HYSTER

STRONG PARTNERS.
TOUGH TRUCKS.™

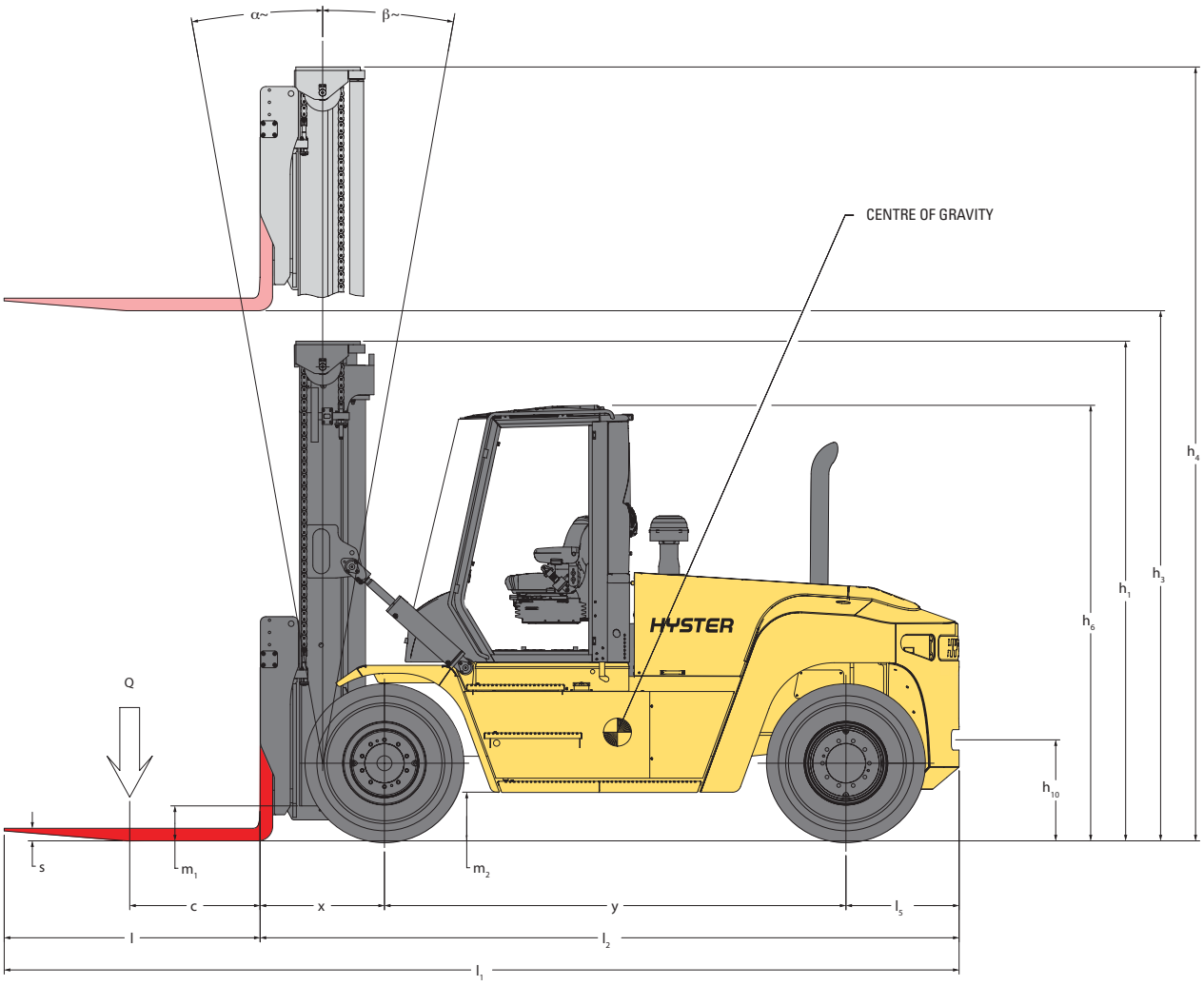
# H10-16XD6-12 SERIES TECHNICAL GUIDE

+kg

STAGE IV

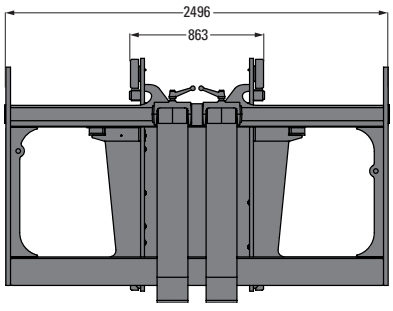
WWW.HYSTER.COM

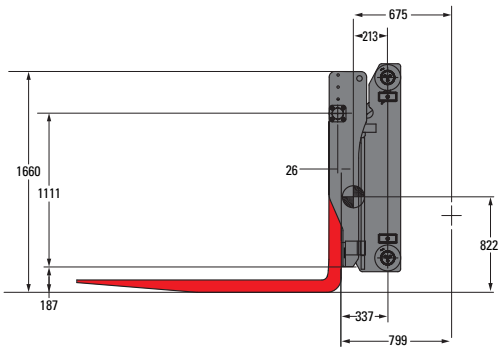
# DIMENSIONS

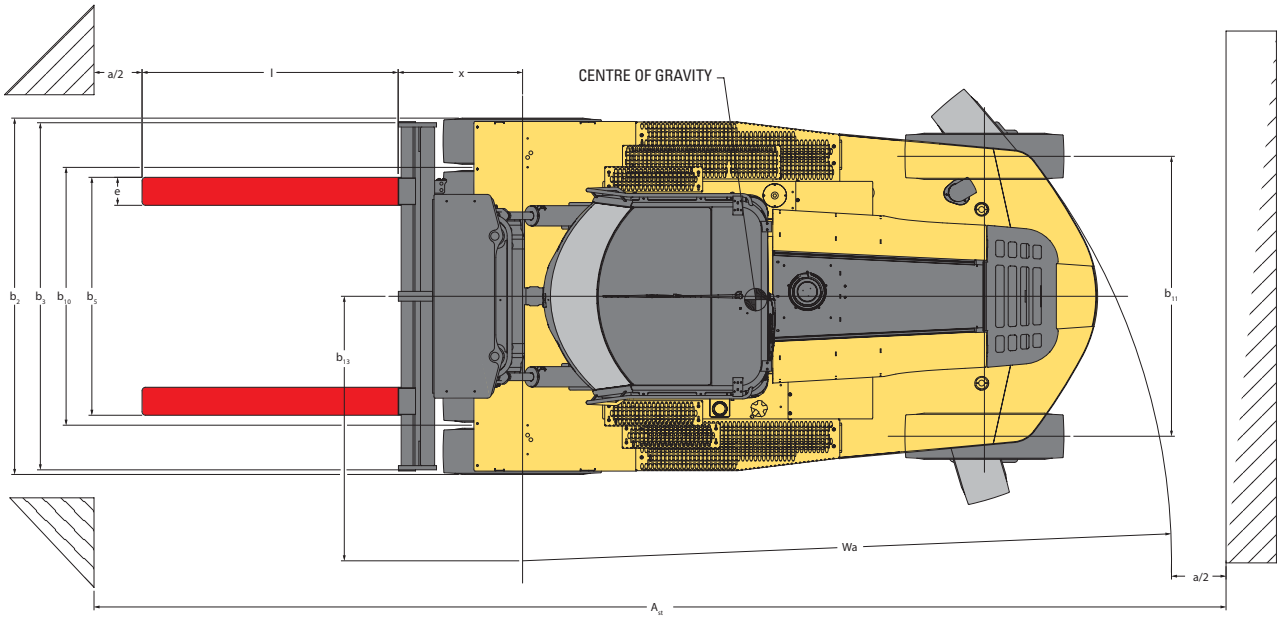



| | | |
|---|---|---|
| ◓ | = | Centre of gravity of unladen truck |
| $A_{ST}$ | = | $W_a + x + l_6 + a$ (if $b_{12}/2 < b_{13}$) |
| $A_{ST}$ | = | $W_a + ((l_6+x)^{\wedge 2} + (b_{12}/2-b_{13})^{\wedge 0.5} + a$ (if $b_{12}/2 > b_{13}$ and $W_a > b_{13+} b_{12}/2$) |
| $A_{ST}$ | = | $b_{13} + b_{12}/2\ ((l_6+x)^{\wedge 2} + (b_{12}/2-b_{13})^{\wedge 0.5} + a$ (if $b_{12}/2 > b_{13}$ and $W_a < b_{13+} b_{12}/2$) |
| a | = | Minimum operating clearance = 10% of $A_{ST}$ |
| | | (VDI standard = 200 mm BITA recommendation = 300 mm) |
| $l_6$ | = | load lengths |
| $b_{12}$ | = | load width |

