



H18-23XM-12EC

8 500 - 9 000 KG @ 1220 MM

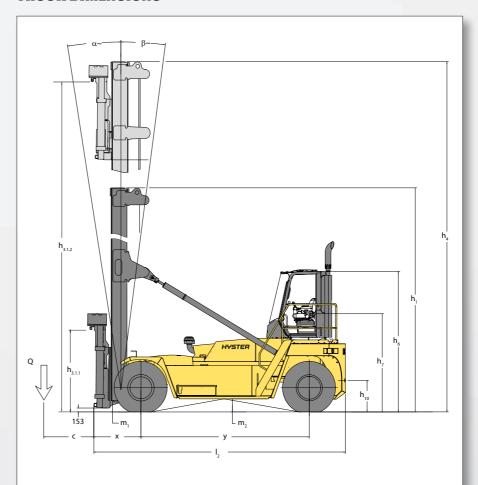


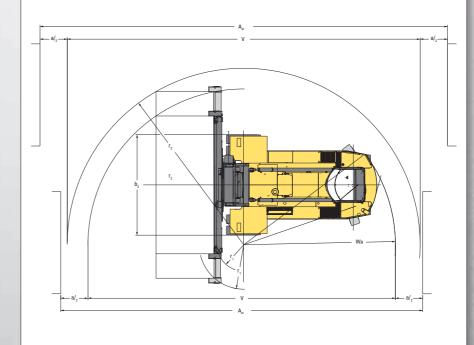
H18-23XM-12EC

	1.1	Manufacturer (abbreviation)		HYS	TER	HYS	TER	HYS	TER	HYS	STER
2	1.2	Manufacturer's type designation			И-12EC		M-12EC		M-12EC		И-12EC
DISTINGUISHING MARKS	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas Operator type: hand, pedestrian, standing, seated, orderpicker			esel ated		isel ited		isel ited		esel ated
	1.5	Rated capacity/rated load	Q (kg)		.5		.5		.0		1.0
ens Ens	1.6	Load centre	c (mm)		220		220	1,2			220
NE S	1.8	Load distance, centre of drive axle to face of side lift spreader without / with PPS		1,260	1,332	1,260	1,332	1,320	1,392	1,320	1,392
▋▔	1.9	Wheelbase	y (mm)	4,500 4,500		500	4,500		4,	500	
	1.10.1	Stacking height at first row (number x container height, in feet)		6 x			8'6"	2 on 5/			/8 x 8′6″
	1.10.2	Stacking height at first row (number x container height, in feet)		5 x	9'6"	6 x	9'6"	2 on 4/	6 x 9′6″	2 on 5/	/7 x 9′6″
S	2.1	Service weight ●	kg	33,	404	34,	469	36,	354	38,	919
WEIGHTS	2.2	Axle loading, laden front / rear	kg	35,323	6,582	36,514	6,456	36,661	8,693	37,751	10,169
1	2.3	Axle loading, unladen front / rear	kg	22,138	11,266	23,329	11,140	22,581	13,773	23,671	15,249
-	0.4	T									
2	3.1	Tyres: L = pneumatic, V = cushion, SE = Pneumatic Shape Solid		14.00	24 24PR		L 24 24PR		L 24 24PR		L 24 24PR
TYRES / CHASSIS	3.3	Tyre size, front Tyre size, rear			24 24FR 24 24PR		24 24FR 24 24PR		24 24FR 24 24PR		24 24FR 24 24PR
S/G	3.5	Number of wheels, front / rear (X = driven)			/2		/2		/2		1/2
	3.6	Tread, front ← →	b ₁₀ (mm)	3,280	3,505	3,280	3,505	3,280	3,505	-	3,505
Ľ	3.7	Tread, rear	b ₁₁ (mm)	2,1	108	2,1	08	2,1	08	2,	108
	4.1	Tilt of mast / fork carriage forward / backward	[0 [0]	4	3	4	3	4	3	4	3
	4.1	Height, mast lowered O	α /β (°) h, (mm)		3 92		792	9,4			,792
	4.3	Free lift	h ₂ (mm)		0))		0
	4.4.1	Lift height at load centre c 1, minimum ★	h _{3.1.1} (mm)	2,3	350	2,3	350	2,4	126	2,4	426
	4.4.2	Lift height at load centre c 1, maximum *	h _{3.1.2} (mm)	16,	200	18,	800	16,	276	18,	876
	4.5	Height, mast extended O	h ₄ (mm)		417		017	16,			,017
	4.7	Height of cabin w/o / with airco	h ₆ (mm)	3,872	3,905	3,872	3,905	3,872	3,905	3,872 4,004	3,905 4,063
	4.7.1	Height of cabin with strobe light / with work lights Height of cabin with airco and strobe light	h _s (mm)	4,004	4,063 078	4,004	4,063	4,004	4,063	-	4,063 078
	4.8	Seat height relating to SIP •	h ₂ (mm)	2,704			704	2,704		2,704	
<u></u>	4.19	Overall length ◆	I ₁ (mm)	9,165	9,237	9,165	9,237	9,225	9,297	9,225	9,297
DIMENSIONS	4.20	Length to face of side lift spreader w/o / with PPS	I ₂ (mm)	6,727	6,799	6,727	6,799	6,787	6,859	6,787	6,859
1	4.21	Overall width ← →	b ₂ (mm)	4,108	4,333	4,108	4,333	4,108	4,333	-	4,333
