



Heavy-Duty Forklift Truck

H190-360HD



H190-360HD Series

Why mess with success? Hyster Company has always produced **the best pneumatic truck** in the 19,000-36,000 pound range. Hyster Company is forging a new trail with a truck that will set the bar even higher. The **new H190-360HD truck series** takes the 'tried and true' features of its predecessor and makes them even better. Your customers depend more upon you than ever before. Your job has become more demanding and the new H190-360HD is up to the task. The new Hyster® H190-360HD series is the family **workhorse lift truck that won't let you down.**

Our all-season temperature controlled cab (optional) features a heater & defroster, circulation fan and an optional air-conditioner to keep you comfortable from the heat of the summer to the coolest of winter shifts.



Trucks shown with optional equipment.



Enhanced Productivity

Hyster® engineers have moved the **dash display** to the right side, giving you the clearest view possible. Your upward vision is virtually free from obstruction, due to the **unique overhead guard design**.

And you'll get **no distortion** looking through the curved front and rear glass. That's especially handy with the **optional interior overhead guard roller-type sunshade**. Want the fresh air all year? The open driver compartment is available as the standard truck configuration.



A lower front cowl and rounded glass on the HD series' ComforCab II™ provides an unobstructed view ahead. The red service indicator light, just above the steering wheel, notifies you to look at the new dash display. The backlit warning lights, gauges and LCD screen in the right-hand side console tell you what service is needed.



The H190-360HD series' **electro-proportional hydraulics with lever controls (standard) or optional joystick**, give you unrivaled load control and an **ease of operation** you can't get anywhere else. By reducing lever efforts without a sacrifice of control, you will complete your shift with less strain, **dramatically increasing productivity**. All hydraulic controls are mounted in the fully **adjustable right-hand armrest** putting every function actuation within a fingertips reach.



Superior Operator Comfort

Once again, Hyster Company re-asserts industry leadership with the H190-360HD lift truck's **optional new ComforCab II™** operator compartment. The HD series' leading edge blend of ergonomics and technology helps keep you focused on the task at hand . . . materials handling.

The entire compartment is mounted on **elastomeric rubber mounts** isolating and minimizing the productivity robbing effects of road-born shocks and vibrations. Its **uncluttered, spacious floor** is covered with a high-density rubber mat, decreasing sound inside the optional enclosed ComforCab II down to an **amazingly low 75 dB(A) level**.

That's slightly less than the average sound level of music playing in your living room.

The combination of a tilt and telescoping steering column and an adjustable full-suspension seat places your operator in the **utmost comfort**. In addition, the right-side armrest's adjustment capabilities allows even the most demanding operator to place the truck's controls within easy reach. Control is second to none since the low effort, **load sensing power steering** is standard equipment. The benefit of over 80 years of Hyster Company's heritage shows through clearly.

The image shows the operator's compartment of a Hyster forklift. A light-colored, textured seat is positioned on the right side of the frame. To the left of the seat is a black steering wheel with a central hub. The dashboard and control panel are located on the right side, featuring a digital display screen, several buttons, and a red emergency stop button. The floor is made of dark, ribbed plastic. The overall interior is clean and functional, designed for operator comfort and safety.

Reward productivity. Whether it's the standard vinyl covered cushion or optional cloth covered version, the full-suspension seat is contoured to maximize your comfort. With an adjustable backrest angle separate from the seat, and armrests, your Hyster seat features weight sensitive adjustable spring rate. The seat's integral armrests/hip restraints provide an excellent arm or handhold to minimize torso strain when operating in a rearward position. All seats come fitted with an operator warning buzzer system that will sound if the parking brake is not applied.

Controlled personal space. The optional ComforCab II has a 3-speed fan and high capacity heater as standard, with 10 air outlet vents for all around comfort. A replaceable paper air filter element filters the air from the outside. The optional two-speed air conditioner will keep you cool when the temperature is rising. Or you can order the optional circulation fan for even more air. Keeping the ComforCab II a consistent temperature is easy, since the doors create an air-tight seal when closed.



Performance At-A-Glance

The H190-360HD lift truck series' console, located on the right-side of the operator, houses the instrumentation and electronics package. Soft-touch controls give you the confidence to complete a full day's worth of work, and then some. We also moved the **state-of-the-art multi-function display** panel to the right-side console. With **16 warning lights**, **5 gauges** and a **dual function LCD**, your operator has a clear, true reading of how your machine is performing. Below is a chart to show you the **form of notification** you will find on the HD series' at-a-glance performance console.

H190-360HD LIFT TRUCK SERIES	Service Indicator Lights	Console Dash Gauges	Steering Warning Red Light	Audible Alarm Sounds	Automatic Engine Shut-down
Park Brake, Button Actuated	YES	---	---	YES	---
Fasten Seat Belt	YES	---	---	---	---
Fuel, Low Level	YES	YES	YES	---	---
Water Separator, Fuel System	YES	---	---	---	---
Engine, Low Oil Pressure	YES	YES	YES	YES	YES
Engine, Low Coolant Level	YES	---	YES	---	---
Engine, High Coolant Temperature	YES	YES	YES	YES	YES
Engine Air Filter, High Restriction	YES	---	---	---	---
Engine, Hour Meter	---	YES / LCD	---	---	---
Engine, Shut-Down Warning	YES	---	YES	YES	YES
Glowplug ON - Cylinder Heaters	YES	---	---	---	---
Battery Charge - Alternator	YES	---	---	---	---
Air-Brake Sytem, Low Pressure	YES	---	YES	---	---
Hydraulic Brake System, Low Pressure **	YES**	---	YES**	---	---
Hydraulic Brake, High Oil Temperature **	YES**	---	YES**	---	---
Transmission, Low Oil Pressure	YES	YES	YES	YES	---
Transmission, High Oil Temperature	YES	YES	YES	YES	YES
Transmission, Autoshift Error	YES**	YES / LCD	YES**	---	---

** INDICATES WARNING FUNCTIONS FOR OPTIONAL FEATURES AVAILABLE ON THE H190-360HD LIFT TRUCK SERIES.

Advanced Dependability

Hyster offers the **Cummins QSB 6.7 Tier 3 Diesel** as Standard.

Powerful, yet compliant... At Hyster we strive to do our part in a “cleaner” environment.

That is why Hyster has paired up with Cummins to offer the next generation of engines. The new H190-360HD trucks have a 6.7 Liter Cummins QSB6.7 industrial diesel engine with **turbocharger and inner cooler**.

New Quad-Cooler contains four separate cooling cores (engine, transmission, charge air cooler and hydraulic system). The cores are horizontally stacked and are individually replaceable. The **integrated hydraulic cooler** maintains normal system operating temperatures at ambient temperatures of 122°F.



A **resistive electric grid preheats intake air** to dramatically increase cold weather startability. No need to slow down with Hyster's shift on the fly **3-speed powershift transmission**. The use of torque control allows for precise inching. **Large durable multi-disc clutch packs** help keep the temperature down. The **fully electronic autoshift gear change** makes this a smooth truck to operate.

1st position, gear stays in 1st.

2nd position starts in 1st gear and shifts to 2nd gear.

3rd position starts in 1st gear then upshifts or down shifts through 1st, 2nd, or 3rd gear.



