



**STRONG PARTNERS.  
TOUGH TRUCKS.™**



# HIGH CAPACITY FORKLIFT TRUCKS

**H13-16XM-6**



**13 000 – 16 000 KG @ 600 MM**



## H13-16XM-6

| DISTINGUISHING MARKS |   | HYSTER                            |  |
|----------------------|---|-----------------------------------|--|
| 1.1                  | Manufacturer  | H16XM-6                           |  |
| 1.2                  | Manufacturer's type designation   | Diesel                            |  |
| 1.3                  | Drive: electric (battery or mains), diesel, petrol, fuel gas                    | Seated                            |  |
| 1.4                  | Operator type: hand, pedestrian, standing, seated, orderpicker                  | 16.0                              |  |
| 1.5                  | Rated capacity / rated load   | 600                               |  |
| 1.6                  | Load centre distance  | 891                               |  |
| 1.8                  | Load distance, centre of drive axle to fork                                     | 3,300                             |  |
| 1.9                  | Wheelbase   |                                   |  |
| WEIGHTS              |   | 20,171                            |  |
| 2.1                  | Service weight ◊  | 33,649                            |  |
| 2.2                  | Axle loading, laden front / rear  | 2,523                             |  |
| 2.3                  | Axle loading, unladen front / rear  | 10,420                            |  |
|                      |   | 9,752                             |  |
| TYRES & CHASSIS      |   | L                                 |  |
| 3.1                  | Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid                    | 12.00-20 20PR                     |  |
| 3.2                  | Tyre size, front  | 12.00-20 20PR                     |  |
| 3.3                  | Tyre size, rear   | 4x                                |  |
| 3.5                  | Wheels, number front / rear (x = driven wheels)                                 | 2                                 |  |
| 3.6                  | Tread, front  | 1,900                             |  |
| 3.7                  | Tread, rear   | 2,000                             |  |
| DIMENSIONS           |   | 15                                |  |
| 4.1                  | Tilt of mast/fork carriage forward/backward                                     | 12                                |  |
| 4.2                  | Height, mast lowered +  | 4,466                             |  |
| 4.3                  | Free lift   | -                                 |  |
| 4.4                  | Lift †  | 5,310                             |  |
| 4.5                  | Height, mast extended   | 7,121                             |  |
| 4.7                  | Height of overhead guard ■  | 3,053                             |  |
| 4.7.1                | Height of closed cabin without / with aircon                                    | 3,089                             |  |
| 4.7.2                | Height of closed cabin with strobe light  | 3,221                             |  |
| 4.7.3                | Height of closed cab with work lights   | 3,280                             |  |
| 4.7.4                | Height of closed cab with aircon & strobe light                                 | 3,295                             |  |
| 4.8                  | Seat height relating to SIP ○   | 1,791                             |  |
| 4.12                 | Coupling height   | 717                               |  |
| 4.17                 | Overhang  | 809                               |  |
| 4.19                 | Overall length  | 6,220                             |  |
| 4.20                 | Length to face of forks   | 5,000                             |  |
| 4.21                 | Overall width across all  | 2,599                             |  |
| 4.22                 | Fork dimensions ISO 2331  | 90                                |  |
| 4.23                 | Fork carriage type  | 200                               |  |
| 4.24                 | Fork carriage width ●   | 1,370                             |  |
| 4.25                 | Distance over fork arms, minimum / maximum ✓                                    | 2,500                             |  |
| 4.30                 | Sideshift @ width over forks  | 470                               |  |
| 4.31                 | Ground clearance, laden, below mast   | 205                               |  |
| 4.32                 | Ground clearance, centre of wheelbase   | 178                               |  |
| 4.33.1               | Load dimension $b_{10} \times l_1$ crossways                                    | 341                               |  |
