



**STRONG PARTNERS.  
TOUGH TRUCKS.™**

## H170-190FT SERIES

SIT-DOWN, COUNTERBALANCED, IC, PNEUMATIC TIRE

**BRIGGS**  
EQUIPMENT MEXICO  
[info@BriggsEquipmentMexico.com](mailto:info@BriggsEquipmentMexico.com)  
55-9020-5042



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## H170-190FT SERIES

The H170-190FT Fortis® is more than a lift truck series. It represents a transformation in how lift trucks are designed, built and acquired. Drawing on Hyster Company's legacy of strength, durability and toughness, the H170-190FT series means owning an asset that's still going strong long after the day's work is done.

The H170-190FT is a versatile lift truck designed for indoor and outdoor use, ideally suited for a wide variety of applications such as lumber, steel, concrete, and car salvage. These trucks offer two Kubota diesel engines to optimize the powertrain to the needs of the application.



## ➤ DECREASE DOWNTIME BY UP TO 30%

Approximately 70% of industrial lift truck downtime results from problems with the powertrain, brakes, electrical system, cooling system or hydraulic system. With the H170-190FT, many of these mechanical issues become a thing of the past as design advances have reduced downtime by up to 30%.

### TOUGH POWERTRAIN

- Pacesetter VSM continuously monitors fluid levels and powertrain, reducing daily service checks and preventing major repairs.
- Transmission gears and shafts are up to 15% stronger to handle even the most demanding duty cycle.
- Electronically controlled powershift transmissions have state-of-the-art clutch packs that are stronger and larger and provide up to 3 times the life.
- Oil-cooled wet disc brakes provide excellent stopping power and extremely long service life. Brakes are completely sealed from water and dirt making them ready for your harshest environments.

### HASSLE-FREE HYDRAULICS

- Leak-free O-ring face seal fittings reduce leaks for enhanced reliability.
- A 10-micron high-performance in-tank filtration system captures 99.5% of hydraulic system debris, significantly extending component life.
- Smart placement of the control valve and hydraulic lines away from heat sources reduces operating temperature, extending the life of seals and hoses for unbeatable reliability.

### HEAVY DUTY MAST

- Masts are available in 2-stage limited free lift (LFL) and 2- or 3-stage full free lift (FFL) VISTA™ masts.
- Nested-channel design and full-radius, angled load rollers provides increased capacity at height while affording shorter overall length.
- The heavy duty mast option provides a solution for users in extreme applications that require heavy attachment use or frequently move maximum loads.

### INDUSTRIAL STRENGTH ELECTRONICS

- CANbus communications network reduces wiring complexity, providing superior dependability.
- Non-mechanical, Hall-Effect sensors and switches are designed to outlast the life of the truck.
- Proven tough, Pacesetter VSM industrial onboard computer manages truck operation to maintain world-class dependability to maximize uptime.
- IP66 sealed electrical connectors keep out water and debris, so you can power wash our trucks.
- Smart, one-way routing path for wire harnesses ensures consistent high-quality assembly while increasing durability and simplifying maintenance when needed.

### EXCEPTIONAL COOLING

- Standard combi-cooler radiator provides 3-row aluminum core for additional transmission oil cooling capacity for the most demanding and intensive applications.
- Soft rubber isolator mounted radiators increase reliability and durability to significantly extend service life.
- A superior counterweight tunnel design coupled with a “pusher” type fan and enhanced shroud design improves airflow and significantly reduces the recirculation of hot air to maximize cooling capabilities.
- An air-to-air intercooler enhances power and fuel efficiency.

## SERVICE AND MAINTENANCE

- Unmatched service access: Gull-wing hood door design offers superior service access to the engine compartment.
- Daily checks are easily accessed and performed.
- State-of-the-art onboard diagnostics reduce repair time and minimize expensive parts swapping.
- Kubota 3.8L DOC engine provides maintenance-free emissions—no need to add fluids or remove filters for cleaning.
- Easy-to-use onboard diagnostics through the advanced dash display provide fast and accurate troubleshooting for first-time fixes.
- Optional premium monitoring package reports air and hydraulic oil filter restrictions and low engine coolant levels.

