



**STRONG PARTNERS.  
TOUGH TRUCKS.™**



# **HIGH CAPACITY FORKLIFT TRUCKS**

**H16-18XM-12, H16-18XMS-12**

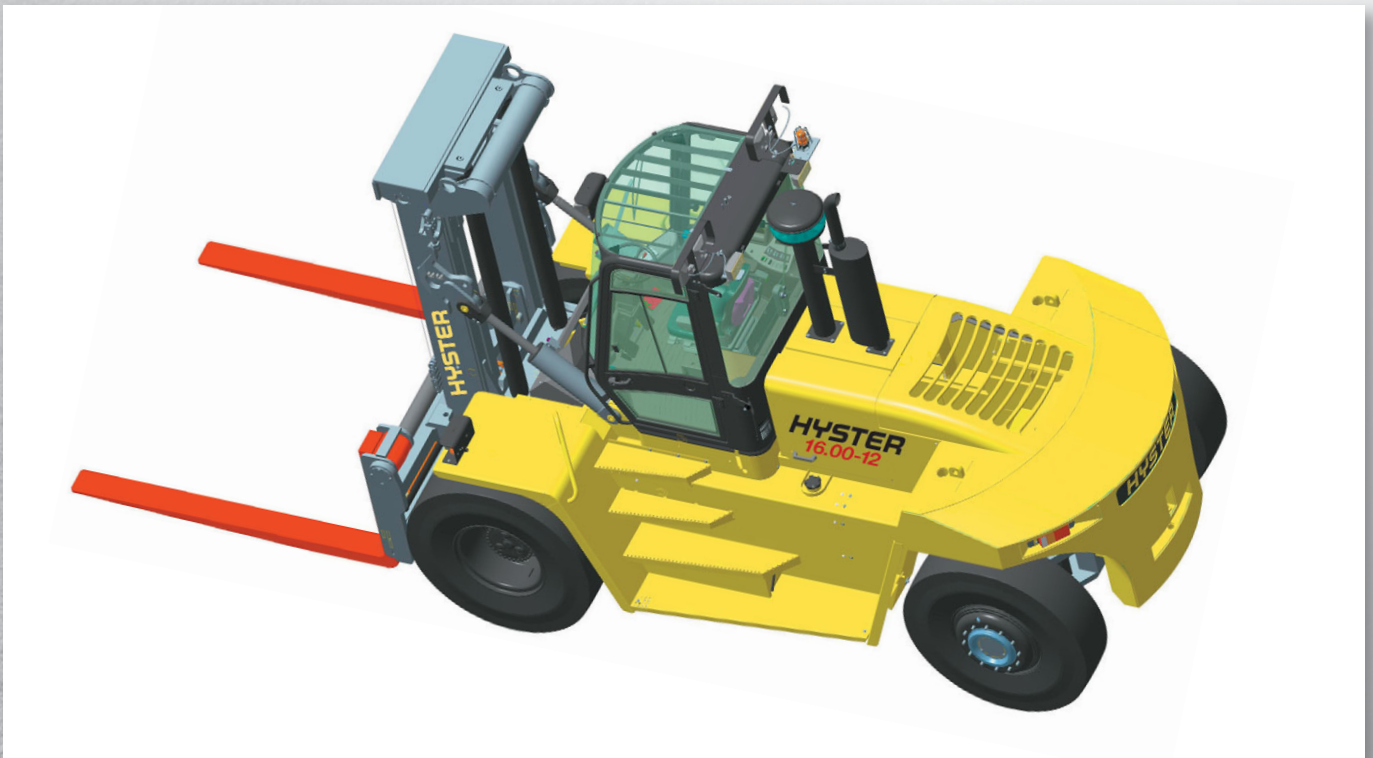
**16 000 – 18 000 KG @ 1 200 MM**



## > BUILT ON EXPERIENCE

### H16-18XM(S) DEVELOPMENT STORY

The H16-18XM(S)-12 Series benefits from Hyster's long experience of designing and building high capacity forklift trucks. This is the 5th generation machine, since the H360A of 1951, and offers fast handling, reliable proven components, high productivity and represents an excellent return on investment.



## > EXTRA VALUE FEATURES

The H16-18XM(S)-12 range represents impressive value, in a high-specification package:

### COMPACT

- H18XM-12 model features the same 3.75 m wheelbase as the H16XM-12.
- The compact "S" (short) H16XMS-12 and H18XMS-12 models, feature a shortened wheelbase of only 3.50 m, ideal for applications where operating space is restricted.

