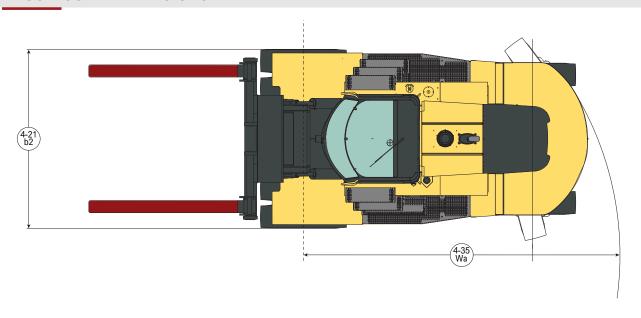


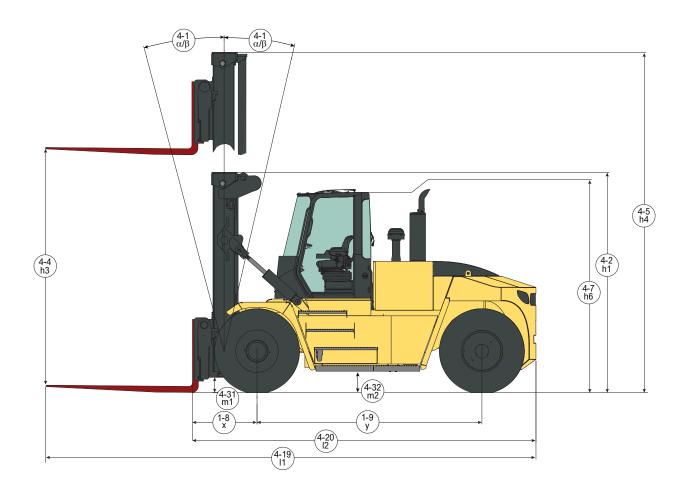
HEAVY DUTY FORKLIFT TRUCK PNEUMATIC TIRE