*Easy access, daily service checks easily located and accessed, the integral dashboard display's onboard diagnostic capabilities and reduced service requirements significantly minimize service times to maximize uptime.*



## WORLD-CLASS EFFICIENCY

- Hyster® Variable Power Technology™, available on the Kubota 3.8L high output turbo diesel engine, provides adjustable performance modes that allow customers to boost productivity or fuel economy to fit their specific application requirements.
- Auto Deceleration System extends brake life by up to 60% by automatically slowing the truck when the accelerator pedal is released.
- Controlled power reversal feature virtually eliminates tire spin, increasing tire life by up to 50%. This feature is programmable to match the needs from delicate to more aggressive settings for maximum productivity.
- Electronic hydraulic control valve precisely manages hydraulic pressure and flow to supply exactly the right amount of power for each function, reducing fuel consumption.
- Kubota 3.8L EPA Certified Tier 4 Final DOC Turbodiesel Engine features 500 hour service intervals and provides excellent performance with advanced combustion technology that enhances fuel economy.
- The Kubota 3.8L DOC engine features a diesel oxidating catalyst for maintenance free emissions.
- Extended transmission and hydraulic fluid change intervals.

## > ERGONOMICS

The Fortis® series features an ergonomically designed compartment that plays a big role to enhance overall productivity. Superior ergonomic features like ample leg room, 2 choices of hydraulic controls, an infinitely adjustable steer column, integrated dashboard display, 12-inch steering wheel with spinner knob, Auto Deceleration System, 4 choices of seats and optional rear drive handle and EZXchange bracket enable your operator to maximize productivity.

### FATIGUE-REDUCING OPERATOR COMPARTMENT

- Low noise level at the operator's ear lessens driver fatigue, improving driver satisfaction for an overall increase in productivity.
- Isolated drivetrain minimizes the effect of powertrain vibration and road-born shocks to increase operator comfort all shift long.
- Rear drive handle mounted on overhead guard leg (optional) provides an excellent hand hold for reverse driving while giving ready access to the auxiliary horn button for use when approaching cross-aisles and pedestrian traffic areas.
- An infinitely adjustable steer column and optional full suspension swivel seat assures the right fit for any operator.
- Advanced dash display uses a non-reflective, backlit LCD screen and 21 indicator lights provide performance at-a-glance in all lighting conditions.
- Easy-to-use 3-point entry design of operator compartment uses a large molded hand grip and open non-slip steps with a low step height to minimize muscle/joint strain during entry/exit.
- Adjustable armrest that accompanies the TouchPoint e-hydraulic control moves with the seat and telescopes forward/vertical in one simple movement to provide greater flexibility in achieving a more custom position.
- Improved brake pedal layout and the reduced braking requirements of the Auto Deceleration System significantly reduce operator fatigue.
- 12-inch steering wheel with spinner knob improves steering response, increasing control and efficiency while minimizing shoulder strain with only 4 turns lock-to-lock.
- Choice of 4 different seats enables a more customizable level of operator comfort by its enhanced design and adjustable features.
- Increased shoulder clearance – a result of the redesigned overhead guard and more floor space – gives operators greater foot room.



*TouchPoint E-hydraulic mini-lever controls*



*Optional cab shown*



*Ergonomically designed operator compartment*

The H170-190FT series is configured to provide the right lift truck for your application. Our truck packages with multiple powertrain combinations to choose from assure your cost of operations will be lowered. Each configuration offers improved efficiency, advanced dependability and simple serviceability.

- The high output engine, performance transmission, hydraulic controls and cooling system allows you to optimize productivity in your application.
- Both the Kubota 3.8L EPA Certified Tier 4 Final DOC Turbodiesel Engine and optional Kubota 3.8L EPA Certified Tier 4 Final High Output Turbodiesel Engine feature an electronically controlled, high-pressure common-rail fuel system that controls combustion rate to improve fuel efficiency and reduce noise.
- Pacemaker VSM industrial onboard computer enables you to adjust and optimize the performance of your H170-190FT trucks.
- Patented DuraMatch™ transmission provides breakthrough features that include the Auto Deceleration System, controlled rollback on ramps, controlled power reversals to move loads more efficiently with less operator fatigue and product damage.
- With the exceptional cooling and its ability for extended drawbar pull, the H170-190FT series will continue to perform when competitor's lift trucks may fail.