### PRODUCTIVE

- Lifting speeds (with the 172kW / 230hp Stage IIIA engine) are class leading: The practical 4-mode average speed is a fantastic 0.36 m/sec.
- Extremely stable machine with a weight of 26 to 31 tonnes, and a wheelbase of 3.75 m (3.50 m for 'S' models), plus front width of 2.81 to 2.94 m.

### DURABLE

- Different engine configurations ensure that the exhaust emissions conform to the Stage IIIA or Stage IIIB emissions standard for NRMM (Non-Road Mobile Machinery).
- The 3-speed autoshift transmission features a protective lock-out on forward-reverse shifting.
- Engine and transmission protection systems.

- Strong and wide drive axle with oil-immersed (wet) disc brakes.
- Generously sized cooling system (engine, transmission, brakes, hydraulic system), making the truck suitable for working in ambient temperatures of up to 50°C in normal operating conditions, or up to 45°C for heavy duty operating conditions.
- Large 12.00 x 24 or 14.00 x 24 tyres as standard, for improved tyre life and lower running costs.

### COMFORTABLE

- The industry leading-design of the Hyster 'Vista' cab offers excellent driver comfort, ergonomics, low noise and visibility, and is available with air-conditioning and a noise level of just 75 dB(A) Leq at driver's ear.
- The mid-high mounted cab position provides maximum visibility all-round.



## > STRENGTH & DURABILITY

- The H16-18XM(S)-12 features an immensely strong frame, with 16 mm thick members and massive front axle supports.
- The drive axle provides stability and durability; whilst the oil-immersed (wet) disc brakes reduce maintenance requirements.
- The S.O.H. TE13 or TE17-series 3-speed powershift transmissions feature the APC200 Soft-shift automatic gear shifting system, a transmission protection system and a protective forward-reverse shifting lock-out, which engages at above 5 km/h & 1400 rpm.
- Hyster's 'sandwich' type steer axle, with a single cylinder and non-adjustable tie rods is renowned for its long life and low maintenance requirements.

The extensive truck cooling system (engine, transmission, brakes, hydraulic system) makes the truck suitable for normal applications in ambient temperatures of up to 50°C, or up to 45°C for heavy duty operation.

- A unique 'side-by-side' 3-piece radiator cooler block for engine (water and intercooler) and transmission is efficient and easy to clean. A 'puller' type fan draws in cleaner air from the top of the truck.
- A triple hydraulic system cooler, for the brakes and the hydraulic system is ideally mounted at the front of the truck.



## > POWER & PERFORMANCE

### FAST HANDLING

- Lifting speeds are class-leading. The practical 4-mode average lifting speed (with the 172kW / 230hp Stage IIIA engine) are a fantastic 0.36 m/sec.\*
- \*Average of four lifting modes:
  - › Unladen lift speed = 0.38 m/sec.
  - › Fully laden lift speed = 0.33 m/sec.
  - › Unladen lowering speed = 0.39 m/sec.
  - › Laden lowering speed = 0.34 m/sec.

### CLEAN POWER CHOICE

- Clean engine power is provided by the 6.7 litre 6-cylinder Cummins QSB industrial diesel, with turbocharger and charge air cooler.
- Different engine configurations ensure that the exhaust emissions conform to the Stage IIIA or Stage IIIB emissions standard for NRMM (Non-Road Mobile Machinery).
- The engine and transmission protection system initially de-rates and finally shuts down the engine if a problem is detected.
- A two-stage heavy-duty air filter, plus a maintenance-free cyclonic pre-cleaner makes the truck suitable for dusty operating environments.
- Aluminized steel anti-corrosive exhaust system.
- Fuel tank - 323 litre capacity.
- The industrial rating offers extra durability for long periods of peak power operation.

### POWER PACKAGES

#### STAGE IIIB ENGINE:

For use mainly within EU (European Union) countries, trucks with Stage IIIB diesel engines have significantly reduced exhaust gas emissions. Also by applying Hyster Intelligent Design criteria, these trucks are not only cleaner running but also more economical, achieving up to a 20% fuel saving.

