



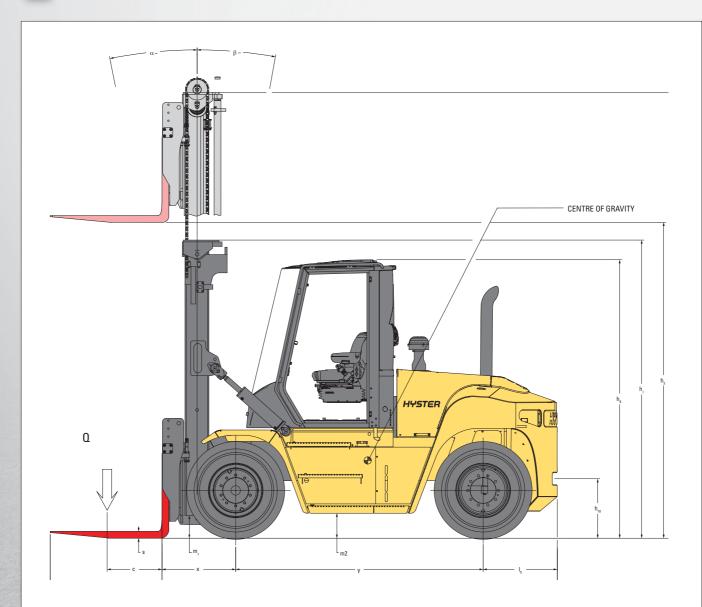
# H8-12XD6 SERIES TECHNICAL GUIDE

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### **DIMENSIONS**



= Centre of gravity of unladen truck

 $A_{ST} \quad = \quad W_a + x + I_6 + a \text{ (if } b_{12}/2 < b_{13} \text{)}$ 

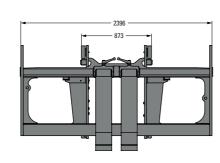
 $\begin{array}{lll} A_{ST} & = & W_a + ((I_6 + x)^{\wedge 2} + (b_{12}/2 - b_{13})^{\wedge 0.5} + a \mbox{ (if } b_{12}/2 > b_{13} \mbox{ and } W_a > b_{13+} \mbox{ } b_{12}/2) \\ A_{ST} & = & b_{13} + b_{12}/2 \mbox{ (} I_6 + x)^{\wedge 2} + (b_{12}/2 - b_{13})^{\wedge 0.5} + a \mbox{ (if } b_{12}/2 > b_{13} \mbox{ and } W_a < b_{13+} \mbox{ } b_{12}/2) \end{array}$ 

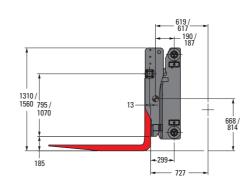
= Minimum operating clearance = 10% of  $A_{ST}$ 

(VDI standard = 200 mm BITA recommendation = 300 mm)  $_{\rm S}$  = load lengths

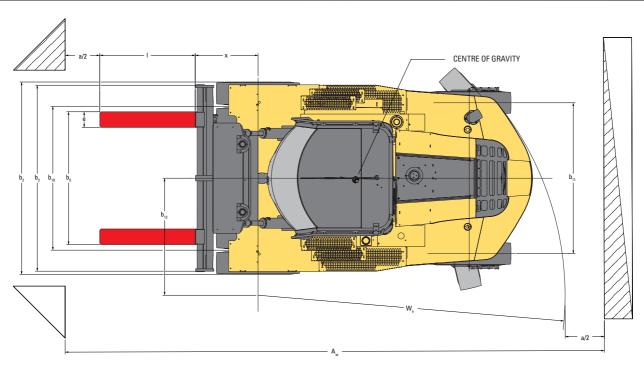
 $b_{12}$  = load length b<sub>12</sub> = load width

#### Standard pin type carriage (H8-9XD / H10-12XD)

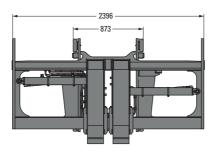


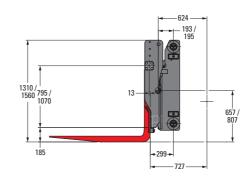


### DIMENSIONS <

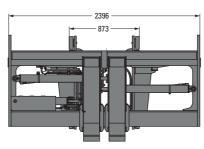


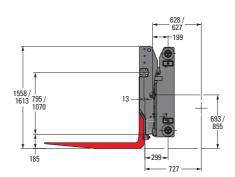
Pin type carriage with fork positioner (H8-9XD / H10-12XD)



