10.00-20 14PR	10.00-20 14PR	10.00-20 14PR
	35	Wheelbase, center of steer to center of drive tire	in. (mm)	106.3 (2 700)	106.3 (2 700)	106.3 (2 700)	106.3 (2 700)
	36	Tread, center to center of tires, steer / drive	in. (mm)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)
	37	Ground clearance, lowest point - NL	in. (mm)	10.24 (260)	10.24 (260)	10.24 (260)	10.24 (260)
38	Ground clearance, center of wheelbase - NL	in. (mm)	11.61 (295)	11.61 (295)	11.61 (295)	11.61 (295)	
DRIVETRAIN	39	Brakes, method of control, service / parking		air / spring	air / spring	air / spring	air / spring
	40	Brakes, method of operation, service / parking		foot / pull button	foot / pull button	foot / pull button	foot / pull button
	42	Battery, volts / cold cranking amps	V / amps	24 / 227	24 / 227	24 / 227	24 / 227
	46	Engine, make-model		Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152	Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152
	47	Output per SAE standards	hp (kW)	145 (108)	152 (113)	145 (108)	152 (113)
	48	Governed speed, NL	RPM	2300	2500	2300	2500
	49	Cycle / number of cylinders / displacement	cu.in. (cm <sup>3</sup> )	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)
	51	Clutch type, powershift		Torque Converter	Torque Converter	Torque Converter	Torque Converter
	52	Gear change type, powershift		MONOTROL	MONOTROL	MONOTROL	MONOTROL
	53	Number of speeds, forward / reverse		3 / 3	3 / 3	3 / 3	3 / 3
54	Transmission type		Powershift	Powershift	Powershift	Powershift	
55	Relief pressure for attachments	psi (kPa)	2,400 (16 547)	2,400 (16 547)	2,400 (16 547)	2,400 (16 547)	

\* **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's nameplate which is affixed to truck when shipped complete from the factory.



# H210-230HD LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company	Hyster Company	
	2	Model	H210HD (Perkins)	H210HD (Cummins)	H230HD (Perkins)	H230HD (Cummins)	
	3	Capacity, rated	lb. (kg)	21,000 (9 525)	21,000 (9 525)	23,000 (10 433)	23,000 (10 433)
	4	Load Center	in. (mm)	24.0 (600)	24.0 (600)	24.0 (600)	24.0 (600)
	5	Power type		diesel	diesel	diesel	diesel
	6	Operator type		sit	sit	sit	sit
	7	Tire type, front / rear		pneumatic	pneumatic	pneumatic	pneumatic
	8	Wheels, front / rear	(X=drive)	4X / 2	4X / 2	4X / 2	4X / 2
DIMENSIONS	10	2-Stg.VISTA mast (Top of Forks)	in. (mm)	208.9 (5 306)	208.9 (5 306)	209.8 (5 329)	209.8 (5 329)
	13	Forks, width / thickness	in. (mm)	8 (203) / 2.5 (64)	8 (203) / 2.5 (64)	8 (203) / 3.0 (76)	8 (203) / 3.0 (76)
	14	Tilt angle, standard mast, forward / rearward	° deg	15 / 12	15 / 12	15 / 12	15 / 12
	15	Length to face of forks	in. (mm)	168.3 (4 275)	168.3 (4 275)	177.4 (4 506)	177.4 (4 506)
	16	Width, standard tires	in. (mm)	98.03 (2 490)	98.03 (2 490)	98.03 (2 490)	98.03 (2 490)
	17	Height, standard mast lowered	in. (mm)	163.4 (4 150)	163.4 (4 150)	175.2 (4 450)	175.2 (4 450)
	18	Height, standard mast extended, w/o LBE	in. (mm)	271.3 (6 891)	271.3 (6 891)	280.3 (7 120)	280.3 (7 120)
	19	Turning radius, minimum outside / inside	in. (mm)	154.0 (3 912) / 6.0 (152)	154.0 (3 912) / 6.0 (152)	160.6 (4 079) / 10.0 (254)	160.6 (4 079) / 10.0 (254)
	20	Length, center drive axle to face of forks	in. (mm)	28.5 (724)	28.5 (724)	29.7 (754)	29.7 (754)
	22	Aisle width, w/ 48" x 48" load	in. (mm)	238.5 (6 058)	238.5 (6 058)	246.3 (6 256)	246.3 (6 256)
PERFORMANCE †	23	Stability, (comply with ANSI)*		YES	YES	YES	YES
	24	Travel speed, maximum forward (powershift), NL / RL	mph (km/hr)	20.4 (32.8) / 18.6 (29.9)	22.2 (35.7) / 20.5 (33.0)	19.9 (32.0) / 18.3 (29.5)	21.6 (34.8) / 19.9 (32.0)
	25	Lift speed, standard mast, NL / RL	ft/min. (m/s)	143.0(0.73) / 96.0 (0.49)	155.0 (0.79) / 104.0 (0.53)	110.0 (0.56) / 74.0 (0.38)	120.0 (0.61) / 80.0 (0.41)
	26	Lowering, standard mast, NL / RL	ft/min. (m/s)	98.0(0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)
	27	Drawbar pull, powershift xsmn, 1 mph, NL / RL	lb <sub>f</sub> (kN)	9,214 (41.0) / 19,400 (86.3)	9,214 (41.0) / 19,400 (86.3)	10,609 (47.2) / 19,300 (85.9)	10,609 (47.2) / 21,226 (94.4)
	28	Gradeability, powershift xsmn, 1 mph NL / RL	Percent	35 / 44	35 / 50	36 / 38	36 / 43
WT.	30	Total approximate weight, standard equipped truck	lb. (kg)	27,572 (12 506)	27,572 (12 506)	31,178 (14 142)	31,178 (14 142)
	31	Axle loading, static-RL front / rear	lb. (kg)	38,620 (17 518) / 4,252 (1 929)	38,620 (17 518) / 4,252 (1 929)	41,619 (18 878) / 3,675 (1 667)	41,619 (18 878) / 3,675 (1 667)
WHEELS & TIRES	32	Number of tires, front / rear		4 / 2	4 / 2	4 / 2	4 / 2
	33	Tire size, drive tires (front)		10.00-20 14PR	10.00-20 14PR	10.00-20 14PR	10.00-20 14PR
	34	Tire size, steer tires (rear)		10.00-20 14PR	10.00-20 14PR	10.00-20 14PR	10.00-20 14PR
	35	Wheelbase, center of steer to center of drive tire	in. (mm)	106.3 (2 700)	106.3 (2 700)	114.2 (2 901)	114.2 (2 901)
	36	Tread, center to center of tires, steer / drive	in. (mm)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)
	37	Ground clearance, lowest point - NL	in. (mm)	10.24 (260)	10.24 (260)	10.24 (260)	10.24 (260)
38	Ground clearance, center of wheelbase - NL	in. (mm)	11.61 (295)	11.61 (295)	12.40 (315)	12.40 (315)	
DRIVETRAIN	39	Brakes, method of control, service / parking		air / spring	air / spring	air / spring	air / spring
	40	Brakes, method of operation, service / parking		foot / pull button	foot / pull button	foot / pull button	foot / pull button
	42	Battery, volts / cold cranking amps	V / amps	24 / 227	24 / 227	24 / 227	24 / 227
	46	Engine, make-model		Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152	Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152
	47	Output per SAE standards	hp (kW)	145 (108)	152 (113)	145 (108)	152 (113)
	48	Governed speed, NL	RPM	2300	2500	2300	2500
	49	Cycle / number of cylinders / displacement	cu.in. (cm <sup>3</sup> )	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)
	51	Clutch type, powershift		Torque Converter	Torque Converter	Torque Converter	Torque Converter
	52	Gear change type, powershift		MONOTROL	MONOTROL	MONOTROL	MONOTROL
	53	Number of speeds, forward / reverse		3 / 3	3 / 3	3 / 3	3 / 3
54	Transmission type		Powershift	Powershift	Powershift	Powershift	
55	Relief pressure for attachments	psi (kPa)	2,400 (16 547)	2,400 (16 547)	2,400 (16 547)	2,400 (16 547)	

