adaptalift GROUP



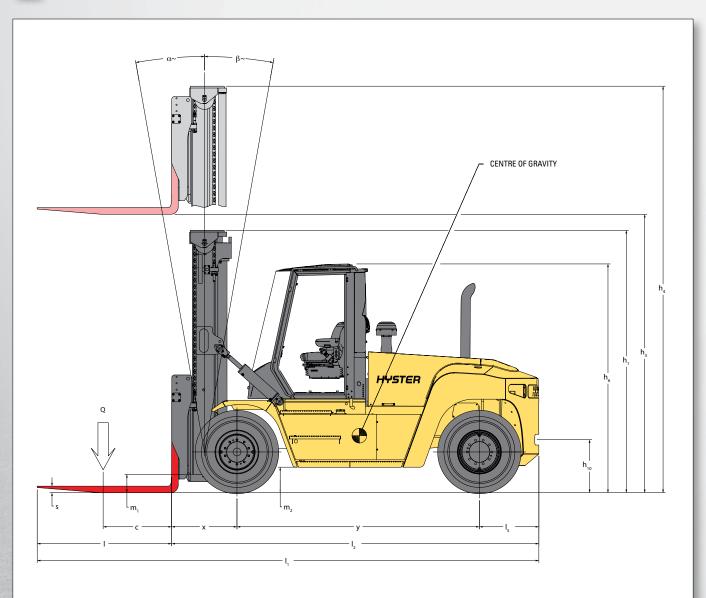


H10-16XD6-12 SERIES TECHNICAL GUIDE

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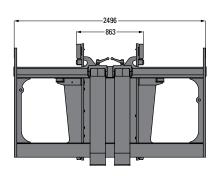
> DIMENSIONS

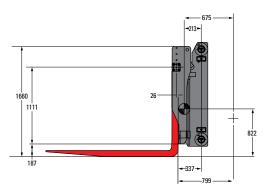


Centre of gravity of unladen truck

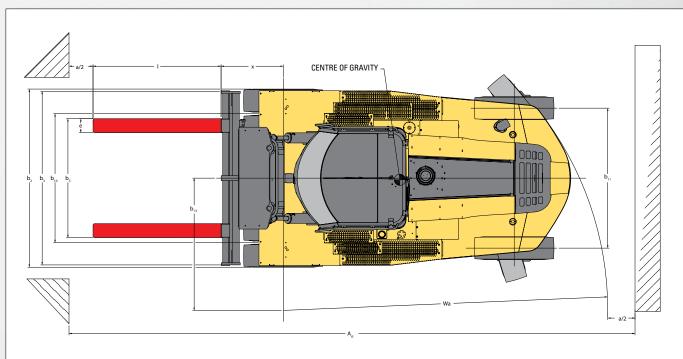
- $A_{ST} \quad = \quad W_a + x + I_6 + a \text{ (if } b_{12}/2 < b_{13}\text{)}$
- $A_{ST} = W_a + ((I_6 + x)^{\Lambda 2} + (b_{12}/2 b_{13})^{\Lambda 0.5} + a \text{ (if } b_{12}/2 > b_{13} \text{ and } W_a > b_{13+} b_{12}/2)$
- $A_{ST} \qquad = \qquad b_{13} + b_{12}/2 \, \left((I_6 + x)^{\wedge 2} + (b_{12}/2 b_{13})^{\wedge 0.5} + a \text{ (if } b_{12}/2 > b_{13} \text{ and } W_a < b_{13+} \, b_{12}/2 \right)$
- a = Minimum operating clearance = 10% of A_{ST}
 - (VDI standard = 200 mm BITA recommendation = 300 mm)
- $I_6 = Ioad lengths$
- b₁₂ = load width

Standard pin type carriage

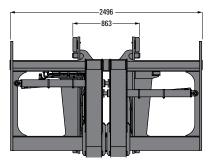


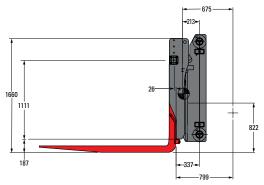


DIMENSIONS <

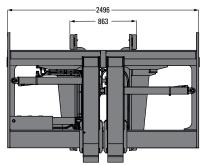


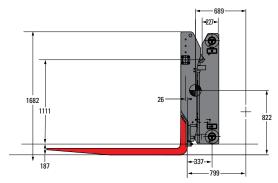
Pin type carriage with fork positioner



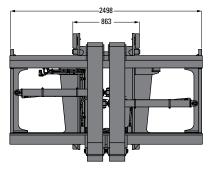


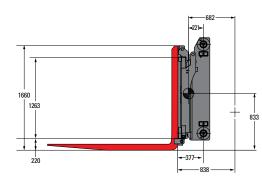
Pin type integral sideshift frame carriage with fork positioner