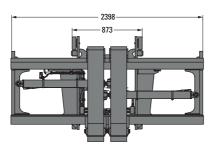


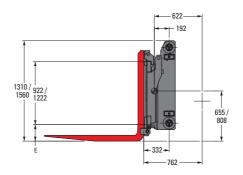
Pin type integral sideshift frame carriage with fork positioner (H8-9XD / H10-12XD)  $\,$ 





Dual function sideshift carriage with fork positioner (H8-9XD / H10-12XD)  $\,$ 





### > H8XD6 / H9XD6 SPECIFICATIONS

	1-1	Manufacturer			HYS	TFR	HYS	TFR
	1-2	Model designation			H8>		Н9Х	
	1-3	Powertrain / drivetrain			Die		Die	
둹	1-4	Operator type			Sea		Sea	
GENERAL	1-5	Rated capacity / rated load	Q	kg	8,5	00	9,5	00
<u> </u>	1-6	Load center distance	С	mm	60		60	
	1-8	Load distance	х	mm	80	)4	80	14
	1-9	Wheelbase	у	mm	2,7	00	2,7	00
	2-1	Service weight (1)	,	kg	13,	090	13,6	685
¥	2-2	Axle loading with load, front / rear		kg	19,876	1,714	21,323	1,862
	2-3	Axle loading without load, front / rear		kg	6,956	6,134	6,883	6,802
	3-1	Tyre type			Pneu	matic	Pneur	matic
	3-2	Tyre size, front			10.00-2	0 16PR	10.00-2	0 16PR
WHEELS	3-3	Tyre size, rear			10.00-2	0 16PR	10.00-2	0 16PR
Į≝į	3-5	Wheels, number front / rear (x = driven wheels)			x4	/ 2	x4	/ 2
	3-6	Tread, front	b <sub>10</sub>	mm	1,8	42	1,8	42
	3-7	Tread, rear	b <sub>11</sub>	mm	1,9	30	1,9	30
	4-1	Mast tilt, forward / backward	α/β	deg	15° /	′ 12°	15°/	12°
	4-2	Height, mast lowered	h <sub>1</sub>	mm	3,8	82	3,8	82
	4-3	Free lift	h <sub>2</sub>	mm	(	)	C	l
	4-4	Lift	h <sub>3</sub>	mm	4,9	25	4,9	25
	4-5	Height, mast extended	h <sub>4</sub>	mm	6,3	44	6,344	
	4-7	Height of overhead guard (open cab)	h <sub>6</sub>	mm	3,0	15	3,015	
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub>	mm	3,0	42	3,042	
	4-7-2	Height of overhead guard (closed cab w/ airco)	h <sub>6</sub>	mm	3,042		3,042	
	4-7-3	Height of overhead guard (closed cab w/ strobe light)	h <sub>6</sub>	mm	3,137		3,137	
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm	3,191		3,191	
	4-7-5	Height of overhead guard (closed cab w/ airco and strobe light)	h <sub>6</sub>	mm	3,167		3,1	
	4-8	Seat height to SIP	h <sub>7</sub>	mm	1,835		1,835 649	
ş	4-12	Coupling height	h <sub>10</sub>	mm	64		809	
I SI	4-16	Overhang	l <sub>5</sub>	mm	80			
DIMENSIONS	4-19	Overall length	l <sub>1</sub>	mm	5,5		5,5	
盲	4-20 4-21	Length to face of forks  Overall width	l <sub>2</sub>	mm	4,3		4,3	
	4-21	Fork dimensions ISO 2331	b <sub>2</sub>	mm	2,4 75 / 200		2,4	
	4-23	Fork carriage type	s/e/l	mm	75 / 200 75 mm pin ty	•	75 / 200 / 1.220	
	4-24	Fork carriage width	b <sub>3</sub>	mm	75 mm pm ty		75 mm pin type carriage 2,396	
	4-25	Distance between fork-arms	b <sub>5</sub>	mm	470	2,320	470	2,320
	4-30	Sideshift	b <sub>8</sub>	mm	(		0	
	4-31	Ground clearance, laden, below mast	m <sub>1</sub>	mm	25		25	
	4-32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm		73	27	
	4-33	Load dimension b <sub>12</sub> × I <sub>6</sub> crossways	_	mm	1,200	1,200	1,200	1,200
	4-34-1-2	Aisle width, with 200 mm operating clearance	Ast	mm	6,1		6,1	
	4-34-1-3	Aisle width, with 10% operating clearance	Ast	mm	6,5		6,5	23
	4-35	Outside turning radius	Wa	mm	3,9	26	3,9	26
	4-36	Internal turning radius	b <sub>13</sub>	mm	1,4	98	1,4	98
	5-1	Travel speed, with / without load (2)		km/h	29.7	30.9	29.7	30.9
	5-1-1	Travel speed, with load / without load backwards (2)		km/h	On request	On request	On request	On request
병	5-2	Lifting speed, with / without load 90cc		m/s	0.45	0.45	0.45	0.45
PERFORMANCE	5-2-1	Lifting speed, with / without load 111cc		m/s	0.60	0.67	0.60	0.67
S S	5-3	Lowering speed with / without load		m/s	0.50	0.48	0.50	0.48
FR	5-5	Drawbar pull - 1.6 km/h   1 mph, with / without load		kN	96	97	95	97
-	5-5-1	Drawbar pull - stall, with / without load		kN	106	107	106	107
	5-7	Gradeability - 1.6 km/h   1 mph, with / without load		%	51	33	46	32
	5-7-1	Gradeability - stall, with / without load		%	51	33	51	32