PRODUCT TECHNICAL GUIDE



H400-450XD DIMENSIONS





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

H400-450XD SPECIFICATIONS

	1-1	Manufacturer		l			HYS	TFR			HYS	TFR	
	1-2	Model designation					H400X					XD36	
	1-3	Powertrain / drivetrain					Die					esel	
₹	1-4	Operator type					Sea			Seated			
GENERAL	1-5	Rated load capacity	Q	lb	kg	40,0		18,1	144	40,0		18,	144
명	1-6	Load center	c1	in	mm	36		91		36		91	
	1-8	Load distance (1)	Х	in	mm	43		1,0		43		1,0	
	1-9	Wheelbase	y	in	mm	13		3,5		14		3,7	
—	2-1	Total truck weight without load	y	lb	kg	61,4		27,8		60,1		27,2	
WEIGHT	2-2	Axle loading with load, front / rear		lb	kg	92,788	8,658	42,088	3,927	91,503	8,651	41,505	3,924
×	2-3	Axle loading without load, front / rear		lb	kg	30,269	31,176		14,141	30,488	29,668	13,829	13,457
	3-1	Tire type		Ty	_	00,200	Pneui		,	00, 100		matic	10,101
	3-2	Tire size, front		.,	P-0		14.00-2					24 24PR	
ELS	3-3	Tire size, rear					14.00-2					24 24PR	
WHEELS	3-5	Number of tires, front / rear (X driven)		#	ŧ		4X					(/2	
5	3-6	Tread width, front	b10	ir		82		2,0	95	82		2,0	95
	3-7	Tread width, rear	b11	iı	า	83	3	2,1	08	83	3	2,1	08
	4-1	Mast tilt, forward / back	α/β	Deg	ree		10°F /	12°B			10°F		
	4-2	Height of mast lowered (2)	h1	in	mm	14	5	3,6	64	14	5	3,6	64
	4-3	Freelift	h2	in	mm	0	1	C)	0)	()
	4-4	Lift height (top of fork)	h3	in	mm	14	8	3,7	60	14	8	3,7	60
	4-5	Height, extended	h4	in	mm	21	7	5,4	94	21	7	5,4	94
	4-7	Height to top of operator compartment (open cab)	h6	in	mm	13	4	3,4	01	13	4	3,4	01
	4-8	Seat height to seat point index (3)	h7	in	mm	87		2,2		87		2,2	
S	4-19	Overall length	l1	in	mm	31		7,9	27	32		8,1	
DIMENSIONS	4-20	Length to load face	12	in	mm	21		5,4		22		5,7	
ENS.	4-21	Overall width of truck	b2	in	mm	11		2,9		11		2,9	
Ĭ S	4-22	Fork dimension	s/e/l	in	mm	3.9 / 7.		100 / 200		3.9 / 7.		100 / 200	
	4-23	Fork carriage type		Ту	pe			on Sideshif				on Sideshit	
	4-24	Carriage width	b3	in	mm	10		2,6		10		2,6	
	4-25-1	Fork spread, min (in-in)	b5	in	mm	26		64		26		64	
	4-25-2	Fork spread, max (out-out)	b5	in	mm	94		2,3		94		2,3	
	4-31	Ground clearance, under mast with load	m1	in	mm	12		29		12		29	
	4-32 4-34	Ground clearance, center of wheelbase	m2	in	mm	15		37		1: 24		37	
	4-34	Minimum aisle width (add load length & clearance)	Ast Wa	in in	mm	23 19		5,9 4,9		20		6,2 5,1	
	4-33	Outside turning radius TIER 4 FINAL	vva	1111	mm	18	3			S QSB 6.71		J, I	JJ
	5-1	Travel speed, with / without load		mph	km/h	16	16	25	25	16	16	25	25
	5-2	Lifting speed, with / without load		ft/min		47	61	0.24	0.31	69	93	0.35	0.47
	5-3	Lowering speed, with / without load		ft/min	m/s	89	83	0.45	0.42	89	83	0.45	0.42
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	33,300	34,000	148	151	33,300	34,000	148	151
	5-6	Drawbar pull - stall, with / without load		lb	kN	40,200	40,900	179	182	40,200	40,900	179	182
Sec.	5-7	Gradeability - 1 mph (1.6 km/h), with / without load		9		3		3:		3		3	
PERFORMANCE	5-8	Gradeability stall, with load / without load		9/		43		3:		44		3	
R.		TIER 3							CUMMIN	S QSB 6.71	-		
ER	5-1	Travel speed, with / without load		mph	km/h	16	16	25	25	16	16	25	25
	5-2	Lifting speed, with / without load		ft/min	m/s	47	61	0.24	0.31	69	93	0.35	0.47
	5-3	Lowering speed, with / without load		ft/min	m/s	89	83	0.45	0.42	89	83	0.45	0.42
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	34,100	34,800	151	155	34,100	34,800	152	155
	5-6	Drawbar pull - stall, with / without load		lb	kN	41,100	41,800	183	186	41,200	41,900	183	186
	5-7	Gradeability - 1 mph (1.6 km/h), with / without load		9		36		3:		36		3	
	5-8	Gradeability stall, with load / without load		9/	0	44	4	3:	2	4:	5	3	4

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. 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.

