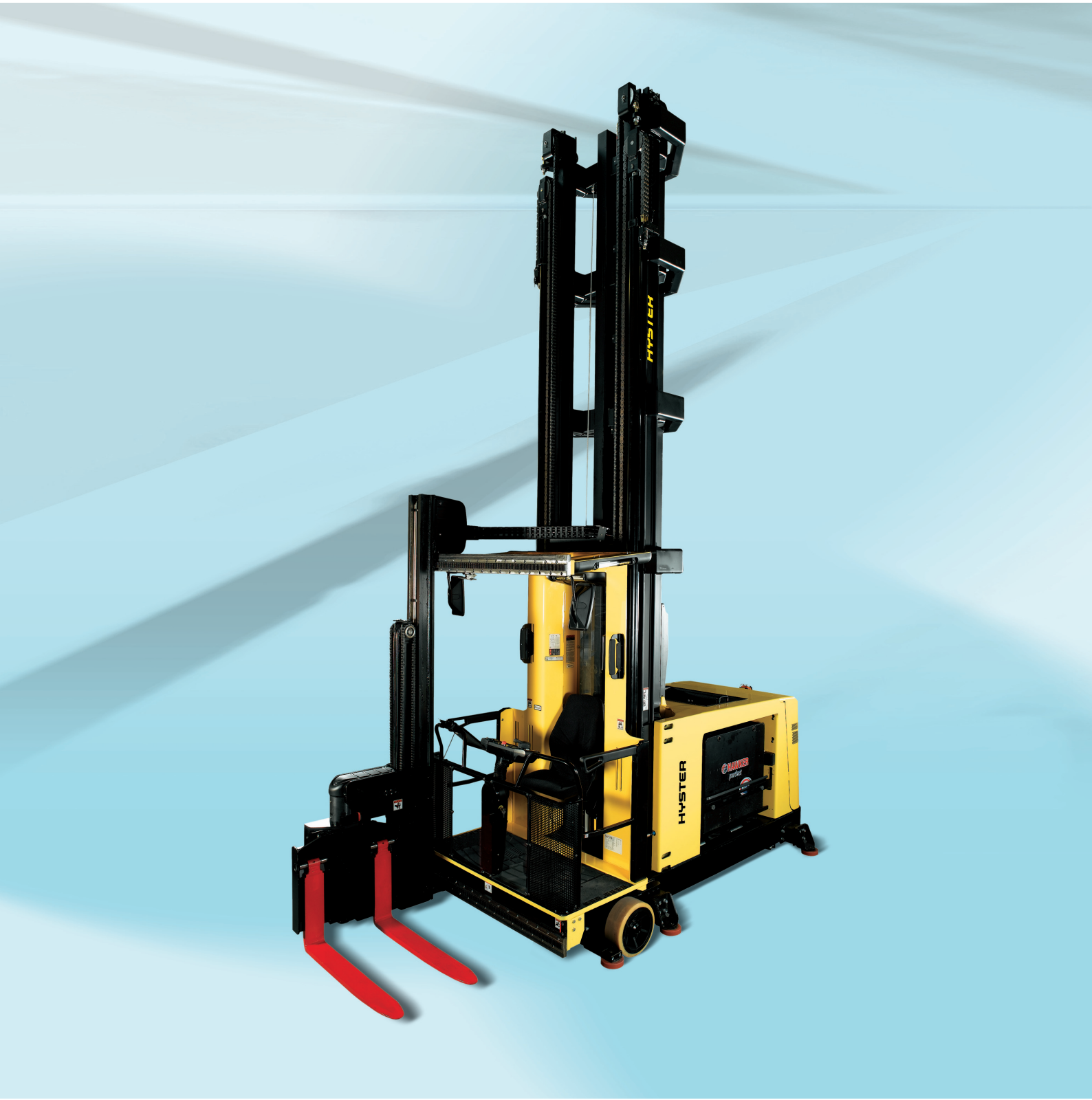
STRONG PARTNERS. TOUGH TRUCKS.