<sup>(1)</sup> Based on Stage IV engine and standart pin type carriage(2) Travel speed unladen limited at 25 km/h as factory default

### H10XDS6 / H10XD6 / H12XD6 SPECIFICATIONS <



	1-1	Manufacturer			HYS	TED	шус	TED	плс	TED
	1-2					(DS6	HYSTER H10XD6		HYSTER H12XD6	
	1-3	Model designation							Diesel	
뒽	1-3 1-4	Powertrain / drivetrain			Die		Die			
GENERAL		Operator type	0	l	Sea		Sea		Sea	
쁑	1-5	Rated capacity / rated load	Q	kg	10,		10,		12,	
	1-6	Load center distance	C <sub>1</sub>	mm	60		60		60	
	1-8	Load distance	Х	mm	80		80		80	
	1-9	Wheelbase	У	mm	2,7		2,9		2,9	
WT.		Service weight (1)		kg	14,		14,3		15,0	
	2-2 2-3	Axle loading with load, front / rear		kg	23,224	2,047	22,989	1,894	25,815	2,323
	2-3 3-1	Axle loading without load, front / rear		kg	7,264	7,507	7,406	6,978	7,264 Pneu	8,375
	3-1	Tyre type			Pneu 10.00-2		Pneu			
ည	3-3	Tyre size, front			10.00-2		10.00-2		10.00-2 10.00-2	
WHEELS	3-5 3-5	Tyre size, rear			10.00-2 x4		10.00-2 x4		10.00-2 x4	
3	3-5 3-6	Wheels, number front / rear (x = driven wheels)  Tread, front	b	mm						
	3-7	Tread, rear	b <sub>10</sub>	mm	1,8 1,9		1,8 1,9		1,8 1,9	
	4-1	Mast tilt, forward / backward	b <sub>11</sub>							
	4-2	• •	α/β	deg	15° /		15° / 4,1		15° /	
	4-2	Height, mast lowered Free lift	h <sub>1</sub>	mm mm	4,1		4,1		4,1	
	4-3	Lift	h <sub>2</sub>	mm					4,9	
	4-5	Height, mast extended	h <sub>4</sub>	mm	4,925		4,925			
	4-7	Height of overhead guard (open cab)	h <sub>6</sub>	mm	6,594 3,015		6,594 3,015		6,594 3,015	
	4-7-1	Height of overhead guard (closed cab)	h <sub>6</sub>	mm			3,042		3,015	
	4-7-2	Height of overhead guard (closed cab w/ airco)	h <sub>6</sub>	mm	3,042 3,042		3,042		3,042	
		Height of overhead guard (closed cab w/ strobe light)	h <sub>6</sub>	mm	3,137		3,137		3,137	
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h <sub>6</sub>	mm	3,191		3,191		3,191	
	4-7-5	Height of overhead guard (closed cab w/ airco and strobe light)	h <sub>6</sub>	mm	3,167		3,167		3,167	
	4-8	Seat height to SIP	h <sub>7</sub>	mm	1,8		1,835		1,835	
	4-12	Coupling height	h <sub>10</sub>	mm	64		649		649	