H400-450XD SPECIFICATIONS

	1-1	Manufacturer	I	I			HYS	TER			HYS	TFR	
	1-2	Model designation					H450>				H450		
	1-3	Powertrain / drivetrain					Die				Die		
¥	1-4	Operator type					Sea				Seated		
GENERAL	1-5	Rated load capacity	Q	lb	kg	45,0		20,4	112	45,0		20,4	112
핑	1-6	Load center				36		91		36		91	
			c1	in	mm								
	1-8	Load distance (1)	Х	in	mm	42		1,0		42		1,0	
	1-9	Wheelbase	у	in	mm	13		3,5		14		3,7	
WEIGHT	2-1	Total truck weight without load		lb	kg	66,5		30,1		64,1		29,0	
ĕ	2-2	Axle loading with load, front / rear		lb	kg	101,909	9,612	46,225	4,360	100,165	8,973	45,434	4,070
>	2-3	Axle loading without load, front / rear		lb -	kg	32,128	34,392	14,573	15,600	32,038	32,102	14,532	14,561
	3-1	Tire type		Тур	pe		Pneu				Pneur		
တ	3-2	Tire size, front					14.00-2				14.00-2		
WHEELS	3-3	Tire size, rear					14.00-2				14.00-2		
₹	3-5	Number of tires, front / rear (X driven)		#			4X					(/2	
	3-6	Tread width, front	b10	ir		82		2,0		82		2,0	
	3-7	Tread width, rear	b11	ir		83		2,1	08	83		2,1	80
	4-1	Mast tilt, forward / back	α/β	Deg	l .		10°F /				10°F /		
	4-2	Height of mast lowered (2)	h1	in	mm	14		3,752		14		3,752	
	4-3	Freelift	h2	in	mm	0		0		0		0	
	4-4	Lift height (top of fork)	h3	in	mm	14		3,7		14		3,7	
	4-5	Height, extended	h4	in	mm	22		5,5		22		5,5	
	4-7	Height to top of operator compartment (open cab)	h6	in	mm	13		3,4		13		3,4	
	4-8	Seat height to seat point index (3)	h7	in	mm	87		2,2		87		2,2	
Ş	4-19	Overall length	11	in	mm	31		7,9		32		8,1	
lois S	4-20	Length to load face	12	in	mm	21		5,4		22		5,7	
DIMENSIONS	4-21	Overall width of truck	b2	in	mm	11		2,9		11:		2,9	
	4-22	Fork dimension	s/e/l	in	mm	3.9 / 9.		100 / 250		3.9 / 9.		100 / 250	
	4-23	Fork carriage type	1.0	Ту				on Sideshif				on Sideshift	
	4-24	Carriage width	b3	in	mm	11		2,9		11		2,9	
	4-25-1	Fork spread, min (in-in)	b5	in	mm	24		59		24		59	
	4-25-2	Fork spread, max (out-out)	b5	in	mm	10		2,7		10		2,7	
	4-31 4-32	Ground clearance, under mast with load	m1	in	mm	11 15		27 37		11 15		27 37	
	4-32 4-34	Ground clearance, center of wheelbase	m2	in	mm	23							
	4-3 4 4-35	Minimum aisle width (add load length & clearance)	Ast Wa	in	mm	19		5,9 4,9		24		6,2 5,1	
	4-35	Outside turning radius TIER 4 FINAL	VVa	in	mm	19	J			S QSB 6.7L	3	5,1	55
	5-1	Travel speed, with / without load		mnh	lena/b	16	16	25		16	16	25	25
	5-2			mph ft/min	km/h m/s	16 39	16 53	0.20	25 0.27	59	16 79	25 0.30	0.40
		Lowering speed, with / without load				89	83	0.20		89	83	0.30	0.40
	5-3 5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		ft/min	m/s kN	33,100	33,900	147	0.42 151		34,000	148	151
				lb	kN					33,200			
핑	5-6 5-7	Drawbar pull - stall, with / without load Gradeability - 1 mph (1.6 km/h), with / without load		lb %		40,000 31	40,800	178 33	181	40,000 32	40,800	178	182
AN	5-8	Gradeability stall, with load / without load		9/		38		3:		39		3:	
PERFORMANCE	J-0	TIER 3		/	0	30)			S QSB 6.7L		٥.	3
Ä.	5-1	Travel speed, with / without load		mph	km/h	16	16	25	25	16	16	25	25
E	5-2	Lifting speed, with / without load		ft/min	m/s	39	53	0.20	0.27	59	79	0.30	0.40
	5-3	Lowering speed, with / without load		ft/min	m/s	89	83	0.45	0.42	89	83	0.45	0.42
	5-5	Drawbar pull - 1 mph (1.6 km/h), with / without load		lb	kN	33,900	34,700	151	154	33,900	34,700	152	155
	5-6	Drawbar pull - stall, with / without load		lb	kN	41,000	41,800	182	186	41,000	41,800	183	186
				%		32		3:		33		3:	
	5-7	Gradeadillev - 1 ffibil (1.0 km/m, wim / wimom man											
	5-7 5-8	Gradeability - 1 mph (1.6 km/h), with / without load Gradeability stall, with load / without load		%		39		3:		41		3	

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. 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.

