HYSTER

STRONG PARTNERS.
TOUGH TRUCKS.™

HIGH CAPACITY FORKLIFT TRUCKS

H16XM-12

+kg

STAGE IIIB

16,000KG @ 1200MM

H16XM-12

				HYSTER		HYSTER
DISTINGUISHING MARKS	1.1	Manufacturer (abbreviation)		HYSTER		HYSTER
	1.2	Manufacturer's type designation		H16XM-9	H18XM-7.5	H16XM-12
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Diesel		Diesel
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated		Seated
	1.5	Rated capacity/rated load	Q (kg)	16,000	18,000	16,000
	1.6	Load centre distance	c (mm)	900	750	1,200
	1.8	Load distance, centre of drive axle to fork ✦	x (mm)	915		915
	1.9	Wheelbase	y (mm)	3,750		3,750

WEIGHTS	2.1	Service weight		21,844				23,344			
	2.2	Axle loading, laden front/rear	kg	35,325	2,519	36,436	2,608	36,545	2,800	37,064	3,480
	2.3	Axle loading, unladen front/rear	kg	11,334	10,511	11,334	10,511	11,273	12,071	11,273	12,071

TYRES & CHASSIS	3.1	Tyres: L=pneumatic, V=solid, SE=pneumatic-shaped solid		L		L
	3.2	Tyre size, front		12.00-20 20PR		12.00-20 20PR
	3.3	Tyre size, rear		12.00-20 20PR		12.00-20 20PR
	3.5	Number of wheels, front / rear (x = driven wheels)		x 4	2	x 4
	3.6	Tread front	b_{10} (mm)	2,218		2,218
	3.7	Tread rear	b_{11} (mm)	1,994		1,994

DIMENSIONS	4.1	Tilt of mast / fork carriage forward / backward	(α / β °)	6°	10°	6°
	4.2	Height, mast lowered	h_1 (mm)	3,985		3,985
	4.3	Free lift ¶	h_2 (mm)	0		0
	4.4	Lift ¶	h_3 (mm)	4,494		4,494
	4.5	Height, mast extended	h_4 (mm)	6,232		6,232
	4.7	Height of overhead guard (cabin)	h_6 (mm)	3,054		3,054
	4.7.1	Cab height without aircon / with aircon	h_6' (mm)	3.097 / 3.152		3.097 / 3.152
	4.8	Seat height relating to SIP/stand height ⭘	h_7 (mm)	1,921		1,921
	4.12	Coupling height	h_{10} (mm)	713		713
	4.17	Overhang	l_5 (mm)	791		791
	4.19	Overall length ●	l_1 (mm)	7,954		7,954
	4.20	Length to face of forks ●	l_2 (mm)	5,514		5,514
	4.21	Overall width	b_2 (mm)	2,542		2,542
	4.22	Fork dimensions ISO 2331	s/e/l (mm)	100 / 200 / 2.440		100 / 200 / 2.440
	4.23	Fork carriage ISO 2328, class/type A, B		Dual-Function Integrated carriage		Dual-Function Integrated carriage
	4.24	Fork carriage width	b_3 (mm)	2,540		2,540
	4.25	Distance over fork arms, minimum / maximum	b_5 (mm)	575	2,445	575
	4.30	Sideshift @ width over forks	b_8 (mm)	+/- 468	1,310	+/- 468
	4.31	Ground clearance, laden, below mast	m_1 (mm)	187		187
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	368		368
	4.33	Load dimension $b_{12} \times l_6$ crossways	(mm)	2.400 x 2.400		2.400 x 2.400
	4.34	Aisle width predetermined load dimensions ◆	Ast (mm)	8,660		8,660
	4.35	Turning radius	Wa (mm)	5,087		5,087
	4.36	Internal turning radius	b_{13} (mm)	2,026		2,026

PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h	26.9	27.5	26.9
	5.2	Lift speed, laden/unladen	m/s	0.33	0.42	0.33
	5.3	Lowering speed, laden/unladen	m/s	0.48	0.44	0.48
	5.5	Drawbar pull, laden/unladen	kN	120	122	120
	5.7	Gradeability, laden/unladen †	%	35	36	33
	5.9	Acceleration time, laden/unladen		On request		On request
	5.10	Service brake		Oil-immersed disc		Oil-immersed disc