SNS	4-16	Overhang	l <sub>5</sub>	mm	80		80		80	
NSIC	4-19	Overall length	I <sub>1</sub>	mm	5,5		5,7		5,7	
DIMENSIONS	4-20	Length to face of forks	l <sub>2</sub>	mm	4,3		4,5		4,5	
	4-21	Overall width	b <sub>2</sub>	mm	2,4	164	2,4	164	2,4	64
	4-22	Fork dimensions ISO 2331	s/e/l	mm	75 / 200	) / 1.220	75 / 200	) / 1.220	75 / 200 / 1.220	
	4-23	Fork carriage type			75 mm pin ty	/pe carriage	75 mm pin ty	/pe carriage	75 mm pin type carriage	
	4-24	Fork carriage width	b <sub>3</sub>	mm	2,3	196	2,3	196	2,3	96
	4-25	Distance between fork-arms	b <sub>5</sub>	mm	470	2,320	470	2,320	470	2,320
	4-30	Sideshift	b <sub>8</sub>	mm	(	)	(	)	(	)
	4-31	Ground clearance, laden, below mast	m <sub>1</sub>	mm	25	50	25	50	25	50
	4-32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm	273		273		273	
	4-33	Load dimension $b_{12} \times I_6$ crossways		mm	1,200	1,200	1,200	1,200	1,200	1,200
		Aisle width, with 200 mm operating clearance	Ast	mm	6,1	30	6,3	315	6,3	15
		Aisle width, with 10% operating clearance	Ast	mm	6,5	i23	6,7	27	6,7	27
	4-35	Outside turning radius	Wa	mm	3,9		4,1		4,1	
	4-36	Internal turning radius	b <sub>13</sub>	mm	1,4		1,5		1,5	
	5-1	Travel speed, with / without load (2)		km/h	29.7	30.9	29.7	30.9	29.7	30.9
	5-1-1	Travel speed, with load / without load backwards (2)		km/h	On request	On request	On request	On request	On request	On request
뜅	5-2	Lifting speed, with / without load 90cc		m/s	0.40	0.40	0.40	0.40	0.40	0.40
MAN	5-2-1	Lifting speed, with / without load 111cc		m/s	0.47	0.54	0.47	0.54	0.47	0.54
OR	5-3	Lowering speed with / without load		m/s	0.50	0.48	0.50	0.48	0.50	0.48
PERFORMANCE	5-5	Drawbar pull - 1.6 km/h   1 mph, with / without load		kN	95	97	95	97	94	97
	5-5-1	Drawbar pull - stall, with / without load		kN	105	107	105	107	105	107
	5-7	Gradeability - 1.6 km/h   1 mph, with / without load		%	41	31	42	33	36	36
	5-7-1	Gradeability - stall, with / without load		%	47	31	48	33	41	36

<sup>(1)</sup> Based on Stage IV engine and standart pin type carriage(2) Travel speed unladen limited at 25 km/h as factory default