Dual function sideshift carriage with fork positioner







> H13XD6 / H14XD6 SPECIFICATIONS

_								
	1-1	Manufacturer			HYS.	TER	HYST	ER
	1-2	Model designation			H13>	(D6	H14X	D6
	1-3	Powertrain / drivetrain			Die	sel	Dies	sel
ERA	1-4	Operator type			Sea	ted	Seat	ed
GENERAL	1-5	Rated capacity / rated load	٥	kg	13,5	00	14,5	00
	1-6	Load centre distance	с	mm	60	0	60	ו
	1-8	Load distance	x	mm	88	9	889	
	1-9	Wheelbase	v	mm	3,3	00	3,30	00
н	2-1	Service weight (1)		kg	18,4	03	19,2	08
WEIGHT	2-2	Axle loading with load, front / rear		kg	29,537	2,366	30,970	2,738
ž	2-3	Axle loading without load, front / rear		kg	9,945	8,458	9,927	9,281
	3-1	Tyre type		J	Pneur		Pneun	
	3-2	Tyre size, front			12.00-20	20PR	12.00-20	20PR
ELS	3-3	Tyre size, rear			12.00-20		12.00-20	
WHEELS	3-5	Wheels, number front / rear (x = driven wheels)			4X		4X /	
5	3-6	Tread, front	b ₁₀	mm	1,8		1,84	
	3-7	Tread, rear	b ₁₀	mm	2,0		2,00	
	4-1	Mast tilt, forward / backward	α/β	deg	15° /		15°/	
	4-2	Height, mast lowered	h ₁	mm	4,1		4,19	
	4-2	Free lift	h ₂	mm	-,1		0	
	4-4	Lift	h ₃	mm	4,9			
-	4-5	Height, mast extended	h ₄	mm	6,6		4,910	
	4-7	Height of overhead guard (open cab)	h ₆	mm	3,0		6,648 3,083	
	4-7-1	Height of overhead guard (closed cab)	h ₆	mm			3,11	
	4-7-2	Height of overhead guard (closed cab) Height of overhead guard (closed cab w/ aircon)	h ₆	mm	3,110 3,110			
	4-7-2	Height of overhead guard (closed cab w/ arcchi) Height of overhead guard (closed cab w/ strobe light)	h ₆	mm	3,205		3,110 3,205	
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h ₆	mm	3,259		3,205	
	4-7-5	Height of overhead guard (closed cab w/ work lights) Height of overhead guard (closed cab w/ aircon & strobe light)	h ₆	mm	3,235			
	4-8	Seat height to SIP	h ₇	mm	3,235		3,235 1,903	
	4-12	Coupling height	h ₁₀	mm	71		71	
SN	4-16	Overhang	15	mm	80		809	
DIMENSIONS	4-19	Overall length	l ₁	mm	6,8		6,82	
Me	4-20	Length to face of forks	l ₂	mm	4,9		4,99	
	4-21	Overall width	b ₂	mm	2,5		2,54	
	4-22	Fork dimensions ISO 2331	s/e/l	mm	90 / 200		90 / 200	
Č.	4-23	Fork carriage type	5/8/1		85 mm pin ty		85 mm pin ty	
	4-24	Fork carriage width	b ₃	mm	2,4	_	2,49	-
	4-25	Distance between fork-arms	b ₅	mm	470	2,420	470	2,420
	4-30	Sideshift	bs	mm	470		470 0	
	4-30	Ground clearance, laden, below mast	m ₁	mm	24		24	
	4-31	Ground clearance, raden, below mast	m ₂	mm	34		34	
	4-32	Load dimension $b_{12} \times l_6$ crossways		mm	1,200	1,200	1,200	1,200
	4-34-1-2	Aisle width, with 200 mm operating clearance	Ast	mm	6,8		6,87	
	4-34-1-2	Aisle width, with 10% operating clearance	Ast	mm	7,3		7,34	
	4-34-1-3	Outside turning radius	Wa	mm	4,5		4,58	
	4-35	Internal turning radius	b ₁₃	mm	1,8		1,89	
	4-30 5-1	Travel speed, with / without load (2)	013	km/h	27.4	29.0	27.4	29.0
	5-1-1	Travel speed, with / without load (2)		km/h	27.4 On red		27.4 On req	
붱	5-2	Lifting speed, with / without load		m/s	0.41	0.46	0.41	0.46
AN	5-2	Lowering speed with / without load		m/s	0.41	0.40	0.41	0.48
NS N	5-5	Drawbar pull - 1.6 km/h 1 mph, with / without load		kN	109	111	108	111
PERFORMANCE	5-5 5-5-1	Drawbar pull - stall, with / without load		kN	121	123	121	123
•	5-7	Gradeability - 1.6 km/h 1 mph, with / without load		%	37	37	35	35
	5-7-1	Gradeability - stall, with / without load		%	42	37	39	35
2007		state a state of an and a state of a state o		1.0	12	57		