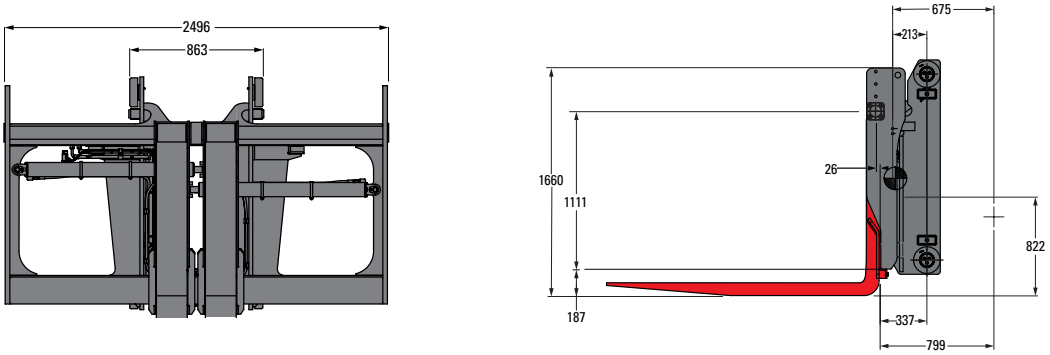
**Standard pin type carriage**



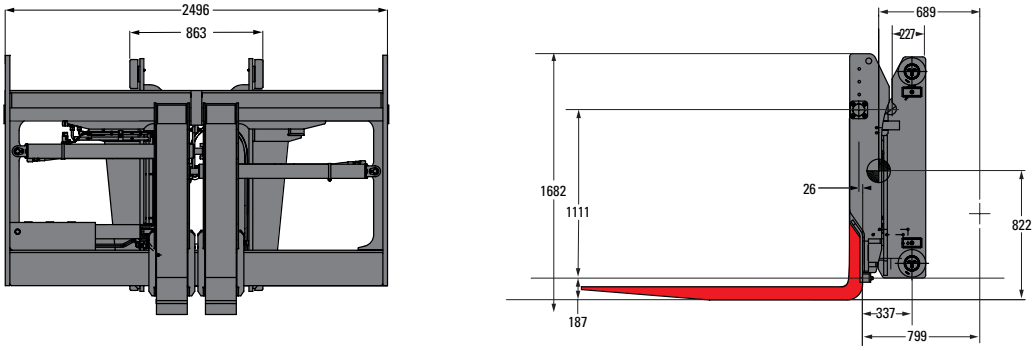





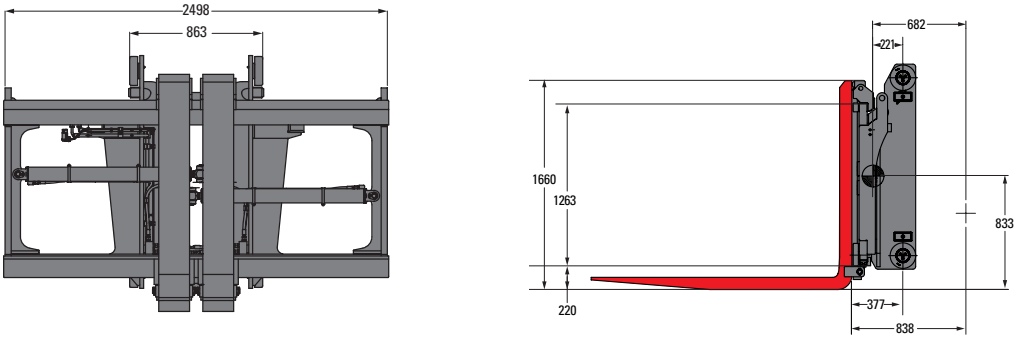

**Pin type carriage with fork positioner**




**Pin type integral sideshift frame carriage with fork positioner**




**Dual function sideshift carriage with fork positioner**



# H13XD6 / H14XD6 SPECIFICATIONS

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| GENERAL | 1-1 | Manufacturer | | | HYSTER | | HYSTER | |
| | 1-2 | Model designation | | | H13XD6 | | H14XD6 | |
| | 1-3 | Powertrain / drivetrain | | | Diesel | | Diesel | |
| | 1-4 | Operator type | | | Seated | | Seated | |
| | 1-5 | Rated capacity / rated load | Q | kg | 13,500 | | 14,500 | |
| | 1-6 | Load centre distance | c | mm | 600 | | 600 | |
| | 1-8 | Load distance | x | mm | 889 | | 889 | |
| | 1-9 | Wheelbase | y | mm | 3,300 | | 3,300 | |
| WEIGHT | 2-1 | Service weight **(1)** | | kg | 18,403 | | 19,208 | |
| | 2-2 | Axle loading with load, front / rear | | kg | 29,537 | 2,366 | 30,970 | 2,738 |
| | 2-3 | Axle loading without load, front / rear | | kg | 9,945 | 8,458 | 9,927 | 9,281 |
| WHEELS | 3-1 | Tyre type | | | Pneumatic | | Pneumatic | |
| | 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 | Wheels, number front / rear (x = driven wheels) | | | 4X / 2 | | 4X / 2 | |
| | 3-6 | Tread, front | $b_{10}$ | mm | 1,842 | | 1,842 | |
| | 3-7 | Tread, rear | $b_{11}$ | mm | 2,000 | | 2,000 | |
| DIMENSIONS | 4-1 | Mast tilt, forward / backward | $\alpha/\beta$ | deg | 15° / 12° | | 15°/ 12° | |
| | 4-2 | Height, mast lowered | $h_1$ | mm | 4,193 | | 4,193 | |
| | 4-3 | Free lift | $h_2$ | mm | 0 | | 0 | |
| | 4-4 | Lift | $h_3$ | mm | 4,910 | | 4,910 | |
| | 4-5 | Height, mast extended | $h_4$ | mm | 6,648 | | 6,648 | |
| | 4-7 | Height of overhead guard (open cab) | $h_6$ | mm | 3,083 | | 3,083 | |