### MAST AND CAPACITY INFORMATION

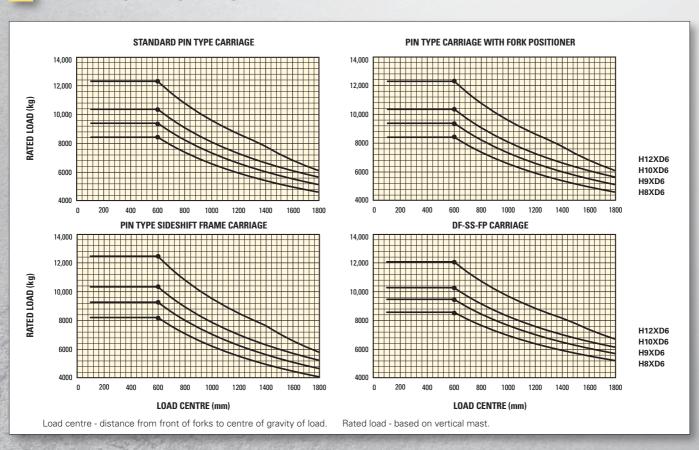
#### H8XD6 - H9XD6 RATED CAPACITY KG @ 600 MM LOAD CENTRE

	Lift	Lowered	Free lift height h <sub>2</sub> + s (m)	Extended height	Standard Pin Ty	pe carriage (kg)	Side Shift Pin Ty	pe carriage (kg)	QD DFSSFP Carriage (kg)	
	height h <sub>3</sub> + s (mm)			h <sub>4</sub> (mm)	H8XD6	H9XD6	H8XD6	H9XD6	H8XD6	H9XD6
	3250	3006.5	0	4594	8,500	9,500	8,400	9,400	8,200	9,200
	3500	3131.5	0	4844	8,500	9,500	8,400	9,400	8,200	9,200
	3750	3256.5	0	5094	8,500	9,500	8,400	9,400	8,200	9,200
2 STAGE NFL	4000	3381.5	0	5344	8,500	9,500	8,400	9,400	8,200	9,200
SZ	4500	3631.5	0	5844	8,500	9,500	8,400	9,400	8,200	9,200
	4750	3756.5	0	6094	8,500	9,500	8,400	9,400	8,200	9,200
	5000	3881.5	0	6344	8,500	9,500	8,400	9,400	8,200	9,200
	5500	3881.5	0	6844	8,320	9,320	8,220	9,200	8,080	9,040

#### H10XDS6-H12XD6 RATED CAPACITY KG @ 600 MM LOAD CENTRE

	Lift Lowered Free lift Extended					pin type carr	iage (kg)	Side shift	pin type carı	riage (kg)	QD DFSSFP carriage (kg)		
	height h <sub>3</sub> + s (mm)	height h1 (mm)	height h <sub>2</sub> + s (m)	height h4 (mm)	H10XDS6	H10XD6	H12XD6	H10XDS6	H10XD6	H12XD6	H10XDS6	H10XD6	H12XD6
	2750	3006.5	0	4344	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
	3000	3131.5	0	4594	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
	3250	3256.5	0	4844	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
	3500	3381.5	0	5094	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
	3750	3506.5	0	5344	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
	4000	3631.5	0	5594	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
2 STAGE NFL	4500	3881.5	0	6094	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
2 ST	4750	4006.5	0	6344	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
	5000	4131.5	0	6594	10,500	10,500	12,500	10,400	10,400	12,400	10,100	10,100	12,100
	5500	4131.5	0	7094	10,340	10,320	12,320	10,220	10,200	12,200			
	6000	4631.5	0	7594	10,140	10,120	12,100	10,020	10,000	11,980	Car	oacity will v	ary
	6250	4756.5	0	7844	10,040	10,020	12,000	9,920	9,900	11,880		based on	
	6500	4881.5	0	8094	9,920	9,900	11,880	9,820	9,800	11,760	side s	shift and ba	ck-tilt
	7000	5131.5	0	8594	9,700	9,680	11,640	9,600	9,560	11,520			