Available on the Kubota 3.8L high output turbo diesel engine, **Hyster® Variable Power Technology™** provides adjustable performance modes that allow customers to maximize productivity or fuel economy to fit their specific application requirements. With selectable performance modes, the H170-190FT series can be tailored to achieve a balance of enhanced performance and superior fuel economy, or to boost productivity during peak business periods when moving more loads is integral to the success of your operation.

## WHICH ENGINE IS RIGHT FOR YOUR APPLICATION?

<i>Engine Type</i>	<i>Fuel Type</i>	<i>Horsepower</i>	<i>Torque at rated RPM</i>	<i>EPA Emissions Compliant</i>	<i>Service levels</i>	<i>Maintenance-free emissions</i>	<i>Cast iron block and cylinder heads</i>	<i>Deep skirt engine block</i>	<i>Turbo charged</i>	<i>Air to air intercooler</i>	<i>Replaceable exhaust valve seat inserts</i>	<i>4-valves per cylinder</i>	<i>Diesel oxidation catalyst</i>	<i>Diesel particulate filter</i>	<i>Selective Catalytic Reduction (SCR) system</i>	<i>Maximum Productivity</i>
Kubota 3.8L High Output (82kW)	Diesel	110 @ 2400 RPM	373 (275) @ 1600 RPM	•	500	•	•	•	•	•	•	•	•	•	•	•
Kubota 3.8L DOC (55kW)	Diesel	74 @ 2200 RPM	227 (309) @ 1400 RPM	•	500	•	•	•	•	•	•	•	•			



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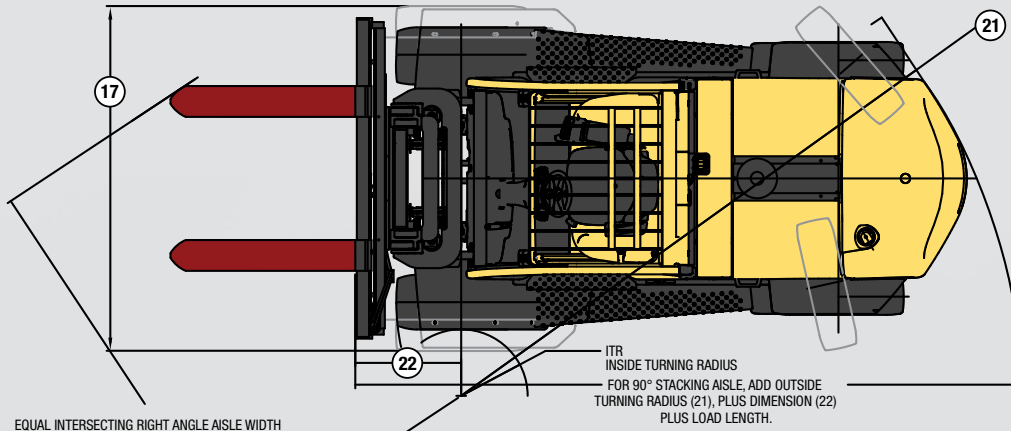
EQUIPMENT MEXICO

[info@BriggsEquipmentMexico.com](mailto:info@BriggsEquipmentMexico.com)

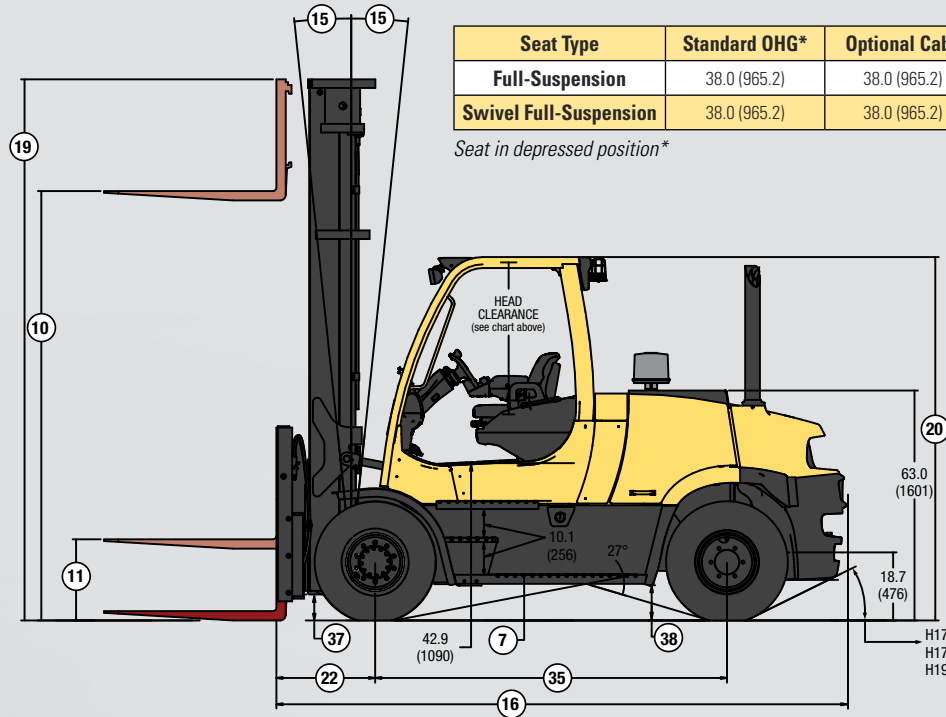
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## H170-190FT SERIES TECHNICAL GUIDE