| | 4-7-1 | Height of overhead guard (closed cab) | $h_6$ | mm | 3,110 | | 3,110 | |
| | 4-7-2 | Height of overhead guard (closed cab w/ aircon) | $h_6$ | mm | 3,110 | | 3,110 | |
| | 4-7-3 | Height of overhead guard (closed cab w/ strobe light) | $h_6$ | 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 | 717 | | 717 | |
| | 4-16 | Overhang | $l_5$ | mm | 809 | | 809 | |
| | 4-19 | Overall length | $l_1$ | mm | 6,828 | | 6,828 | |
| | 4-20 | Length to face of forks | $l_2$ | mm | 4,998 | | 4,998 | |
| | 4-21 | Overall width | $b_2$ | mm | 2,541 | | 2,541 | |
| | 4-22 | Fork dimensions ISO 2331 | s/e/l | mm | 90 / 200 / 1.830 | | 90 / 200 / 1.830 | |
| | 4-23 | Fork carriage type | | | 85 mm pin type carriage | | 85 mm pin type carriage | |
| | 4-24 | Fork carriage width | $b_3$ | mm | 2,496 | | 2,496 | |
| | 4-25 | Distance between fork-arms | $b_5$ | mm | 470 | 2,420 | 470 | 2,420 |
| | 4-30 | Sideshift | $b_8$ | mm | 0 | | 0 | |
| | 4-31 | Ground clearance, laden, below mast | $m_1$ | mm | 245 | | 245 | |
| | 4-32 | Ground clearance, centre of wheelbase | $m_2$ | mm | 341 | | 341 | |
| | 4-33 | 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 | 6,873 | | 6,873 | |
| | 4-34-1-3 | Aisle width, with 10% operating clearance | Ast | mm | 7,340 | | 7,340 | |
| | 4-35 | Outside turning radius | $W_a$ | mm | 4,584 | | 4,584 | |
| | 4-36 | Internal turning radius | $b_{13}$ | mm | 1,890 | | 1,890 | |
| PERFORMANCE | 5-1 | Travel speed, with / without load **(2)** | | km/h | 27.4 | 29.0 | 27.4 | 29.0 |
| | 5-1-1 | Travel speed, with / without load backwards **(2)** | | km/h | On request | | On request | |
| | 5-2 | Lifting speed, with / without load | | m/s | 0.41 | 0.46 | 0.41 | 0.46 |
| | 5-3 | Lowering speed with / without load | | m/s | 0.50 | 0.48 | 0.50 | 0.48 |
| | 5-5 | Drawbar pull - 1.6 km/h \| 1 mph, with / without load | | kN | 109 | 111 | 108 | 111 |
| | 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 |