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

H10XD12 / H16XD6 SPECIFICATIONS <



-								
	1-1	Manufacturer			HYS		HYS	
	1-2	Model designation			H10>		H16	
H	1-3	Powertrain / drivetrain			Die		Die	
GENERAL	1-4	Operator type			Sea			ited
GEN	1-5	Load capacity at load centre, nominal (1)	۵	kg	10,!		-	500
	1-6	Load centre distance	C1	mm	1,2			00
	1-8	Load distance	х	mm	88			39
	1-9	Wheelbase	у	mm	3,3	00	3,3	800
Ŧ	2-1	Service weight (1)		kg	19,:		20,	
WEIGHT	2-2	Axle loading with load, front / rear		kg	27,342	2,514	33,853	2,655
^	2-3	Axle loading without load, front / rear		kg	10,195	9,161	9,908	10,100
	3-1	Tyre type			Pneu	matic	Pneu	matic
10	3-2	Tyre size, front			12.00-2	0 20PR	12.00-2	0 20PR
WHEELS	3-3	Tyre size, rear			12.00-2	0 20PR	12.00-2	0 20PR
Ī	3-5	Wheels, number front / rear (x = driven wheels)			4X	/ 2	4X	/ 2
	3-6	Tread, front	b10	mm	1,8	42	1,8	342
	3-7	Tread, rear	b11	mm	2,0	00	2,0	00
	4-1	Mast tilt, forward / backward	α/β	deg	15° /	12°	15°,	/ 12°
	4-2	Height, mast lowered	h1	mm	4,1	93	4,1	93
	4-3	Free lift	h ₂	mm	())
	4-4	Lift	h ₃	mm	4,9	10	4,9	010
	4-5	Height, mast extended	h4	mm	6,6	48	6,648	
	4-7	Height of overhead guard (closed cab)	h ₆	mm	3,0	83	3,083	
	4-7-1	Height of overhead guard (closed cab)	h ₆	mm	3,110		3,1	10
	4-7-2	Height of overhead guard (closed cab w/ strobe light)	h ₆	mm	3,110		3,110	
	4-7-3	Height of overhead guard (closed cab w/ work lights)	h ₆	mm	3,205		3,205	
	4-7-4	Height of overhead guard (closed cab w/ work lights)	h ₆	mm	3,259		3,259	
	4-7-5	Height of overhead guard (closed cab w/ aircon & strobe light)	h ₆	mm	3,235		3,235	
	4-8	Seat height to SIP	h ₇	mm	1,903		1,903	
	4-12	Coupling height	h ₁₀	mm	71		717	
NS	4-16	Overhang	15	mm	80)9
DIMENSIONS	4-19	Overall length		mm	7,4			328
E E	4-20	Length to face of forks	l ₂	mm	4,9		4,9	
	4-21	Overall width	b ₂	mm	2,5		2,5	
	4-22	Fork dimensions ISO 2331	s/e/l	mm	90 / 200) / 1.830
	4-23	Fork carriage type	3/6/1		85 mm pin ty		85 mm pin ty	
	4-24	Fork carriage width	b ₃	mm	2,4		2,4	
	4-25	Distance between fork-arms	b ₅	mm	470	2,420	470	2,420
		Sideshift	bs	mm	470)
	4-30	Ground clearance, laden, below mast	m ₁	mm	24			15
	4-31	Ground clearance, raden, below mast	m ₂	mm	34			+5 41
	4-32	Load dimension $b_{12} \times l_6$ crossways		mm	1,200	1,200	1,200	1,200
		Aisle width, with 200 mm operating clearance	Ast	mm	8,0		6,8	
	4-34-1-2	Aisle width, with 200 min operating clearance	Ast	mm	8,6		7,3	
	4-34-1-3	Outside turning radius	W _a		8,0			j84 j84
		Internal turning radius		mm				
	4-36		b ₁₃	mm	1,8		1,8	
	5-1	Travel speed, with / without load (2)		km/h	27.4	29.0	27.4	29.0
щ	5-1-1	Travel speed, with load locked / without load (2)		km/h	On re	•		quest
PERFORMANCE	5-2	Lifting speed, with / without load backwards		m/s	0.41	0.46	0.41	0.46
RM	5-3	Lowering speed with / without load		m/s	0.50	0.48	0.50	0.48
RFO	5-5	Drawbar pull - 1.6 km/h 1 mph, with / without load		kN	109	111	108	111
ä	5-5-1	Drawbar pull - stall, with / without load		kN	121	123	120	123
	5-7	Gradeability - 1.6 km/h 1 mph, with / without load		%	40	34	32	38
	5-7-1	Gradeability - stall, with / without load	L	%	46	34	36	38