\* **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's nameplate which is affixed to truck when shipped complete from the factory.



# H250-280HD LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company	Hyster Company	
	2	Model	H250HD (Perkins)	H250HD (Cummins)	H280HD (Perkins)	H280HD (Cummins)	
	3	Capacity, rated	lb. (kg)	25,000 (11 340)	25,000 (11 340)	28,000 (12 701)	28,000 (12 701)
	4	Load Center	in. (mm)	24.0 (600)	24.0 (600)	24.0 (600)	24.0 (600)
	5	Power type		diesel	diesel	diesel	diesel
	6	Operator type		sit	sit	sit	sit
	7	Tire type, front / rear		pneumatic	pneumatic	pneumatic	pneumatic
	8	Wheels, front / rear	(X=drive)	4X / 2	4X / 2	4X / 2	4X / 2
DIMENSIONS	10	2-Stg.VISTA mast (Top of Forks)	in. (mm)	209.8 (5 329)	209.8 (5 329)	209.8 (5 329)	209.8 (5 329)
	13	Forks, width / thickness	in. (mm)	8 (203) / 3.0 (76)	8 (203) / 3.0 (76)	8 (203) / 3.0 (76)	8 (203) / 3.0 (76)
	14	Tilt angle, standard mast, forward / rearward	° deg	15 / 12	15 / 12	15 / 12	15 / 12
	15	Length to face of forks	in. (mm)	177.4 (4 506)	177.4 (4 506)	177.4 (4 506)	177.4 (4 506)
	16	Width, standard tires	in. (mm)	98.03 (2 490)	98.03 (2 490)	98.03 (2 490)	98.03 (2 490)
	17	Height, standard mast lowered	in. (mm)	175.2 (4 450)	175.2 (4 450)	175.2 (4 450)	175.2 (4 450)
	18	Height, standard mast extended, w/o LBE	in. (mm)	280.3 (7 120)	280.3 (7 120)	280.3 (7 120)	280.3 (7 120)
	19	Turning radius, minimum outside / inside	in. (mm)	160.6 (4 079) / 10.0 (254)	160.6 (4 079) / 10.0 (254)	160.6 (4 079) / 10.0 (254)	160.6 (4 079) / 10.0 (254)
	20	Length, center drive axle to face of forks	in. (mm)	29.7 (754)	29.7 (754)	29.7 (754)	29.7 (754)
	22	Aisle width, w/ 48" x 48" load	in. (mm)	246.3 (6 256)	246.3 (6 256)	246.3 (6 256)	246.3 (6 256)
PERFORMANCE †	23	Stability, (comply with ANSI)*		YES	YES	YES	YES
	24	Travel speed, maximum forward (powershift), NL / RL	mph (km/hr)	19.9 (32.0) / 18.3 (29.5)	21.6 (34.8) / 19.9 (32.0)	19.9 (32.0) / 18.3 (29.5)	21.6 (34.8) / 19.9 (32.0)
	25	Lift speed, standard mast, NL / RL	ft/min. (m/s)	110.0(0.563) / 74.0 (0.38)	120.0 (0.61) / 80.0 (0.41)	110.0 (0.56) / 74.0 (0.38)	120.0 (0.61) / 80.0 (0.41)
	26	Lowering, standard mast, NL / RL	ft/min. (m/s)	98.0(0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)
	27	Drawbar pull, powershift xsmn, 1 mph, NL / RL	lb <sub>f</sub> . (kN)	10,601 (47.2) / 19,200 (85.4)	10,601 (47.2) / 21,183 (94.2)	11,501 (51.2) / 18,960 (84.3)	11,501 (51.2) / 21,076 (93.8)
	28	Gradeability, powershift xsmn, 1 mph NL / RL	Percent	36 / 39	36 / 52	35 / 32	35 / 36
WT.	30	Total approximate weight, standard equipped truck	lb. (kg)	31,621 (14 343)	31,621 (14 343)	34,800 (15 785)	34,800 (15 785)
	31	Axle loading, static-RL front / rear	lb. (kg)	51,911 (23 546) / 4,711 (2 137)	51,911 (23 546) / 4,711 (2 137)	57,602 (26 128) / 5,199 (2 358)	57,602 (26 128) / 5,199 (2 358)
WHEELS & TIRES	32	Number of tires, front / rear		4 / 2	4 / 2	4 / 2	4 / 2
	33	Tire size, drive tires (front)		10.00-20 14PR	10.00-20 14PR	10.00-20 14PR	10.00-20 14PR
	34	Tire size, steer tires (rear)		10.00-20 14PR	10.00-20 14PR	10.00-20 14PR	10.00-20 14PR
	35	Wheelbase, center of steer to center of drive tire	in. (mm)	114.2 (2 901)	114.2 (2 901)	114.2 (2 901)	114.2 (2 901)
	36	Tread, center to center of tires, steer / drive	in. (mm)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)
	37	Ground clearance, lowest point - NL	in. (mm)	10.24 (260)	10.24 (260)	10.24 (260)	10.24 (260)
38	Ground clearance, center of wheelbase - NL	in. (mm)	12.40 (315)	12.40 (315)	12.40 (315)	12.40 (315)	
DRIVETRAIN	39	Brakes, method of control, service / parking		air / spring	air / spring	air / spring	air / spring
	40	Brakes, method of operation, service / parking		foot / pull button	foot / pull button	foot / pull button	foot / pull button
	42	Battery, volts / cold cranking amps	V / amps	24 / 227	24 / 227	24 / 227	24 / 227
	46	Engine, make-model		Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152	Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152
	47	Output per SAE standards	hp (kW)	145 (108)	152 (113)	145 (108)	152 (113)
	48	Governed speed, NL	RPM	2300	2500	2300	2500
	49	Cycle / number of cylinders / displacement	cu.in. (cm <sup>3</sup> )	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)
	51	Clutch type, powershift		Torque Converter	Torque Converter	Torque Converter	Torque Converter
	52	Gear change type, powershift		MONOTROL	MONOTROL	MONOTROL	MONOTROL
	53	Number of speeds, forward / reverse		3 / 3	3 / 3	3 / 3	3 / 3
54	Transmission type		Powershift	Powershift	Powershift	Powershift	
55	Relief pressure for attachments	psi (kPa)	2,400 (16 547)	2,400 (16 547)	2,400 (16 547)	2,400 (16 547)	

\* **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's nameplate which is affixed to truck when shipped complete from the factory.