| 4.34.1.1             | Aisle width for pallets 1200 x 1200 crossways without operating clearance       | 1,200                             |  |
| 4.34.1.2             | Aisle width for pallets 1200 x 1200 crossways with 200 mm operating clearance ◆ | 1,200                             |  |
| 4.34.1.3             | Aisle width for pallets 1200 x 1200 crossways with 10% operating clearance      | 6,675                             |  |
| 4.33.2               | Load dimension $b_{10} \times l_1$ crossways                                    | 6,875                             |  |
| 4.34.2.1             | Aisle width for pallets 1200 x 800 crossways without operating clearance        | 7,343                             |  |
| 4.34.2.2             | Aisle width for pallets 1200 x 800 crossways with 200 mm operating clearance ◆  | 1,200                             |  |
| 4.34.2.3             | Aisle width for pallets 1200 x 800 crossways with 10% operating clearance       | 800                               |  |
| 4.35                 | Turning radius  | 6,275                             |  |
| 4.36                 | Internal turning radius ⊙   | 6,475                             |  |
|                      |   | 6,903                             |  |
|                      |   | 4,584                             |  |
|                      |   | 1,890                             |  |
|                      |   | Apron pin (85 mm) type side shift |  |
|                      |   | 2,500                             |  |
|                      |   | 470                               |  |
|                      |   | 2,420                             |  |
|                      |   | 205                               |  |
|                      |   | 178                               |  |
|                      |   | 341                               |  |
|                      |   | 1,200                             |  |
|                      |   | 1,200                             |  |
|                      |   | 6,275                             |  |
|                      |   | 6,475                             |  |
|                      |   | 6,903                             |  |
|                      |   | 4,584                             |  |
|                      |   | 1,890                             |  |
| PERFORMANCE DATA     |   | 25.6                              |  |
| 5.1                  | Travel speed, laden / unladen *   | 28.1                              |  |
| 5.2                  | Lift speed, laden / unladen   | 0.36                              |  |
| 5.3                  | Lowering speed, laden / unladen   | 0.41                              |  |
| 5.5                  | Drawbar pull, laden / unladen ☼   | 0.50                              |  |
| 5.6                  | Maximum drawbar pull, laden / unladen   | 0.48                              |  |
| 5.7                  | Gradeability, laden / unladen † ☼   | 111                               |  |
| 5.7                  | Gradeability, laden / unladen ◊   | 114                               |  |
| 5.9                  | Acceleration time, laden/unladen  | 124                               |  |
|                      |   | 127                               |  |
|                      |   | 33                                |  |
|                      |   | 34                                |  |
|                      |   | 37                                |  |
|                      |   | 34                                |  |
|                      |   | 6.3                               |  |
|                      |   | 5.5                               |  |
| 7.5                  | Fuel consumption according VDI cycle  | ☼                                 |  |
| ADDITIONAL DATA      |   | 19.5                              |  |
| 10.1                 | Working pressure for attachments  | 100                               |  |
| 10.2                 | Oil volume for attachments  | 140                               |  |
| 10.3                 | Hydraulic oil tank, capacity  | 158                               |  |
| 10.4                 | Fuel tank, capacity   | 19                                |  |
| 10.4.1               | DEF tank, capacity  | Hydraulic power steering          |  |
| 10.5                 | Steering design   | 3.7                               |  |
| 10.6                 | Number of steering rotation   | 72.8                              |  |
| 10.7                 | Sound pressure level at the driver's seat $L_{PA2}$ * □                         | 108.5                             |  |
| 10.7.1               | Sound power level during the workcycle $L_{WA2}$ * □                            | Yes                               |  |
| 10.8                 | Towing coupling, type DIN   | Pin                               |  |