#### ■ Stage IIIB Power Package for H16-18XM-12:

- › The new Stage IIIB compliant Cummins QSB6.7, 6.7 litre 6-cylinder industrial diesel engine with turbo and intercooler has a maximum performance of 172 kW / 230 Hp at 1800 rpm and a maximum torque of 1491 Nm at 1500 rpm.
- › The transmission available as standard with the engine is the TE 17 series, featuring 3-speeds with APC200 "Soft-shift" automatic gear shifting, protective forward-reverse shifting lock-out and transmission protection system. Also fitted is a separate transmission oil cooler and audible alarm when in reverse gear.

**NOTE: A Stage IIIB engine must run on Ultra Low Sulphur Diesel (ULSD) fuel, with a maximum of 15 ppm sulphur content. Diesel fuel with a higher sulphur content than 15 ppm will compromise the emissions performance of the Stage IIIB engine and may result in damage to components.**

#### STAGE IIIA ENGINES:

This existing diesel engine conforms to Stage IIIA emission standards and will continue to be supplied into markets where the NRMM (Non Road Mobile Machinery) Stage IIIB legislation does not apply.

#### ■ Stage IIIA Power Package for H16XM-12 & H16XMS-12:

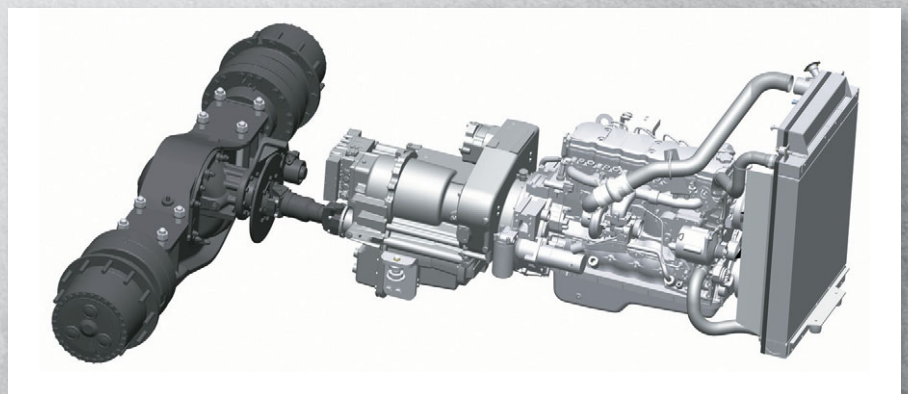
- › Cummins QSB6.7 with max. 145 kW (197 Hp) at 2000 rpm.
- › This engine is combined with the S.O.H. (Spicer Off- Highway) model TE13, 3-speed powershift transmission, fitted with APC200 'Soft-shift' automatic gear shifting, and protective forward / reverse shifting lock-out. Includes a transmission protection system, with initial de-rating and engine stop.

#### ■ Stage IIIA Power Package for H18XM-12 & H18XMS-12:

- › Cummins QSB6.7 with max. 172 kW (230 Hp) at 1800 rpm.
- › Combined with the higher performance S.O.H. TE17 transmission. Also features the APC200 'Soft-shift' automatic gear shifting, protective forward-reverse shifting lock-out, and transmission protection system.

#### ■ Optimal Stage IIIA Power Package for H16XM-12 & H16XMS-12:

- › Power Package 172 kW engine - and TE17 transmission.



## > ERGONOMIC DESIGN

The H16-18XM(S)-12 series features the now familiar Hyster 'Vista' cab, which offers the optimum ergonomic operator environment, and focuses on maximising driver comfort and visibility for maximum productivity.

- Large windows, fitted with tinted safety glass, offer excellent all-round visibility. This is further enhanced in poor weather conditions by a fresh air inlet, sliding windows, an effective heater and defroster and wipers (with intermittent wipe function) and washers on front, top and rear screens.
- Optional air-conditioning is integrated into the heating and ventilation system, and is available with either manual temperature control or climate control.
- Full-suspension fully adjustable driver's seat with a high backrest, seat belt, "park brake off" warning buzzer, operator presence system, map reading light and extra air circulation fan.
- Adjustable steering column, power-assisted steering and lever controls, push-button parking brake and conveniently positioned instruments.
- Responsive, fully hydraulic brakes and automotive type pedal layout further contribute to driver comfort.
- This comprehensively equipped operator's cab, mounted on isolators, has an insulated twin-layer floor to help achieve low noise levels. The noise level is 75 dB(A) Leq BITA equivalent at driver's ear.
- Levers and switches system offers intuitive control of mast lift, tilt and sideshift.  
As an alternative, a joystick system offers two levers for lift- and tilt, plus switches for carriage functions. Fork positioners are operated separately by toggle switches.