Superior Operator Control

Adjust the standard 3-way adjustable contoured seat where you want it. Then refine your position further with the **multi-position tilt and telescoping steer column** adjustments. The H190-360HD truck's **hydraulically assisted steering** minimizes effort required to get into and out of tight spaces. The HD series' hydraulic levers are always at your fingertips. Performance data is ready at-a-glance. And the MONOTROL® pedal is at the ready, to provide you **single touch foot-pedal control** of travel speed and direction. This unique Hyster® feature frees your hands to do other tasks, making maneuvering easier and saves you time.



And if you prefer, an optional direction control lever with forward, neutral and reverse is available with range control. Some of the trucks pictured throughout this brochure are shown with the optional lever controls.

Inching and braking are not the same. On the H190-360HD lift truck series you have two pedals, one located on either side of the steering column. The left-hand side pedal provides you braking and inching capabilities by partially disengaging transmission clutch packs. Fully depressing this pedal engages the brakes. The brake pedal is on the right-hand side of the column.



Best All-around Visibility

You have no dash or cowl to obscure your line of sight when operating an H190-360HD series truck. Hyster Company's exclusive VISTA® masts **optimizes your field of vision** for better load handling. Your vision thru the overhead guard is **unrivaled**. In-line air-intake and exhaust pipes **minimize** rearward visibility obstructions. The rounded



form of the hood, fenders and counterweight design allow you to see objects sooner, dramatically **increasing your rearward visibility**.

Large wide-angle side view mirrors mounted in the upper front left and right corners of the ComforCab II provide you a clear look behind.



The forward view and rear view image were shot on an H280HD unit equipped with the optional light package.

Superior Serviceability

Imagine having **ready access** to the engine and vital functions of the truck without straining or tying yourself in knots. The answer is the **side tilting ComforCab II™** of the Hyster® H190-360HD. The cab, mounted on **4 rubber isolators** pivots over to the right-side of the truck, giving you complete access to all the major components.

All engine, transmission and other **service check points are conveniently situated** for quick maintenance. The daily service checks can be completed in less than 10 minutes. The hardest decision you will have to make as an owner of an H190-360HD series truck is **electric or manual tilt**. Just remember, the mast is required to be tilted forward to full-stroke before tilting the ComforCab II over for service.

Hyster lift trucks make their name with what they do for your operations. But it doesn't hurt to have a little **styling** along the way. The new rounded form of the operator compartment, hood, fenders and counterweight are testimony of the H190-360HD truck series' combination of form and functionality. The new rear fenders include **unique rear light clusters** that improve component durability. The new low-profile counterweight offers improved visibility, while the new hood design provides improved service access. The rear hood is hinged for ease of radiator access and maintenance.





The H190-360HD series' standard tilting ComforCab II feature comes as a manual crank. The lever, found inside next to the seat, requires approximately 110 strokes for the hydraulic cylinder to extend and open the cab completely. If you choose the optional electric (push-button) version, you get both.



Pulling the 'notched holding device' lever allows it to slide free as the hydraulic cylinder extends, raising the ComforCab II. Once open, you have complete access to the hydraulic system, transmission and engine.





Service checks made simple. Thanks to the gas-spring assisted gullwing doors, gaining access to the filter is easy. Daily service checks and regularly scheduled maintenance will keep your H190-360HD at peak performance.



The Hyster hydrostatic steer axle is as tough as they come. It's maintenance free and that's not easy with the beating it takes. Its durable spindles are supported by pre-lubricated tapered roller bearings which resist shock and wear. Periodic adjustment is eliminated by its fixed length tie rods.

Exceptional Dependability

The new O-Ring Face Seal fittings used throughout this series help ensure that **hydraulic connections are sealed** and leaks are a thing of the past. With its tilting ComforCab II and gas-spring assisted gullwing hood door design, access to the engine, hydraulics and drivetrain is quick and easy. And with **improved air intakes**, your new HD truck series will reduce the need for filter replacements. When it comes to slowing down, you have your choice of **air brakes with air system drier or optional wet disc brakes**. What's more, an optional drier is available for the air brake system. The air brake's **unique warning system** warns you of low air pressure. Both styles of brake systems feature a **full floating axle assembly design**, allows its housing, not the shafts, to carry the weight of the load, for greater durability. Either system gives you positive consistent stopping and **superb inching capabilities**.



Extraordinary Support

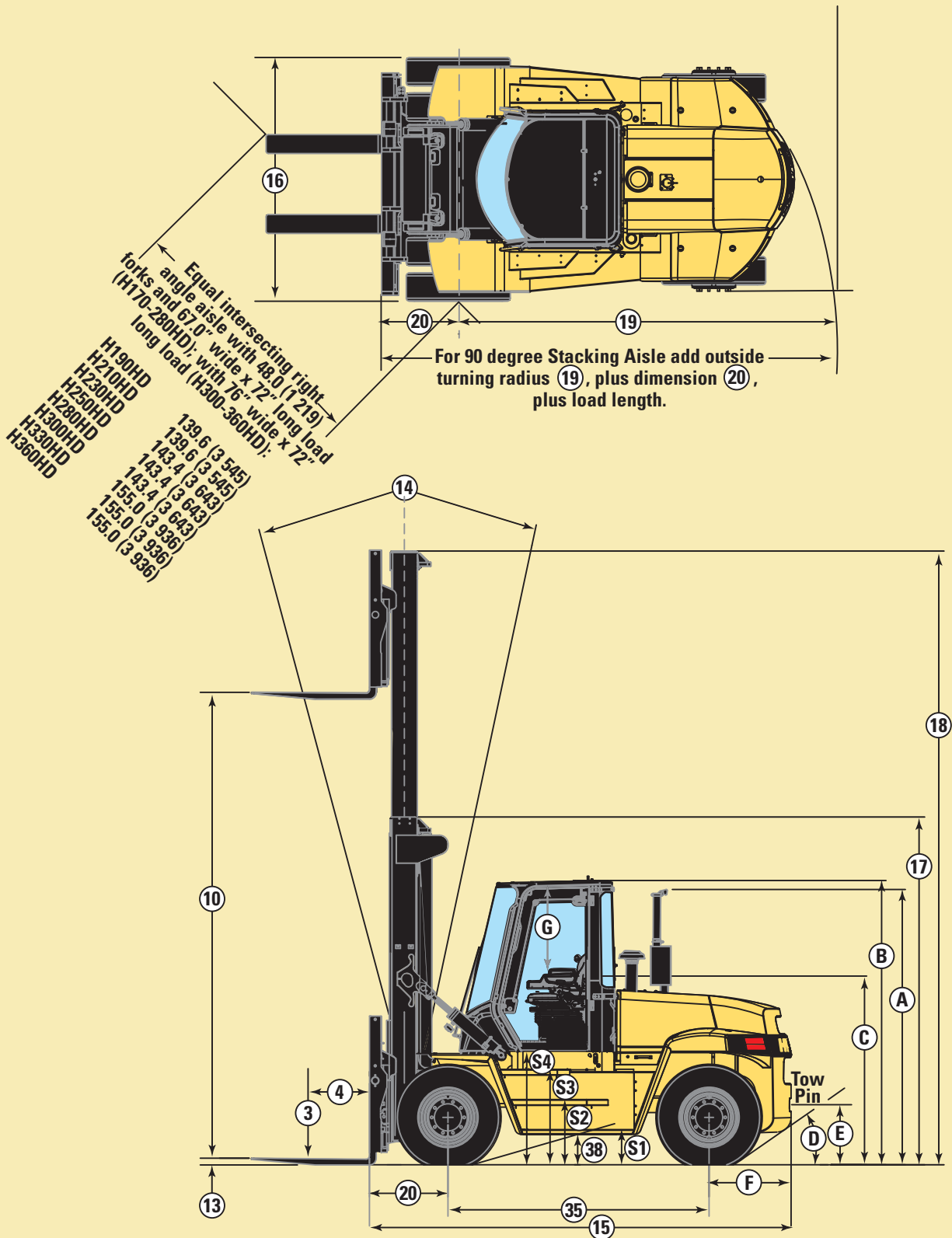
You have a friend in the business. Your local Hyster dealer is your best friend when it comes to materials handling. He brings the complete solution to your company. Financial solutions thru Hyster Capital, operator training, parts and service support 24/7. But he doesn't stop there. If you have a mixed fleet of trucks, he can take care of servicing them too. With the 'Everyday Low Pricing' of UNISOURCE™ parts, you can get first quality coverage of more than 21 brands of competitive lift trucks. Anyone can sell you a lift truck and make promises. But only your Hyster dealer will be there to back it up.

