H360-36/48HDg





MASTS

Masts with nested channels provide maximum visibility of the attachment and load. Mast channels, rollers, stub shafts and chain anchors are reinforced to provide good torsional rigidity. Oversized stub shafts are inset and double welded for good impact resistance. Chains designed on outside of mast to enhance visibility window.

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 is 100" (2540 mm) for the H360-36/48HD

Minimum inside-to-inside fork spacing - model and attachment dependent is 9" (235 mm)

Maximum outside-to-outside fork spacing - model and attachment dependent is 94" (2375 mm)

FORKS

Three kinds of forks are offered in two sizes.

i. PIN TYPE - STANDARD PROFILE available in:

- 96" Long x 3.9" x 7.9" (2440mm x 100mm x 200mm)
 96" Long x 3.5" x 9.8" (2440mm x 90mm x 250mm)

ii. INTEGRAL PIN TYPE (FOR USE WITH DFSSFP) available in:

- 96" Long x 3.9" x 7.9" (2440mm x 100mm x 200mm)
- 96" Long x 3.5" x 9.8" (2440mm x 90mm x 250mm)
- iii. QD HOOK TYPE (FOR USE WITH DFSSFP QUICK DISCONNECT) available in:
- 96" Long x 3.9" x 7.9" (2440mm x 100mm x 200mm)
- 96" Long x 3.5" x 9.8" (2440mm x 90mm x 250mm)

STANDARD ENGINE - TIER 4 FINAL

QSB 6.7L 6 Cylinder Diesel Engine delivers 164 hp (peak 168 hp) and 540 lb-ft of maximum torque. EPA Tier 4 Final compliant engine features Cooled exhaust gas recirculation (EGR) technology with selective catalytic reduction (SCR); water-cooled variable geometry turbocharger with an integrated Diesel Exhaust Fluid (DEF) delivery system. Innovative selectable ECO performance modes offer excellent fuel economy and maximum productivity. Also includes:

- 120 amp alternator
- Viscous, on-demand cooling fan which saves fuel and reduces noise.
- Low mount exhaust with diesel oxidation catalyst (DOC) and a diluter to reduce exhaust temperatures.
- Requires ultra-low sulfur diesel fuel and low-ash oil
- Heavy duty spinner type Sy-Klone pre-cleaner center stacked for ease of service and enhanced visibility

TRANSMISSION

- ZF WG-161 three-speed, fully reversing powershift transmission produces smooth shifting, precise inching and fast acceleration
- 3 forward and 3 reverse gears
- Smooth fully automatic gear shift control
- Powershift transmission with proportional valves •
- Inching electronically controlled
- Cushioned clutch lock-up provides smooth shifting and dampens drive line shock loads
- Simple push button calibration
- Transmission lock-out preventing high speed directional changes
- Transmission and engine powertrain protection for excessive engine coolant temperature, low engine oil pressure, and excessive engine inlet air temperatures

ELECTRICAL SYSTEM

- Sealed Deutsch connectors
- CANbus system for easy diagnostics of engine, transmission and hydraulics

HYDRAULIC SYSTEM

Hyster on-demand load sensing hydraulic system introduces an efficient way to meet truck's hydraulic load demands:

- Based on Variable Displacement Pump (VDP) technology
- Pump is only pumping when oil is needed
- Less heat is produced oil and filters last longer. Hoses, seals, and components also wear less and last longer
- Engine runs quieter and at lower speeds, extending life of major components
- Leak free O-Ring Face Seal (ORFS) fittings standard throughout the truck
- Capable of more oil displacement even at low engine speeds

STEERING SYSTEM

- · 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 oil bathed wheel bearings and sealed to prevent contamination entry or loss of oil. This ensures that oil bearings are always lubricated and enhances overall durability of the axle spindles
- No steering linkage adjustments are required. Lubricating fittings on tie rod pins are the only regular maintenance points
- Load sensed steering provides low steering effort and good performance at all engine speeds
- Fully adjustable steering angle limiter with mechanical stops reduces tire scrubbing
- Wheel hubs rotate on large tapered roller bearings
- Non-adjustable tie rod ends provide maximum life

DRIVE AXLE

Rugged Kessler D81 drive axle features full-floating design

BRAKES

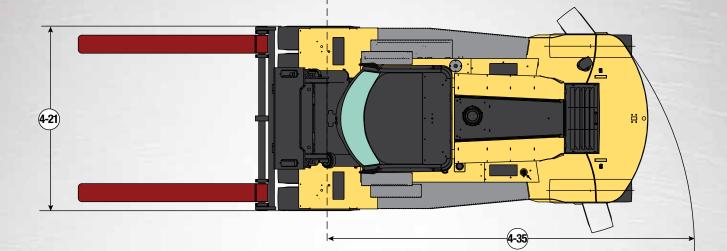
- · Oil cooled wet disc brake system greatly extends brake system life
- Designed for load capacities up to 40,000 lbs.
 - Axle loads up to 540 kN (121,400 lbs)
 - Bolt circle diameter 16.7 inches (425 mm)
 - Park brake