## > OUTSTANDING ALL-ROUND VISIBILITY

- The state-of-the-art operator compartment is mounted in a mid-high forward position for outstanding overall visibility.
- Operator visibility is also enhanced by the curved front window, the strong yet slim-line cab construction, the 'wave pattern' overhead guard, plus wipers on the front, top and rear screens.
- Wide-view rear view mirrors are fitted inside the cab.
- The truck is available with a comprehensive set of road and work lights and an orange flashing beacon. See full details under Lights.
- The mast lift cylinders are rear-mounted (behind the mast channels) for optimum visibility.
- Rearward visibility is greatly enhanced by the downward sloping design of the counterweight.



## > OTHER FEATURES

### HIGH PERFORMANCE HYDRAULICS

- Leak-free ORFS (O-ring) type fittings are used throughout the truck.
- Hydraulic tank capacity is 320 litres.
- Extensive cooling system with a triple cooler, for the brakes and the hydraulic system is ideally mounted at the front of the truck.



### BRAKES

- Service Brake: Front, oil-immersed (wet) disc brakes, with large oil cooler and a separate 10 micron brake oil filter. The brake system is fully hydraulic and charged by an accumulator (no air system).
- Parking Brake: Spring actuated and hydraulically released, on the drive-line, automatically applied when pressure falls below 50 bar. The transmission is disengaged when the parking brake is applied.

### WHEELS & TYRES

- Large 12.00 x 24 or 14.00 x 24 size tyres are fitted for improved tyre life and lower running costs.
- Bias pneumatic lug tread tyres are standard.
- Optionally available are: Radial pneumatic lug tread tyres or Pneumatic Shaped Solid tyres.

NOTE: A hydraulic accumulator in the lift system, which acts to cushion the load, is available as an option.







## ELECTRICAL SYSTEM

- 24 V system, 70 A alternator, Battery 94 Ah (20 hr). Battery master switch.
- CANbus connection in the cab, for engine, transmission, and instruments cluster.

## LIGHTS

- A range of lights can be fitted, which are available in kit form, comprising of: 2 front work lights mounted on the mast, 2 front drive lights on the front fenders, 2 rear work/drive lights on the cab, 2 combination tail- & stop- & rear driving lights on the rear fenders, 4 direction indicators with warning switch, orange flashing beacon on the cab roof.

## INSTRUMENTS & DISPLAYS

- Warning Lights:  
Engine oil pressure, transmission oil pressure, transmission oil temperature, battery discharge indicator, low brake oil pressure, parking brake on.
- Gauges:  
Engine coolant temperature, fuel, transmission oil pressure, transmission oil temperature, voltmeter, engine oil pressure.
- Other Indicators:  
Hour meter, low brake pressure buzzer, combination key-type ignition/starter switch with starter lock out, reverse warning alarm.

## > EASE OF SERVICING

- The hydraulic oil tank features a gauge for oil level as well as magnetic drain plugs.
- The cab tilts to the right-hand side and can be electrically powered. A hand lever pump is provided as standard.
- In combination with the gas-spring assisted 'gull-wing' type engine hoods and the rear opening hood, this provides truly excellent access for more extensive maintenance work.



## > STANDARD EQUIPMENT

- Available with 3.75m wheelbase, or with 'S' (short) 3.50m wheelbase.
- Full suspension seat, seat belt, reading light, extra air circulation fan.
- Powerful industrial diesel engine, with turbo and charge air cooler.
- Different engine configurations ensure that the exhaust emissions conform to the Stage IIIA or Stage IIIB emissions standard for NRMM (Non-Road Mobile Machinery).
- Two-stage heavy-duty engine air filter, plus a maintenance-free cyclonic pre-cleaner, suitable for dusty operating environments.
- Ample cooling system capacity, suitable for tropical conditions.
- Aluminized steel anti-corrosive exhaust system.
- Autoshift transmission, with APC200 soft-shift system. The transmission also has a protective lock-out function on forward-reverse shifting.
- Engine and transmission protection, with initial power reduction and final shut-down.
- Oil-immersed (wet) disc brakes.
- Basic light kit.