# VNA Man-up Trucks
# C1.0, C1.3, C1.5

1 000 – 1 500 kg @ 600 mm



# C1.0, C1.3, C1.3 80, C1.3 L, C1.5 S, C1.5 M, C1.5 L

| | | | HYSTER | HYSTER | HYSTER |
|---|---|---|---|---|---|
| CHARACTERISTICS | 1.1 | Manufacturer | | | |
| | 1.2 | Model designation | C1.0 | C1.3 | C1.3 80 |
| | 1.3 | Power: battery, diesel, LPG, electric mains | Electric | Electric | Electric |
| | 1.4 | Operation: manual, pedestrian, stand-on, seated | Driver seated/stand-on | Driver seated/stand-on | Driver seated/stand-on |
| | 1.5 | Load capacity Q (kg) | 1 000 | 1 3000 | 1 300 |
| | 1.6 | Load centre c (mm) | 600 | 600 | 600 |
| | 1.8 | Load face x (mm) | Variable | Variable | Variable |
| | 1.9 | Wheelbase y (mm) | 1 783 | 1 943 | 1 943 |
| WEIGHTS | 2.1 | Unladen weight kg | 6 276 | 6 701 | 6 701 |
| | 2.2 | Axle loading with load, front/rear kg | Variable | Variable | Variable |
| | 2.3 | Axle loading without load, front/rear kg | Variable | Variable | Variable |
| WHEELS & TYRES | 3.1 | Tyres: rubber, polyurethane front/rear | Polyurethane | Polyurethane | Polyurethane |
| | 3.2 | Tyre size, front $d_1$ (mm) | Ø 350 x 140 | Ø 350 x 140 | Ø 350 x 140 |
| | 3.3 | Tyre size, rear $d_2$ (mm) | Ø 400 x 160 | Ø 400 x 160 | Ø 400 x 160 |
| | 3.5 | Wheels, number front/rear (x = driven) | 2 1x | 2 1x | 2 1x |
| | 3.6 | Track width, front $b_{10}$ (mm) | Variable | Variable | Variable |
| | 3.7 | Track width, rear $b_{11}$ (mm) | 0 | 0 | 0 |
| DIMENSIONS | 4.2 | Height of mast, lowered $h_1$ (mm) | See table | See table | See table |
| | 4.3 | Free stroke height $h_2$ (mm) | - | - | - |
| | 4.4 | Main lift $h_3$ (mm) | See table | See table | See table |
| | 4.5 | Height of mast, extended $h_4$ (mm) | See table | See table | See table |
| | 4.7 | Height of aux mast $h_6$ (mm) | See table | See table | See table |
| | 4.8 | Height of platform $h_7$ (mm) | 425 | 425 | 425 |
| | 4.11 | Auxiliary lift $h_9$ (mm) | See table | See table | See table |
| | 4.12 | Height, forks raised $h_{10}$ (mm) | See table | See table | See table |
| | 4.14 | Height, platform raised $h_{12}$ (mm) | See table | See table | See table |
| | 4.15 | Lowered height $h_{13}$ (mm) | 80 | 80 | 80 |
| | 4.19 | Overall length (forks nested) $l_1$ (mm) | Variable | Variable | Variable |
| | 4.20 | Overall length (forks forward - 1 200 fork length) $l_2$ (mm) | Variable | Variable | Variable |
| | 4.21 | Overall width $b_1/b_2$ (mm) | Variable | Variable | Variable |
| | 4.22 | Fork dimensions ■ s/e/l (mm) | 45 100 1 200 | 45 100 1 200 | 45 100 1 200 |
| | 4.23 | Fork carriage to DIN 15173 class/form A,B | No | No | No |
| | 4.24 | Fork carriage width $b_3$ (mm) | 720 | 720 | 720 |
| | 4.25 | Outside fork width min/max $b_5$ (mm) | 508 720 | 508 720 | 508 720 |
| | 4.27 | Width over guide rollers $b_6$ (mm) | Variable | Variable | Variable |
| | 4.29 | Traverse stroke $b_7$ (mm) | Variable | Variable | Variable |
| | 4.31 | Ground clearance beneath mast, laden $m_1$ (mm) | 45 | 45 | 45 |
| | 4.32 | Ground clearance centre of wheelbase $m_2$ (mm) | 75 | 75 | 75 |
| | 4.34 | Aisle width with pallets 800 mm x 1 200 mm long ❖ Ast (mm) | 1 600 | 1 600 | 1 600 |
| | 4.35 | Turning radius $W_a$ (mm) | 2 100 | 2 250 | 2 250 |
| | 4.38 | Rotator center $l_8$ (mm) | 670 | 670 | 670 |
| | 4.39 | Length, rotator arm n (mm) | 670 | 670 | 670 |
| | 4.40 | Width, traverse frame B (mm) | Variable | Variable | Variable |
| | 4.41 | Lost rotator width F (mm) | 210 | 210 | 210 |
| | 4.42 | Transfer aisle width pallet 1 200 mm x 1 200 mm ● Au (mm) | 4 140 | 4 295 | 4 295 |
| PERFORMANCE | 5.1 | Travel speed with/without load km/h | 9.9 10.0 | 10.4 10.5 | 11.9 12.0 |
| | 5.2 | Lift speed with/without load m/s | 0.41 0.45 | 0.41 0.45 | 0.41 0.45 |
| | 5.3 | Lowering speed with/without load m/s | 0.50 0.45 | 0.50 0.45 | 0.50 0.45 |
| | 5.4 | Traverse speed with/without load m/s | 0.30 | 0.30 | 0.30 |
| | 5.7 | Max. gradeability, with/without load % | 6 | 6 | 6 |
| | 5.10 | Service brake | Electric/mechanical | Electric/mechanical | Electric/mechanical |
| MOTOR | 6.1 | Drive motor, S2 60 minute rating kW | 7.5 | 7.5 | 8.0 |
| | 6.2 | Lifting motor, S3 25% rating kW | 2 x 12 | 2 x 12 | 2 x 15 |
| | 6.3 | Battery DIN 43531/36 A,B,C, no | DIN B DIN C DIN C | DIN B DIN C | DIN A |
| | 6.4 | Battery voltage/capacity at 5 hour rate V/Ah | 48/560 48/560 48/700 | 48/700 48/840 | 80/420 |
| | 6.5 | Battery weight kg | 950 1 000 1 300 | 1 360 1 360 | 1 360 |
| OTHER | 8.1 | Drive control | AC - MOSFET | AC - MOSFET | AC - MOSFET |
| | 8.2 | Working pressure for attachments bar | 150 | 150 | 150 |
| | 8.3 | Oil flow for attachments l/min | 6 | 6 | 6 |
| | 8.4 | Medium noise level dB(A) | <70 | <70 | <70 |