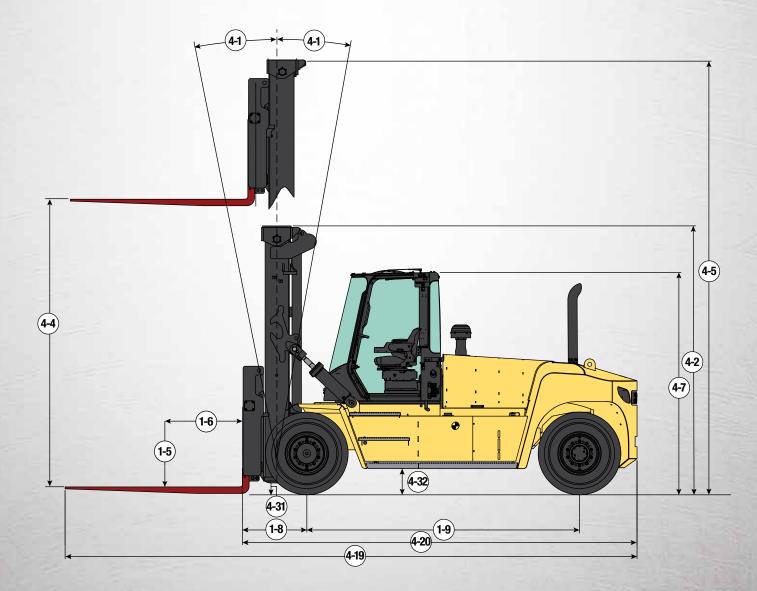
OPERATOR AREA

- Ergonomically designed hydraulic controls and high/low range control lever are within easy reach
- Three steps and hand grips provide easy access to operator compartment
- Angled floor plate and pedals are positioned for operator comfort
- Telescopic, tilt steer column
- Supportive mechanical full-suspension seat adjusts 8 inches (200 mm) for • operator comfort
- Several air suspension seat options are available
- Steel overhead guard frame provides maximum 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. Light kits featuring innovative LED, HID and halogen technology are available to choose from
- Optional ComforCabll 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, with many additional options to enhance comfort and productivity