**(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

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| GENERAL | 1-1 | Manufacturer | | | HYSTER | | HYSTER | |
| | 1-2 | Model designation | | | H10XD12 | | H16XD6 | |
| | 1-3 | Powertrain / drivetrain | | | Diesel | | Diesel | |
| | 1-4 | Operator type | | | Seated | | Seated | |
| | 1-5 | Load capacity at load centre, nominal **(1)** | Q | kg | 10,500 | | 16,500 | |
| | 1-6 | Load centre distance | $c_1$ | mm | 1,200 | | 600 | |
| | 1-8 | Load distance | x | mm | 889 | | 889 | |
| | 1-9 | Wheelbase | y | mm | 3,300 | | 3,300 | |
| WEIGHT | 2-1 | Service weight **(1)** | | kg | 19,356 | | 20,008 | |
| | 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 |
| WHEELS | 3-1 | Tyre type | | | Pneumatic | | Pneumatic | |
| | 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 | Wheels, number front / rear (x = driven wheels) | | | 4X / 2 | | 4X / 2 | |
| | 3-6 | Tread, front | $b_{10}$ | mm | 1,842 | | 1,842 | |
| | 3-7 | Tread, rear | $b_{11}$ | mm | 2,000 | | 2,000 | |
| DIMENSIONS | 4-1 | Mast tilt, forward / backward | $\alpha/\beta$ | deg | 15° / 12° | | 15° / 12° | |
| | 4-2 | Height, mast lowered | $h_1$ | mm | 4,193 | | 4,193 | |
| | 4-3 | Free lift | $h_2$ | mm | 0 | | 0 | |
| | 4-4 | Lift | $h_3$ | mm | 4,910 | | 4,910 | |
| | 4-5 | Height, mast extended | $h_4$ | mm | 6,648 | | 6,648 | |
| | 4-7 | Height of overhead guard (closed cab) | $h_6$ | mm | 3,083 | | 3,083 | |
| | 4-7-1 | Height of overhead guard (closed cab) | $h_6$ | mm | 3,110 | | 3,110 | |
| | 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 | 717 | | 717 | |
| | 4-16 | Overhang | $l_5$ | mm | 809 | | 809 | |
| | 4-19 | Overall length | $l_1$ | mm | 7,438 | | 6,828 | |
| | 4-20 | Length to face of forks | $l_2$ | mm | 4,998 | | 4,998 | |
| | 4-21 | Overall width | $b_2$ | mm | 2,541 | | 2,541 | |
| | 4-22 | Fork dimensions ISO 2331 | s/e/l | mm | 90 / 200 / 2.440 | | 90 / 200 / 1.830 | |
| | 4-23 | Fork carriage type | | | 85 mm pin type carriage | | 85 mm pin type carriage | |
| | 4-24 | Fork carriage width | $b_3$ | mm | 2,496 | | 2,496 | |
| | 4-25 | Distance between fork-arms | $b_5$ | mm | 470 | 2,420 | 470 | 2,420 |
| | 4-30 | Sideshift | $b_8$ | mm | 0 | | 0 | |
| | 4-31 | Ground clearance, laden, below mast | $m_1$ | mm | 245 | | 245 | |
| | 4-32 | Ground clearance, centre of wheelbase | $m_2$ | mm | 341 | | 341 | |
| | 4-33 | 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 | 8,073 | | 6,873 | |
| | 4-34-1-3 | Aisle width, with 10% operating clearance | Ast | mm | 8,660 | | 7,340 | |
| | 4-35 | Outside turning radius | $W_a$ | mm | 4,584 | | 4,584 | |
| | 4-36 | Internal turning radius | $b_{13}$ | mm | 1,890 | | 1,890 | |
| PERFORMANCE | 5-1 | Travel speed, with / without load **(2)** | | km/h | 27.4 | 29.0 | 27.4 | 29.0 |
| | 5-1-1 | Travel speed, with load locked / without load **(2)** | | km/h | On request | | On request | |
| | 5-2 | Lifting speed, with / without load backwards | | m/s | 0.41 | 0.46 | 0.41 | 0.46 |
| | 5-3 | Lowering speed with / without load | | m/s | 0.50 | 0.48 | 0.50 | 0.48 |
| | 5-5 | Drawbar pull - 1.6 km/h \| 1 mph, with / without load | | kN | 109 | 111 | 108 | 111 |
| | 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 | | % | 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

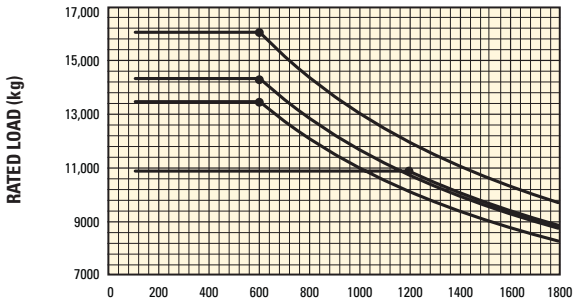
| | Lift height $h_3 + s$ (mm) | Lowered height $h_1$ (mm) | Free lift height $h_2 + s$ (m) | Extended height $h_4$ (mm) | Standard pin type carriage (kg) | | Sideshift frame pin type carriage (kg) | | QD DFSSFP carriage (kg) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | H13XD6 | H14XD6 | H13XD-6 | H14XD6 | H13XD6 | H14XD6 |
| 2 STAGE NFL | 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 |
| | 4500 | 3943 | 0 | 6148 | 13,500 | 14,500 | 13,400 | 14,500 | 13,100 | 14,400 |
| | 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 | Capacity will vary based on side shift and back-tilt | |
| | 6000 | 4693 | 0 | 7648 | 13,100 | 14,140 | 12,940 | 14,140 | | |
| | 6250 | 4818 | 0 | 7898 | 12,980 | 14,040 | 12,840 | 14,040 | | |
| | 6500 | 4943 | 0 | 8148 | 12,880 | 13,940 | 12,720 | 13,940 | | |
| | 7000 | 5193 | 0 | 8648 | 12,600 | 13,740 | 12,460 | 13,740 | | |