•	4.24	Spreader width, retracted/extended Ground clearance, laden, below mast	b ₃ (mm)	6,084	12,218 10	6,084	12,218 10	6,566	12,700	6,566	12,700 10
	4.32	Ground clearance, raterly below mass	m ₁ (mm) m ₂ (mm)		11		11	4			11
	4.34.3.1	Aisle width with 20' container without operating clearance	Ast20 (mm)		984		984		043		,043
	4.34.3.2	Aisle width with 20' container with 200 mm operating clearance	Ast20 (mm)	10,	184	10,	184	10,	243	10,	243
	4.34.3.3	Aisle width with 20' container with 10% operating clearance	Ast20 (mm)		982		982	11,			,047
	4.34.4.1	Aisle width with 40' container without operating clearance	Ast40 (mm)	13,		13,			235		235
	4.34.4.2	Aisle width with 40' container with 200 mm operating clearance Aisle width with 40' container with 10% operating clearance	Ast40 (mm) Ast40 (mm)		951 126		951 126		235 438		,235 ,438
	4.35	Turning radius	Wa (mm)		240		240		240		240
	4.36	Internal turning radius	b ₁₃ (mm)		145	2,4			145		445
		the state of the s									
	5.1	Travel speed, laden / unladen 🚩	km/h	20	25	20	25	20	25	20	25
	5.1.1	Travel speed, laden & unlocked / unladen	km/h	NA 0.50	NA 0.04	NA 0.50	NA 0.04	10	25	10	25
.	5.2	Lift speed, laden / unladen	m/s	0.58	0.64	0.58	0.64	0.58	0.64	0.58	0.64
ADDITIONAL DATA	5.2.1 5.3	Lift speed, laden with 70% load Lowering speed, laden / unladen	m/s m/s	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
	5.5	Drawbar pull, laden / unladen	kN	162	164	162	163	162	163	161	163
	5.5.1	Drawbar pull, laden / unladen	kN	200	203	199	203	199	203	200	203
	5.7	Gradeability, laden / unladen *†	%	39	34	35	34	35	34	38	33
	5.7.1	Gradeability, laden / unladen ≭ †	%	51	34	45	34	45	34	49	33
	5.9	Acceleration time, laden/unladen	s	TBA	TBA	TBA	TBA	TBA	TBA	TBA	TBA
•	10.1	Oti	MDa	20) F	20) F	20) F	2.	2.5
	10.1	Operating pressure for attachments Oil volume for attachments	MPa I/min		2.5 00		2.5 00		2.5 00		2.5 00
A A	10.2	Hydraulic oil tank, capacity	1		68		68		68		68
ğ	10.4	Fuel tank, capacity	1		50		50		50		50
PERFORMANCE DATA	10.5	Steering design		Hydraulic po	wer steering	Hydraulic po	wer steering	Hydraulic po	wer steering	Hydraulic po	ower steering
	10.6	Number of steering rotation			.4		.4		.4		.4
	10.7	Sound pressure level at the driver's seat LpAZ *	dB (A)		3.3		3.3		3.3		8.3
8	10.7.1	Sound power level during the workcycle LwAZ	dB (A)	N	IA .	N	А	N	A	N	IA

Specification data is based on VDI 2198

TRUCK DIMENSIONS





r₁ = radius of swing of container attachment rear corner

 r_2 = radius of swing of container front corner

Wa = outside turning radius of the truck

a = total operating clearance, a/2 is operating clearance at each side

a = 10% of V

V = (theoretical) 90 ~ stacking aisle width, no intrusive stacking width clearance

 $A_{ST} = V + a$

 $A_{ST} = V + 10\% \text{ of } V$

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.