ADDITIONAL DATA	10.1	Operating pressure for attachments	bar	193.0		193.0
	10.2	Oil volume for attachments	l/min	100		100
	10.3	Hydraulic oil tank, capacity	l	160		160
	10.4	Fuel tank, capacity	l	214		214
	10.5	Steering design		Hydrostatic		Hydrostatic
	10.7	Sound pressure level at the driver's seat L_{PAZ} ◇	dB(A)	72		72
	10.7.1	Sound power level during the workcycle L_{WAZ}	dB(A)	105		105
	10.8	Towing coupling, type DIN		Pin		Pin

Specification data is based on VDI 2198

EQUIPMENT AND WEIGHT:

Weights and axle loadings (lines 2.1, 2.2, 2.3) are based on the following specifications:
Complete truck with fully equipped cab, with 5300 mm BOF (5400 mm TOF) 2-stage LFL mast, 2540 mm wide Integral Sideshift carriage and 2440 mm long forks.

MAST AND CAPACITY INFORMATION

	RATED CAPACITY (kg)
2-Stage LFL	Dual-function Sideshift-forkpositioners carriage with 2440 mm Integrated forks
	H16XM-12
	16,000
	16,000
	16,000
	15,720

FAST MACHINE FOR MAXIMUM PRODUCTIVITY

SPEED

The H16XM-9/12 to H18XM-7.5/9 forklift trucks deliver fast laden travel speeds and lift speeds:

- Unladen lift speed = 0.42 m/sec.
- Laden lift speed = 0.33 m/sec
- Unladen lowering speed = 0.44 m/sec.
- Laden lowering speed = 0.48 m/sec.

ON-DEMAND HYDRAULICS

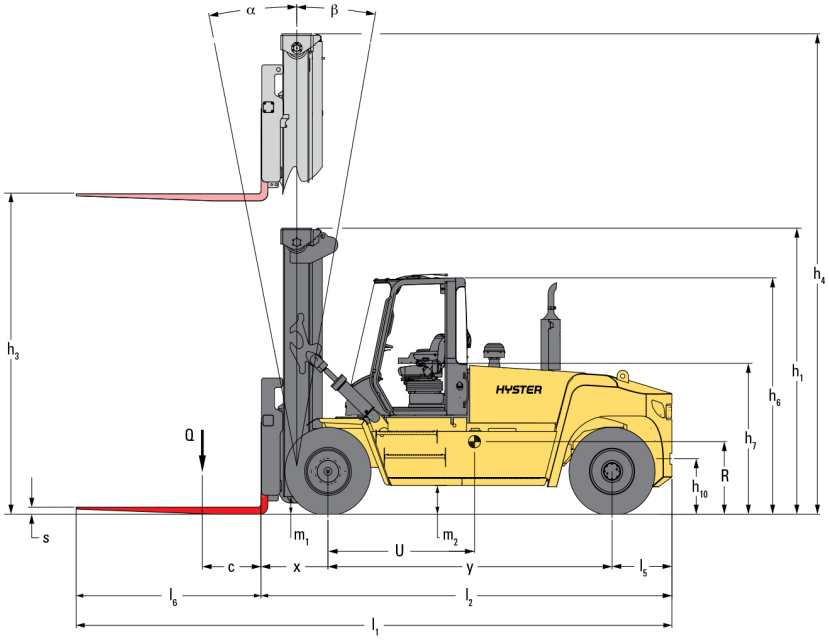
The hydraulic system is highly efficient, and features 'on demand hydraulics' by means of Variable Displacement Pump (VDP).