## > OPTIONAL EQUIPMENT



- Application-specific masts, carriages and forks or coil ram.
- Radial pneumatic tyres or solid (pneumatic shaped) tyres.
- Spare wheel, with bias diagonal or radial tyre.
- Lifting eyes (two on the mast, two on the rear counterweight).
- A range of lights can be fitted, which are available in kit form.

### **Stage IIIA extra power package for H16XM(S)-12 models:**

172 kW / 230 Hp engine and TE-17 transmission, instead of standard 145 kW / 195 Hp engine and TE-13 transmission.

- Coil ram pole: 1 800 to 2 400 mm long, coil ram pole with 298 mm diameter. Max. ram pole capacity 19300 kg @ 1200 mm l.c.
- Extra rear view mirrors on the front fenders.
- Open Operator Module, instead of fully equipped cab.
- Mudflaps on the rear and front wheels.
- Wheel nut protection rings, on the steer wheel hubs.

- Special colour(s) RAL paint.
- Hydraulic accumulator in the hoist system, recommended for uneven ground conditions.

### **In-Cab / Operator Convenience Items:**

- Air-conditioning system is integrated into the heating and ventilation system. It is available with either manual temperature control or climate control. Sunshade screens are fitted on the top and rear windows.
- Choice of hand controls: joystick or levers and switches.
- Deluxe air suspended seat, instead of mechanically suspended seat. Also available with seat heating.
- Trainer seat (small extra seat cushion).
- Support stand with mounting plate, to fit computer terminal or communications equipment.
- Converter: 24 Volt DC to 12 Volt DC.
- Sideways tilting cab, with convenient push-button operation, for excellent service access.

# H16-18XM(S)-12

DISTINGUISHING MARKS	1.1	Manufacturer (abbreviation)	
	1.2	Manufacturer's type designation	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	
	1.5	Rated capacity / rated load	Q (kg)
	1.6	Load centre distance	c (mm)
	1.8	Load distance, centre of drive axle to fork	x (mm)
	1.9	Wheelbase	y (mm)

WEIGHTS	2.1	Unladen weight	kg
	2.2	Axle loading with load, front/rear (900mm LC)	kg
	2.2	Axle loading with load, front/rear (1200mm LC)	kg
	2.3	Axle loading without load, front/rear	kg

TYRES / CHASSIS	3.1	Tyres: L = pneumatic, V = cushion, SE = Pneumatic Shape Solid	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.5	Number of wheels, front / rear (X = driven)	
	3.6	Tread, front	b <sub>10</sub> (mm)
	3.7	Tread, rear	b <sub>11</sub> (mm)

DIMENSIONS	4.1	Tilt of mast / fork carriage forward / backward	α / β (°)
	4.2	Height of mast, lowered	h <sub>1</sub> mm
	4.3	Free lift ¶	h <sub>2</sub> mm
	4.4	Lift height ¶	h <sub>3</sub> mm
	4.5	Height of mast, extended	h <sub>4</sub> mm
	4.7	Cab height (top wiper) ●	h <sub>6</sub> mm
	4.8	Seat height	h <sub>7</sub> mm
	4.12	Towing coupling height	h <sub>10</sub> mm
	4.19	Overall length ✕	l <sub>1</sub> mm
	4.20	Length to face of forks	l <sub>2</sub> mm
	4.21	Overall width	b <sub>1</sub> mm
	4.22	Fork dimensions	s/e/l mm
	4.23	Fork carriage DIN 15173. Class, A/B	
	4.24	Fork carriage width	b <sub>3</sub> mm
	4.31	Ground clearance under mast, laden	m <sub>1</sub> mm
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> mm
	4.33	Aisle width with pallets 2400mm x 2400mm wide ◆	A <sub>31</sub> mm
	4.35	Outer turning radius	W <sub>2</sub> mm
	4.36	Inner turning radius	b <sub>13</sub> mm

PERFORMANCE DATA	5.1	Travel speed, laden / unladen	km/h
	5.2	Lift speed, laden / unladen	m/sec
	5.3	Lowering speed, laden / unladen	m/sec
	5.5	Drawbar pull, laden / unladen @ 1.6 km/h *	N
	5.6	Maximum drawbar pull laden / unladen *	N
	5.7	Gradeability laden / unladen @ 1.6 km/h †	%
	5.8	Maximum gradeability laden / unladen †	%
	5.9	Acceleration time, laden / unladen (0-15m distance)	sec
	5.10	Service brake	