- Weights are based on the following specifications: Complete truck with cab, pneumatic tyres, mast and 20' -40' spreader as specified.
- ← Standard axle / wide axle
- O Unladen with new tyres
- * Spreader, distance from ground to twistlocks.
- Full suspension seat in depressed position
- Including 8' load with MPS / with PPS
- □ Length to load face of attachment with MPS / with PPS
- © Centre of truck to centre of inner turning
- ▼ Travel speed laden/unladen limited at 25 km/h as factory default
- * at 1.6 km/h.
- **x** at stall.
- † Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
- ★ Measured according to the test cycles and based on the weighting values contained in EN12053.

NOTICE:

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that the mast tilt in either direction is kept to a minimum when loads are elevated.

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

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

C ← Safety:

This truck conforms to the current EU requirements.

MAST AND CAPACITY INFORMATION

H18XM-12EC - 8 500 kg @ 1 220 mm

	Stacking Height single		Lift Height minimum h _{3.1.1} (mm)	Lift Height maximum h _{3.12} (mm)	Height mast lowered h ₁ (mm)	Height mast extended h ₄ (mm)	Mast tilt (fwd/bwd) (°)	Side Shift b _s (mm)	Overall Width b ₂ (mm)		Rated Capacity (kg)	
9′ 6	6"	8′ 6″	2,350	16,200	9,492	16,417	4/3	600	4,120	4.345	8,500	
5		6	-,	11,255	-,	,			.,	,,,,,,,	-,	

H18XM-12EC - 8 500 kg @ 1 220 mm

Hei	cking ight	Lift Height minimum h _{3.1.1} (mm)	Lift Height maximum h _{3.12} (mm)	Height mast lowered h ₁ (mm)	Height mast extended h ₄ (mm)	Mast tilt (fwd/bwd) (°)	Side Shift b _s (mm)	Overall Width b ₂ (mm)		Rated Capacity (kg)	
9′ 6″	8′ 6″	2.250	10 000	10.702	10.017	4/3	600	4,120	4.345	8,500	
6	7	2,350	18,800	10,792	19,017	4/3	600	4,120	4,340	8,500	

H22XM-12EC - 9 000 kg @ 1 220 mm

Stacking Height single double		Lift Height minimum h _{3.1.1} (mm)	Lift Height maximum h _{3.12} (mm)	Im lowered extended h ₁ h ₄		Mast tilt (fwd/bwd) (°)	Side Shift b _s (mm)	Overall Width b ₂ (mm)		Rated Capacity (kg)
9′ 6″	8′ 6″									
5	6	2,426	16,276	9,492	16,417	4/3	600	4,120	4,345	9,000
6	7									

H23XM-12EC - 9 000 kg @ 1 220 mm

	Stacking Height single double		Lift Height minimum	Lift Height maximum	Height mast lowered h,	Height mast extended h ₄ (mm)	Mast tilt (fwd/bwd)	Side Shift b _s (mm)	Overall Width b ₂ (mm)	Rated Capacity (kg)
			h _{3.1.1} (mm)	h _{3.1.2} (mm)	(mm)		(°)	(11111)		1491
	9′ 6″	8′ 6″								
	5	6	2,426	18,876	10,792	19,017	4/3	600	4,345	9,000
	6	7								

POWERTRAINS AND SPREADERS

ĕ	1.1	Manufacturer (abbreviation)		HYS	TER
DESIGNATION	1.2	Manufacturer's type designation		H18XN	I-12EC
器	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Die	sel
		The second secon			
	7.1	Engine manufacturer / type		Cummins	QSB 6.7
	7.2	Engine output according to ISO 1585	kW / min ⁻¹	164	2,000
	7.2.1	Max. engine power according to ISO 1585	kW / min ⁻¹	172	1,800
Į	7.3	Rated speed	min-1	2,	000
POWER UNIT	7.3.1	Torque at 1/min	Nm / min ⁻¹	949	1,400
ᅙ	7.4	Number of cylinders / displacement	(-)/cm ³	6	6,690
	7.5.1	Fuel consumtion according to VDI cycle	l/h	On re	quest
	7.5.2	Alternator	A	1	20
	7.10	Battery voltage/nominal capacity	(V)/(Ah)	24	102
	-9 11	The second secon			
	8.1	Type of drive unit		Torque	Converter
I	8.2	Transmission manufacturer / type		ZF	5WG211
Ë	8.6	Wheel drive / drive axle manufacturer / type		Axle Tech	PRC1756W3H
DRIVE TRAIN	8.4	Service brake		Oil imme	ersed disc
	8.5	Parking brake		Dry disc o	n drive axle
100	Marin.	COLUMN TO SHARE A SHARE THE REAL PROPERTY OF THE PARTY OF	Name and Address of the Owner, where		
	9.1	Manufacturer / type		ELME	588TB
	9.1.1	Pile slope spreader; mechanically	(mm)	+/-	225
SPREADER	9.1.2	Pile slope spreader; hydraulically powered (optional)	(°)	+/	- 6
뿙	9.3	Size of containers	feet (')	20	§ 40
I ″_	9.4	Side shift	b ₈ (mm)	+/-	600
	9.4.1	Telescoping time, extend / retract	S	12	12
				12	IZ