### 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. 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, carriage and forks.

+ Unladen with new tyres

† Bottom of forks

■ +/- 3% tolerance depend on tyre inflated pressure / or tyre brand.

● Full suspension seat in depressed position.

● Add 50 mm with load backrest

✓ Optional equipment

◆ 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.

⊙ Distance centre truck to centre of internal turning radius.

\* Travel speed laden/unladen limited at 25 km/h as factory default.

† 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.

☼ At 1.6 km/h

◊ At stall

\* Measured according to the test cycles and based on the weighted values contained in EN12053.

□ Engine data based on low mount exhaust.

☼ Data available on request, as values are dependent on application.

### 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 notice.

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

### CE Safety:

This truck conforms to the current EU requirements.

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: H13-16XM-6: Complete truck with open operator compartment module, with 5336 mm BOF (5400 mm TOF) 2-stage NFL mast, 2500 mm wide Integral Sideshift carriage and 1370 mm long forks.

(Note: Truck weight with open operator module instead of fully equipped cab is 400 kg less. For axle loadings with fully equipped cab: Add 50 kg to the rear axle loadings and add 350 kg to the front axle loadings.)

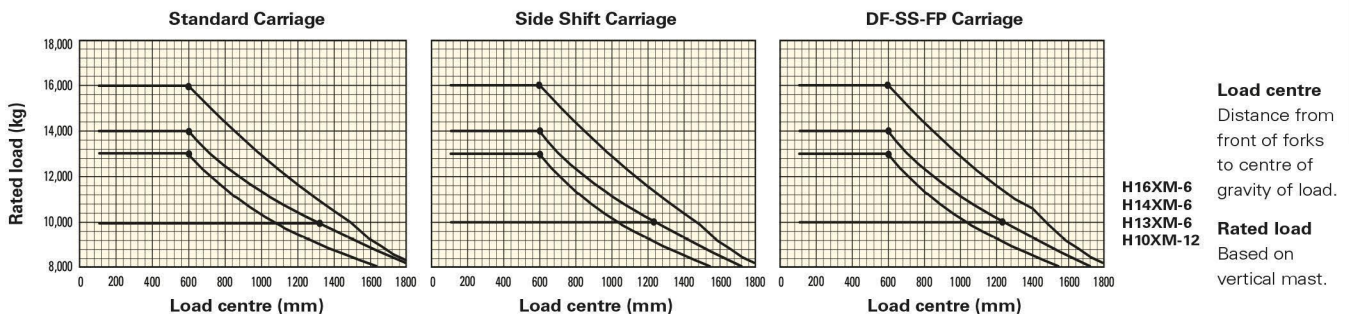


## MAST AND CAPACITY INFORMATION

### H13-16XM-6 RATED CAPACITY KG@ 600 MM LOAD CENTRE

| 3 Stage FFL | Lift height<br>$h_2 + s$ (mm) | Lowered height<br>$h_1$ (mm) | Free lift height<br>$h_2 + s$ (mm) | Extended height<br>$h_1$ (mm) | With Sideshift (kg)<br>H16XM-6 |
|-------------|-------------------------------|------------------------------|------------------------------------|-------------------------------|--------------------------------|
|             |                               | 5000                         | 3270                               | 1590                          | 6680                           |