### H10XD12 - H16XD6 RATED CAPACITY KG@ 600 MM LOAD CENTRE

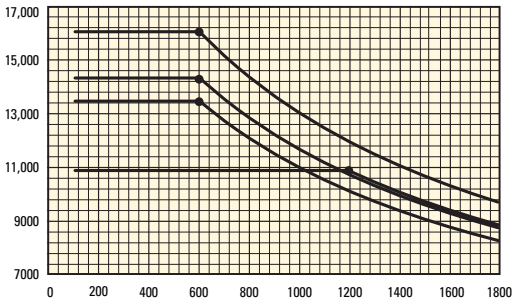
| | Lift height $h_3 + s$ (mm) | Lowered height $h_1$ (mm) | Free lift height $h_2 + s$ (m) | Extended height $h_4$ (mm) | Standard pin type carriage (kg) | | Sideshift frame pin type carriage (kg) | | QD DFSSFP carriage (kg) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | H10XD12 | H16XD6 | H10XD12 | H16XD6 | H10XD12 | H16XD6 |
| 2 STAGE NFL | 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 |
| | 4500 | 3943 | 0 | 6148 | 10,500 | 16,500 | 10,400 | 16,400 | 10,200 | 16,100 |
| | 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 | Capacity will vary based on side shift and back-tilt | |
| | 6000 | 4693 | 0 | 7648 | 10,180 | 16,120 | 10,060 | 15,920 | | |
| | 6250 | 4818 | 0 | 7898 | 10,100 | 16,000 | 9,980 | 15,800 | | |
| | 6500 | 4943 | 0 | 8148 | 10,020 | 15,880 | 9,900 | 15,680 | | |
| | 7000 | 5193 | 0 | 8648 | 9,820 | 15,600 | 9,700 | 15,400 | | |

# RATED CAPACITIES

**STANDARD PIN TYPE CARRIAGE**

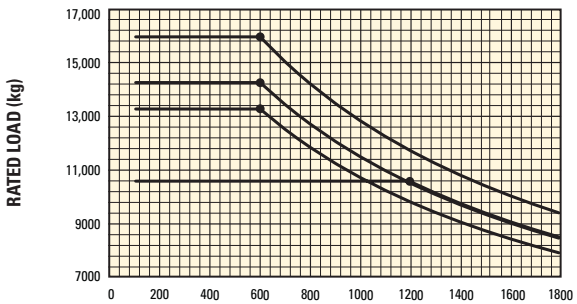



**PIN TYPE CARRIAGE WITH FORK POSITIONER**

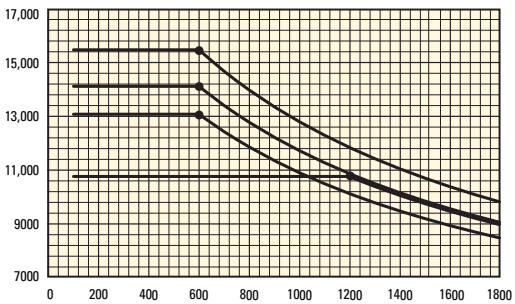



H16XD6
H14XD6
H13XD6
H10XD12

**PIN TYPE SIDESHIFT FRAME CARRIAGE**




**DF-SS-FP CARRIAGE**




H16XD6
H14XD6
H13XD6
H10XD12

Load centre - distance from front of forks to centre of gravity of load. Rated load - based on vertical mast.

| | | | | | |
|---|---|---|---|---|---|
| GENERAL | 1-1 | Manufacturer | | | HYSTER |
| | 1-2 | Model designation | | | H13XD6 / H14XD6 / H10XD12 / H16XD6 |
| | 1-3 | Powertrain / drivetrain | | | Diesel |

| | | | | | |
|---|---|---|---|---|---|
| ENGINE | 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 |
| | 7-3 | Rated speed | | $min^{-1}$ | 2,300 |
| | 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 |

| | | | | | |
|---|---|---|---|---|---|
| DRIVE | 8-1 | Drive control / Transmission | | Type / # | Hydrodynamic transmission |
| | 8-2 | Transmission manufacturer / type | | Type / # | ZF / WG161 |
| | 8-4 | Transmission speeds forward / backward | | # | 3 / 3 |
| | 8-5 | Coupling | | Type | Torque Converter |
| | 8-6 | Wheel drive / drive axle manufacturer / type | | Type / # | Kessler D81 |
| | 8-11 | Service brake | | Type | Oil immersed (wet) disc |
| | 8-12 | Parking brake | | Type | Spring applied, dry disc on drive axle |

| | | | | | |
|---|---|---|---|---|---|
| MISC | 10-1 | Operating pressure for attachments | | bar | 22.5 |
| | 10-2 | Oil volume for attachments | | l/m | 100 |
| | 10-3 | Hydraulic tank capacity | | l | 140 |
| | 10-4 | Fuel tank capacity | | l | 158 |
| | 10-4-1 | DEF/AdBlue Tank capacity | | l | 19 |
| | 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.

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

**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.*

Specification data is based on VDI 2198.