DIESEL ENGINE	7.1	Engine manufacturer/type	
	7.2	Maximum engine output, in accordance with ISO 14396 ○	Stage IIIA kW
	7.2	Maximum engine output, in accordance with ISO 14396 ○	Stage IIIB kW
	7.3	Governed speed ○ at / max power	Stage IIIA rpm
	7.3	Governed speed ○ at / max power	Stage IIIB rpm
	7.4	Number of cylinders/displacement	Stage IIIA/B no./l

ADDITIONAL DATA	8.1	Drive control	
	8.2	Operating pressure for attachments	bar
	8.3	Oil volume for attachments	l/min
	8.4	Sound level at operators ear LpAZ d(B)A per EN 12053	Stage IIIA dB(A)
	8.4	Sound level at operators ear LpAZ d(B)A per EN 12053	Stage IIIB dB(A)
8.5	Towing coupling, type DIN		

HYSTER		HYSTER		HYSTER		HYSTER	
H16XMS-12		H16XM-12		H18XMS-12		H18XM-12	
Diesel		Diesel		Diesel		Diesel	
Seated		Seated		Seated		Seated	
16,000		16,000		18,000		18,000	
1,200		1,200		1,200		1,200	
1,077		1,077		1,060		1,060	
3,500		3,750		3,500		3,750	

27,307		26,508		30,136		28,616	
42,177	3,570	41,640	3,377	45,593	4,440	44,902	4,144
39,720	3,587	39,145	3,363	44,055	4,081	43,061	3,555
13,311	13,996	13,430	13,078	14,396	15,740	14,180	14,437

L		L		L		L	
14.00 X 24 - 20		12.00 X 24 - 20		14.00 X 24 - 20		14.00 X 24 - 20	
14.00 X 24 - 20		12.00 X 24 - 20		14.00 X 24 - 20		14.00 X 24 - 20	
4X	2	4X	2	4X	2	4X	2
2,550		2,400		2,550		2,550	
2,120		2,175		2,120		2,120	

10			12			10			12			10			12		
4,425			4,390			4,560			4,560			4,560			4,560		
-			-			-			-			-			-		
5,400			5,400			5,400			5,400			5,400			5,400		
7,075			7,040			7,210			7,210			7,210			7,210		
3,365			3,305			3,365			3,365			3,365			3,365		
2,180			2,145			2,180			2,180			2,180			2,180		
882			822			882			882			882			882		
7,917			8,167			7,900			8,150			8,150			8,150		
5,477			5,727			5,460			5,710			5,710			5,710		
2,950			2,820			2,950			2,950			2,950			2,950		
100	200	2440	100	200	2440	100	250	2440	100	250	2440	100	250	2440	100	250	2440
No			No			No			No			No			No		
2,672			2,672			2,900			2,900			2,900			2,900		
296			260			296			296			296			296		
350			290			350			350			350			350		
8,730			8,900			8,730			8,900			8,900			8,900		
5,002			5,253			5,002			5,253			5,253			5,253		
560			840			560			840			560			840		