Wide Open Spaces

Whether you like an **open operator compartment or an enclosed cab**, we have you covered on the new H190-360HD lift truck series. The **tinted tempered glass of the ComforCab II™** helps minimize the sun's glare while driving or handling loads in either direction. And for those really hot, sunny days the **optional air-conditioner and built-in 'sunshade'** in the cab module help keep you cool. Best of all, the curved front and rear glass of the ComforCab II maximizes your line of site.



Hyster H190-360HD Lift Truck Dimensions



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

Hyster H190HD Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	
	2	Model	H190HD	
	3	Capacity, rated	lb. (kg)	19,000 (8700)
	4	Load center	in. (mm)	24.0 (600)
	5	Engine / Power type		Diesel
	6	Operator type		Sit
	7	Tire type, front / rear		Pneumatic
	8	Wheels, front / rear	(X=drive)	4X / 2

DIMENSIONS	10	2-stg. VISTA mast (Top of Forks)	in. (mm)	213 (5411)
	13	Forks, width / thickness	in. (mm)	8 (203) / 2.5 (63.5)
	14	Tilt angle, standard mast forward / backward	Deg. °	15 / 12
	15	Length to face of forks	in. (mm)	169 (4292)
	16	Width, standard tires	in. (mm)	98.03 (2490)
	17	Height, standard mast lowered	in. (mm)	165 (4178)
	18	Height, std. mast extended with / without LBE	in. (mm)	270 (6846)
	19	Turning radius, minimum outside / inside	in. (mm)	154 (3912) / 8.66 (220)
	20	Length, center drive axle to face of forks	in. (mm)	28.54 (725)
	22	Equal Intersecting Aisle (W=48 in., L=48 in.)	in. (mm)	182.6 (4639)

PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES
	24	Travel speed RL / NL	mph (km/h)	17.8 (28.6) / 18.9 (30.4)
	25	Lift speed, standard mast RL / NL	ft/min (m/s)	95 (48) / 144 (.73)
	26	Lowering, standard mast RL / NL	ft/min (m/s)	98 (4.9) / 95 (4.8)
	27	Drawbar pull, 1 mph RL / NL	lbf. (kN)	20068 (9122) / 8090 (3677)
	28	Gradeability, 1 mph RL / NL	%	51 / 32

WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	27487 (12494)
	31	Axle loading, static-RL front / rear	lb. (kg)	41580 (18900) / 3714 (1 6888)

TIRES & WHEELS	32	Number of tires, drive (front) / steer (rear)		4 / 2
	33	Size of tires, drive (front)		10.00-20 16PLY
	34	Size of tires, steer (rear)		10.00-20 16PLY
	35	Wheelbase	in. (mm)	106.3 (2700)
	36	Tread, center of tires, steer / drive	in. (mm)	75.98 (1930) / 86.2 (2190)
	37	Ground clearance, lowest point NL	in. (mm)	10.24 (261)
	38	Ground clearance, center wheelbase NL	in. (mm)	11.6 (295)

POWERTRAIN	39	Brakes, method of control, service / parking		air / spring
	40	Brakes, method of operation, service / parking		foot / pull button
	42	Battery, volts / cold cranking amps	V (amps)	24 / 550
	46	Engine, make-model		Cummins QSB6.7-155
	47	Output per SAE standards	hp (kW)	155 (116)
	48	Governed speed NL	RPM	2500
	49	Cycle / No. cylinders / displacement	cu.in.(cm3)	4 / 6 / 409 (6702)
	51	Clutch type, powershift		Torque Converter
	51	Gear change type		MONOTROL
	52	Number of speeds, forward / reverse		3 / 3
53	Transmission type		Powershift	
54	Relief pressure for attachments	psi (kPA)	2800 (19,300)	

* **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.

† **NOTE:** Performance specifications/ratings are for truck equipped as described under Standard Equipment in this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and you should discuss the proposed application with your authorized Hyster Dealer.

Hyster H210-230HD Lift Truck Specifications

GENERAL	1	Manufacturer		Hyster Company	Hyster Company
	2	Model		H210HD	H230HD
	3	Capacity, rated	lb. (kg)	21,000 (9600)	23,000 (10,450)
	4	Load center	in. (mm)	24.0 (600)	24.0 (600)
	5	Engine / 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)	213 (5411)	213 (5411)
	13	Forks, width / thickness	in. (mm)	8 (203) / 2.5 (63.5)	8 (203) / 2.5 (63.5)
	14	Tilt angle, standard mast forward / backward	Deg. °	15 / 12	15 / 12
	15	Length to face of forks	in. (mm)	169 (4292)	177 (4495)
	16	Width, standard tires	in. (mm)	98.03 (2490)	98.03 (2490)
	17	Height, standard mast lowered	in. (mm)	165 (4178)	176 (4453)
	18	Height, std. mast extended with / without LBE	in. (mm)	270 (6846)	281 (7118)
	19	Turning radius, minimum outside / inside	in. (mm)	154 (3912) / 8.66 (220)	162 (4115) / 9.9 (251)
	20	Length, center drive axle to face of forks	in. (mm)	28.54 (725)	29.72 (755)
	22	Equal Intersecting Aisle (W=48 in., L=48 in.)	in. (mm)	182.6 (4639)	191.8 (4871)

PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES
	24	Travel speed RL / NL	mph (km/h)	17.8 (28.6) / 18.9 (30.4)	18.1 (29.1) / 19.3 (31.0)
	25	Lift speed, standard mast RL / NL	ft/min (m/s)	95 (.48) / 144 (.73)	67 (.34) / 104 (.52)
	26	Lowering, standard mast RL / NL	ft/min (m/s)	98 (.49) / 95 (.48)	97 (.49) / 91 (.46)
	27	Drawbar pull, 1 mph RL / NL	lbf, (kN)	19394 (8815) / 8200 (3727)	19282 (8764) / 9300 (4227)
	28	Gradeability, 1 mph RL / NL	%	47 / 31	38 / 31

WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	28112 (12810)	32806 (14911)
	31	Axle loading, static-RL front / rear	lb. (kg)	45149 (20522) / 40333 (18333)	50480 (22945) / 15325 (2420)

TIRES & WHEELS	32	Number of tires, drive (front) / steer (rear)		4 / 2	4 / 2
	33	Size of tires, drive (front)		10.00-20 16PLY	10.00-20 16PLY
	34	Size of tires, steer (rear)		10.00-20 16PLY	10.00-20 16PLY
	35	Wheelbase	in. (mm)	106.3 (2700)	114.2 (2900)
	36	Tread, center of tires, steer / drive	in. (mm)	75.98 (1930) / 86.2 (2 190)	75.98 (1930) / 86.2 (2 190)
	37	Ground clearance, lowest point NL	in. (mm)	10.24 (261)	11.02 (280)
	38	Ground clearance, center wheelbase NL	in. (mm)	11.6 (295)	12.4 (315)

POWERTRAIN	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 / 550	24 / 550
	46	Engine, make-model		Cummins QSB6.7-155	Cummins QSB6.7-155
	47	Output per SAE standards	hp (kW)	155 (116)	155 (116)
	48	Governed speed NL	RPM	2500	2500
	49	Cycle / No. cylinders / displacement	cu.in.(cm ³)	4 / 6 / 409 (6702)	4 / 6 / 409 (6702)
	51	Clutch type, powershift		Torque Converter	Torque Converter
	51	Gear change type		MONOTROL	MONOTROL
	52	Number of speeds, forward / reverse		3 / 3	3 / 3
53	Transmission type		Powershift	Powershift	
54	Relief pressure for attachments	psi (kPA)	2,800 (19 300)	2,800 (19 300)	

* **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.

† **NOTE:** Performance specifications/ratings are for truck equipped as described under Standard Equipment in this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and you should discuss the proposed application with your authorized Hyster Dealer.

Hyster H250-280HD Lift Truck Specifications

GENERAL	1	Manufacturer		Hyster Company	Hyster Company
	2	Model		H250HD	H280HD
	3	Capacity, rated	lb. (kg)	25,000 (11400)	28,000 (12700)
	4	Load center	in. (mm)	24.0 (600)	24.0 (600)
	5	Engine / 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)	213 (5411)	213 (5411)
	13	Forks, width / thickness	in. (mm)	8 (203) / 3 (76)	8 (203) / 3 (76)
	14	Tilt angle, standard mast forward / backward	Deg. °	15 / 12	15 / 12
	15	Length to face of forks	in. (mm)	177 (4495)	177 (4495)
	16	Width, standard tires	in. (mm)	98.03 (2490)	98.03 (2490)
	17	Height, standard mast lowered	in. (mm)	176 (4453)	176 (4453)
	18	Height, std. mast extended with / without LBE	in. (mm)	281 (7118)	281 (7118)
	19	Turning radius, minimum outside / inside	in. (mm)	162 (4155) / 10 (254)	162 (4155) / 9.9 (251)
	20	Length, center drive axle to face of forks	in. (mm)	29.72 (755)	29.72 (755)
	22	Equal Intersecting Aisle (W=48 in., L=48 in.)	in. (mm)	191.8 (4871)	191.8 (4871)

PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES
	24	Travel speed RL / NL	mph (km/h)	18.2 (29.2) / 19.4 (31.2)	17.7 (28.4) / 19.1 (30.7)
	25	Lift speed, standard mast RL / NL	ft/min (m/s)	67 (.34) / 104 (.52)	67 (.34) / 104 (.52)
	26	Lowering, standard mast RL / NL	ft/min (m/s)	97 (.49) / 91 (.46)	97 (.49) / 91 (.46)
	27	Drawbar pull, 1 mph RL / NL	lbf, (kN)	19282 (8764) / 9300 (4227)	17044 (7747) / 10104 (4592)
	28	Gradeability, 1 mph RL / NL	%	35 / 31	32 / 30

WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	33191 (15055)	34,690 (15735)
	31	Axle loading, static-RL front / rear	lb. (kg)	53379 (24263) / 4812 (2187)	57624 (26192) / 5066 (2302)

TIRES & WHEELS	32	Number of tires, drive (front) / steer (rear)		4 / 2	4 / 2
	33	Size of tires, drive (front)		10.00-20 16PLY	10.00-20 16PLY
	34	Size of tires, steer (rear)		10.00-20 16PLY	10.00-20 16PLY
	35	Wheelbase	in. (mm)	114.2 (2900)	114.2 (2900)
	36	Tread, center of tires, steer / drive	in. (mm)	75.98 (1930) / 86.2 (2190)	75.98 (1930) / 86.2 (2190)
	37	Ground clearance, lowest point NL	in. (mm)	11.02 (280)	11.02 (280)
	38	Ground clearance, center wheelbase NL	in. (mm)	12.4 (315)	12.4 (315)

POWERTRAIN	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 / 550	24 / 550
	46	Engine, make-model		Cummins QSB6.7-155	Cummins QSB6.7-155
	47	Output per SAE standards	hp (kW)	155 (116)	155 (116)
	48	Governed speed NL	RPM	2500	2500
	49	Cycle / No. cylinders / displacement	cu.in.(cm ³)	4 / 6 / 409 (6702)	4 / 6 / 409 (6702)
	51	Clutch type, powershift		Torque Converter	Torque Converter
	51	Gear change type		MONOTROL	MONOTROL
	52	Number of speeds, forward / reverse		3 / 3	3 / 3
53	Transmission type		Powershift	Powershift	
54	Relief pressure for attachments	psi (kPA)	2,800 (19,300)	2,800 (19,300)	

* **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.

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Hyster H300-330HD Lift Truck Specifications

GENERAL	1	Manufacturer		Hyster Company	Hyster Company
	2	Model		H300HD	H330HD
	3	Capacity, rated	lb. (kg)	30,000 (13600)	33,000 (15000)
	4	Load center	in. (mm)	24.0 (600)	24.0 (600)
	5	Engine / 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)	213 (5411)	213 (5411)
	13	Forks, width / thickness	in. (mm)	8 (203) / 3.5 (89)	8 (203) / 3.5 (89)
	14	Tilt angle, standard mast forward / backward	Deg. °	15 / 12	15 / 12
	15	Length to face of forks	in. (mm)	197 (5004)	197 (5004)
	16	Width, standard tires	in. (mm)	103.03 (2617)	103.03 (2617)
	17	Height, standard mast lowered	in. (mm)	176 (4453)	176 (4453)
	18	Height, std. mast extended with / without LBE	in. (mm)	281 (7118)	281 (7118)
	19	Turning radius, minimum outside / inside	in. (mm)	180.3 (4580) / 17.7 (450)	180.3 (4580) / 17.7 (450)
	20	Length, center drive axle to face of forks	in. (mm)	33.31 (847)	33.31 (847)
	22	Equal Intersecting Aisle (W=72 in., L=72 in.)	in. (mm)	214.2 (5441)	214.2 (5441)

PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES	YES
	24	Travel speed RL / NL	mph (km/h)	15.1 (24.3) / 16.5 (26.5)	15.1 (24.3) / 16.5 (26.5)
	25	Lift speed, standard mast RL / NL	ft/min (m/s)	58 (.29) / 87 (.44)	58 (.29) / 87 (.44)
	26	Lowering, standard mast RL / NL	ft/min (m/s)	94 (.47) / 86 (.43)	94 (.47) / 86 (.43)
	27	Drawbar pull, 1 mph RL / NL	lbf. (kN)	21856 (9980) / 11551 (5250)	21192 (9633) / 11888 (5463)
	28	Gradeability, 1 mph RL / NL	%	36 / 33	31 / 33

WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	38757 (17617)	39303 (17828)
	31	Axle loading, static-RL front / rear	lb. (kg)	64282 (29219) / 4475 (2034)	40158 (21284) / 5194 (2361)

TIRES & WHEELS	32	Number of tires, drive (front) / steer (rear)		4 / 2	4 / 2
	33	Size of tires, drive (front)		12.00-20 16PLY	12.00-20 16PLY
	34	Size of tires, steer (rear)		12.00-20 16PLY	12.00-20 16PLY
	35	Wheelbase	in. (mm)	129.9 (3 300)	129.9 (3 300)
	36	Tread, center of tires, steer / drive	in. (mm)	78.74 (2001) / 89.6 (2276)	78.74 (2001) / 89.6 (2276)
	37	Ground clearance, lowest point NL	in. (mm)	8.12 (206)	8.94 (227)
	38	Ground clearance, center wheelbase NL	in. (mm)	12.8 (329)	13.6 (346)

POWERTRAIN	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 / 550	24 / 550
	46	Engine, make-model		Cummins QSB6.7-155	Cummins QSB6.7-155
	47	Output per SAE standards	hp (kW)	155 (116)	155 (116)
	48	Governed speed NL	RPM	2500	2500
	49	Cycle / No. cylinders / displacement	cu.in.(cm ³)	4 / 6 / 409 (6702)	4 / 6 / 409 (6702)
	51	Clutch type, powershift		Torque Converter	Torque Converter
	51	Gear change type		MONOTROL	MONOTROL
	52	Number of speeds, forward / reverse		3 / 3	3 / 3
53	Transmission type		Powershift	Powershift	
54	Relief pressure for attachments	psi (kPA)	2,800 (19 300)	2,800 (19 300)	

* **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.

† **NOTE:** Performance specifications/ratings are for truck equipped as described under Standard Equipment in this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and you should discuss the proposed application with your authorized Hyster Dealer.

Hyster H360HD Lift Truck Specifications

GENERAL	1	Manufacturer	Hyster Company	
	2	Model	H360HD	
	3	Capacity, rated	lb. (kg)	36,000 (16400)
	4	Load center	in. (mm)	24.0 (600)
	5	Engine / Power type		Diesel
	6	Operator type		Sit
	7	Tire type, front / rear		Pneumatic
	8	Wheels, front / rear	(X=drive)	4X / 2

DIMENSIONS	10	2-stg. VISTA mast (Top of Forks)	in. (mm)	213 (5411)
	13	Forks, width / thickness	in. (mm)	8 (203) / 3.5 (89)
	14	Tilt angle, standard mast forward / backward	Deg. °	15 / 12
	15	Length to face of forks	in. (mm)	197 (5004)
	16	Width, standard tires	in. (mm)	103.03 (2617)
	17	Height, standard mast lowered	in. (mm)	176 (4453)
	18	Height, std. mast extended with / without LBE	in. (mm)	281 (7118)
	19	Turning radius, minimum outside / inside	in. (mm)	180.3 (4580) / 17.7 (450)
	20	Length, center drive axle to face of forks	in. (mm)	33.31 (847)
	22	Equal Intersecting Aisle (W=72 in., L=72 in.)	in. (mm)	290.3 (7373)

PERFORMANCE †	23	Stability (Comply with ANSI?) *		YES
	24	Travel speed RL / NL	mph (km/h)	15.1 (24.3) / 16.5 (26.5)
	25	Lift speed, standard mast RL / NL	ft/min (m/s)	58 (.29) / 87 (.44)
	26	Lowering, standard mast RL / NL	ft/min (m/s)	94 (.47) / 86 (.43)
	27	Drawbar pull, 1 mph RL / NL	lbf. (kN)	18401 (4727) / 17709 (8049)
	28	Gradeability, 1 mph RL / NL	%	28 / 31

WT.	30	Weight, total approximate, std. truck config.	lb. (kg)	42483 (19310)
	31	Axle loading, static-RL front / rear	lb. (kg)	72910 (33141) / 5573 (2533)

TIRES & WHEELS	32	Number of tires, drive (front) / steer (rear)		4 / 2
	33	Size of tires, drive (front)		12.00-20 16PLY
	34	Size of tires, steer (rear)		12.00-20 16PLY
	35	Wheelbase	in. (mm)	129.9 (3 300)
	36	Tread, center of tires, steer / drive	in. (mm)	78.74 (2001) / 8.94 (227)
	37	Ground clearance, lowest point NL	in. (mm)	7.01 (178)
	38	Ground clearance, center wheelbase NL	in. (mm)	13.6 (346)

POWERTRAIN	39	Brakes, method of control, service / parking		air / spring
	40	Brakes, method of operation, service / parking		foot / pull button
	42	Battery, volts / cold cranking amps	V (amps)	24 / 550
	46	Engine, make-model		Cummins QSB6.7-155
	47	Output per SAE standards	hp (kW)	155 (116)
	48	Governed speed NL	RPM	2500
	49	Cycle / No. cylinders / displacement	cu.in.(cm3)	4 / 6 / 409 (6702)
	51	Clutch type, powershift		Torque Converter
	51	Gear change type		MONOTROL
	52	Number of speeds, forward / reverse		3 / 3
53	Transmission type		Powershift	
54	Relief pressure for attachments	psi (kPA)	2,800 (19 300)	

* **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.

† **NOTE:** Performance specifications/ratings are for truck equipped as described under Standard Equipment in this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature and condition of the operating area. Specifications are subject to change and you should discuss the proposed application with your authorized Hyster Dealer.

Hyster H190-360HD Lift Truck Specifications

H190-210HD, 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 lb. (kg)	H210HD lb. (kg)
2-STAGE NO FREE-LIFT (NO FL) VISTA®					
147.5 (3 751)	132.0 (3 353)	204.6 (5 196)	—	25,641 (11 631)	26,920 (12 211)
183.0 (4 651)	150.0 (3 803)	240.0 (6 096)	—	25,981 (11 786)	27,260 (12 366)
212.5 (5 401)	164.5 (4 178)	269.5 (6 846)	—	26,376 (11 964)	27,655 (12 544)
3-STAGE VISTA®					
220.0 (5 590)	119.9 (3 045)	276.8 (7 030)	56.1 (1 425)	29,154 (13 225)	30,433 (13 805)
235.8 (5 990)	125.1 (3 178)	292.5 (7 430)	61.3 (1 558)	29,377 (13 326)	30,656 (13 906)
255.5 (6 490)	131.7 (3 345)	312.2 (7 930)	67.9 (1 725)	29,655 (13 452)	30,934 (14 032)
275.1 (6 990)	138.3 (3 511)	231.9 (8 430)	74.4 (1 891)	29,933 (13 578)	31,212 (14 158)