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



MAST AND CAPACITY INFORMATION

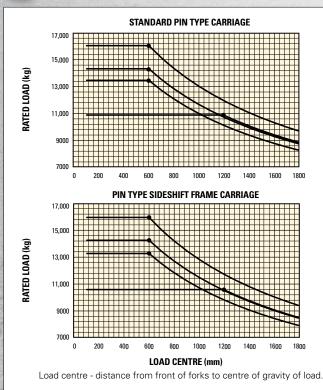
H13XD6 - H14XD6 RATED CAPACITY KG@ 600 MM LOAD CENTRE

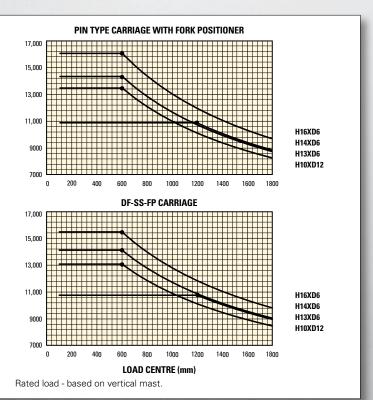
	Lift height	Lowered	Lowered Free lift height height Ex	Extended height	Standard pin type carriage (kg)		Sideshift frame pin type carriage (kg)		QD DFSSFP carriage (kg)	
		$h_2 + s (m)$	h4 (mm)	H13XD6	H14XD6	H13XD-6	H14XD6	H13XD6	H14XD6	
	2750	3068	0	4398	13,500	14,500	13,400	14,500	13,100	14,400
	3000	3193	0	4648	13,500	14,500	13,400	14,500	13,100	14,400
	3250	3318	0	4898	13,500	14,500	13,400	14,500	13,100	14,400
	3500	3443	0	5148	13,500	14,500	13,400	14,500	13,100	14,400
	3750	3568	0	5398	13,500	14,500	13,400	14,500	13,100	14,400
	4000	3693	0	5648	13,500	14,500	13,400	14,500	13,100	14,400
E AGI	4500	3943	0	6148	13,500	14,500	13,400	14,500	13,100	14,400
2 STAGE NFL	4750	4068	0	6398	13,500	14,500	13,400	14,500	13,100	14,400
	5000	4193	0	6648	13,500	14,500	13,400	14,500	13,100	14,400
	5500	4443	0	7148	13,320	14,320	13,160	14,320		
	6000	4693	0	7648	13,100	14,140	12,940	14,140	Capacity	will vary
	6250	4818	0	7898	12,980	14,040	12,840	14,040	base	d on
	6500	4943	0	8148	12,880	13,940	12,720	13,940	side shift a	nd back-tilt
	7000	5193	0	8648	12,600	13,740	12,460	13,740		