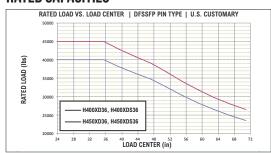
H400-450XD SPECIFICATIONS

POV	VERTRAI	NS							
		Description	Uni	its	English	Metric	English	Metric	
RAL	1-1	Manufacturer			HYST	HYSTER		STER	
GENERAL	1-2	Model designation			H400-450XD/S36		H450XD36		
9	1-3	Powertrain / drivetrain			Dies	sel	Die	esel	
	7-1	Engine manufacturer / model			Cummins /	QSB 6.7L	Cummins	/ QSB 6.7L	
	7-1a	EPA tier compliance			Tier 4F / S	Stage IV	Tier 3 /	Stage III	
	7-2	Engine power output – rated	hp	kW	220@2000	164@2000	225@2000	168@2000	
	7-2-1	Engine power output – peak	hp	kW	231@1800	172@1800	225@2000	168@2000	
¥	7-3	Rated speed	rpı	m	2,000		2,0	000	
ENGINE	7-3-1	Engine torque @ rpm (1 / min)	lb-ft	N-m	700@1400	949@1400	700@1400	949@1400	
- □	7-4	Number of cylinders / displacement	#/in3	# / cm3	6 / 408	6 / 6,690	6 / 408	6 / 6,690	
		Turbocharger	Туре		Variable geometr	y, water-cooled	Wastegate, water-cooled		
	7-8	Alternator output	Amps		12	0	120		
	7-9	Electrical system voltage	V		24	1	24		
	7-10	Batter voltage / nominal capacity	V /	Ah	24 /	24 / 102		102	
	8-0	Drive control / transmission	Тур	pe	Powershift tra	ansmission	Powershift transmission		
	8-1	Type of drive unit	Type		Torque co	onverter	Torque o	converter	
ш	8-2	Transmission manufacturer / type	Тур	pe	ZF 5W	ZF 5WG211		VG211	
DRIVE	8-2-1	Transmission speeds forward / reverse	#	ŧ	5 /	3	5	/ 3	
_	8-3	Wheel drive / drive axle manufacturer / type	Тур	pe	AxleTech PR	C1756W3H	AxleTech Pf	RC1756W3H	
	8-4	Service brake	Тур	pe	Oil immersed	d (wet) disc	Oil immerse	ed (wet) disc	
	8-5	Parking brake	Тур	ре	Dry disc on drive axle		Dry disc on drive axle		
	10-1	Operating pressure for attachments	psi	MPa	3,263	22.5	3,263	22.5	
	10-2	Oil flow for attachments	gpm	I/m	26	100	26	100	
	10-3	Hydraulic oil tank, capacity	gal	- 1	54	203	54	203	
	10-4	Fuel tank, capacity	gal	- 1	80	303	80	303	
MISC	10-4-1	DEF tank, capacity	gal	I	10	38	N / A	N / A	
Ξ	10-5	Steering design	Тур	pe	Hydraulic pov	ver steering	Hydraulic po	ower steering	
	10-6	Number of steering rotation	#	ŧ	4.4	4	4	.4	
	10-7	Sound pressure level at the driver's seat LpAZ	dB((A)	72.	7	76	6.0	
	10-7-1	Sound power level during the workcycle LwAZ	dl	В	100	1.4	10	7.4	
	10-8	Towing coupling, type DIN	Type		Yes / pin		Yes / pin		

H400XD/S36 MAST DIMENSIONS								
	height f fork)	4-2 l lower		4-5 Overall extended ht.				
in	mm	in	mm	in	mm			
2-STAGE ONLY								
147	3750	146	3692	217	5517			
183	4650	163	4142	253	6417			
212	5400	178	4517	282	7167			
244	6200	194	4917	314	7967			
263	6700	204	5167	334	8467			
275	7000	210	5317	346	8767			

H450XD/S36 MAST DIMENSIONS								
	t height f fork)		Mast ed ht.	4-5 Overall extended ht.				
in	mm	in	mm	in	mm			
2-STAGE ONLY								
147	3750	149	3780	221	5605			
183	4650	167	4230	256	6505			
212	5400	182	4605	286	7255			
244	6200	197	5005	317	8055			
263	6700	207	5255	337	8555			
275	7000	213	5405	349	8855			

RATED CAPACITIES



Model H400XDS36: 40,000 lb at 36" (18,144 kg at 914 mm) load center Model H450XDS36: 45,000 lb at 36" (20,412 kg at 914 mm) load center Model H400XD36: 40,000 lb at 36" (18,144 kg at 914 mm) load center Model H450XD36: 45,000 lb at 36" (20,412 kg at 914mm) load center Conversion factor: 1.0" = 25.4 mm | 1 lb = 0.45 k



Rated capacities are for trucks equipped with:

• 2-stage (lower mast) to 147" (3750 mm) maximum fork height

• 105" (2672 mm) carriage width (H400XD/S36)

• 116" (2940 mm) carriage width (H450XD/36)

• 96" (2440 mm) long forks

Contact your dealer for other capacity information.