### RATED CAPACITIES





_					
Æ	1-1	Manufacturer			HYSTER
GENERAL	1-2	Model designation			H8-12XD6
쁑	1-3	Powertrain / drivetrain			Diesel
	7-1	Engine manufacturer / model			Cummins / QSB 6.7
	7-1a	EPA / CE compliance			Stage IIIA
	7-2	Engine power output according to ISO 1585		kW	116
	7-2-1	Engine power output - Peak		kW	116
ENGINE	7-3	Rated speed		min <sup>-1</sup>	2,300
l Si	7-3-1	Engine torque @rpm (1/min)		Nm/min <sup>-1</sup>	597 @ 1,500
	7-4	Number of cylinders / displacement		# / cm <sup>3</sup>	6 / 6,700
	7-8	Alternator output		Amps	120
	7-9	Electrical system voltage		V	24
	7-10	Battery voltage, rated capacity		V / Ah	24 / 102
	8-1	Drive control / Transmission		Type / #	Hydrodynamic transmission
	8-2	Transmission manufacturer / type		Type / #	ZF / WG161
ш	8-4	Transmission speeds forward / backward		#	3/3
DRIVE	8-5	Coupling		Туре	Torque Converter
	8-6	Wheel drive / drive axle manufacturer / type		Type / #	Kessler D61
	8-11	Service brake		Туре	Oil immersed (wet) disc
	8-12	Parking brake		Туре	Spring applied, dry disc on drive axle
	10-1	Operating pressure for attachments		bar	22.5
	10-2	Oil volume for attachments		I/m	100
	10-3	Hydraulic tank capacity		I	135
	10-4	Fuel tank capacity		I	104 (H8-9XD) / 137 (H10-12XD)
MISC	10-4-1	DEF/AdBlue Tank capacity		I	19
Ξ	10-5	Steering design			Hydraulic power steering
	10-6	Number of steering rotation			4.5
	10-7	Sound pressure level at driver's seat (3)	Lpaz	dB(A)	TBC
	10-7-1	Sound power level during the working cycle (3)	Lwaz	dB	108.5
	10-8	Towing coupling, model / type			Yes / Pin

#### NOTES:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your  $\mathsf{Hyster}^{\texttt{@}}$  truck.

- (1) Based on Stage IV engine and standart pin tyoe carriage
- (2) Travel speed laden/unladen limited at 25 km/h as factory default
- (3) Stage IV engine based on low mount exhaust

All capacities are according to EN1551.

Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CERTIFICATION: Hyster lift trucks meet the design and construction requirements of B56.1-1969, DENTIFICATION: hyster intrucks meet the design and construction requirements of Bob. 1-1909, 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. discussed with your dealer.

 ${\tt NOTE: Specifications, unless otherwise \ listed, are for a standard \ truck \ without \ optional \ equipment.}$ 

Specification data is based on VDI 2198.

Safety: This truck conforms to the current EU and ANSI requirements.

# > FEATURES AND OPTIONS

PERFORMANCE	STD	0PT
Cummins QSB 6.7L Stage IIIA diesel engine 116 kW	Х	
Stage IIIA / Tier 3 compliant	Х	
Powertrain protection system	Х	
Heavy duty air intake	Х	
Heavy duty air intake (raised)		Χ
High mount exhaust	Х	
ZF Transmission WG161 3-speeds forward / 3-speeds reverse auto-shifting	Х	
Kessler D61 drive axle with wet disc brakes	Х	
DRIVE	STD	ОРТ
		01 1
Travel speed limiter - unconditional (adjustable)	X	
Travel speed limiter - loaded (adjustable)	X	
10.00 - 20 16PR Pneumatic Bias Ply drive and steer tyres	Х	
10.00 - R20 Radial Michelin XZM drive and steer tyres		X
10.00 - R20 Radial Trelleborg drive and steer tyres		X
10.00 - 20 Pneumatic Shaped Solid drive and steer tyres		X
Spare wheels and tyres		X
LIFT	STD	0PT
90cc Dual pump hydraulic system	Х	
111cc Dual pump hydraulic system		Х
On-demand load sensing sydraulic system	Х	
Automatic throttle-up when lifting (in neutral or inching)	Х	
2 stage Non Free Lift mast	Х	
2 Stage Full Free Lift mast		Х
3 Stage Full Free Lift mast		Х
Mast tilt - 5° forward / 6° back		Х
Mast tilt - 5° forward / 12° back		X
Mast tilt - 15° Forward / 10° back	.,	Х
Mast tilt - 15° forward / 12° back	Х	
Mast tilt - 20.5° forward / 7° back		X
Hydraulic accumulator		X
Pressure compensated lowering		X
Hydraulic system temperature protection		X
HANDLING	STD	OPT
Short Wheelbase		Х
Mast tilt indicator - mechanical		Х
2400mm (94.3") Pin type standard carriage	Х	
2400mm (94.3") Pin type carriage with simultaneous and independent fork positioner		Х
2400mm (94.3") Pin type integral sideshift carriage		Х
2400mm (94.3") Pin type integral sideshift carriage with		Х
simultaneous fork positioner		^
2400mm (94.3") Pin type integral sideshift carriage with simultaneous and independent fork positioner		Х
2400mm (94.5") QD Hook type dual function sideshift carriage		Х
with simultaneous and independent fork positioner		^
2400mm (94.4") QD Hook type dual function sideshift carriage with simultaneous fork positioner and 2 auxiliary functions		Х
2500mm (98") High load backrest (for lumber applications)		Х
2040mm (80") High load backrest		Х
2500mm (98") High load backrest (for lumber applications)		Х
1220mm x 75mm x 200mm (48" Long x 3" Thick x 7.9" Wide) Forks	Х	
Pin type forks (various sizes)		Х
Pin type forks for lumber applications		Χ
Hook type quick disconnect DFSSFP forks (various sizes)		Х