H10XD12 - H16XD6 RATED CAPACITY KG@ 600 MM LOAD CENTRE

	Lift	height height height Extended height		beight beight Extended height		Standard pin ty	pe carriage (kg)	Sideshift fra carria		QD DFSSFP carriage (kg)	
	$h_3 + s (mm)$	h ₁ (mm)	$h_2 + s (m)$	h4 (mm)	H10XD12	H16XD6	H10XD12	H16XD6	H10XD12	H16XD6	
	2750	3068	0	4398	10,500	16,500	10,400	16,400	10,200	16,100	
	3000	3193	0	4648	10,500	16,500	10,400	16,400	10,200	16,100	
	3250	3318	0	4898	10,500	16,500	10,400	16,400	10,200	16,100	
	3500	3443	0	5148	10,500	16,500	10,400	16,400	10,200	16,100	
	3750	3568	0	5398	10,500	16,500	10,400	16,400	10,200	16,100	
	4000	3693	0	5648	10,500	16,500	10,400	16,400	10,200	16,100	
STAGE NFL	4500	3943	0	6148	10,500	16,500	10,400	16,400	10,200	16,100	
2 ST N	4750	4068	0	6398	10,500	16,500	10,400	16,400	10,200	16,100	
	5000	4193	0	6648	10,500	16,500	10,400	16,400	10,200	16,080	
	5500	4443	0	7148	10,340	16,320	10,220	16,200			
	6000	4693	0	7648	10,180	16,120	10,060	15,920	Capacity	will vary	
	6250	4818	0	7898	10,100	16,000	9,980	15,800	base		
8	6500	4943	0	8148	10,020	15,880	9,900	15,680	side shift a	nd back-tilt	
	7000	5193	0	8648	9,820	15,600	9,700	15,400			

RATED CAPACITIES







1	-1	Manufacturer		HYSTER
<u>ا با</u>	-2	Model designation		H13XD6 / H14XD6 / H10XD12 / H16XD6
1 GEV	-3	Powertrain / drivetrain		Diesel

_			 	
	7-1	Engine manufacturer / model		Cummins / QSB 6.7
	7-1a	EPA / CE compliance		Stage IV
	7-2	Engine power output according to ISO 1585	kW	122
	7-2-1	Engine power output - Peak	kW	125
ENGINE	7-3	Rated speed	min ⁻¹	2,300
N.	7-3-1	Engine torque @rpm (1/min)	Nm/min ⁻¹	732 @ 1,500
	7-4	Number of cylinders / displacement	# / cm3	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 D81
	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		l/m	100
	10-3	Hydraulic tank capacity		1	140
	10-4	Fuel tank capacity		1	158
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	105.1
	10-7-1	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 Hyster[®] truck.

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

All capacities are according to EN1551.

NOTICE:

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.

Hyster products are subject to change without notice.

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, 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.

NOTE: Specifications, unless otherwise listed, are for a standard truck without optional equipment.

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

Specification data is based on VDI 2198.