H230-280HD, 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 lb. (kg)	H250HD lb. (kg)	H280HD lb. (kg)
2-STAGE NO FREE-LIFT (NO FL) VISTA®						
148.0 (3 761)	143.0 (3 628)	215.3 (5 468)	—	30,332 (13 759)	30,828 (13 984)	33,952 (15 401)
183.5 (4 661)	161.0 (4 078)	250.7 (6 368)	—	30,808 (13 975)	31,304 (14 200)	34,428 (15 617)
213.0 (5 411)	175.5 (4 453)	280.3 (7 118)	—	31,307 (14 201)	31,803 (14 426)	34,927 (15 842)
244.0 (6 205)	191.0 (4 853)	311.7 (7 918)	—	31,681 (14 371)	31,429 (14 257)	34,553 (15 674)
3-STAGE VISTA®						
220.4 (5 600)	119.9 (3 045)	276.8 (7 073)	56.5 (1 435)	32,312 (14 657)	32,808 (14 882)	35,932 (16 299)
236.2 (6 000)	125.1 (3 178)	292.5 (7 430)	61.7 (1 568)	32,535 (14 759)	33,031 (14 984)	36,155 (16 401)
255.9 (6 500)	131.7 (3 345)	312.2 (7 930)	68.3 (1 735)	32,813 (14 885)	33,309 (15 110)	36,433 (16 527)
275.5 (7 000)	138.3 (3 511)	331.9 (8 430)	74.8 (1 901)	33,091 (15 011)	33,587 (15 236)	36,711 (16 653)

H300-360HD, 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 lb. (kg)	H330HD lb. (kg)	H360HD lb. (kg)
2-STAGE NO FREE-LIFT (NO FL) VISTA®						
147.5 (3 747)	143.5 (3 641)	215.4 (5 470)	—	36,408 (16 515)	38,957 (17 672)	40,908 (18 557)
183.0 (4 648)	161.0 (4 091)	250.8 (6 370)	—	37,042 (16 803)	39,591 (17 959)	41,542 (18 844)
212.5 (5 398)	176.0 (4 466)	280.3 (7 120)	—	37,684 (17 094)	40,233 (18 249)	42,184 (19 134)
244.0 (6 200)	192.0 (4 866)	311.8 (7 920)	—	38,168 (17 313)	40,717 (18 470)	42,668 (19 355)
3-STAGE VISTA®						
173.2 (4 400)	120.9 (3 070)	239.4 (6 080)	54.7 (1 390)	38,135 (17 299)	40,684 (18 455)	42,635 (19 340)
196.8 (5 000)	128.8 (3 270)	263.0 (6 680)	62.6 (1 590)	38,407 (17 422)	40,956 (18 578)	42,907 (19 463)
236.2 (6 000)	141.8 (3 600)	302.4 (7 680)	75.6 (1 920)	38,861 (17 628)	41,410 (18 784)	43,361 (19 669)
275.6 (7 000)	155.1 (3 940)	341.7 (8 680)	88.5 (2 250)	39,756 (18 034)	42,305 (19 190)	44,256 (20 075)

Hyster H190-360HD Lift Truck Specifications

MODEL	A	B	C	D	E	F	G
	in. (mm)						
H190HD	116.8 (2967)	119.4 (3 033)	72.3 (1 837)	70.0%	25.7 (653)	31.8 (809)	46.5 (1 181)
H210HD	116.8 (2967)	119.4 (3 033)	72.3 (1 837)	70.0%	25.7 (653)	31.8 (809)	46.5 (1 181)
H230HD	116.8 (2967)	119.4 (3 033)	72.3 (1 837)	75.0%	25.7 (653)	31.8 (809)	46.5 (1 181)
H250HD	116.8 (2967)	119.4 (3 033)	72.3 (1 837)	75.0%	25.7 (653)	31.8 (809)	46.5 (1 181)
H280HD	116.8 (2967)	119.4 (3 033)	72.3 (1 837)	75.0%	25.7 (653)	31.8 (809)	46.5 (1 181)
H300HD	118.0 (2990)	120.6 (3 064)	74.7 (1 899)	86.9%	26.9 (684)	31.8 (809)	46.5 (1 181)
H330HD	118.0 (2990)	120.6 (3 064)	74.7 (1 899)	86.9%	26.9 (684)	31.8 (809)	46.5 (1 181)
H360HD	118.0 (2990)	120.6 (3 064)	74.7 (1 899)	86.9%	26.9 (684)	31.8 (809)	46.5 (1 181)

MODEL in. (mm)	STEP HEIGHT			
	S1	S2	S3	S4
H190HD	15.51 (394)	27.87 (708)	40.24 (1 022)	52.60 (1 336)
H210HD	15.51 (394)	27.87 (708)	40.24 (1 022)	52.60 (1 336)
H230HD	15.51 (394)	27.87 (708)	40.24 (1 022)	52.60 (1 336)
H250HD	15.51 (394)	27.87 (708)	40.24 (1 022)	52.60 (1 336)
H280HD	15.51 (394)	27.87 (708)	40.24 (1 022)	52.60 (1 336)
H300HD	18.07 (420)	30.09 (764)	42.11 (1 070)	54.13 (1 375)
H330HD	18.07 (420)	30.09 (764)	42.11 (1 070)	54.13 (1 375)
H360HD	18.07 (420)	30.09 (764)	42.11 (1 070)	54.13 (1 375)