FEATURES AND OPTIONS

PERFORMANCE	STD	OPT
Cummins QSB 6.7L diesel engine rated 220 hp tier 4 / 164 kW stage IV*	х	
Cummins QSB 6.7L diesel engine rated 220 hp tier 3 / 164 kW stage IIIA*	х	
Tier 4 / stage IV compliant	х	
Tier 3 / stage IIIA compliant	Х	
Wastegate turbocharger, water cooled*	х	
Variable geometry turbocharger, water cooled*	Х	
Hibernate Idle	х	
On-demand cooling fan*	Х	
120 amp alternator	х	
Powertrain protection system	Х	
Heavy duty air intake	х	
High mount exhaust	Х	
ZF Transmission 5WG211 5-speeds fwd / 3-speeds reverse auto-shifting	х	
AxleTech Drive Axle PRC1756 W3H with wet disc brakes	Х	
DRIVE	STD	OPT
Travel speed limiter - unconditional and customer adjustable		х
Travel speed limiter - loaded (adjustable)		Х
14.00-24 24PR pneumatic bias ply drive and steer tires	Х	
14.00-R24 pneumatic radial drive and steer tires		Х
14.00-24 pneumatic shaped solid drive and steer tires		Х
LIFT	STD	OPT
On-demand load sensing hydraulic system	х	
Automatic throttle-up when lifting (in neutral or inching)	Х	
2-stage non free lift mast	Х	
Mast tilt - 5° forward / 5° back		Х
Mast tilt - 10° forward / 6° back		Χ
Mast tilt - 10° forward / 7° back		Х
Mast tilt - 10° forward / 9° back		Х
Mast tilt - 10° forward / 10° back		Х
Mast tilt - 10° forward / 12° back	Х	
Pressure compensated lowering	Х	
Hydraulic system temperature protection with performance de-rate		Х
HANDLING	STD	OPT
Mast tilt indicator - mechanical		Х
105" (2680 mm) pin type dual function sideshift carriage with simultaneous and individual fork positioner**	х	
105" (2680 mm) Quick disconnect hook type dual function sideshift carriage with simultaneous and individual fork positioner**		х

HANDING (CONTINUED)	OTD	ADT
HANDLING (CONTINUED)	STD	OPT
105" (2680 mm) quick disconnect hook type dual function sideshift carriage with individual fork positioner and 1 spare auxiliary function**		Х
115" (2940 mm) pin type dual function sideshift carriage with simultaneous and individual fork positioner***	х	
115" (2940 mm) quick disconnect hook type dual function sideshift carriage with simultaneous and individual fork positioner***		Х
115" (2940 mm) quick disconnect hook type dual function sideshift carriage with individual fork positioner and 1 spare auxiliary function***		Х
96" (2440 mm) long x 3.9" (100 mm) thick x 7.9" (200 mm) wide pin type forks with standard taper**	х	
96" (2440 mm) long x 3.9" (100 mm) thick x 9.8" (250 mm) wide pin type forks with standard taper***	х	
Pin type forks (various sizes)		Х
Hook type forks (various sizes)		Х
ERGONOMICS	STD	OPT
Open operator compartment (without doors & screens)	х	
Enclosed operator cabin		Х
Powered tilt operator compartment for service		Х
Manual tilt operator compartment for service	Х	
Isolated cabin mounting for low noise and vibration	х	
Operator presence system	х	
Mechanical suspension seat	х	
Air suspension seat		Х
Deluxe air suspension seat		Х
Low backrest seat	Х	
High backrest seat		Х
Armrest on left side	Х	
Cloth seat cover		Х
Vinyl seat cover	Х	
Seat heating		Х
Seat ventilation		Χ
2-point high visibility seatbelt	Х	
Lateral seat sliding mechanism		Χ
Floor mat	Х	
Interior dome light	Х	
Front, top and rear wipers		Х
"H"-pattern front wiper		Х
"I"-pattern front wiper		Х
Front and rear window defrosters		Х
Right side door (enclosed operator cabin)	Х	
Handrails for exit and entry	Х	
Rain top		Х

^{*} Standard or optional in select markets or select models.