# H300-330HD LIFT TRUCK SPECIFICATIONS

GENERAL	1	Manufacturer	Hyster Company	Hyster Company	Hyster Company	Hyster Company	
	2	Model	H300HD (Perkins)	H300HD (Cummins)	H330HD (Perkins)	H330HD (Cummins)	
	3	Capacity, rated	lb. (kg)	30,000 (13 608)	30,000 (13 608)	33,000 (14 969)	33,000 (14 969)
	4	Load Center	in. (mm)	24.0 (600)	24.0 (600)	24.0 (600)	24.0 (600)
	5	Power type		diesel	diesel	diesel	diesel
	6	Operator type		sit	sit	sit	sit
	7	Tire type, front / rear		pneumatic	pneumatic	pneumatic	pneumatic
	8	Wheels, front / rear	(X=drive)	4X / 2	4X / 2	4X / 2	4X / 2
DIMENSIONS	10	2-Stg.VISTA mast (Top of Forks)	in. (mm)	209.1 (5 311)	209.1 (5 311)	209.1 (5 311)	209.1 (5 311)
	13	Forks, width / thickness	in. (mm)	8 (203) / 3.5 (89)	8 (203) / 3.5 (89)	8 (203) / 3.5 (89)	8 (203) / 3.5 (89)
	14	Tilt angle, standard mast, forward / rearward	° deg	15 / 12	15 / 12	15 / 12	15 / 12
	15	Length to face of forks	in. (mm)	196.6 (4 994)	196.6 (4 994)	196.6 (4 994)	196.6 (4 994)
	16	Width, standard tires	in. (mm)	103.03 (2 617)	103.03 (2 617)	103.03 (2 617)	103.03 (2 617)
	17	Height, standard mast lowered	in. (mm)	174.8 (4 440)	174.8 (4 440)	175.6 (4 460)	175.6 (4 460)
	18	Height, standard mast extended, w/o LBE	in. (mm)	279.5 (7 099)	279.5 (7 099)	280.3 (7 120)	280.3 (7 120)
	19	Turning radius, minimum outside / inside	in. (mm)	180.3 (4 580) / 17.5 (445)	180.3 (4 580) / 17.5 (445)	180.3 (4 580) / 17.5 (445)	180.3 (4 580) / 17.5 (445)
	20	Length, center drive axle to face of forks	in. (mm)	33.3 (846)	33.3 (846)	33.3 (846)	33.3 (846)
	22	Aisle width, w/ 48" x 48" load	in. (mm)	269.5 (6 845)	269.5 (6 845)	269.5 (6 845)	269.5 (6 845)
PERFORMANCE †	23	Stability, (comply with ANSI)*		YES	YES	YES	YES
	24	Travel speed, maximum forward (powershift), NL / RL	mph (km/hr)	17.8 (28.6) / 16.5 (26.6)	18.5 (29.8) / 16.7 (26.9)	17.8 (28.6) / 16.1 (25.9)	18.5 (29.8) / 16.7 (26.9)
	25	Lift speed, standard mast, NL / RL	ft/min. (m/s)	87.0(0.44) / 58.0 (0.29)	95.0 (0.48) / 63.0 (0.32)	87.0 (0.44) / 58.0 (0.29)	95.0 (0.48) / 63.0 (0.32)
	26	Lowering, standard mast, NL / RL	ft/min. (m/s)	87.0(0.44) / 98.0 (0.50)	87.0 (0.44) / 98.0 (0.50)	87.0 (0.44) / 98.0 (0.50)	87.0 (0.44) / 98.0 (0.50)
	27	Drawbar pull, powershift xsmn, 1 mph, NL / RL	lb <sub>f</sub> (kN)	13,719 (61.0) / 21,486 (95.6)	13,719 (61.0) / 24,191 (107.6)	14,340 (63.8) / 21,160 (94.1)	14,340 (63.8) / 20,121 (89.5)
	28	Gradeability, powershift xsmn, 1 mph NL / RL	Percent	40 / 36	40 / 40	39 / 33	39 / 33
WT.	30	Total approximate weight, standard equipped truck	lb. (kg)	36,753 (16 671)	36,753 (16 671)	39,303 (17 828)	39,303 (17 828)
	31	Axle loading, static-RL front / rear	lb. (kg)	62,022 (28 133) / 4,731 (2 146)	62,022 (28 133) / 4,731 (2 146)	67,232 (30 496) / 5,071 (2 300)	67,232 (30 496) / 5,071 (2 300)
WHEELS & TIRES	32	Number of tires, front / rear		4 / 2	4 / 2	4 / 2	4 / 2
	33	Tire size, drive tires (front)		12.00-20 16PR	12.00-20 16PR	12.00-20 16PR	12.00-20 16PR
	34	Tire size, steer tires (rear)		12.00-20 16PR	12.00-20 16PR	12.00-20 16PR	12.00-20 16PR
	35	Wheelbase, center of steer to center of drive tire	in. (mm)	130.0 (3 302)	130.0 (3 302)	130.0 (3 302)	130.0 (3 302)
	36	Tread, center to center of tires, steer / drive	in. (mm)	78.7 (1 999) / 89.6 (2 276)	78.7 (1 999) / 89.6 (2 276)	78.7 (1 999) / 89.6 (2 276)	78.7 (1 999) / 89.6 (2 276)
	37	Ground clearance, lowest point - NL	in. (mm)	10.24 (260)	10.24 (260)	10.24 (260)	10.24 (260)
	38	Ground clearance, center of wheelbase - NL	in. (mm)	12.79 (325)	12.79 (325)	13.62 (346)	13.62 (346)
DRIVETRAIN	39	Brakes, method of control, service / parking		air / spring	air / spring	air / spring	air / spring
	40	Brakes, method of operation, service / parking		foot / pull button	foot / pull button	foot / pull button	foot / pull button
	42	Battery, volts / cold cranking amps	V / amps	24 / 227	24 / 227	24 / 227	24 / 227
	46	Engine, make-model		Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152	Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152
	47	Output per SAE standards	hp (kW)	145 (108)	152 (113)	145 (108)	152 (113)
	48	Governed speed, NL	RPM	2300	2500	2300	2500
	49	Cycle / number of cylinders / displacement	cu.in. (cm <sup>3</sup> )	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)
	51	Clutch type, powershift		Torque Converter	Torque Converter	Torque Converter	Torque Converter
	52	Gear change type, powershift		MONOTROL	MONOTROL	MONOTROL	MONOTROL
	53	Number of speeds, forward / reverse		3 / 3	3 / 3	3 / 3	3 / 3
54	Transmission type		Powershift	Powershift	Powershift	Powershift	
55	Relief pressure for attachments	psi (kPa)	2,400 (16 547)	2,400 (16 547)	2,400 (16 547)	2,400 (16 547)	

\* **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's nameplate which is affixed to truck when shipped complete from the factory.