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

*FP - Fork Positioner

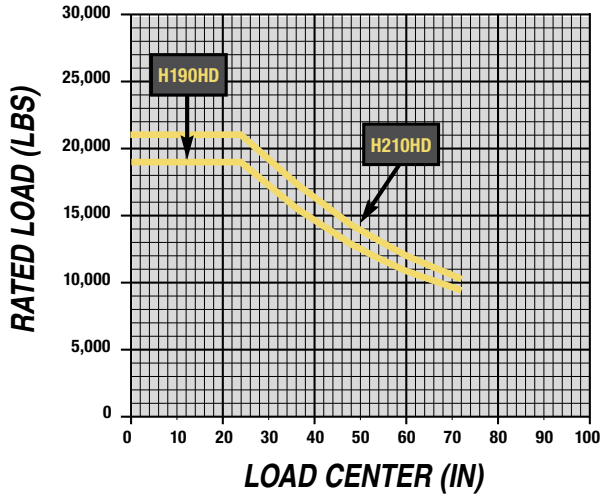
**SSFP - Sideshift Fork Positioner

***DFSSFP - Dual Function Sideshift Fork Positioner

Hyster H190-210HD Lift Truck Rated Capacities

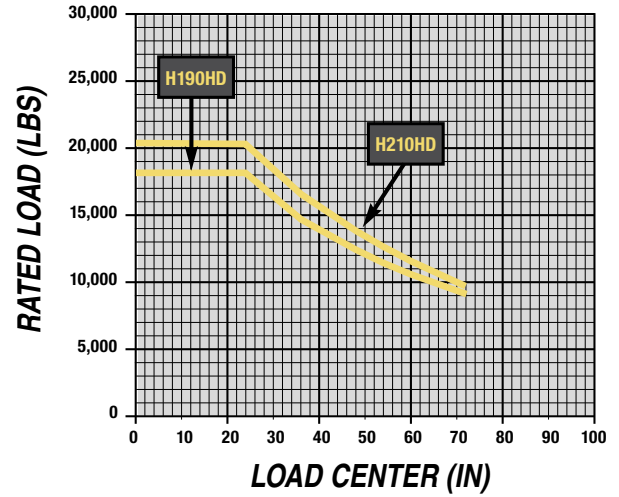
RATED LOAD VS. LOAD CENTER

Standard Pin Carriage
U.S. CUSTOMARY



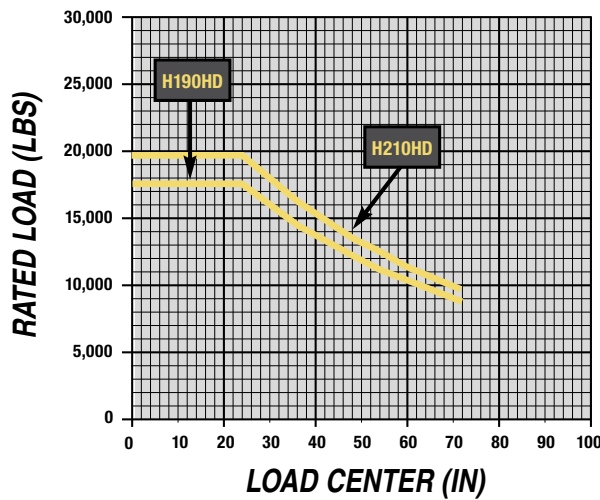
RATED LOAD VS. LOAD CENTER

Non-Sideshift Fork Positioning Carriage
U.S. CUSTOMARY



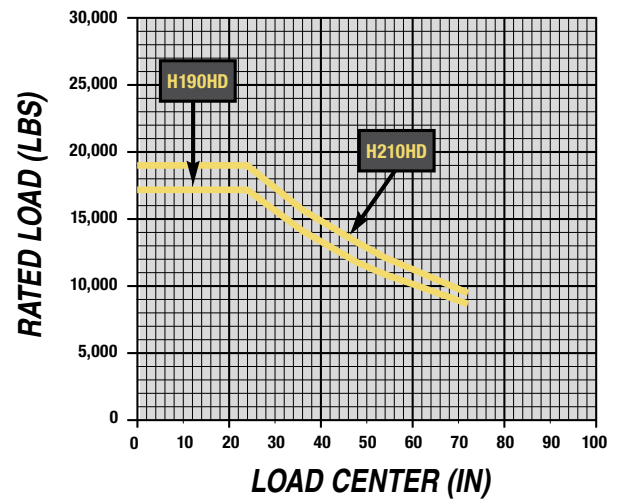
RATED LOAD VS. LOAD CENTER

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

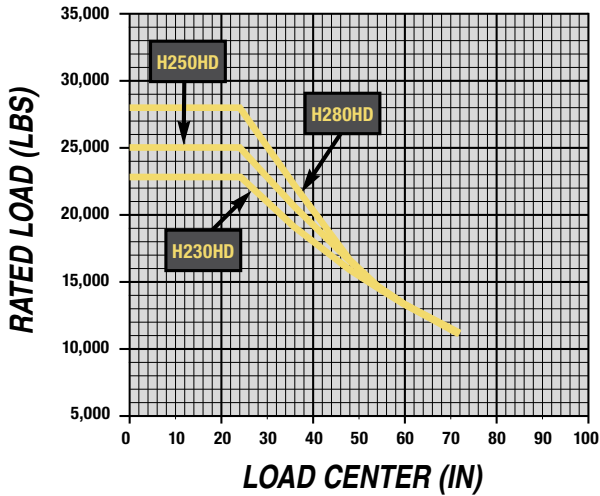


Conversion Factor: 1.0" = 25.4 mm; 1 lb = 0.45 kg

Hyster H230-280HD Lift Truck Rated Capacities

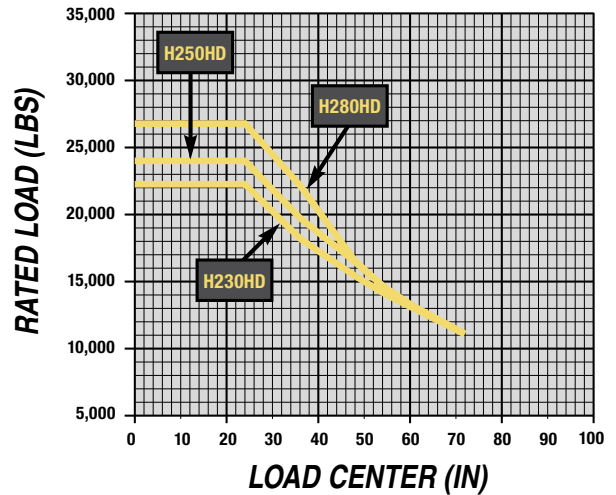
RATED LOAD VS. LOAD CENTER

Standard Pin Carriage
U.S. CUSTOMARY



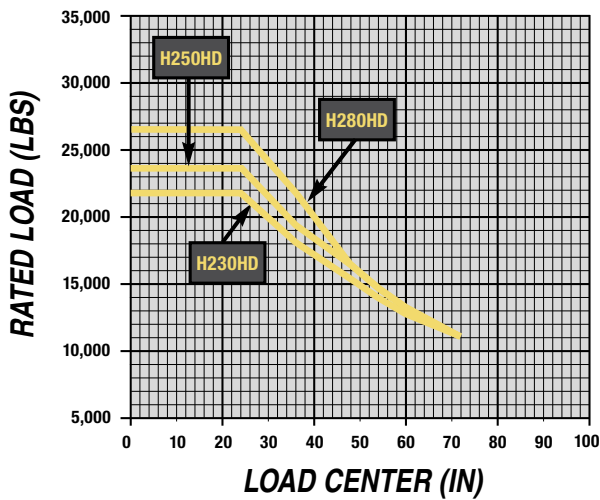
RATED LOAD VS. LOAD CENTER

Non-Sideshift Fork Positioning Carriage
U.S. CUSTOMARY



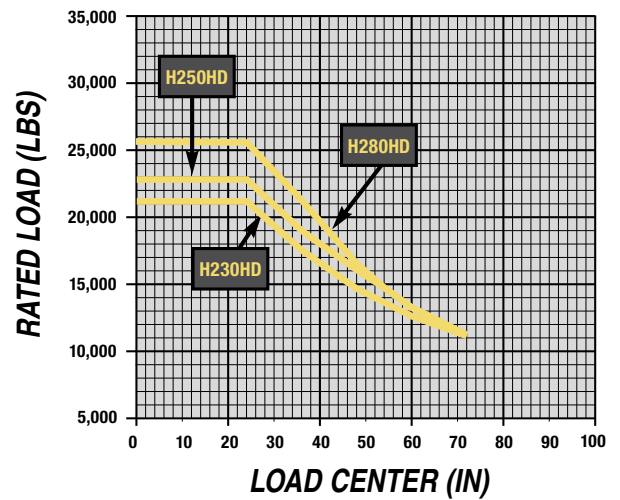
RATED LOAD VS. LOAD CENTER

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

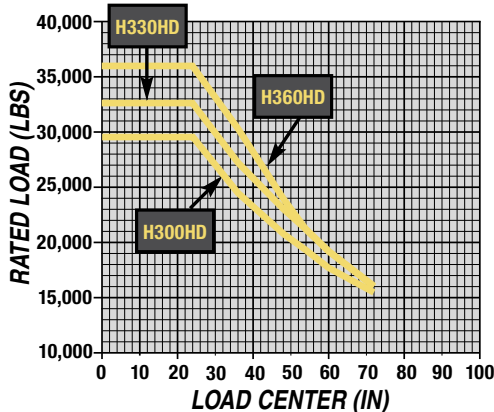


Conversion Factor: 1.0" = 25.4 mm; 1 lb = 0.45 kg

Hyster H300-360HD Lift Truck Rated Capacities

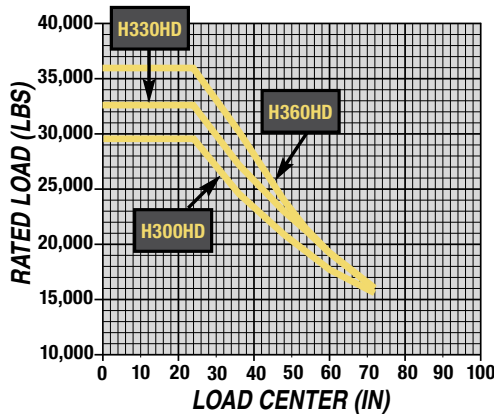
RATED LOAD vs. LOAD CENTER

Non-Sideshift Fork
Positioning Carriage
U. S. CUSTOMARY



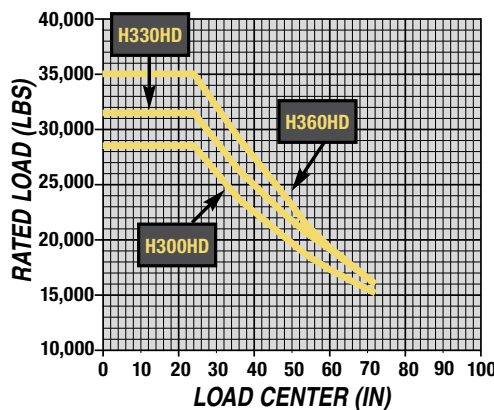
RATED LOAD vs. LOAD CENTER

Non-Sideshift Fork
Positioning Carriage
U. S. CUSTOMARY



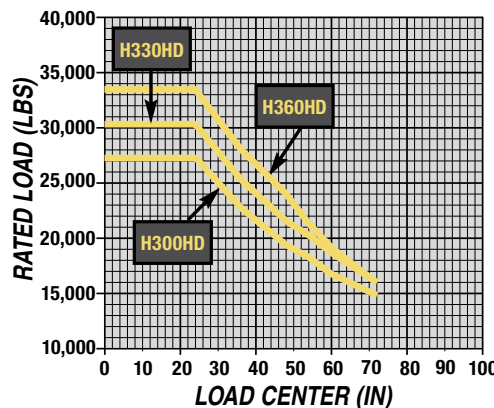
RATED LOAD vs. LOAD CENTER

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

Hyster H190-360HD Standard Features and Options

CAPACITY

- 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® mast to 212.5" (5 398 mm) (H190-210HD), 213.0" (5 411mm) (230-280HD), 212.5" (5 398mm) (H300-360HD) maximum fork height
- 92.5" (2 350 mm) (H190-280HD) & 98.5" (2 502 mm) (H300-360HD) carriage
- 48.0" (1 219 mm) (H190-280HD) & 72.0" (1 829 mm) (H300-360HD) long forks as required

Contact your dealer for other capacity information.

STANDARD EQUIPMENT

Hyster H190-360HD trucks are equipped with: low-emissions, Cummins turbo-charged diesel engine • 70 amp alternator • overhead exhaust • Hyster 3-speed autoshift transmission • telescopic, tilt steering wheel • planetary drive axle • air with air system drier • 212.5" (5 398 mm) 2-stage no FL VISTA® mast • 92.5" (2 350 mm) (H190-280HD), 98.5" (2 502 mm) (H300-360HD) pin-type carriage • 48.0" (1 219 mm) (H190-280HD), 72.0" (1 829 mm) (H300-360HD) forks • 2 brake w/backup lights • puller engine fan • MONOTROL™ pedal • side view mirrors • horn • operator restraint system • 12 volt auxiliary power source • 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 20-20 PR premium SuperLug off road tires (190-280HD) • 12.00 x 20-16 PR premium SuperLug off road tires (300-360HD) • integral air precleaner • U.L. Classification D

Optional equipment includes:

Lever directional control • spinner knob • solid or radial tires • wet disc brakes • ComforCab II features: electric wiper & windshield washers-front, rear & top; heater & defroster; 3-speed fan; additional circulation fan; intermittent front wiper; tinted, curved glass; steel frame 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 • 20.5° forward / 7° back mast tilt (2-stage) • 15° forward / 10° back mast tilt (2 & 3-stage) • 5° forward / 6° back mast tilt (3-stage) • various light packages • turn signals • amber strobe light • back-up alarm • exhaust aspirated air precleaner • SkyKlone 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 (H190-280HD) • variable fork lengths • powered operator compartment side tilt for service access

SPECIFICATIONS

Hyster H190-360HD 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

Pin-type; 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: 98.11" (2 492 mm) for the H190-280HD. Overall width for the H300-360HD is 102.62" (2 667 mm)

Minimum inside-to-inside fork spacing - model and attachment dependent: ranges from 2.9" - 5.5" (75 mm - 140 mm)

Maximum outside-to-outside fork spacing - model and attachment dependent: ranges from 85.6" - 95.2" (2 176 mm - 2 420 mm)

FORKS

2.5" x 8.0" x 48.0" - 60.0" (64 x 203 x 1 219 - 1 524 mm) pallet forks for H190-210HD

2.5" x 8.0" x 48.0" - 72.0" (64 x 203 x 1 219 - 1 829 mm) pallet forks for H190HD

3.0" x 8.0" x 48.0" - 96.0" (76 x 203 x 1 219 - 2 438 mm) pallet forks for H190-280HD

3.0" x 8.0" x 48.0" - 72.0" (76 x 203 x 1 219 - 1 829 mm) polished and tapered forks for H190-280HD

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 H190-280HD

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

U.L. Classification D Cummins QSB6.7-155 turbocharged engine features:

- 4 cycle; 6 cylinders; 409 cu. in. (6702 cm³) displacement
- 4.02" (102 mm) bore
- 4.72" (120 mm) stroke
- U.L. Classification D
- Maximum torque is 425 ft.lbs. (576 N • m) at 1,500 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
- Standard autoshift transmission features a programmable controller that is protected by an airtight enclosure
- Standard steer column mounted lever provides the operator the option of manual shift capabilities
- A dash-mounted indicator light displays transmission mode status

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 transvers 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
- Standard air brakes with air system dryer and wet brake system also available

OPERATOR AREA

- Instruments are in line of sight
- Ergonomically designed hydraulic controls and high/low range control lever are within easy reach
- Three 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
- Telescopic, tilt steer column
- Supportive mechanical full-suspension seat adjusts 8-inches (200 mm) for operator comfort
- Air suspension seat is optional
- Steel overhead guard frame provides excellent high-stacking visibility
- Operator Presence System (OPS) with complete hydraulic lock out requires the operator to be in the normal operating position before any travel or movement of the mast, tilt, carriage, and attachment can be initiated and that the travel or movement of the mast, tilt, carriage, and attachment is locked out when the operator leaves the seat for more than 2-3 seconds
- 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; 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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