| HYSTER | HYSTER | HYSTER | HYSTER | 1.1 | CHARACTERISTICS |
|---|---|---|---|---|---|
| C1.3 L | C1.5 S | C1.5 M | C1.5 L | 1.2 | |
| Electric | Electric | Electric | Electric | 1.3 | |
| Driver seated/stand-on | Driver seated/stand-on | Driver seated/stand-on | Driver seated/stand-on | 1.4 | |
| 1 300 | 1 500 | 1 500 | 1 500 | 1.5 | |
| 600 | 600 | 600 | 600 | 1.6 | |
| Variable | Variable | Variable | Variable | 1.8 | |
| 2 063 | 2 063 | 2 193 | 2 388 | 1.9 | |
| 7 034 | 7 140 | 7 685 | 7 921 | 2.1 | WEIGHTS |
| Variable | Variable | Variable | Variable | 2.2 | |
| Variable | Variable | Variable | Variable | 2.3 | |
| Polyurethane | Polyurethane | Polyurethane | Polyurethane | 3.1 | WHEELS & TYRES |
| Ø 350 x 140 | Ø 350 x 140 | Ø 350 x 140 | Ø 350 x 140 | 3.2 | |
| Ø 406 x 178 | Ø 406 x 178 | Ø 406 x 178 | Ø 406 x 178 | 3.3 | |
| 2 / 1x | 2 / 1x | 2 / 1x | 2 / 1x | 3.5 | |
| Variable | Variable | Variable | Variable | 3.6 | |
| 0 | 0 | 0 | 0 | 3.7 | |
| See table | See table | See table | See table | 4.2 | DIMENSIONS |
| - | - | - | - | 4.3 | |
| See table | See table | See table | See table | 4.4 | |
| See table | See table | See table | See table | 4.5 | |
| See table | See table | See table | See table | 4.7 | |
| 425 | 425 | 425 | 425 | 4.8 | |
| See table | See table | See table | See table | 4.11 | |
| See table | See table | See table | See table | 4.12 | |
| See table | See table | See table | See table | 4.14 | |
| 80 | 80 | 80 | 80 | 4.15 | |
| Variable | Variable | Variable | Variable | 4.19 | |
| Variable | Variable | Variable | Variable | 4.20 | |
| Variable | Variable | Variable | Variable | 4.21 | |
| 45 / 100 / 1 200 | 45 / 100 / 1 200 | 45 / 100 / 1 200 | 45 / 100 / 1 200 | 4.22 | |
| No | No | No | No | 4.23 | |
| 720 | 720 | 720 | 720 | 4.24 | |
| 508 / 720 | 508 / 720 | 508 / 720 | 508 / 720 | 4.25 | |
| Variable | Variable | Variable | Variable | 4.27 | |
| Variable | Variable | Variable | Variable | 4.29 | |
| 45 | 45 | 45 | 45 | 4.31 | |
| 75 | 75 | 75 | 75 | 4.32 | |
| 1 600 | 1 600 | 1 600 | 1 600 | 4.34 | |
| 2 370 | 2 370 | 2 495 | 2 685 | 4.35 | |
| 670 | 670 | 670 | 670 | 4.38 | |
| 670 | 670 | 670 | 670 | 4.39 | |
| Variable | Variable | Variable | Variable | 4.40 | |
| 210 | 210 | 210 | 210 | 4.41 | |
| 4 410 | 4 410 | 4 540 | 4 735 | 4.42 | |
| 11.9 / 12.0 | 11.9 / 12.0 | 11.9 / 12.0 | 11.9 / 12.0 | 5.1 | PERFORMANCE |
| 0.41 / 0.45 | 0.41 / 0.45 | 0.41 / 0.45 | 0.41 / 0.45 | 5.2 | |
| 0.50 / 0.45 | 0.50 / 0.45 | 0.50 / 0.45 | 0.50 / 0.45 | 5.3 | |
| 0.30 | 0.30 | 0.30 | 0.30 | 5.4 | |
| 6 | 6 | 6 | 6 | 5.7 | |
| Electric/mechanical | Electric/mechanical | Electric/mechanical | Electric/mechanical | 5.10 | |
| 7.5 | 8.0 | 8.0 | 8.0 | 6.1 | MOTOR |
| 2 x 12 | 2 x 15 | 2 x 15 | 2 x 15 | 6.2 | |
| DIN B | DIN A | DIN A | DIN A | 6.3 | |
| 48/1 085 | 80/560 | 80/700 | 80/840 | 6.4 | |
| 1 580 | 1 600 | 1 900 | 1 900 | 6.5 | |
| AC - MOSFET | AC - MOSFET | AC - MOSFET | AC - MOSFET | 8.1 | OTHER |
| 150 | 150 | 150 | 150 | 8.2 | |
| 6 | 6 | 6 | 6 | 8.3 | |
| <70 | <70 | <70 | <70 | 8.4 | |