> FEATURES AND OPTIONS

PERFORMANCE	STD	ОРТ
Cummins QSB 6.7L diesel engine rated 122 kW Stage IV /		0.1
164 hp Tier 4F	X	
Stage IV / Tier 4 compliant	Х	
Variable geometry turbocharger, water cooled	Х	
Hibernate Idle	Х	
On-demand cooling fan	Х	
Performance modes	Х	
Powertrain protection system	Х	
Heavy duty air intake	Х	
Heavy duty air intake (raised)		Х
Low mount exhaust (below chassis)	Х	
High mount exhaust		Х
ZF Transmission WG161 3-speeds forward/3-speeds	х	
reverse auto-shifting Kessler D81 drive axle with wet disc brakes	X	
		ODT
DRIVE	STD	OPT
Speed limiter - unconditional and customer adjustable		Х
Travel speed limiter - loaded (adjustable)	Х	
12.00 - 20 20PR Trelleborg Pneumatic Bias Ply drive and steer tyres	Х	
12.00 - R20 Michelin XZM Radial drive and steer tyres		Х
12.00 - R20 Trelleborg Radial drive and steer tyres		Х
12.00 - 20 Pneumatic Shaped Solid drive and steer tyres		Х
Spare wheels and tyres		Х
LIFT	STD	OPT
90cc dual pump hydraulic system	X	
111cc dual pump hydraulic system		Х
	X	X
111cc dual pump hydraulic system		X
111cc dual pump hydraulic system On-demand load sensing hydraulic system	X	X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching)	X X	X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces	X X X	X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast	X X X	
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast	X X X	X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast	X X X	X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back	X X X	X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back	X X X	X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 15° Forward / 10° Back	x x x x	X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 15° Forward / 12° Back	x x x x	X X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back	x x x x	X X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 10° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Hydraulic accumulator	X X X X	X X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 10° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Hydraulic accumulator Pressure compensated lowering	X X X X	X X X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 10° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Hydraulic accumulator Pressure compensated lowering Hydraulic system temperature protection	X X X X X	X X X X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 10° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Hydraulic accumulator Pressure compensated lowering Hydraulic system temperature protection HANDLING	X X X X X	X X X X X X X X X X OPT
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Hydraulic accumulator Pressure compensated lowering Hydraulic system temperature protection HANDLING Mast tilt indicator - mechanical	X X X X X X X STD	X X X X X X X X X X OPT
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Hydraulic accumulator Pressure compensated lowering Hydraulic system temperature protection HANDLING Mast tilt indicator - mechanical 2400mm (94.3") Pin type carriage with simultaneous and	X X X X X X X STD	X X X X X X X X X X X X X X X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 10° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Mydraulic accumulator Pressure compensated lowering Hydraulic system temperature protection HANDLING Mast tilt indicator - mechanical 2400mm (94.3") Pin type carriage with simultaneous and independent fork positioner 2400mm (94.3") Pin type integral sideshift carriage 2400mm (94.3") Pin type integral sideshift carriage	X X X X X X X STD	X X X X X X X X OPT X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Hydraulic accumulator Pressure compensated lowering Hydraulic system temperature protection HANDLING Mast tilt indicator - mechanical 2400mm (94.3") Pin type standard carriage 2400mm (94.3") Pin type integral sideshift carriage with simultaneous fork positioner 2400mm (94.3") Pin type integral sideshift carriage with	X X X X X X X STD	X X X X X X X X X V V V V V V X X X X X
111cc dual pump hydraulic system On-demand load sensing hydraulic system Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2 Stage Non Free Lift mast 2 Stage Full Free Lift mast 3 Stage Full Free Lift mast 3 Stage Full Free Lift mast Mast tilt - 5° Forward / 6° Back Mast tilt - 5° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 15° Forward / 12° Back Mast tilt - 20.5° Forward / 7° Back Hydraulic accumulator Pressure compensated lowering Hydraulic system temperature protection HANDLING Mast tilt indicator - mechanical 2400mm (94.3") Pin type carriage with simultaneous and independent fork positioner 2400mm (94.3") Pin type integral sideshift carriage 2400mm (94.3") Pin type integral sideshift carriage with simultaneous fork positioner	X X X X X X X STD	X X X X X X X X X X 0PT X X X X X X X

HANDLING (continued)	STD	OPT
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
1760mm (69") high load backrest		Х
2010mm (79") 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		Х
Hook type quick disconnect DFSSFP forks (various sizes)		Х
ERGONOMICS	STD	ОРТ
Open operator compartment (without doors and 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	X	
High backrest seat		х
Additional armrest on left side		х
Cloth seat cover		х
Vinyl seat cover	х	
Seat heating		Х
Seat ventilation		х
2-point high visibility seatbelt	x	
3-point high visibility seatbelt		х
Lateral seat sliding mechanism		X
Floor mat	x	
Coat hook	X	
Dimmable interior light		x
Front, top and rear wipers	x	
		x
"H"-pattern front wiper	v	^
"I"-pattern front wiper	X	v
Laminated glass operator compartment front window Top window with armoured glass - FOPS certified (enclosed		Х
operator cabin)	X	
Steel bars under amoured glass top window (enclosed operator cabin)		Х
Tinted operator compartment windows (all)		Х
Tinted operator compartment top window		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
7" Integrated performance display	Х	
Touchpoint™ mini levers hydraulic control integrated in control arm	Х	
Joystick hydraulic control integrated in control arm		Х