ERGONOMICS	STD	ОРТ
Open operator compartment (without doors and screens)	Χ	
Enclosed operator cabin		Х
Powered tilt operator compartment for service		Χ
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		Χ
Cloth seat cover		Х
Vinyl seat cover	Х	
Seat heating		Х
2-point high visibility seatbelt	Х	
3-point high visibility seatbelt		Χ
Lateral seat sliding mechanism		Х
Floor mat	Х	
Coat hook	Х	
Front, top and rear wipers	Х	
"H"-pattern front wiper		Χ
"I"-pattern front wiper	Х	
Front and rear window defrosters	Х	
Laminated glass operator compartment front window		Χ
Top window with armoured glass - FOPS certified (Enclosed operator cabin)	Х	
Steel bars under amoured glass top window (Enclosed operator cabin)		Х
Tinted operator compartment windows (all)		Х
Tinted operator compartment top window		Х
Right side door	Х	
Rain top		Х
Lexan top window		Х
Plexiglass shield in front of front window		Х
Wire mesh installed on top of operator compartment		Х
Vertical steel bar front window guard		Х
Operator shield wire mesh		Х
Multifunction display panel	Х	
Mini-lever and rocker switch hydraulic control	Х	
(integrated in arm rest)	<u> </u>	\ \
Seat-side joystick hydraulic control		X
Steering wheel without spinner knob	v	Х
Steering wheel with spinner knob  Directional control lever	Х	v
		X
Hyster Monotrol pedal directional control		Х
Directional Control On Mini-levers or Joystick	Х	V
Self-setting park brake	V	Х
Manual park brake	X	
Interior wide angle mirrors	X	
Heater with 3 speed fan	Х	V
Diesel fueled cabin heater  Telegoping and tilting steering column	v	Х
Telescoping and tilting steering column  USB outlet inside armrest	X	
24-12 DC converter with 2 sockets and 2 USB outlets	Х	Х
Automatic climate control		Х