# Mast information

## Vista 2-Stage masts

| | Maximum fork height $H = h_3 + h_9 + h_{13}$ (mm) | Overall lowered height (main mast) $h_1$ (mm) | Overall lowered height (mini mast) $h_6$ (mm) | Free lift $h_9$ (mm) | Main Lift $h_3$ (mm) | Overall extended height $h_4$ (mm) | Raised platform height $h_{12}$ (mm) |
|---|---|---|---|---|---|---|---|
| C1.0<br>C1.3<br>C1.3 (80V)<br>C1.3 L<br>C1.5 S | **5 240** | 2 740 | 3 000 | 1 980 | 3 180 | 6 227 | 3 585 |
| | **5 740** | 2 990 | 3 000 | 1 980 | 3 680 | 6 727 | 4 085 |
| | **6 240** | 3 240 | 3 000 | 1 980 | 4 180 | 7 227 | 4 585 |
| | **6 740** | 3 490 | 3 000 | 1 980 | 4 680 | 7 727 | 5 085 |
| | **7 240** | 3 740 | 3 000 | 1 980 | 5 180 | 8 227 | 5 585 |
| | **7 740** | 3 990 | 3 000 | 1 980 | 5 680 | 8 727 | 6 085 |
| C1.3<br>C1.3 (80V)<br>C1.3 L<br>C1.5 S | **8 240** | 4 240 | 3 000 | 1 980 | 6 180 | 9 227 | 6 585 |
| | **8 740** | 4 490 | 3 000 | 1 980 | 6 680 | 9 727 | 7 085 |
| | **9 240** | 4 740 | 3 000 | 1 980 | 7 180 | 10 227 | 7 585 |
| | **9 740** | 4 990 | 3 000 | 1 980 | 7 680 | 10 727 | 8 085 |
| | **10 220** | 5 390 | 3 000 | 1 980 | 8 160 | 11 207 | 8 565 |
| C1.3 L<br>C1.5 S | **10 520** | 5 540 | 3 000 | 1 980 | 8 460 | 11 507 | 8 865 |
| | **10 920** | 5 740 | 3 000 | 1 980 | 8 860 | 11 907 | 9 265 |
| C1.5 S | **11 420** | 5 990 | 3 000 | 1 980 | 9 360 | 12 407 | 9 765 |
| | **11 620** | 6 090 | 3 000 | 1 980 | 9 560 | 12 607 | 9 965 |
| | **11 920** | 6 240 | 3 000 | 1 980 | 9 860 | 12 907 | 10 265 |
| | **12 320** | 6 440 | 3 000 | 1 980 | 10 260 | 13 307 | 10 665 |
| C1.5M | **5 420** | 2 990 | 3 000 | 1 980 | 3 360 | 6 407 | 3 765 |
| | **5 920** | 3 240 | 3 000 | 1 980 | 3 860 | 6 907 | 4 265 |
| | **6 420** | 3 490 | 3 000 | 1 980 | 4 360 | 7 407 | 4 765 |
| | **6 920** | 3 740 | 3 000 | 1 980 | 4 860 | 7 907 | 5 265 |
| | **7 420** | 3 990 | 3 000 | 1 980 | 5 360 | 8 407 | 5 765 |
| | **7 920** | 4 240 | 3 000 | 1 980 | 5 860 | 8 907 | 6 265 |
| | **8 420** | 4 490 | 3 000 | 1 980 | 6 360 | 9 407 | 6 765 |
| | **8 920** | 4 740 | 3 000 | 1 980 | 6 860 | 9 907 | 7 265 |
| | **9 420** | 4 990 | 3 000 | 1 980 | 7 360 | 10 407 | 7 765 |
| | **9 920** | 5 240 | 3 000 | 1 980 | 7 860 | 10 907 | 8 265 |
| | **10 220** | 5 390 | 3 000 | 1 980 | 8 160 | 11 207 | 8 565 |
| | **10 920** | 5 740 | 3 000 | 1 980 | 8 860 | 11 907 | 9 265 |
| | **11 420** | 5 990 | 3 000 | 1 980 | 9 360 | 12 407 | 9 765 |
| | **11 920** | 6 240 | 3 000 | 1 980 | 9 860 | 12 907 | 10 265 |
| C1.5 L | **12 320** | 6 440 | 3 000 | 1 980 | 10 260 | 13 307 | 10 665 |