FEATURES AND OPTIONS <



ERGONOMICS (continued)	STD	OPT
Steering wheel without spinner knob		Х
Steering wheel with spinner knob	Х	
Directional control lever	Х	
Hyster Monotrol pedal directional control		Х
Directional control on Mini-levers or Joystick		Х
Park brake - manual	Х	
Park brake - automatic		Х
Interior wide angle mirrors	Х	
Heater with adjustable speed fan	Х	
Diesel fueled cabin heater		Х
Telescoping and tilting steering column	Х	
DC/DC converter 24 volt/12 volt with socket		Х
Air conditioning		Х
Automatic climate control		Х
Reading light		Х
Sun shades on top and rear		Х
Sun visors front window		Х
Trainer seat		х
Recirculation fan		X
Additional recirculation fan		X
Accessory mounting bar on cab front right pillar		X
Document holder on cab front right pillar		X
Heated top- and/or rear window		X
Radio preparation set-up (wiring, two speakers and antenna)		X
Bluetooth radio with 2 speakers and sntenna		X
VISIBILITY	STD	OPT
Exterior mirrors mounted to cab		X
Rear view camera system		X
		x
Radar object detection system	v	^
Halogen work lights LED work lights	X	x
6		
High Performance LED work lights		X
Two head lights mounted on front fenders		X
Four mast mounted work lights		X
Four cabin mounted work lights		X
Two rearward work lights mounted on the cabin	~	Х
LED stop/tail/brake lights	X	
Turn signals, hazard and marker lights (LED)	Х	
OPERATION	STD	OPT
Air horn 112 dBA		Х
Electric horn 105 dBA	Х	
	X	
Visible alarm – amber strobe light, key switch activated Visible alarm – amber strobe light, switch and key		v
Visible alarm – amber strobe light, key switch activated Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A),	X	Х
Visible alarm – amber strobe light, key switch activated Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	X	
Visible alarm – amber strobe light, key switch activated Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting Audible alarm – reverse direction white noise	X	X
Visible alarm – amber strobe light, key switch activated Visible alarm – amber strobe light, switch and key switch activated* Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting	X	

OPERATION (continued)	STD	OPT
Tyre pressure monitoring system		Х
Air-conditioning or automatic Cclimate control off with open door		Х
Automatic truck shutdown with timer		Х
Preventative maintenance reminder in display		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
Seatbelt interlock for truck start		Х
Power distribution group with fuses	Х	
Fuses partially replaced by electric circuit breakers		Х
Non-lockable fuel cap	Х	
Lockable fuel cap		Х
Diesel fuel inlet strainer in filler neck		Х
Hyster Tracker wireless asset management system		Х
Hyster Tracker wireless asset management - Access / Verification		Х
Hyster Tracker wireless asset management - Monitoring		Х
Auto greasing system for basic truck and outer mast		Х
Centralized greasing provision for upper chain sheaves	Х	
24 volt electrical system	Х	
Engine block heater 110 and 240 volt		Х
Steer wheel lug nut protection		Х
Front mud flaps		Х
Rear mud flaps		Х
Lifting eyes - 2 front and 2 rear		Х
Wire mesh belly pan		Х
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
Operator compartment special paint (complete cabin)		Х
Hazard warning striping on counterweight		Х
SUPPLEMENTAL	STD	OPT
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	

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





RANGE OF PIN TYPE AND HOOK TYPE FORKS



2496MM PIN TYPE STANDARD CARRIAGE





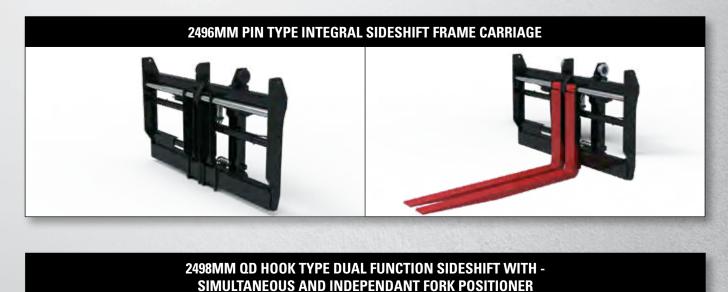




2496MM PIN TYPE CARRIAGE WITH SIMULTANEOUS AND INDEPENDENT FORK POSITIONER







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Service Centres

VICTORIA

Bendigo Warrnambool Ballarat Shepparton Wondonga Mildura

TASMANIA

Hobart Launceston Burnie

NEW SOUTH WALES

Dubbo Griffith Tamworth Newcastle Wollongong Canberra Tumut Bathurst Wagga Wagga Albury Gosford Coffs Harbour

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