## FEATURES AND OPTIONS <



ERGONOMICS (continued)	STD	OPT
Reading light		Х
Sun shades on top and rear		Х
Sun visors front window		Х
Trainer seat		Х
Recirculation fan		Х
Accessory Mounting Bar on Cab Front Right Pillar		Х
Document holder on Cab Front Right Pillar		Х
Heated top window		Х
Heated top- and/or rear window		Х
Radio preparation set-up (wiring, two speakers and antenna)		Х
Bluetooth Radio With 2 Speakers and Antenna		Х
Rear axle load indicator		Х
VISIBILITY	STD	ОРТ
Exterior mirrors mounted to cab		Χ
Rear view camera system		Х
Radar object detection system		Х
Halogen work lights	Х	
LED work lights		Х
High Performance LED work lights		Х
Two head lights mounted on front fenders		Х
Four mast mounted work lights		Х
Four cabin mounted work lights		Х
Two rearward work lights mounted on the cabin		Х
LED stop/tail/brake lights	Х	
Turn signals, hazard and marker lights (LED)	Х	
OPERATION	STD	ОРТ
OPERATION Air horn 112 dBA	STD	OPT X
	STD X	
Air horn 112 dBA		
Air horn 112 dBA Electric horn 105 dBA	Х	
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A),	Х	X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting	X	X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear	X	X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm	X	X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system	X	X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch	X	X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)	X	X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown	XXX	X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start	X	X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation	XXX	X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers	XXX	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses	XXX	X X X X X X X X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses  Fuses Partially Replaced by Electric Circuit Breakers	X X X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses  Fuses Partially Replaced by Electric Circuit Breakers  Non-lockable fuel cap	X X	X  X  X  X  X  X  X  X  X  X  X  X  X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses  Fuses Partially Replaced by Electric Circuit Breakers  Non-lockable fuel cap  Lockable fuel cap	X X X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses  Fuses Partially Replaced by Electric Circuit Breakers  Non-lockable fuel cap  Lockable fuel cap  Diesel fuel inlet strainer in filler neck	X X X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses  Fuses Partially Replaced by Electric Circuit Breakers  Non-lockable fuel cap  Lockable fuel cap  Diesel fuel inlet strainer in filler neck  Hyster Tracker wireless asset management system	X X X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses  Fuses Partially Replaced by Electric Circuit Breakers  Non-lockable fuel cap  Lockable fuel cap  Diesel fuel inlet strainer in filler neck  Hyster Tracker wireless asset management system  Hyster Tracker wireless asset management - Access / Verification	X X X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses  Fuses Partially Replaced by Electric Circuit Breakers  Non-lockable fuel cap  Lockable fuel cap  Diesel fuel inlet strainer in filler neck  Hyster Tracker wireless asset management system  Hyster Tracker wireless asset management - Access / Verification  Hyster Tracker wireless asset management - Monitoring	X X X	X X X X X X X X X X X X X X X X X X X
Air horn 112 dBA  Electric horn 105 dBA  Visible alarm – Amber strobe light, key switch activated  Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting  Audible alarm – Reverse direction white noise  Forward / reverse motion alarm  Blue LED spotlight – rear / front and rear  Seatbelt interlock for engine start  Tyre pressure monitoring system  Lockable battery disconnect switch  Battery jump start connector (NATO plug)  "Empty seat" engine shutdown  Key switch start  Key switch start with seat belt interlock for engine start and operation  Electric circuit breakers  Power distribution group with fuses  Fuses Partially Replaced by Electric Circuit Breakers  Non-lockable fuel cap  Lockable fuel cap  Diesel fuel inlet strainer in filler neck  Hyster Tracker wireless asset management system  Hyster Tracker wireless asset management - Access / Verification	X X X	X X X X X X X X X X X X X X X X X X X

OPERATION (continued)	STD	ОРТ
24 volt electrical system	Х	
Engine block heater 110 and 240 volt		Х
Steer wheel lug nut protection		Х
Front mud flaps		Χ
Rear mud flaps		Х
Lifting eyes - 2 front and 2 rear		Х
Wire mesh belly pan		Χ
Wire mesh and plates belly pan		Х
APPEARANCE	STD	ОРТ
Hyster yellow paint base truck	Х	
Special paint base truck		Х
Operator compartment special paint (outside only)		Х
Hazard warning striping on counterweight		Х
SUPPLEMENTAL	STD	ОРТ
Literature package	Х	
Operator's manual	Х	
CE certification*	Х	
Warranty: 12 Months / 2,000 Hours Parts & Labour manufacturer's warranty		Х
Warranty: 12 Months / 2,000 Hours Parts manufacturer's warranty	Х	

<sup>\*</sup>Standard or optional in selected markets. Other options available through Special Products Engineering Department (SPED). Contact Hyster for details.

### > FRONT END EQUIPMENT







### FRONT END EQUIPMENT <



#### 2396MM PIN TYPE CARRIAGE WITH SIMULTANEOUS AND INDEPENDENT FORK POSITIONER (FOR LUMBER APPLICATIONS)





### 2396MM PIN TYPE CARRIAGE WITH SIMULTANEOUS AND INDEPENDENT FORK POSITIONER





#### 2396MM PIN TYPE INTEGRAL SIDESHIFT FRAME CARRIAGE





#### 2398MM QD HOOK TYPE DUAL FUNCTION SIDESHIFT WITH -SIMULTANEOUS AND INDEPENDANT FORK POSITIONER





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