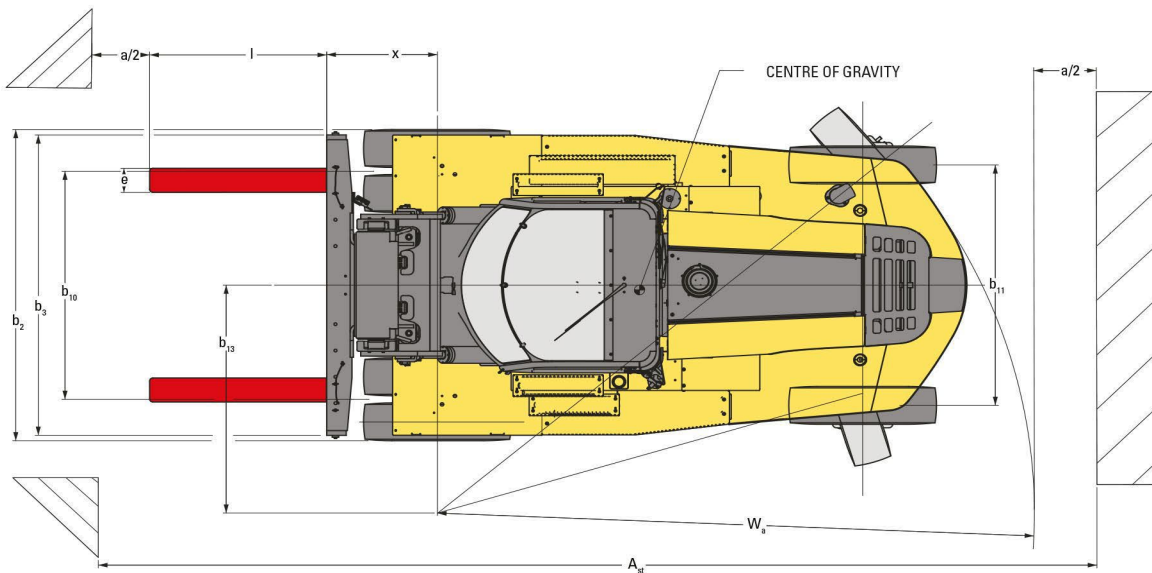
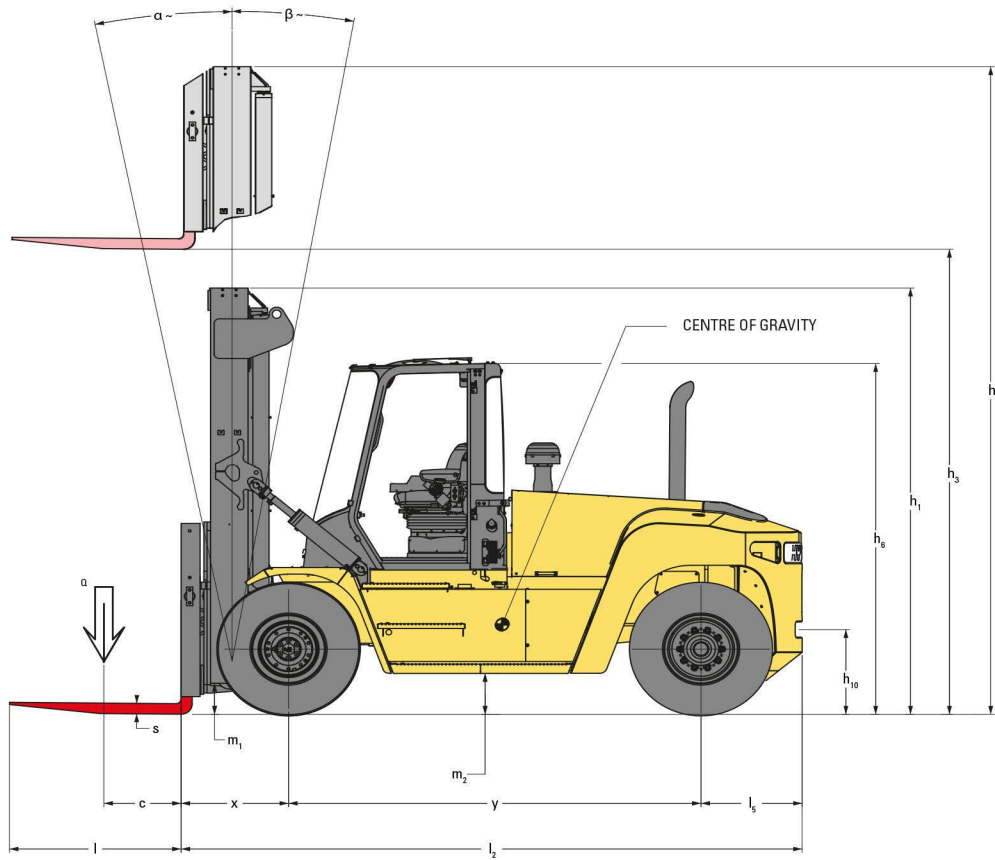
## RATED CAPACITIES



## POWERTRAINS

|                          |                    |  |                                  |                  |          |
|--------------------------|--------------------|--|----------------------------------|------------------|----------|
| <b>DISTRIBUTION</b>      | 1.1                | Manufacturer (abbreviation)                                  | HYSTER                           |                  |          |
|                          | 1.2                | Manufacturer's type designation                              | H13-16XM-6                       |                  |          |
|                          | 1.3                | Drive: electric (battery or mains), diesel, petrol, fuel gas | Diesel                           |                  |          |
| <b>COMBUSTION-ENGINE</b> | 7.1                | Engine manufacturer / type                                   | Cummins                          | QSB 6.7          |          |
|                          | 7.2                | Engine power according to ISO 1585                           | 122                              | 2,300            |          |
|                          | 7.2.1              | Max. engine power according to ISO 1585                      | 125                              | 2,100            |          |
|                          | 7.3                | Rated speed  | 2,300                            |                  |          |
|                          | 7.3.1              | Torque at 1/min  | 732                              | 1,500            |          |
|                          | 7.4                | Number of cylinders / displacement                           | 6                                | 6,700            |          |
|                          | 7.8                | Alternator   | 120                              |                  |          |
|                          | 7.10               | Battery voltage / nominal capacity                           | 24                               | 102              |          |
|                          | <b>DRIVE TRAIN</b> | 8.1  | Type of drive unit               | Torque Converter |          |
|                          |                    | 8.2  | Transmission manufacturer / type | ZF               | 3 WG 161 |
| 8.6                      |                    | Wheel drive / drive axle manufacturer / type                 | Axle Tech                        | PRC 785          |          |
| 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  
(VDI standard = 200 mm BITA recommendation = 300 mm)

$l_6$  = load lengths

$b_{12}$  = load width