# > H170-190FT DIMENSIONS



EQUAL INTERSECTING RIGHT ANGLE AISLE WIDTH



Seat Type	Standard OHG*	Optional Cab*
Full-Suspension	38.0 (965.2)	38.0 (965.2)
Swivel Full-Suspension	38.0 (965.2)	38.0 (965.2)

Seat in depressed position\*

## H170-190FT MAST DIMENSIONS

Maximum Fork Height (TOF)	Overall Lowered Height	Overall Extended Height		Free-Lift (TOF)		Approx. Total Wt. of Std. Equipped Truck		
		w/ LBR	w/o LBR	w/ LBR	w/o LBR	H170 (NL)	H175FT (NL)	H190FT (NL)
in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	in (mm)	lbs (kg)	lbs (kg)	lbs (kg)
<b>2-STAGE LIMITED FREE-LIFT (LFL) MAST</b>								
140 (3565)	117 (2962)	191 (4850)	186 (4725)	4 (105)	4 (105)	23361 (11050)	26592 (12062)	25395 (11519)
179 (4565)	137 (3462)	231 (5850)	226 (5725)	4 (105)	4 (105)	24590 (11154)	26821 (12166)	25624 (11623)
219 (5565)	156 (3962)	270 (6850)	265 (6725)	4 (105)	4 (105)	24822 (11259)	27053 (12271)	25856 (11728)
<b>3-STAGE FULL FREE-LIFT (FFL) MAST</b>								
181 (4615)	107 (2702)	240 (6077)	235 (5952)	56 (1440)	61 (1565)	25216 (11438)	27447 (12450)	26250 (11907)
234 (5965)	125 (3152)	293 (7427)	288 (7302)	74 (1890)	79 (2015)	25527 (11579)	27758 (12591)	26561 (12048)
<b>HEAVY DUTY 2-STAGE LIMITED FREE-LIFT (LFL) MAST</b>								
179 (4565)	137 (3462)	231 (5850)	226 (5725)	4 (105)	4 (105)	24943 (11314)	27174 (12326)	25977 (11783)
219 (5565)	156 (3962)	270 (6850)	265 (6725)	4 (105)	4 (105)	25344 (11496)	27575 (12508)	26378 (11965)
<b>HEAVY DUTY 3-STAGE FULL FREE-LIFT (FFL) MAST</b>								
258 (6565)	133 (3362)	317 (8037)	312 (7912)	82 (2090)	87 (2215)	26052 (11817)	33711 (15291)	27086 (12286)

RL = Rated Load NL = No Load

Note: H170-190FTX use standard 8.25 x 15 x 14 PR pneumatic drive tires @ 82.0 inch (2082 mm) overall width.