# H360HD LIFT TRUCK SPECIFICATIONS

GENERAL			Hyster Company	Hyster Company
1	Manufacturer		Hyster Company	Hyster Company
2	Model		H360HD (Perkins)	H360HD (Cummins)
3	Capacity, rated	lb. (kg)	17,000 (7 711)	17,000 (7 711)
4	Load Center	in. (mm)	24.0 (600)	24.0 (600)
5	Power type		diesel	diesel
6	Operator type		sit	sit
7	Tire type, front / rear		pneumatic	pneumatic
8	Wheels, front / rear	(X=drive)	4X / 2	4X / 2
DIMENSIONS				
10	2-Stg.VISTA mast (Top of Forks)	in. (mm)	208.9 (5 306)	208.9 (5 306)
13	Forks, width / thickness	in. (mm)	8 (203) / 2.5 (64)	8 (203) / 2.5 (64)
14	Tilt angle, standard mast, forward / rearward	° deg	15 / 12	15 / 12
15	Length to face of forks	in. (mm)	168.3 (4 275)	168.3 (4 275)
16	Width, standard tires	in. (mm)	98.03 (2 490)	98.03 (2 490)
17	Height, standard mast lowered	in. (mm)	163.4 (4 150)	163.4 (4 150)
18	Height, standard mast extended, w/o LBE	in. (mm)	271.3 (6 891)	271.3 (6 891)
19	Turning radius, minimum outside / inside	in. (mm)	154.0 (3 912) / 6.0 (152)	154.0 (3 912) / 6.0 (152)
20	Length, center drive axle to face of forks	in. (mm)	28.5 (724)	28.5 (724)
22	Aisle width, w/ 48" x 48" load	in. (mm)	238.5 (6 058)	238.5 (6 058)
PERFORMANCE †				
23	Stability, (comply with ANSI)*		YES	YES
24	Travel speed, maximum forward (powershift), NL / RL	mph (km/hr)	20.4 (32.8) / 18.9 (30.4)	22.2 (35.7) / 20.5 (33.0)
25	Lift speed, standard mast, NL / RL	ft/min. (m/s)	143.0(0.73) / 96.0 (0.49)	155.0 (0.79) / 104.0 (0.53)
26	Lowering, standard mast, NL / RL	ft/min. (m/s)	98.0(0.50) / 114.0 (0.58)	98.0 (0.50) / 114.0 (0.58)
27	Drawbar pull, powershift xsmn, 1 mph, NL / RL	lb <sub>f</sub> . (kN)	9,252 (41.2) / 19,400 (86.3)	9,252 (41.2) / 21,421 (95.3)
28	Gradeability, powershift xsmn, 1 mph NL / RL	Percent	38 / 50	38 / 58
WT.				
30	Total approximate weight, standard equipped truck	lb. (kg)	25,872 (11 735)	25,872 (11 735)
31	Axle loading, static-RL front / rear	lb. (kg)	38,620(17 518) / 4,252 (1 929)	38,620(17 158) / 4,252 (1 929)
WHEELS & TIRES				
32	Number of tires, front / rear		4 / 2	4 / 2
33	Tire size, drive tires (front)		10.00-20 14PR	10.00-20 14PR
34	Tire size, steer tires (rear)		10.00-20 14PR	10.00-20 14PR
35	Wheelbase, center of steer to center of drive tire	in. (mm)	106.3 (2 700)	106.3 (2 700)
36	Tread, center to center of tires, steer / drive	in. (mm)	76.0 (1 930) / 86.2 (2 189)	76.0 (1 930) / 86.2 (2 189)
37	Ground clearance, lowest point - NL	in. (mm)	10.24 (260)	10.24 (260)
38	Ground clearance, center of wheelbase - NL	in. (mm)	11.61 (295)	11.61 (295)
DRIVETRAIN				
39	Brakes, method of control, service / parking		air / spring	air / spring
40	Brakes, method of operation, service / parking		foot / pull button	foot / pull button
42	Battery, volts / cold cranking amps	V / amps	24 / 227	24 / 227
46	Engine, make-model		Perkins Turbo 1106-60TA	Cummins 6BT5.9-C152
47	Output per SAE standards	hp (kW)	145 (108)	152 (113)
48	Governed speed, NL	RPM	2300	2500
49	Cycle / number of cylinders / displacement	cu.in. (cm <sup>3</sup> )	4 / 6 / 366 (5 998)	4 / 6 / 359 (5 883)
51	Clutch type, powershift		Torque Converter	Torque Converter
52	Gear change type, powershift		MONOTROL	MONOTROL
53	Number of speeds, forward / reverse		3 / 3	3 / 3
54	Transmission type		Powershift	Powershift
55	Relief pressure for attachments	psi (kPa)	2,400 (16 547)	2,400 (16 547)

\* **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's nameplate which is affixed to truck when shipped complete from the factory.



# H170-360HD LIFT TRUCK SPECIFICATIONS

<b>H170-210HD MAST DIMENSIONS</b> <i>in. (mm)</i>			
Maximum Fork Height (Top of Forks)	Overall Lowered Height	Overall Extended Height w/o Load Backrest Ext.	Total Weight of Standard Truck H170HD / H190HD / H210HD lb. (kg)
<b>2-STAGE NO FREE-LIFT (NO FL) VISTA</b>			
147.5 (3 747)	131.0 (3327)	203.6 (5 171)	25,141 (11 404) / 25,562 (11 595) / 26,841 (12 175)
183.0 (4648)	149.0 (3785)	239.0 (6 071)	25,477 (11 556) / 25,898 (11 747) / 27,177 (12 327)
212.5 (5398)	163.5 (4153)	268.6 (6 822)	25,872 (11 735) / 26,293 (11 926) / 27,572 (12 506)
<b>H230-280HD MAST DIMENSIONS</b> <i>in. (mm)</i>			
Maximum Fork Height (Top of Forks)	Overall Lowered Height	Overall Extended Height w/o Load Backrest Ext.	Total Weight of Standard Truck H230HD / H250HD / H280HD lb. (kg)
<b>2-STAGE NO FREE-LIFT (NO FL) VISTA</b>			
147.5 (3 747)	143.0 (3 632)	215.0 (5 461)	30,202 (13 699) / 30,645 (13 900) / 33,824 (15 342)
183.0 (4 648)	160.5 (4 077)	250.5 (6 363)	30,680 (13 916) / 31,123 (14 117) / 34,302 (15 559)
212.5 (5 398)	175.5 (4 458)	280.0 (7 112)	31,178 (14 142) / 31,621 (14 343) / 34,800 (15 785)
244.0 (6 198)	191.0 (4 851)	311.5 (7 912)	31,552 (14 312) / 31,995 (14 513) / 35,174 (15 955)
<b>H300-360HD MAST DIMENSIONS</b> <i>in. (mm)</i>			
Maximum Fork Height (Top of Forks)	Overall Lowered Height	Overall Extended Height w/o Load Backrest Ext.	Total Weight of Standard Truck H300HD / H330HD / H360HD lb. (kg)
<b>2-STAGE NO FREE-LIFT (NO FL) VISTA</b>			
147.5 (3 747)	143.5 (3 645)	215.5 (5 474)	35,476 (16 092) / 38,026 (17 248) / 39,976 (18 133)
183.0 (4 648)	161.0 (4 089)	251.0 (6 375)	36,111 (16 380) / 38,661 (17 536) / 40,611 (18 421)
212.5 (5 398)	176.0 (4 470)	280.5 (7 125)	36,753 (16 671) / 39,303 (17 828) / 41,253 (18 712)
244.0 (6 198)	191.5 (4 864)	312.0 (7 925)	37,237 (16 890) / 39,787 (18 047) / 41,737 (18 932)