^{**} H400XD36 and H400XDS36 *** H450XD36 and H450XDS36

FEATURES AND OPTIONS

ERGONOMICS (CONTINUED)	STD	OPT
Wire mesh installed on top of operator compartment		Х
7" Integrated Performance Display	х	^
Touchpoint™ mini levers hydraulic control integrated in control arm	х	
Joystick hydraulic control integrated in control arm		Х
Steering wheel with spinner knob	х	
Directional control lever on steering column	Х	
Hyster MONOTROL® pedal directional control		Х
Directional control switch (integrated into control arm)		Х
Directional control on joystick		Х
Park brake - push button applied	Х	
Park brake - automatically applied		Х
USB outlet inside armrest	Х	
Interior wide angle mirrors	х	
Heater with adjustable speed fan		Х
Telescoping & tilting steering column	х	
24-12 DC converter with 1 socket and 2 USB outlets	Х	
24-12 DC converter with 2 sockets and 2 USB outlets		Х
Air conditioning and automatic climate control		Х
Reading light		Х
Sun shades on top and rear (standard with air conditioning and automatic climate control)		Х
Sun visors front window		Х
Cloth trainer seat with 2-point seatbelt		Х
Recirculation fan (enclosed operator cabin)	х	
Accessory mounting bracket on cab front right pillar		Х
Document holder on cab front right pillar		х
Heated top- and/or rear window		Х
Radio preparation with 2 speakers and antenna		Х
VISIBILITY	STD	OPT
Steel bars on top of cab (open operator compartment)	х	
Top window with armoured glass (enclosed operator cabin)	х	
Steel bars under armoured glass top window (enclosed operator cabin)		Х
Exterior mirrors mounted to handrails		Х
Rear view camera system		Х
Radar object detection system		Х
Halogen work lights	х	
High Performance LED work lights		Х
Two Halogen head lights mounted on front fenders	х	
Two LED head lights mounted on front fenders		Х
Two mast mounted work lights	х	

VISIBILITY (CONTINUED)	STD	OPT
Four cabin mounted work lights		Х
Two rearward work lights mounted on the cabin	х	
LED stop / tail / brake lights	х	
Turn signals, hazard & marker lights (LED)		Х
OPERATION	STD	OPT
Air horn 112 dBA		Х
Electric horn 105 dBA	х	
Visible alarm – amber strobe light, ignition activated	х	
Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	х	
Forward motion alarm		Х
Seatbelt interlock for engine start and truck operation		Х
Air conditioning shut-off with open door		Х
Automatic engine shutdown with timer		Х
Lockable battery disconnect switch	х	
Battery jump start connector (NATO plug)		Х
Truck start with key switch and start button	Х	
Operator password (display) for truck start	х	
Fuses replaced by electric circuit breakers		Х
Non-lockable fuel cap	х	
Lockable fuel cap		Х
Fuel strainer in fuel filler neck		Х
Hyster Tracker™ wireless asset management - access / verification		Х
Hyster Tracker™ wireless asset management - monitoring	Х	
Auto greasing system for base truck		Х
Centralized greasing system for top end mast		Х
24 volt electrical system	х	
Engine block heater 110 or 240 volt		Х
Steer wheel lug nut protection	х	
Front and rear mud guards		Х
Lifting eyes - 2 front and 2 rear		Х
APPEARANCE	STD	OPT
Hyster yellow paint base truck	Х	
Special paint base truck		Х
SUPPLEMENTAL	STD	OPT
Literature package	Х	_
Operator's manual	Х	
CE certification*		Х
Warranty: 12 months / 2,000 hours parts & labor manufacturer's warranty*	х	

^{*} Standard or optional in select markets or select models.

^{**} H400XD36 and H400XDS36

^{***} H450XD36 and H450XDS36





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