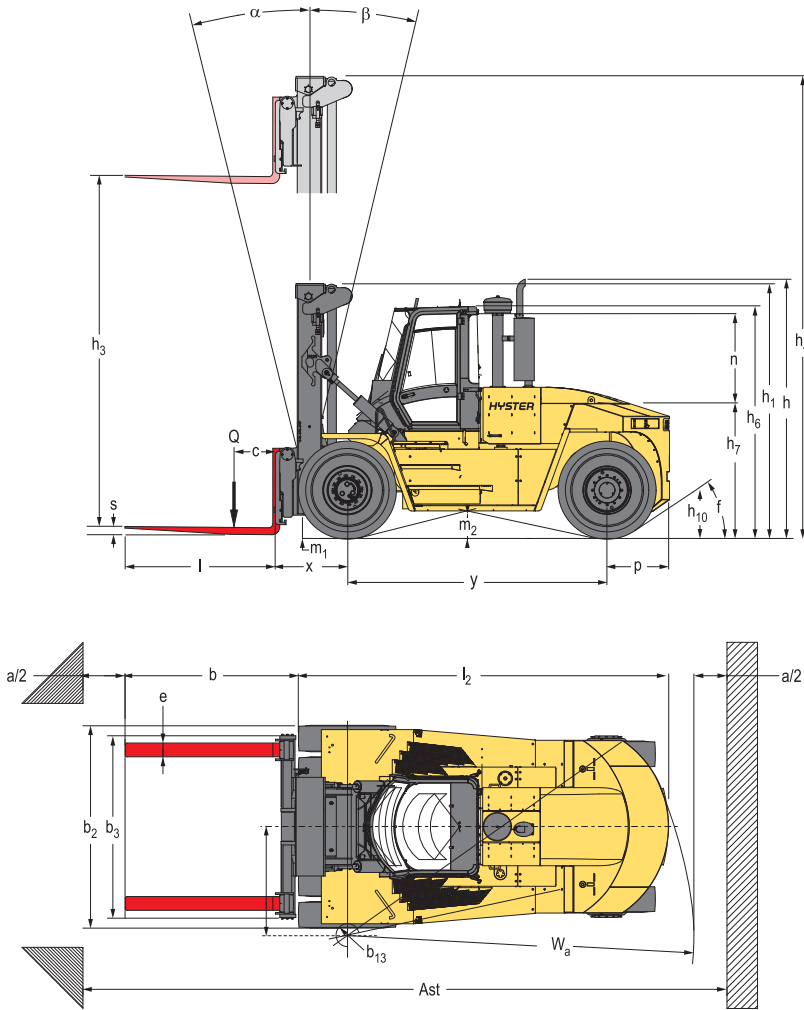
27	31	26	28	28	29	28	29
0.33	0.38	0.33	0.38	0.33	0.38	0.33	0.38
0.34	0.39	0.34	0.39	0.34	0.39	0.34	0.39
111	91	97	99	111	90	111	90
114	115	126	128	111	115	111	115
24	35	24	42	22	34	22	33
29	37	32	35	28	36	28	36
5.9	6.5	5.9	6.5	5.6	6.4	5.6	6.4
Hydraulic		Hydraulic		Hydraulic		Hydraulic	

Cummins QSB6.7		Cummins QSB6.7		Cummins QSB6.7		Cummins QSB6.7	
145/172 †		145 / 172 †		172		172	
172		172		172		172	
2000/1800 †		2000/1800 †		1800		1800	
1800		1800		1800		1800	
6 / 6.7		6 / 6.7		6 / 6.7		6 / 6.7	

Torque Converter		Torque Converter		Torque Converter		Torque Converter	
15		15		15		15	
105		105		105		105	
78		78		78		78	
75		75		75		75	
Pin		Pin		Pin		Pin	

Specification data is based on VDI 2198

# TRUCK DIMENSIONS



$A_{st} = W_a + x + b + a$  (see line 4.33)  
 $a$  = Minimum operating clearance  
 (V.D.I. standard = 200 mm,  
 BITA recommendation = 300 mm)  
 $b$  = Load length

## 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. If these specifications are critical, the proposed application should be discussed with your dealer.

† Gradeability figures (lines 5.7 & 5.8) are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.

\* Drawbar pull performance figures (line 5.5 & 5.6) are only indicative for comparison purpose. These performances are only possible for a short period of time.

○ Optional TE17 with 172 kW at 2000rpm

● Deduct 55 mm for non-cab option

✘ With 2440mm forks

◆ 200 mm clearance

⊕ Optional engine

‡ Top of forks

## 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 mast tilt in either direction be kept to a minimum when loads are elevated. Operators must be trained and adhere to the instructions contained in the Operating Manual.

Hyster products are subject to change without notice.

Lift trucks illustrated may feature optional equipment.

## CE Safety:

This truck conforms to the current EU requirements.