20	CARRIAGE		
	Standard	Sideshift	DFSSFP*
H170-210HD	28.54 (725)	30.91 (785)	32.91 (836)
H230-280HD	30.05 (764)	32.30 (821)	33.93 (862)
H300-360HD	33.31 (846)	35.28 (896)	37.32 (948)

\*DFSSFP - Dual Function Sideshift Fork Positioner

MODEL in. (mm)	STEP HEIGHT			
	S1	S2	S3	S4
H170HD	15.35 (390)	27.64 (702)	40.16 (1 020)	51.57 (1 310)
H190HD	15.35 (390)	27.64 (702)	40.16 (1 020)	51.57 (1 310)
H210HD	15.35 (390)	27.64 (702)	40.16 (1 020)	51.57 (1 310)
H230HD	15.35 (390)	27.64 (702)	40.16 (1 020)	51.57 (1 310)
H250HD	15.35 (390)	27.64 (702)	40.16 (1 020)	51.57 (1 310)
H280HD	15.35 (390)	27.64 (702)	40.16 (1 020)	51.57 (1 310)
H300HD	16.54 (420)	28.82 (732)	41.34 (1 050)	52.76 (1 340)
H330HD	16.54 (420)	28.82 (732)	41.34 (1 050)	52.76 (1 340)
H360HD	16.54 (420)	28.82 (732)	41.34 (1 050)	52.76 (1 340)

MODEL	A	B	C	D	E	F	G	H
	in. (mm)							
H170HD	133.4 (3 388)	118.7 (3 015)	68.6 (1 742)	35%	25.0 (635)	33.4 (848)	44.7 (1 135)	168.31 (4 275)
H190HD	133.4 (3 388)	118.7 (3 015)	68.6 (1 742)	35%	25.0 (635)	33.4 (848)	44.7 (1 135)	168.31 (4 275)
H210HD	133.4 (3 388)	118.7 (3 015)	68.6 (1 742)	35%	25.0 (635)	33.4 (848)	44.7 (1 135)	168.31 (4 275)
H230HD	134.3 (3 411)	119.4 (3 033)	69.3 (1 760)	37%	25.7 (653)	33.4 (848)	44.7 (1 135)	177.36 (4 505)
H250HD	134.3 (3 411)	119.4 (3 033)	69.3 (1 760)	37%	25.7 (653)	33.4 (848)	44.7 (1 135)	177.36 (4 505)
H280HD	134.3 (3 411)	119.4 (3 033)	69.3 (1 760)	37%	25.7 (653)	33.4 (848)	44.7 (1 135)	177.36 (4 505)
H300HD	135.4 (3 439)	119.8 (3 043)	69.7 (1 770)	41%	26.1 (663)	33.4 (848)	44.7 (1 135)	196.61 (4 994)
H330HD	136.3 (3 462)	121.7 (3 091)	70.5 (1 791)	44%	26.9 (683)	33.4 (848)	44.7 (1 135)	196.61 (4 994)
H360HD	136.3 (3 462)	121.7 (3 091)	70.5 (1 791)	37%	26.9 (683)	38.1 (968)	44.7 (1 135)	201.34 (5 114)