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

H360-36/48HD DIMENSIONS





H360-36/48HD SPECIFICATIONS

			and the second sec	-					and the second se	
		Description	Units		English	Metric	English	Metric		
	1.	-1 Manufacturer				HYSTER	HYSTER	HYSTER	HYSTER	
	1.	1-2 Model designation				H360-36HD	H360-36HD	H360-48HD	H360-48HD	
GENERAL	1	-5 Rated load capacity		lbs.	kg	36,000	16,329	36,000	16,329	
5	1.	-6 Load center		in	mm	36	914	48	1219	
	1.	-8 Load distance		in	mm	34.9	887	34.9	887	
	1.			in	mm	148	3,750	148	3,750	
WEIGHTS	2.	5		lbs.	kg	47,186	21,403	50,493	22,903	
	2-2	U U	front	lbs.	kg	77,110	34,977	79,903	36,243	
	2-2		rear	lbs.	kg	6,076	2,756	6,590	2,971	
		- V	front	lbs.	kg	23,817	10,803	23,683	10,742	
	2-3		rear	lbs.	kg	23,369	10,600	26,809	12,160	
WHEELS	3.					Pneumatic		Pneu		
	3					12.00x20 Bias		12.00x20 Bias		
				damaaa		12.00x20 Bias		12.00x20 Bias		
	4			degrees		15 / 10		15 / 10		
		2 Height of mast lowered		in	mm	145	3,680	145	3,680	
		4-3 Freelift (Top of Fork)4-4 Lift height (Top of Fork)		in	mm	0	0	0	0	
				in	mm	156	3,984	156	3,984	
	4			in	mm	222 120	5,622	222 120	5,622	
	4-1 4-1		mem	in in	mm mm	310	3,054 7,878	310	3,054 7,878	
	4-			in	mm	214	5,438	214	5,438	
	4-2			in	mm	100	2,542	100	2,542	
5			thickness	in	mm	3.9	100	3.9	100	
Ó	4-22		width	in	mm	7.9	200	7.9	200	
	4-22		length	in	mm	96	2,440	96	2,440	
DIMENSIONS	4-2		longui	in	mm	100	2,540	100	2,540	
	4-2			in	mm	9	235	9	235	
	4-25			in	mm	94	2375	94	2375	
	4-3			in	mm	7	187	7	187	
	4-3				mm	14	368	14	368	
	4-3	4-33 Minimum aisle width (add load length + clearance)			mm	236	5,984	236	5,984	
	4-3			in	mm	205	5,199	205	5,199	
	8	Hydraulic tank capacity		gal	1	37	140	37	140	
	8	Fuel tank capacity		gal	I	54	204	54	204	
	10	10-4 DEF tank capacity		gal	I.	5	19	5	19	
	PER	PERFORMANCE			WITH TIER 4 FINAL CUMMINS QSB 6.7L ENGINE					
	5-1	a Travel speed	with load	mph	km/h	17	27	17	27	
	5-1	b	without load	mph	km/h	18	29	18	29	
		a Lifting speed	with load	ft/min	m/s	77	0.39	77	0.39	
	5-2		without load	ft/min	m/s	87	0.44	87	0.44	
		a Lowering speed	with load	ft/min	m/s	106	0.54	106	0.54	
PERFORMANCE	5-3		without load	ft/min	m/s	89	0.45	89	0.45	
	5	6 Drawbar pull – Max		lbs.	kN	26,700	119	26,500	119	
	5	Gradeability – no load / rated load – 1 mph (1.6 km/h)		9	6	35/31 35/31		33/33 <u>33/33</u>		
E E	PER	FORMANCE				WITH TIER 3 CUMMINS QSB 6.71				
H	5-1	a Travel speed	with load	mph	km/h	17	27	17	27	
	5-1		without load	mph ft/min	km/h	18	29	18	29	
	5-2	a Lifting speed	with load	ft/min	m/s	67 97	0.34	67 97	0.34	
	5-2		without load	ft/min ft/min	m/s	87	0.44	87	0.44	
			with load	ft/min	m/s	106	0.54	106	0.54	
	5-3	6 Drawbar pull – Max	without load	ft/min Ibs.	m/s kN	89 24,500	0.45 113	89 24,300	0.45 113	
		 7 Gradeability – no load / rated load 	 1 mnh (1.6 km/h)	ius. 9		24,500 35/27	35/27	33/26	33/26	
		uraucavility - 110 10au / Tateu 10au		9	U	JJ/21	33/21	55/20	33/20	

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

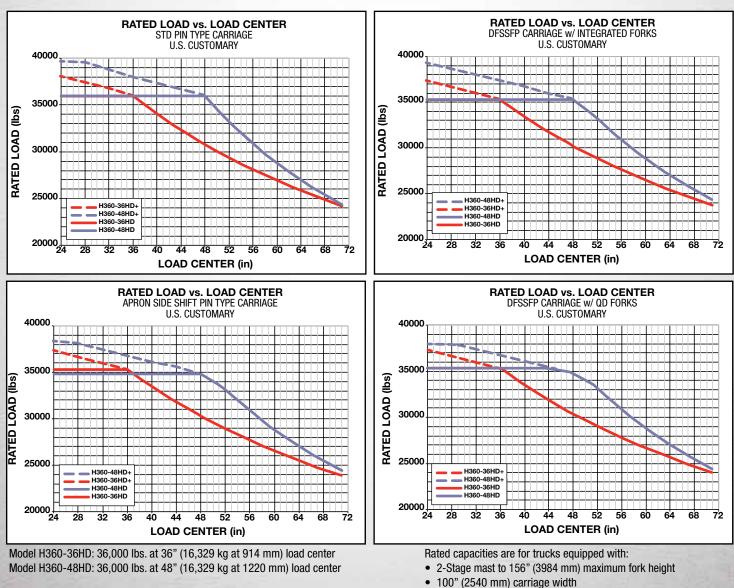
H360-36/48HD SPECIFICATIONS

H360-	H360-36/48HD MAST DIMENSIONS										
4.4 Lift	4.4 Lift height (Top of Fork)		4.2 Mast Lowered Ht.		reelift f Fork)	4.5 Overall Extended Ht.					
in	mm in		mm	in	mm	in	mm				
2-STAGE	2-STAGE NO FREE-LIFT (NO FL)										
156	3984	145	3680	0	0	222	5622				
180	4594	157	3984	0	0	246	6232				
212	5406	173	4390	0	0	278	7044				
244	6219	189	4797	0	0	310	7858				