# FEATURES AND OPTIONS

| PERFORMANCE | STD | OPT |
|---|---|---|
| Cummins QSB 6.7L diesel engine rated 122 kW Stage IV / 164 hp Tier 4F | X | |
| Stage IV / Tier 4 compliant | X | |
| Variable geometry turbocharger, water cooled | X | |
| Hibernate Idle | X | |
| On-demand cooling fan | X | |
| Performance modes | X | |
| Powertrain protection system | X | |
| Heavy duty air intake | X | |
| Heavy duty air intake (raised) | | X |
| Low mount exhaust (below chassis) | X | |
| High mount exhaust | | X |
| ZF Transmission WG161 3-speeds forward/3-speeds reverse auto-shifting | X | |
| Kessler D81 drive axle with wet disc brakes | X | |
| **DRIVE** | **STD** | **OPT** |
| Speed limiter - unconditional and customer adjustable | | X |
| Travel speed limiter - loaded (adjustable) | X | |
| 12.00 - 20 20PR Trelleborg Pneumatic Bias Ply drive and steer tyres | X | |
| 12.00 - R20 Michelin XZM Radial drive and steer tyres | | X |
| 12.00 - R20 Trelleborg Radial drive and steer tyres | | X |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tyres | | X |
| Spare wheels and tyres | | X |
| **LIFT** | **STD** | **OPT** |
| 90cc dual pump hydraulic system | X | |
| 111cc dual pump hydraulic system | | X |
| On-demand load sensing hydraulic system | X | |
| Automatic throttle-up when lifting (in neutral or inching) | X | |
| Variable lap mast for low roller forces | X | |
| 2 Stage Non Free Lift mast | X | |
| 2 Stage Full Free Lift mast | | X |
| 3 Stage Full Free Lift mast | | X |
| Mast tilt - 5° Forward / 6° Back | | X |
| Mast tilt - 5° Forward / 12° Back | | X |
| Mast tilt - 15° Forward / 10° Back | | X |
| Mast tilt - 15° Forward / 12° Back | X | |
| Mast tilt - 20.5° Forward / 7° Back | | X |
| Hydraulic accumulator | | X |
| Pressure compensated lowering | X | |
| Hydraulic system temperature protection | | X |
| **HANDLING** | **STD** | **OPT** |
| Mast tilt indicator - mechanical | | X |
| 2400mm (94.3") Pin type standard carriage | X | |
| 2400mm (94.3") Pin type carriage with simultaneous and independent fork positioner | | X |
| 2400mm (94.3") Pin type integral sideshift carriage | | X |
| 2400mm (94.3") Pin type integral sideshift carriage with simultaneous fork positioner | | X |
| 2400mm (94.3") Pin type integral sideshift carriage with simultaneous and independent fork positioner | | X |
| 2400mm (94.5") QD Hook type dual function sideshift carriage with simultaneous and independent fork positioner | | X |

| HANDLING (continued) | STD | OPT |
|---|---|---|
| 2400mm (94.4") QD Hook type dual function sideshift carriage with simultaneous fork positioner and 2 auxiliary functions | | X |
| 2500mm (98") high load backrest (for lumber applications) | | X |
| 1760mm (69") high load backrest | | X |
| 2010mm (79") high load backrest | | X |
| 2500mm (98") high load backrest (for lumber applications) | | X |
| 1220mm x 75mm x 200mm (48" long x 3" thick x 7.9" wide) forks | X | |
| Pin type forks (various sizes) | | X |
| Pin type forks for lumber applications | | X |
| Hook type quick disconnect DFSSFP forks (various sizes) | | X |
| **ERGONOMICS** | **STD** | **OPT** |
| Open operator compartment (without doors and screens) | X | |
| Enclosed operator cabin | | X |
| Powered tilt operator compartment for service | | X |
| Manual tilt operator compartment for service | X | |
| Isolated cabin mounting for low noise and vibration | X | |
| Operator presence system | X | |
| Mechanical suspension seat | X | |
| Air suspension seat | | X |
| Deluxe air suspension seat | | X |
| Low backrest seat | X | |
| High backrest seat | | X |
| Additional armrest on left side | | X |
| Cloth seat cover | | X |
| Vinyl seat cover | X | |
| Seat heating | | X |
| Seat ventilation | | X |
| 2-point high visibility seatbelt | X | |
| 3-point high visibility seatbelt | | X |
| Lateral seat sliding mechanism | | X |
| Floor mat | X | |
| Coat hook | X | |
| Dimmable interior light | | X |
| Front, top and rear wipers | X | |
| "H"-pattern front wiper | | X |
| "I"-pattern front wiper | X | |
| Laminated glass operator compartment front window | | X |
| Top window with armoured glass - FOPS certified (enclosed operator cabin) | X | |
| Steel bars under amoured glass top window (enclosed operator cabin) | | X |
| Tinted operator compartment windows (all) | | X |
| Tinted operator compartment top window | | X |
| Lexan top window | | X |
| Plexiglass shield in front of front window | | X |
| Wire mesh installed on top of operator compartment | | X |
| Vertical steel bar front window guard | | X |
| Operator shield wire mesh | | X |
| 7" Integrated performance display | X | |
| Touchpoint™ mini levers hydraulic control integrated in control arm | X | |
| Joystick hydraulic control integrated in control arm | | X |