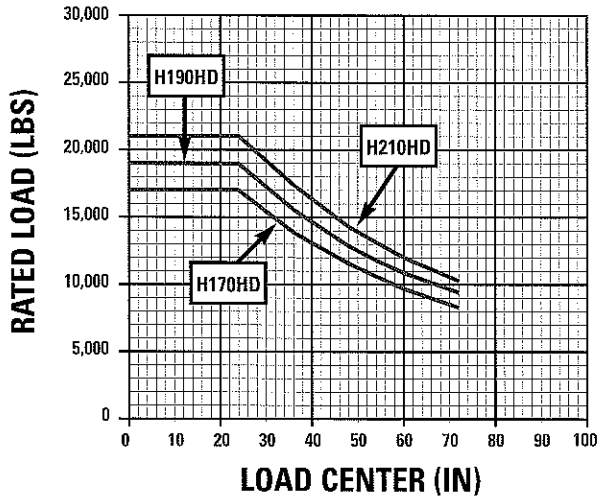




# H170-210HD LIFT TRUCK SPECIFICATIONS

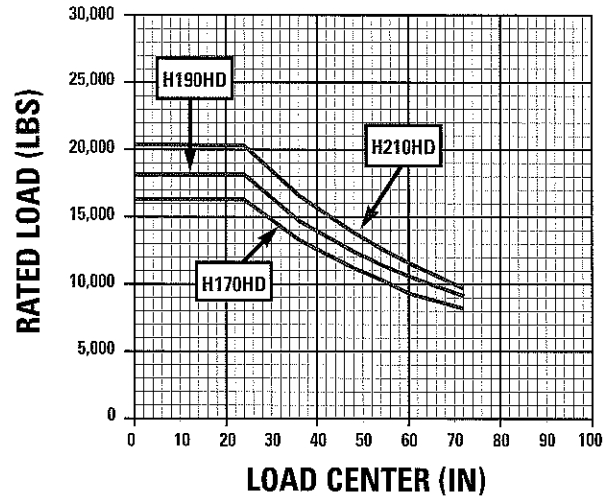
## RATED LOAD VS. LOAD CENTER

Standard Pin Carriage  
U.S. CUSTOMARY



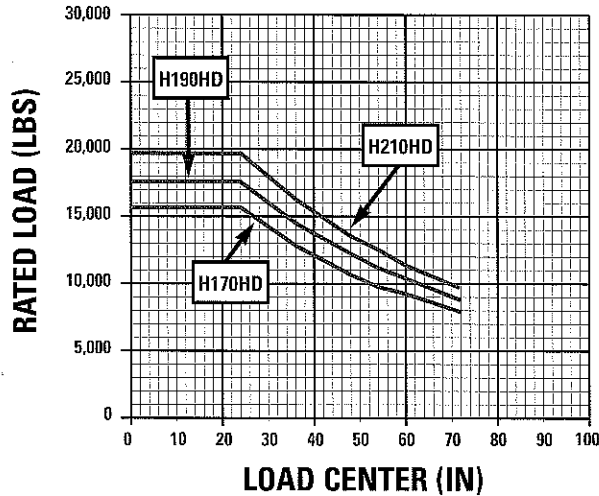
## RATED LOAD VS. LOAD CENTER

Non-Sideshift Fork Positioning Carriage  
U.S. CUSTOMARY



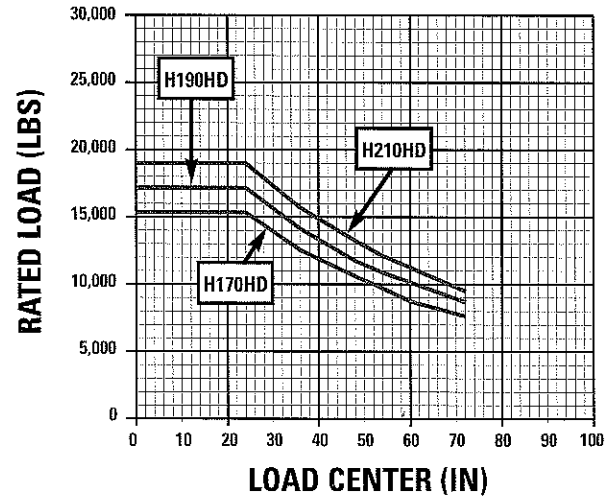
## RATED LOAD VS. LOAD CENTER

Integral Sideshift Carriage &  
Apron Style Sideshifting Fork  
Positioning Carriage  
U.S. CUSTOMARY



## RATED LOAD VS. LOAD CENTER

Dual Function Sideshifting /  
Fork Positioning Carriage  
U.S. CUSTOMARY



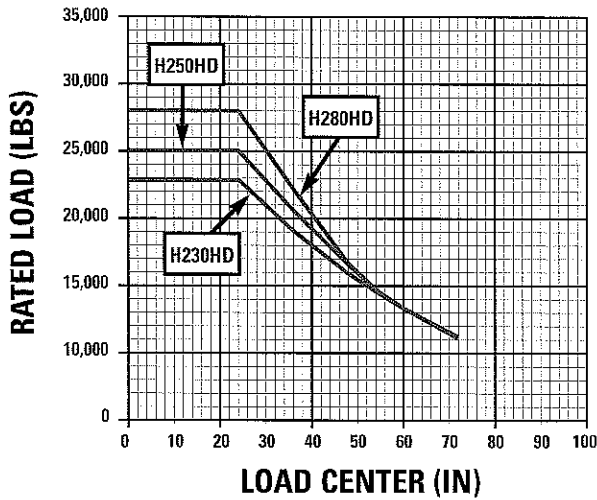
Conversion Factor: 1.0" = 25.4 mm  
1 lb = 0.45 kg



# H230-280HD LIFT TRUCK SPECIFICATIONS

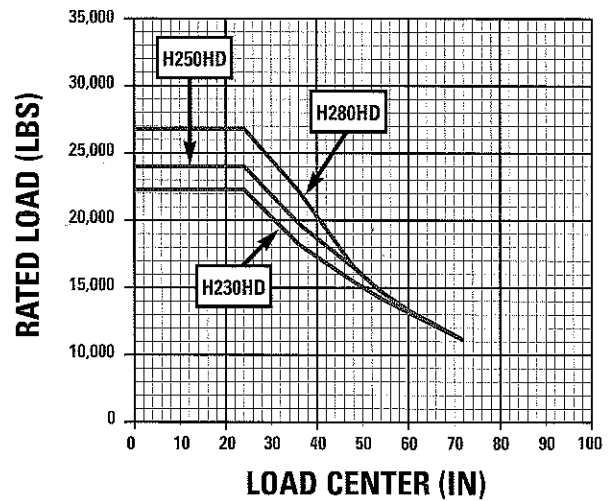
## RATED LOAD VS. LOAD CENTER

Standard Pin Carriage  
U.S. CUSTOMARY



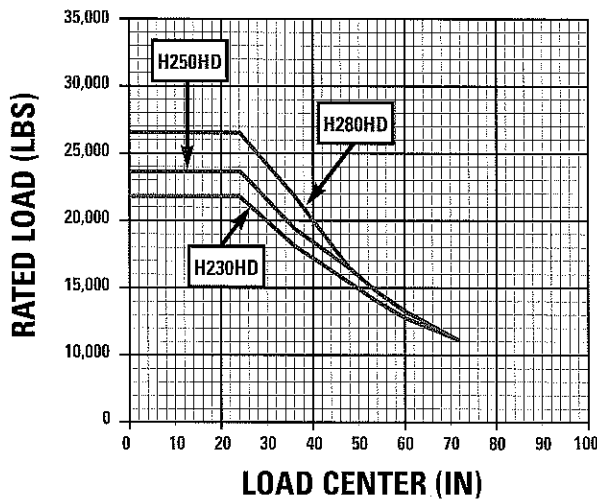
## RATED LOAD VS. LOAD CENTER

Non-Sideshift Fork Positioning Carriage  
U.S. CUSTOMARY



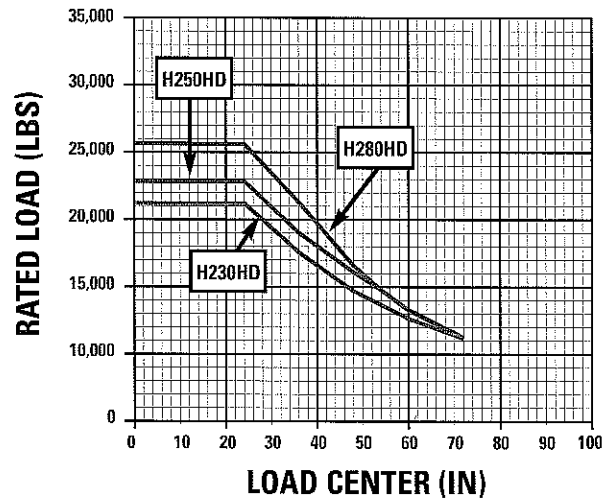
## RATED LOAD VS. LOAD CENTER

Integral Sideshift Carriage &  
Apron Style Sideshifting Fork  
Positioning Carriage  
U.S. CUSTOMARY



## RATED LOAD VS. LOAD CENTER

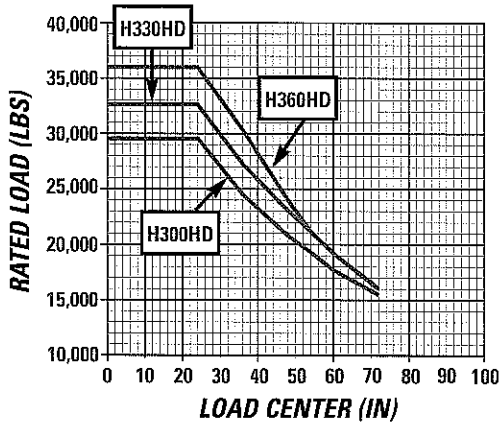
Dual Function Sideshifting /  
Fork Positioning Carriage  
U.S. CUSTOMARY