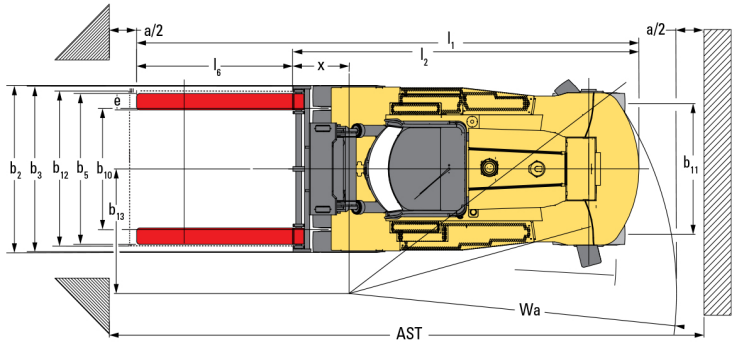
- Load sensing hydraulic system delivers oil flow only when required
- Capable of more oil displacement even at low engine speeds
- Engine runs quieter and at lower speeds, extending life of major components
- Uses less fuel (up to 5% fuel consumption reduction)
- Less heat is produced

POWERTRAINS

	1.2	Manufacturer's type designation		H16XM-12
	1.3	Drive: electric (battery or mains), diesel, petrol, LPG		Diesel
COMBUSTION ENGINE	7.1	Engine manufacturer/type		Cummins
	7.2	Engine power according to ISO1585 (nominal)	kW	122 @ 2.300
	7.2.1	Engine power according to ISO1585 (maximum)		125 @ 2.000
	7.3	Rated speed	min'1	2,300
	7.3.1	Torque (maximum)	Nm @ rpm	732 @ 1.500
	7.4	Number of cylinders / displacement	/ cm^3	6
	7.5	Fuel consumption according to VDI cycle VDI (HiP-mode)	l/h	On Request
	7.6	Fuel consumption according to VDI cycle (ECO e-Lo-mode)	l/h	On Request
DRIVE TRAIN	8.1	Type of drive unit		Torque Converter
	8.2	Transmission manufacturer / type		ZF
	8.6	Wheel drive / drive axle manufacturer / type		KESSLER
	8.11	Service brake		Oil immersed disc
	8.12	Parking brake		Dry disc on drive axle

TRUCK DIMENSIONS





⊕ = Centre of gravity of unladen truck

A_{ST} = $W_a + x + l_6 + a$ (if $b_{12}/2 < b_{13}$)

A_{ST} = $W_a + (l_6 - x)^2 + (b_{12} - b_{13})^2 + a$ (if $b_{12}/2 > b_{13}$)

a = Minimum operating clearance = 10% of A_{ST}
(VDI standard = 200 mm BITA recommendation = 300 mm)

l_6 = load lengths

b_{12} = load width

NOTE:
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.

✦ (DF-SS-FP carriage) With 100 x 200 fork section. Deduct 10 mm for 90 x 250 fork section.

¶ Bottom of forks.

⭘ Full suspension seat in depressed position.

● With 100 x 200 fork section. Deduct 10 mm for 90 x 250 fork section.

◆ Stacking aisle width is based on the VDI standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of truck.

† 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 BITA Leq.

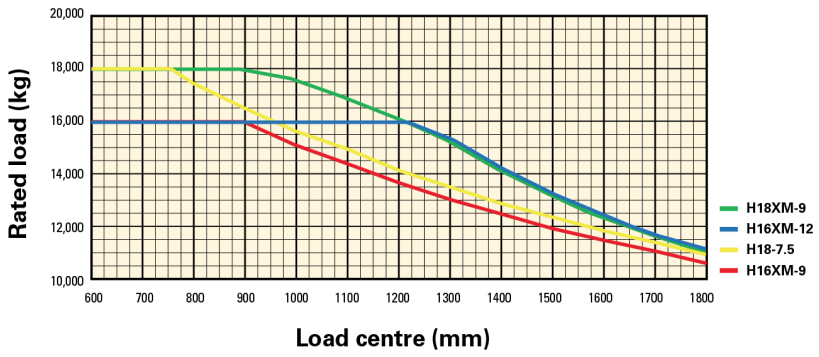
MAST TABLES:

✱ 6,200 mm mast equipped with 350 mm sideshift carriage

RATED CAPACITIES

Load centre: Distance from front of forks to centre of gravity of load.

Rated load: Based on vertical mast.



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.