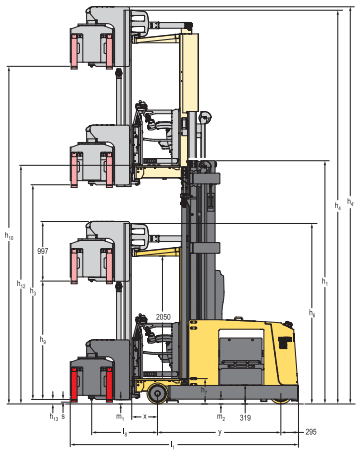
## Vista 3-Stage masts

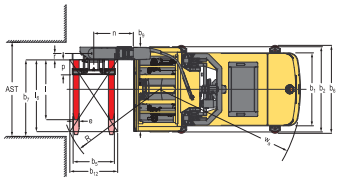
| | Maximum fork height $H = h_3 + h_9 + h_{13}$ (mm) | Overall lowered height (main mast) $h_1$ (mm) | Overall lowered height (mini mast) $h_6$ (mm) | Free lift $h_9$ (mm) | Main Lift $h_3$ (mm) | Overall extended height $h_4$ (mm) | Raised platform height $h_{12}$ (mm) |
|---|---|---|---|---|---|---|---|
| C1.3<br>C1.3 (80V)<br>C1.3 L<br>C1.5 S | **5 630** | 2 490 | 3 000 | 1 980 | 3 570 | 6 617 | 3 975 |
| | **6 380** | 2 740 | 3 000 | 1 980 | 4 320 | 7 367 | 4 725 |
| | **7 130** | 2 990 | 3 000 | 1 980 | 5 070 | 8 117 | 5 475 |
| | **7 880** | 3 240 | 3 000 | 1 980 | 5 820 | 8 867 | 6 225 |
| | **8 630** | 3 490 | 3 000 | 1 980 | 6 570 | 9 617 | 6 975 |
| | **9 380** | 3 740 | 3 000 | 1 980 | 7 320 | 10 367 | 7 725 |
| | **10 130** | 3 990 | 3 000 | 1 980 | 8 070 | 11 117 | 8 475 |
| | **10 880** | 4 240 | 3 000 | 1 980 | 8 820 | 11 867 | 9 225 |
| C1.3 L<br>C1.5 S | **11 630** | 4 490 | 3 000 | 1 980 | 9 570 | 12 617 | 9 975 |
| | **12 380** | 4 740 | 3 000 | 1 980 | 10 320 | 13 367 | 10 725 |
| C1.5M | **6 950** | 2 990 | 3 000 | 1 980 | 4 890 | 7 937 | 5 295 |
| | **7 700** | 3 240 | 3 000 | 1 980 | 5 640 | 8 687 | 6 045 |
| | **8 450** | 3 490 | 3 000 | 1 980 | 6 390 | 9 437 | 6 795 |
| | **9 200** | 3 740 | 3 000 | 1 980 | 7 140 | 10 187 | 7 545 |
| | **9 950** | 3 990 | 3 000 | 1 980 | 7 890 | 10 937 | 8 295 |
| | **10 700** | 4 240 | 3 000 | 1 980 | 8 640 | 11 687 | 9 045 |
| | **11 450** | 4 490 | 3 000 | 1 980 | 9 390 | 12 437 | 9 795 |
| | **12 200** | 4 740 | 3 000 | 1 980 | 10 140 | 13 187 | 10 545 |
| | **12 950** | 4 990 | 3 000 | 1 980 | 10 890 | 13 937 | 11 295 |
| C1.5 L | **13 700** | 5 240 | 3 000 | 1 980 | 11 640 | 14 687 | 12 045 |