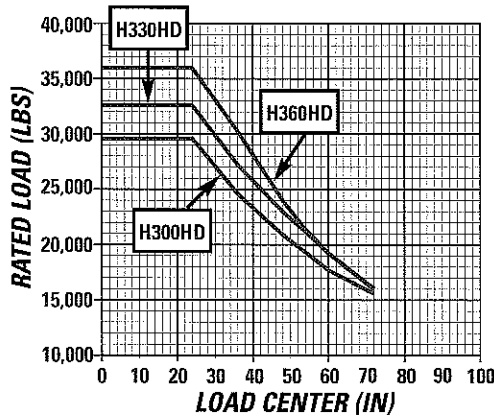
Conversion Factor: 1.0" = 25.4 mm  
1 lb = 0.45 kg



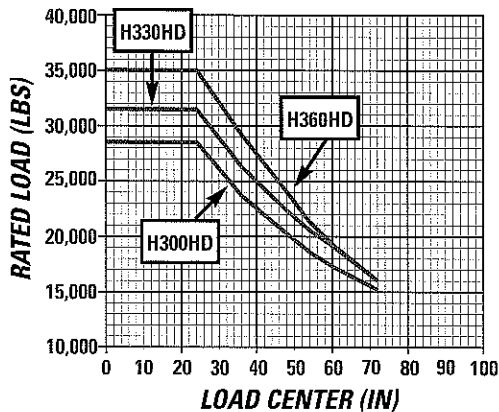
# H300-360HD LIFT TRUCK



**RATED LOAD VS. LOAD CENTER**  
Standard Pin Carriage  
U.S. CUSTOMARY



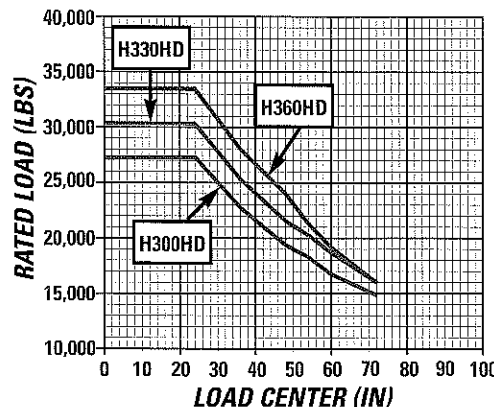
**RATED LOAD VS. LOAD CENTER**  
Non-Sideshift Fork Positioning Carriage  
U.S. CUSTOMARY



**RATED LOAD VS. LOAD CENTER**  
Integral Sideshift Carriage &  
Apron Style Sideshifting Fork  
Positioning Carriage  
U.S. CUSTOMARY

**RATED LOAD VS. LOAD CENTER**  
Dual Function Sideshifting /  
Fork Positioning Carriage  
U.S. CUSTOMARY

**Conversion Factor:**  
1.0" = 25.4 mm  
1 lb = 0.45 kg



# H170-360HD LIFT TRUCK

## CAPACITY

- Model H170HD:** 17,000 lbs. at 24" (7 711 kg at 600 mm) load center.
- Model H190HD:** 19,000 lbs. at 24" (8 618 kg at 600 mm) load center.
- Model H210HD:** 21,000 lbs. at 24" (9 525 kg at 600 mm) load center.
- Model H230HD:** 23,000 lbs. at 24" (10 433 kg at 600 mm) load center.
- Model H250HD:** 25,000 lbs. at 24" (11 340 kg at 600 mm) load center.
- Model H280HD:** 28,000 lbs. at 24" (12 701 kg at 600 mm) load center.
- Model H300HD:** 30,000 lbs. at 24" (13 608 kg at 600 mm) load center.
- Model H330HD:** 33,000 lbs. at 24" (14 969 kg at 600 mm) load center.
- Model H360HD:** 36,000 lbs. at 24" (16 329 kg at 600 mm) load center.

*Rated capacities are for truck equipped with:*

- VISTA<sup>®</sup> mast to 212.5" (5 398 mm) maximum fork height
- 92.5" (2 350 mm) (H170-280HD) & 98.5" (2 502 mm) (H300-360HD) carriage
- 48.0" (1 219 mm) (H170-280HD) & 72.0" (1 829 mm) (H300-360HD) long forks as required.

*Contact your dealer for other capacity information.*

## STANDARD EQUIPMENT

Hyster H170-360HD trucks are equipped with: low-emissions Perkins 1106.60TA 142 HP turbo-charged intercooled diesel engine • 70 amp alternator • overhead exhaust • Hyster 3-speed powershift transmission • telescopic, tilt steering wheel • planetary drive axle • 212.5" (5 398 mm) 2-stage no FL VISTA<sup>®</sup> mast • 92.5" (2 350 mm) (H170-280HD), 98.5" (2 502 mm) (H300-360HD) pin-type carriage • 48.0" (1 219 mm) (H170-280HD), 72.0" (1 829 mm) (H300-360HD) forks • air brakes • 2 brake w/backup lights • puller engine fan • MONOTROL<sup>™</sup> pedal • side view mirrors • horn • operator restraint system • overhead guard • operating manual • 15° forward / 12° back mast tilt • operator compartment features: seat-side hydraulic control, independently adjustable armrest, multifunction display panel, wide angle mirrors, manual operator compartment side tilt for service access, isolated mounting, handrails for operator entry and exit, mechanical full suspension vinyl seat, floor mat • load sensing steering • parts manual • 10.00 x 20-16 PR premium SuperLug off road tires • integral air precleaner • U.L. Classification D

*Optional equipment includes:*

- Cummins turbo-charged diesel engine • lever directional control • spinner knob • 3-speed auto shift • solid or radial tires • wet disc brakes • air with air system drier • ComforCab II features: electric wiper & windshield washers-front, rear & top; heater & defroster; 3-speed fan; additional circulation fan; intermittent front wiper; tinted, curved glass; single piece glass doors; door retainer; dome light; 12 volt auxiliary power source • Cab only options: air conditioning w/sunshade, reading light, rear locking console, sunshade • cloth mechanical suspension seat (w/cab only) • vinyl air suspension seat • cloth air suspension seat (cab only) • raintop (for non-cab trucks) • 0.66 gallon (2.5 liter) piston type accumulator • pusher engine fan (Cummins engine only) • 20.5° forward / 7° back mast tilt (2-stage) • 15° forward / 10° back mast tilt (3-stage) • light packages: 2 brake & backup, 2 mast mounted work & 2 rear drive lights; 2 brake & backup, 2 rear drive, 4 operator compartment drive & 2 front fender lights • turn signals • amber strobe light • back-up alarm • exhaust aspirated air precleaner • variable mast heights • 3, 4, 5 and 6 function valve and hose groups • joystick hydraulic control • hydraulic control lever options • Carriage options: integral pin-type fork positioner with simultaneous or individual fork control; pin-type integral sideshift; integral pin-type dual function sideshift fork positioner; apron style sideshift fork positioner with simultaneous or individual fork control • polished and tapered forks (H170-280HD) • variable fork lengths • powered operator compartment side tilt for service access

SPECIFICATIONS



# STANDARD FEATURES AND OPTIONS

## MASTS

Mast with nested channels provide excellent visibility of the attachment and load.