	POWERTRAINS		its	Tier 4 Final		Tier 3	
1-3	1-3 Power type			Diesel		Diesel	
7-1	7-1 Engine Manufacturer / model			Cummins QSB 6.7L		Cummins QSB 6.7L	
7-1a	7-1a EPA Tier Compliance			Tier 4 Final		Tier 3	
7-2a	Engine power output - Rated	hp	kW	164	122	155	116
7-2b	Engine power output - Peak	hp	kW	168	125	155	116
7-3	Governed speed		m	2,300		2,300	
7-4	7-4 Number of cylinders / displacement		# / I 6/6.7L		.7L	6/6.7L	
7-5	Engine torque - Max	lb-ft	N-m	540	732	443	600
7-5a	7-5a Turbocharger7-8 Alternator output		pe	Variable Geometry, Water Cooled		Wastegate	
7-8			ips	120		120	
8-0	8-0 Transmission Manufacturer / model		ZF WG-161		ZF WG-161		
8-1	Transmission type & speeds			Powershift 3F x 3R		Powershift 3F x 3R	
7-10	Battery voltage, rated capacity		CCA	2 x 12 / 900		2 x 12 / 900	
7-10a	7-10aDrive Axle Manufacturer / model5-10Service brake			Kessler D81		Kessler D81	
5-10				Oil immersed (wet) disc		Oil immersed (wet) disc	
5-11	5-11 Park brake			Spring apply, dry disc		Spring apply, dry disc	
10-1	Working pressure for attachments	psi	Мра	2,828	19.5	2,828	19.5
10-2	10-2 Oil flow for attachments		l/m	26.4	102	26.4	102

RATED CAPACITIES

NOTE: Higher capacity rated versions up to 40,000 lbs. at shorter load centers are available upon request on a custom basis. Please contact Hyster Company for details & SPED Quote.



Conversion Factor: 1.0" = 25.4 mm

 $1 \, lb = 0.45 \, kg$

Contact your dealer for other capacity information.

• 96" (2440 mm) long forks

Courtesy of Crane.Market

STANDARD FEATURES AND OPTIONS

STANDARD EQUIPMENT

Complete truck equipped with:

- 156" maximum fork height 2-stage mast with 145" overall lowered height
- 100" (2540mm) wide pin type carriage
- 96" long x 3.9" x 7.9" (2440mm x 100mm x 200mm) pin type forks
- Cummins QSB 6.7L Tier 4 Final engine
- Sy-Klone spinner type heavy duty air intake pre-cleaner
- Premium ZF WG161 3 speed autoshift transmission
- Kessler heavy duty planetary drive axle with wet disc brakes
- Powertrain Protection system for engine and transmission; high temperature or low oil pressure
- On-Demand load-sensing hydraulic system featuring Variable Displacement Pump technology (VDP)
- CANbus electrical control system for engine, transmission and hydraulics
- Low mount exhaust
- Low mount air intake
- 12.00 x 20 20PR bias high load pneumatic drive and steer tires
- Directional control lever with direction change interlock system
- UL Classification D
- Mast tilt: 15° fwd / 10° back
- Lockable battery disconnect switch
- Open operator compartment with integral overhead guard. Compartment includes: seatside mini-lever hydraulic control; multifunction display panel; interior wide angle mirrors; handrails for operator entry and exit; telescoping & tilting steering column; floor mat; isolated mounting for low noise and vibration; 24-12V DC converter; full suspension vinyl seat with integrated, adjustable armrest and seat belt
- Operator restraint system
- Operator presence system
- Electric air horn (105 dBA)
- Audible backup alarm
- 24V electrical system
- Tilting operator compartment for service access manual operation
- Light kit #1 Rear: 2 LED stop, tail and back-up lights
- Steering angle limiter with mechanical stops
- Non-locking fuel cap
- Operator's manual

OPTIONAL EQUIPMENT

- Cummins QSB 6.7L Tier 3 engine*
- Masts various lift heights available
- Sideshifting carriages and fork positioners
- Various fork options
- Various mast tilt ranges
- Multifunction joystick
- MONOTROL[®] pedal direction control with direction change interlock system
- Radial and pneumatic-shaped solid tires
- Enclosed cab, with or without air conditioning
- Multiple inside-cabin options
- Multiple seat options
- · 2 and 3-point high visibility seat belts
- Powered tilting operator compartment for service access
- Visible alarm / amber strobe light
- Various LED (light emitting diode), HID (high intensity discharge xenon) and halogen light kits available
- · Lockable fuel cap
- · High mount exhaust
- · High mount air intake
- Hydraulic accumulator
- · Various traction speed limiters
- Empty seat engine shutdown adjustable from 3-15 minutes (preset to 15 minutes)
- · Lifting eyes
- · Steer wheel lug protection
- · Engine block heater
- Front and rear mud flaps
- H-pattern wiper on front windshield

* For Canada and Latin American markets only



Hyster Company P.O. Box 7006 Greenville, North Carolina 27835-7006 Part No. H360-36/48HD/TG 11/2015 Litho in U.S.A.

Visit us online at www.hyster.com or call us at 1-800-HYSTER-1.

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