MODELS, STACKING HEIGHTS AND CAPACITIES

The Hyster Empty Container Handlers range H18-23XM-12EC consists of following models:

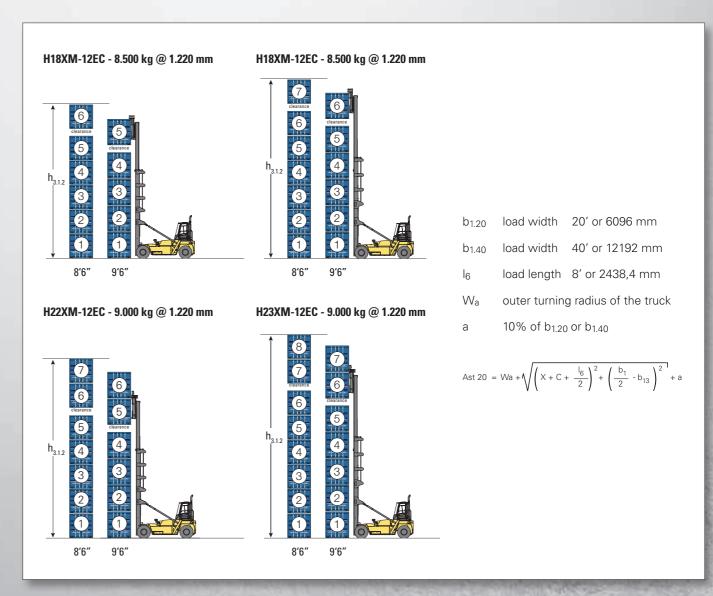
- H18XM-12EC Empty Container Handler, maximum 8500 kg, stacking 6 x 8'6" high or 5 x 9'6" high single containers.
- H18XM-12EC Empty Container Handler, maximum 8500 kg, stacking 7 x 8'6" high or 6 x 9'6" high single containers.
- H22XM-12EC Empty Container Handler, maximum 9000 kg, stacking '2 on 5/7' x 8'6" high or '2 on 4/6' x 9'6" high double containers, and also: 6 x 8'6" high or 5 x 9'6" high single containers.
- H23XM-12EC Empty Container Handler, maximum 9000 kg, stacking '2 on 6/8' x 8'6" high or '2 on 5/7' x 9'6" high double containers, and also: 7 x 8'6" high or 6 x 9'6" high single containers.

All capacities are according to ISO 10525.

Warning: Care must be exercised when handling elevated loads. When the spreader and/or load is elevated, truck stability is reduced. It is important that mast tilt be kept in back-tilted position or maximum in vertical position when mast / loads are elevated. Operators must be trained and adhere to the instructions contained in the Operating Manual.



LIFT HEIGHT TO HANDLE 8'6" - 9'6" HIGH CONTAINERS



FRONT END EQUIPMENT



Range of 2 stage NFL masts



Double handling spreader model 582LA with 2 horizontal Twistlocks + Powered Pile slope

Double handling spreader model 584L -B,D,F



Single handling spreader model 586, 588, 589

STANDARD EQUIPMENT

- Cummins QSB 6.7L 164 / max 172 KW @ 1.800 rpm Turbo Diesel Engine
 - Stage IIIA Compliant
 - ECO-eLo / HiP performance modes
 - Hibernate Idle
- ZFWG 211 5 speed forward/3 speed reverse Automatic Transmission
- 2-stage NFL mast 1:4 lift ratio with 13.800 mm and 16.450 mm lift
- Spreader
 - Single handling: ELME 588TB Side lift with vertical
- Double handling: ELME 584LD Side lift with hooks & side clamps
- Wet Disc Brakes
- Standard Axle Tech PRC 1756 W3H Drive Axle, 4108 mm or 4.333 mm width for H23XM-12EC
- Hyster steer axle with hydrostatic power steering
- DANFOSS dual piston variable displacement pump 150 ccm (75 + 75 ccm)
- Hydraulic Control Joystick
- Mast Tilt: 4° Forward / 3° Backward