Pre-lubed and sealed load rollers resist load forces.

## CARRIAGES

Integral pin-type fork positioner with simultaneous or individual fork control; pin-type integral sideshift; integral pin-type dual function sideshift fork positioner; apron style sideshift fork positioner with simultaneous or individual fork control.

Overall width: 98.03" (2 490 mm) for the H170-280HD. Overall width for the H300-360HD is 103.03" (2 617 mm).

Minimum inside-to-inside fork spacing - model and attachment dependent: ranges from 4.6" - 5.5" (117 mm - 140 mm)

Maximum outside-to-outside fork spacing - model and attachment dependent: ranges from 86.5" - 92.5" (2 270 mm - 2 350 mm)

## FORKS

2.5" x 8.0" x 48.0" - 60.0" (64 x 203 x 1 219 - 1 524 mm) pallet forks for H170-210HD.

2.5" x 8.0" x 48.0" - 72.0" (64 x 203 x 1 219 - 1 829 mm) pallet forks for H170-190HD.

2.5" x 8.0" x 48.0" - 96.0" (64 x 203 x 1 219 x 2 438 mm) pallet forks for H170HD.

3.0" x 8.0" x 48.0" - 96.0" (76 x 203 x 1 219 - 2 438 mm) pallet forks for H170-280HD.

3.0" x 8.0" x 48.0" - 72.0" (76 x 203 x 1 219 - 1 829 mm) polished and tapered forks for H170-280HD.

2.75" x 8.0" x 48.0" - 96.0" (70 x 203 x 1 219 - 2 438 mm) dual function sideshifting fork positioner forks for H170-280HD.

3.5" x 8.0" x 72.0" - 96.0" (89 x 203 x 1 829 - 2 438 mm) pallet forks for H300-360HD.

## ENGINES

*Standard Perkins 1106.60TA turbocharged diesel engine includes:*

- 4 cycle, 6 cylinders, 365 cu. in. (5 980 cm<sup>3</sup>) displacement
- 3.94" (100 mm) bore
- 5.00" (127 mm) stroke
- Distributor-type fuel-injection pump with built-in governor
- Automatic advance and retard mechanism
- Cold starting aid
- Key-actuated start/stop solenoid
- Maximum torque is 434 ft.lbs. (588 N•m) at 1,400 RPM.
- 31.7 U.S. gallon (120L) fuel capacity
- U.L. Classification D

*Optional Cummins 6BT 5.9L turbocharged engine features:*

- 4 cycle; 6 cylinders; 359 cu. in. (5883 cm<sup>3</sup>) displacement
- 4.02" (102 mm) bore
- 4.72" (120 mm) stroke
- U.L. Classification D
- Maximum torque is 414 ft.lbs. (561 N•m) at 1500 RPM

Engine compartment features gullwing doors for easy service access.

## TRANSMISSION

- Exclusive Hyster three-speed, fully-reversing powershift transmission produces smooth shifting, precise inching and fast acceleration.
- Cushioned clutch lock-up provides smooth shifting and dampens drive line shock loads.
- Optional autoshift transmission features a programmable controller that is protected by an air-tight enclosure.
- Standard steer column mounted lever provides the operator the option of manual shift capabilities.
- A dash-mounted indicator light displays transmission mode status.
- De-throttle transmission feature reduces drive-line shock during shifting.

## HYDRAULIC SYSTEM

- 3,050 PSI (21.0 mPa) hydraulic lift

system; 2,400 PSI (16.5 mPa) relief pressure in all valve variations.

- Electro proportional hydraulic control valve sections provide fine tuned metering of hydraulic functions.
- "O" Ring Face Seal hydraulic fittings are used throughout the hydraulic system.

## STEERING SYSTEM

- The steer axle is a casting with a transverse mounted double acting cylinder, 2 non-adjustable tie rods, 2 spindles, taper roller bearings and 2 wheel hubs. The axle is pin mounted to the frame.
- Designed for high loads and long life, the one piece axle frame carries the axle loads and provides mounting for the spindles and cylinder.
- Axle spindles are supported by tapered roller bearings and sealed to prevent contaminate entry or loss of grease.
- Eight high tensile bolts secure the steer cylinder providing large wheel angles and greater maneuverability. Excessive external force on the frame is avoided using this design.
- No steering linkage adjustments are required. Lubricating fittings on the spindle and tie rod pins are the only regular maintenance points.
- Load sensed steering provides low steering effort and good performance at all engine speeds.

## DRIVE AXLE

Rugged Hyster drive axle features full-floating design. Wheel hubs rotate on large tapered roller bearings.

## BRAKES

- "S-cam"-style, power-assist air brakes provide smooth, reliable braking with minimal effort.
- A dedicated compressor air filter

provides clean, unrestricted air supply to the braking system.

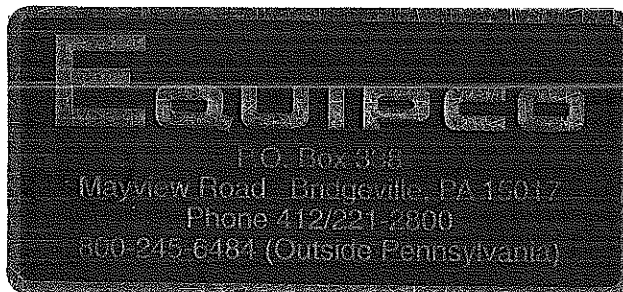
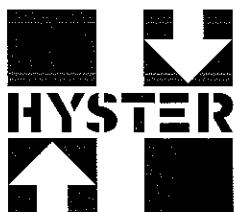
- Non-asbestos brake linings
- Optional air brakes with air system dryer and wet brake system are also available.

## OPERATOR AREA

- Instruments are in line of sight.
- Ergonomically designed hydraulic controls and high/low range control lever are within easy reach.
- Two steps and handgrips provide easy access to operator compartment.
- Angled floorplate and pedals are positioned for operator comfort.
- Standard MONOTROL pedal controls engine speed and truck direction, freeing operator hands to operate steering and hydraulic controls.
- Five position tilt steer column
- Supportive mechanical full-suspension seat adjusts 8-inches (203 mm) for operator comfort.
- Air suspension seat is optional.
- Steel overhead guard frame provides excellent high-stacking, visibility.
- Optional light groups aid visibility in low-lighted areas.
- Optional ComforCab II features: tinted, curved glass; circulation fan; heater & defroster; electric wiper and windshield washer front, rear, top; intermittent front wiper; single piece glass doors; door retainer; 3 speed fan; 12 volt auxiliary power source; dome light.

*Special attachments, equipment or accessories not listed above may be available through Applications Engineering for specific application requirements.*

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