## Auxiliary mini mast options

| Free lift $h_9$ (mm) | Overall extended height $h_4$ (mm) | Overall lowered height (mini mast) $h_6$ (mm) |
|---|---|---|
| **1 980** | + 0 | 3 000 |
| **2 140** | + 160 | 3 000 |
| **2 720** | + 740 | 3 585 |
| **3 000** | + 1 020 | 3 865 |

## Truck dimensions




**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.

- ■ Add 76 mm for 3-Stage mast with *n = 670 mm*
- ● Available fork lengths: 800, 1 000, 1 066 & 1 220 mm
- ❖ Ast: load dimension function

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.

## Product Features

### Dependability

- C1.0-1.5 have been through over intense test cycles, including stress analysis, endurance, thermal and stability tests, as well as field tests in multiple customer applications.
- Patented QUAD-form mast design gives increased rigidity and torsional strength.
- No need for additional support or bracing due to Hyster mast design.

### Productivity

- 30 kW / 80 V motors provides industry leading level of performance
- Max flexibility through slim turret head allows the truck to work in very small aisles
- Integral pantograph on the turret head.
- Excellent fork tip visibility improves handling and controllability.
- Standard load weight sensing calculates speed to height to weight for maximum performance.

### Ergonomics

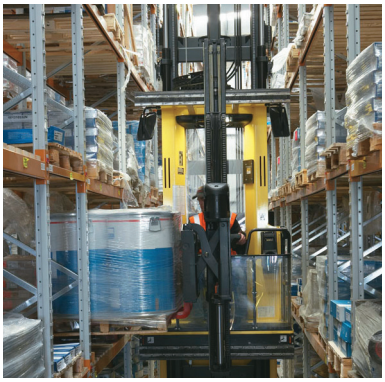
- Hyster C-series is designed and built around operator needs, providing comfortable driving experience and maximum handling efficiency.
- Patented seat provides optimal driver comfort: spring-loaded, return to centre, rotating and adjustable to suit a wide range of operator weights.
- Maximum comfort and leg room through unrivalled cabin space.
- Forward-mounted with 3-way adjustable controls
- Seat-side controls, specifically designed for intensive pallet handling environment.
- Fully adjustable operator controls, for standing and seated positions.
- Infrared sensors to detect operator presence, avoids the need for continual pressure on a button
- Patented large foot sensor gives the driver maximum freedom of movement.

### Cost of ownership

- Sealed AC motors minimize maintenance.
- CANbus electronic communication and thermal management systems to keep maintenance to a minimum.
- 1 000 hrs service intervals.
- Efficient energy management system keeps the truck working through extended shifts.
- Wide range of truck configurations and options allows customer to select the most productive and cost efficient model for any application.

### Serviceability

- Electric Truck AC Control (ETACC) Pc-based diagnostic tool.
- Easy service access speeds up maintenance and improve uptime.
- Vehicle System Manager (VSM) delivers diagnostic data to the dash display, anticipating maintenance needs and improving faults diagnisis, as well as aiding correction.



**Strong Partners, Tough Trucks, for Demanding Operations Everywhere.**

Hyster supplies a complete product range, including Warehouse trucks, 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 materials 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 materials handling needs so you can focus on the success of your business today and in the future.

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