- Directional Control Lever
- Enclosed Cab without Air Conditioning includes:
 - Multifunction Display Panel
 - Interior Wide Angle Mirrors
 - Mirrors on front fenders
 - -Telescoping & Tilting Steering Column
 - Floor Mat
 - I-style Front screen Wiper
 - Heater
 - Re-circulation Fan
- Powered Tilt Operator Compartment
- Tyres Drive and Steer
- - 14.00- 24 24PR Standard pneumatic
- Steering Wheel with Spinner Knob
- Air Horn
- Mechanical, Full Suspension Vinyl or Cloth Seat with integrated adjustable armrest and orange Hi-Vis seat belt
- Operator Restraint System
- Operator Presence System
- Hydraulic Accumulator in hoist
- Non-locking Fuel Cap
- Lockable Battery Disconnect Switch

- 24V Electrical System
- 120 A Alternator
- Light Kit 1
 - LED rear cluster with stop, reverse and direction light
 - 4 x Halogen drive lights mounted on front fender
 - 4 x Halogen working lights mounted on front of the cab
 - 2 x Halogen working lights mounted on rear of cab
- Self-adjustable back up Alarm volume > 5dB(A) ambient
- Amber strobe light- ignition key and switch activated
- Non-Locking Fuel Cap
- Literature Package
 - Operator's Manual
- Warranty
 - 12 Months / 2,000 Hours Manufacturer's Warranty

OPTIONAL EQUIPMENT

- Masts (SPED)
 - 2-Stage NFL Mast 7x8'6 / 7x9'6" with maximum lift height of 18550 mm
 - 2-Stage NFL Mast 8x8'6 / 7x9'6" with maximum lift height of 19050mm
- Spreader
 - ELME 586TB Side lift with vertical Twist locks with removable block
 - ELME 589TB Side lift with moveable vertical Twist locks for wide container
 - ELME 584LB Side lift with hooks & side clamps
 - ELME 584LF Side lift with hooks & side clamps
 - ELME 582LA Side lift with double horizontal Twist locks with powered pile-slope
 - ELME 584LA Side lift with hooks and side clamps, with no container detection
- Drive axles
 - Extra wide Axle Tech PRC 1756 W3H 4.333 mm width (standard for H23XM-12EC)
- Steer axle with hydrostatic power steering with turning limitation for better tyre live
- Tyres Drive and Steer
 - 14.00- R24 Trelleborg solids
 - 14.00- R24 MICHELIN XZM radial
- 14.00- R24 Trelleborg radial
- Rear Mud Flaps
- Steer Wheel Nut Protection

- Cab options
 - -Top and rear sun shades
 - Air conditioner, manual controlled
 - Air conditioner, automatically controlled
 - High Performance Air conditioner, manual controlled
 - High Performance Air conditioner,
 - automatically controlled - Reading light

 - -Trainer seat
 - Circulation Fan
 - IT console for on-board computer
 - Storage console
 - Heated top window
 - Engine start interlock
 - Radio preparation, inclusive wire, two speakers and antenna
 - H-style Front screen Wiper
 - -Wire mesh protection guard on Top of cab
- 24-12V DC/DC Converter
- Pressure compensated lowering
- - Mechanical, Full Suspension High backrest Vinyl or Cloth Seat
 - Pneumatic, Full Suspension Vinyl or Cloth Seat
 - Pneumatic, Full Suspension High backrest Vinyl or
 - Deluxe Air Suspended Full Suspension Cloth Seat
 - Heated Deluxe Air Suspended Full Suspension Cloth Seat
- 3-point seat belt for Deluxe Seat
- Various Light Kits
- Lockable diesel fuel cap
- Storage Box for keeping TL on gangway of basic
- Hydraulic temperature protection
- Engine Block Heater (230V)
- NATO Start aid connector (24V)
- Traction Speed fix setting and in addition conditional traction speed limiter
- Automatic Engine Shutdown
- Hyster Tracker Wireless Asset Management system

Other options available through Special Products Engineering Department (SPED). Contact Hyster for details

STRONG PARTNERS. TOUGH TRUCKS." FOR DEMANDING OPERATIONS, EVERYWHERE,

Hyster supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and reach stackers. Hyster is committed to being much more than a lift truck supplier.

Our aim is to offer a complete partnership capable of responding to the full spectrum of material handling issues: Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster.

Our network of highly trained dealers provides expert, responsive local support. They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your material handling needs so you can focus on the success of your business today and in the future.



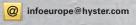


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/HysterEurope



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