# FEATURES AND OPTIONS

| ERGONOMICS (continued) | STD | OPT |
|---|---|---|
| Steering wheel without spinner knob | | X |
| Steering wheel with spinner knob | X | |
| Directional control lever | X | |
| Hyster Monotrol pedal directional control | | X |
| Directional control on Mini-levers or Joystick | | X |
| Park brake - manual | X | |
| Park brake - automatic | | X |
| Interior wide angle mirrors | X | |
| Heater with adjustable speed fan | X | |
| Diesel fueled cabin heater | | X |
| Telescoping and tilting steering column | X | |
| DC/DC converter 24 volt/12 volt with socket | | X |
| Air conditioning | | X |
| Automatic climate control | | X |
| Reading light | | X |
| Sun shades on top and rear | | X |
| Sun visors front window | | X |
| Trainer seat | | X |
| 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 |
| Radar object detection system | | X |
| Halogen work lights | X | |
| LED work lights | | X |
| 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 | | X |
| LED stop/tail/brake lights | X | |
| Turn signals, hazard and marker lights (LED) | X | |
| **OPERATION** | **STD** | **OPT** |
| Air horn 112 dBA | | X |
| Electric horn 105 dBA | X | |
| Visible alarm – amber strobe light, key switch activated | X | |
| Visible alarm – amber strobe light, switch and key switch activated* | | X |
| Audible alarm – reverse direction activated 82–102 dB(A), self-adjusting | X | |
| Audible alarm – reverse direction white noise | | X |
| Forward / reverse motion alarm | | X |
| Blue LED spotlight – rear / front and rear | | X |

| OPERATION (continued) | STD | OPT |
|---|---|---|
| Tyre pressure monitoring system | | X |
| Air-conditioning or automatic Cclimate control off with open door | | X |
| Automatic truck shutdown with timer | | X |
| Preventative maintenance reminder in display | | X |
| Lockable battery disconnect switch | X | |
| Battery jump start connector (NATO plug) | | X |
| Truck Start with key switch and start button | X | |
| Operator password (display) for truck start | | X |
| Seatbelt interlock for truck start | | X |
| Power distribution group with fuses | X | |
| Fuses partially replaced by electric circuit breakers | | X |
| Non-lockable fuel cap | X | |
| Lockable fuel cap | | X |
| Diesel fuel inlet strainer in filler neck | | X |
| Hyster Tracker wireless asset management system | | X |
| Hyster Tracker wireless asset management - Access / Verification | | X |
| Hyster Tracker wireless asset management - Monitoring | | X |
| Auto greasing system for basic truck and outer mast | | X |
| Centralized greasing provision for upper chain sheaves | X | |
| 24 volt electrical system | X | |
| Engine block heater 110 and 240 volt | | X |
| Steer wheel lug nut protection | | X |
| Front mud flaps | | X |
| Rear mud flaps | | X |
| Lifting eyes - 2 front and 2 rear | | X |
| Wire mesh belly pan | | X |
| Wire mesh and plates belly pan | | X |
| **APPEARANCE** | **STD** | **OPT** |
| Hyster yellow paint base truck | X | |
| Special paint base truck | | X |
| Operator compartment special paint (outside only) | | X |
| Operator compartment special paint (complete cabin) | | X |
| Hazard warning striping on counterweight | | X |
| **SUPPLEMENTAL** | **STD** | **OPT** |
| Literature package | X | |
| Operator's manual | X | |
| CE certification* | X | |
| Warranty: 12 Months / 2,000 Hours Parts & Labour manufacturer's warranty | | X |
| Warranty: 12 Months / 2,000 Hours Parts manufacturer's warranty | X | |

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

# FRONT END EQUIPMENT

## RANGE OF 2 STAGE NFL MASTS

## RANGE OF PIN TYPE AND HOOK TYPE FORKS

## 2496MM PIN TYPE STANDARD CARRIAGE

## 2496MM PIN TYPE CARRIAGE WITH SIMULTANEOUS AND INDEPENDENT FORK POSITIONER (FOR LUMBER APPLICATIONS)

## 2496MM PIN TYPE CARRIAGE WITH SIMULTANEOUS AND INDEPENDENT FORK POSITIONER

## 2496MM PIN TYPE INTEGRAL SIDESHIFT FRAME CARRIAGE

## 2498MM QD HOOK TYPE DUAL FUNCTION SIDESHIFT WITH - SIMULTANEOUS AND INDEPENDANT FORK POSITIONER

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Printed in EU. Part number: 3990397 Rev. 02-10/19-TLC