# H170-190FT SPECIFICATIONS

		Hyster Company						
		H170FT		H175FT		H190FT		
GENERAL	1 Manufacturer	Hyster Company						
	2 Model	H170FT		H175FT		H190FT		
	3 Engine	Kubota 3.8L 55kW	Kubota 3.8L 82kW	Kubota 3.8L 55kW	Kubota 3.8L 82kW	Kubota 3.8L 55kW	Kubota 3.8L 82kW	
	4 Rated Capacity	lb (kg)	17,000 (8,000)		17,500 (8,000)		19,000 (9,000)	
	5 Load Center, Distance	in (mm)	24 (600)		36 (900)		24 (600)	
	6 Engine/Power Type - Gasoline, LPG, Diesel		Diesel					
	7 Operator Type		Seated Rider					
	7a Step Height (from ground to running board)	in (mm)	12.6 (321)					
	7b Step Height (from running board to operator station)		10.1 (256)					
	8 Tire Type - Cushion, Solid, Pneumatic		Pneumatic					
DIMENSIONS	9a Wheels, Number - Front/Rear (X = driven)		4X/2					
	9b Track Width, Front	in (mm)	78.9 (2003)					
	9c Track Width, Rear	in (mm)	60.4 (1535)					
	10 Lift Height, w/LBR (TOF) (Rounded Down)	in (mm)	219 (5565)					
	11 Std Free Lift Height (TOF) (Rounded Down)	in (mm)	4 (105)					
	12 Standard Carriage Width	in (mm)	80 (2030) <sup>1</sup>					
	13 Standard Forks, Thickness x Width x Length	in (mm)	2.8 x 7.9 x 47.2 (65x200x1200)					
	14a Standard Fork Speed, Maximum Outside Dimensions	in (mm)	78.3 (1990)					
	14b Standard Fork Speed, Minimum Inside Dimensions	in (mm)	2.6 (65)					
	15 Mast Tilt, Forward/Backward	degrees	5/9 <sup>2</sup>					
PERFORMANCE	16 Overall Length to Face of Forks <sup>1</sup>	in (mm)	153 (3897)		159 (4038)		156 (3958)	
	17 Overall Width	in (mm)	88 (2239)					
	18 Height, Standard Mast - Lowered	in (mm)	156 (3962)					
	19a Height, Standard Mast - Extended w/o LBR (Rounded Up)	in (mm)	266 (6739)					
	19b Height, Standard Mast - Extended w/LBR (Rounded Up)	in (mm)	270 (6847)					
	20a Height, Standard Overhead Guard (High) (Rounded Up)	in (mm)	100 (2531)					
	20b Height, Standard Overhead Guard (Cab) (Rounded Up)	in (mm)	101 (2549)					
	21a Turning Radius, Minimum Outside (OTR)	in (mm)	145 (3673)		149 (3794)		147 (3723)	
	21b Turning Radius, Minimum Inside (ITR)	in (mm)	14.3 (362)					
	22 Length, Center of Wheels to Face of Forks <sup>2</sup>	in (mm)	24.2 (613.5)					
WT.	23a Aisle Width, Right Angle Stack (pallet w=42in, L=48in)	in (mm)	216.2 (5491)		221.0 (5613)		218.2 (5542)	
	23b Aisle Width, Right Angle Stack (Add Length of Load)	in (mm)	168.2 (4272)		173.0 (4394)		170.2 (4323)	
	24 90-Degree Intersecting Aisle (pallet W=42", L=48" Load)	in (mm)	120.2 (3053)		122.9 (3122)		121.3 (3081)	
	25a Travel Speed Fwd, RL/NL	mph (km/h)	12.0/13.1 (19.3/21.1)	13.4/14.5 (21.5/23.3)	11.9/13.1 (19.1/21.0)	13.3/14.4 (21.5/23.2)	11.9/13.0 (19.2/21.0)	13.4/14.4 (21.5/23.2)
	25c Travel Speed Rev, RL/NL	mph (km/h)	11.9/12.8 (19.1/20.5)	10.7/11.6 (17.2/18.6)	11.8/12.7 (19.0/20.5)	10.6/11.5 (17.1/18.6)	11.8/12.7 (19.1/20.5)	10.7/11.5 (17.2/18.5)
	26a Lift Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	67/67 (.34/.34)	89/89 (.45/.34)	64/67 (.32/.34)	86/89 (.44/.34)	54/67 (.27/.34)	78/89 (.40/.34)
	26b Lift Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	64/67 (.33/.34)	87/89 (.44/.34)	61/67 (.31/.34)	84/89 (.43/.34)	50/67 (.26/.34)	75/89 (.38/.34)