## CAPACITY RATINGS

### H16XM(S)-12 - Rating @ 1200 mm and Multi-Rating @ 1 200, 1 000, 900 mm

Mast lift height (TOF) (mm)	Mast lowered height (mm) H16XM-12	Mast lowered height (mm) H16XMS-12	Capacity (kg) @ 1 200 mm load centre		Capacity (kg) @ 1 200 mm load centre		Capacity (kg) @ 1 000 mm load centre		Capacity (kg) @ 900 mm load centre	
			Sideshift - Forkpos. Carriage & Hook - type Q.D.Forks	Back tilt	Sideshift - Forkpos. Carriage & Hook - type Q.D.Forks	Back tilt	Sideshift - Forkpos. Carriage & Hook - type Q.D.Forks	Back tilt	Sideshift - Forkpos. Carriage & Hook - type Q.D.Forks	Back tilt
3 750	3 562	3 597	16 000	12°	16 000	12°	17 600	12°	18 140	12°
4 650	4 012	4 047	16 000	12°	16 000	12°	17 600	12°	18 140	12°
5 400	4 387	4 422	16 000	12°	16 000	12°	17 600	12°	18 140	12°
6 200	4 787	4 822	15 800	12°	15 800	12°	17 350	12°	17 890	12°
6 700	5 037	5 072	15 650	10°	15 650	10°	17 120	10°	17 710	10°
7 000	5 187	5 222	15 500	10°	15 500	7°	16 980	7°	17 600	7°

### H18XM(S)-12 - Rating @ 1200 mm and Multi-Rating @ 1 200, 1 000, 900 mm

Mast lift height (TOF) (mm)	Mast lowered height (mm)	Capacity (kg) @ 1 200 mm load centre		Capacity (kg) @ 1 200 mm load centre		Capacity (kg) @ 1 000 mm load centre		Capacity (kg) @ 900 mm load centre	
		Sideshift - Forkpos. Carriage & Hook - type Q.D.Forks	Back tilt	Sideshift - Forkpos. Carriage & Hook - type Q.D.Forks	Back tilt	Sideshift - Forkpos. Carriage & Hook - type Q.D.Forks	Back tilt	Sideshift - Forkpos. Carriage & Hook - type Q.D.Forks	Back tilt
3 750	3 734	18 000	12°	18 000	12°	19 900	12°	20 410	12°
4 650	4 184	18 000	12°	18 000	12°	19 800	12°	20 410	12°
5 400	4 559	18 000	12°	18 000	12°	19 800	12°	20 410	12°
6 200	4 959	17 800	12°	17 800	10°	19 480	10°	20 160	10°
6 700	5 209	17 600	10°	17 600	7°	19 070	7°	19 910	7°
7 000	5 359	17 410	10°	17 410	7°	18 870	7°	19 660	7°

## HIGH CAPACITY

- At load centres shorter than 1200mm load centres, capacities higher than nominal are possible, e.g.:
  - H16XM(S)-12 handles 18 140 kg @ 900 mm l.c., up to 5.40 m lift height.
  - H18XM(S)-12 handles 20 410 kg @ 900 mm l.c., up to 5.40 m lift height.

For full capacity data, please refer to the capacity table above.

## CAPACITY RATINGS AVAILABLE

- \* Single-rating at 1 200 mm load centre (and a corresponding mast back tilt angle, depending on mast lift height, please refer to the capacity table above).
- \* Multi-rating at 1 200-1 000-900 mm load centre (and a corresponding mast back tilt angle, depending on mast lift height, please refer to the capacity table above).

## MASTS

- Automatic 2-stage hoist system, for high lifting speeds, both laden and unladen.
- Rear-mounted lift cylinders (behind the mast channels), for excellent visibility.
- Mid-high-mounted tilt system.
- Hose group (for 2 auxiliary functions: 2 x fork positioner, and combined sideshift).

Note: For the correct backtilt angle corresponding to a specific mast lift height, please refer to the capacity table above.



## CARRIAGE

- Multi-purpose, hook-type, sideshift, fork positioning carriage.
- Overall width 2672 mm for H16XM(S)-12, and 2900 mm for H18XM(S)-12.
- Sideshift movement, to each side, is 0-361 mm for H16XM(S)-12, and 0-437 mm for H18XM(S)-12, depending on the position of the forks.
- With independent fork positioners (forks can be moved individually).
- Fork positioning range for H16XM(S)-12: 998 mm is a minimum over the forks (598 mm in between forks) and 2444 mm maximum over the forks.
- Fork positioning range for H18XM(S)-12: 1000 mm is a minimum, over the forks (500 mm in between forks) and 2750 mm maximum, over the forks.
- Multi-purpose quick-disconnect system, for use with multi-purpose hook-type forks.

## FORKS

- 2440 mm long, multi-purpose, hook-type, quick-disconnect forks.
- Fork section:  
 H16XM(S)-12: 200 mm wide x 100 mm thick  
 H18XM(S)-12: 250 mm wide x 100 mm thick  
 To suit the multi-purpose, hook-type, sideshift-fork positioning carriage.

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