	27a Lowering Speed, Standard 2-Stage LFL RL/NL	ft/min (m/s)	81/73 (.41/.37)					
	27b Lowering Speed, Optional 3-Stage FFL RL/NL	ft/min (m/s)	77/65 (.39/.33)					
	28a Drawbar Pull @ Maximum RL/NL	lb (kg)	12000/7213 (5443/3272)	12000/7213 (5443/3272)	12000/7213 (5443/3272)	12000/7213 (5443/3272)	12000/7213 (5443/3272)	12000/7213 (5443/3272)
28b Drawbar Pull @ 1 mph RL/NL	lb (kg)	11445/7213 (5192/3272)	12000/7213 (5443/3272)	11401/7213 (5171/3272)	12000/7213 (5443/3272)	11433/7213 (5186/3272)	12000/7213 (5443/3272)	
28d Drawbar Pull @ 3 mph RL/NL	lb (kg)	4444/7213 (2016/3272)	8034/7213 (3644/3272)	4399/7213 (1996/3272)	7989/7213 (3624/3272)	4431/7213 (2010/3272)	8021/7213 (3638/3272)	
29a Maximum Gradeability RL/NL	%	29/29	29/29	27/29	27/29	27/29	27/29	
29b Gradeability @ 1 mph RL/NL	%	27/29	29/29	26/29	27/29	25/29	27/29	
29d Gradeability @ 3 mph RL/NL	%	11/29	19/29	10/29	18/29	10/29	18/29	
WHEELS/TIRES	30a Weight, Standard Truck NL	lb (kg)	24824 (11260)		26782 (12148)		25857 (11729)	
	30b Weight, Standard Truck RL	lb (kg)	41824 (18971)		44280 (20085)		44857 (20347)	
	31a Axle Loading, Static Front/Rear NL	lb (kg)	12022/12800 (5453/5806)		11367/15415 (5156/6992)		11693/14162 (5304/6424)	
	31b Axle Loading, Static Front/Rear RL	lb (kg)	37509/4314 (17014/1957)		39778/4502 (18043/2042)		40179/4678 (18225/2122)	
	32 Tire Size, Front		8.25 X 15 14PR					
	33 Tire Size, Rear		8.25 X 15 14PR					
	34 Wheelbase	in (mm)	96.5 (2450)					
	35 Ground Clearance Under Mast, RL	in (mm)	6.4 (163)					
	36 Ground Clearance, Center of Wheelbase	in (mm)	10.0 (253)					
	37 Service Brake - Method of Control/Operation		Foot / Hydraulic					
POWERTRAIN	38 Park Brake - Method of Control/Operation		Hand / Mechanical					
	39 Battery Type		Maintenance Free					
	40 Volts / Cold Cranking Amps	v/cca	12V/1800 (2x 900)					
	41 Engine Manufacturer		Kubota 3.8L Turbo Diesel					
	42 Engine Power @ Governed Speed	hp (kw)	74 (55) @ 2200RPM	110 (82) @ 2400RPM	74 (55) @ 2200RPM	110 (82) @ 2400RPM	74 (55) @ 2200RPM	110 (82) @ 2400RPM
	43 Torque @ Rated RPM	ft lbs (Nm)	227 (309) @ 1400RPM	373 (275) @ 1600RPM	227 (309) @ 1400RPM	373 (275) @ 1600RPM	227 (309) @ 1400RPM	373 (275) @ 1600RPM
	44 Number of Cylinders / Displacement	No/cc (ci)	4/3769 (230)					
	45 Transmission Type, Standard		Powershift					
	46 Standard Speeds, Forward/Reverse		3/2					
	47 Hydraulic Tank Capacity (Drain and Refill)	gal (liter)	19.0 (71.7)					
48 Fuel Tank Capacity	gal (liter)	19.7 (74.8)						
49 Auxiliary Hydraulic Pressure Relief for Attachments	PSI (Mpa)	2250 (155)						

**CERTIFICATION:** Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture.

**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 the proposed application should be discussed with your authorized Hyster Company Dealer.

+ Add 2" (51mm) for 3-stage mast

<sup>1</sup> Carriage is 80" wide, load backrest is 82" wide.  
<sup>2</sup> Back tilt limited to 6 degrees with some mast options.




**BRIGGS**

EQUIPMENT MEXICO

[info@BriggsEquipmentMexico.com](mailto:info@BriggsEquipmentMexico.com)

55-9020-5042

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