FOUR-WHEEL ELECTRIC COUNTERBALANCED LIFT TRUCKS

J4.0-5.5XN6

4 000-5 500 KG
### J4.0XN, J4.5XN, J5.0XN6, 5.5XN6

**1.1 Manufacturer (abbreviation)**

**1.2 Manufacturer's type designation**

**2.0 INTERNAL SPECIFICATIONS**

**2.1 Service weight**

**2.2 Axle loading, laden (front/rear)**

**2.3 Axle loading, unloaded (front/rear)**

**2.4 Tyre: L = pneumatic, V = solid, SE = pneumatic/shaped solid**

**2.5 Tyre size, front**

**2.6 Tyre size, rear**

**2.7 Overall length l**

**2.8 Overall height (cabin) h**

**2.9 Height of mast, lowered h**

**3.0 Travel speed, laden/unladen **

**3.1 Lift speed, laden/unladen**

**3.2 Lowering speed, laden/unladen**

**3.3 Drawbar pull, laden/unladen**

**3.4 Maximum drawbar pull, laden/unladen***

**3.5 Gradeability, laden/unladen***

**3.6 Acceleration time, laden/unladen**

**3.7 Service brake**

**4.0 ELECTRIC ENGINE PERFORMANCE DATA**

**4.1 Step height** (mm)

**4.2 Turnig radius W**

**4.3 Ground clearance, centre of wheelbase m**

**4.4 Ground clearance, laden, below mast m**

**4.5 Fork dimensions s/e/l (mm)**

**4.6 Overall length l**

**4.7 Height of mast, lowered h**

**4.8 Straight height/height cabin h**

**4.9 Coupling height**

**4.10 Overall length l**

**4.11 Overall width**

**4.12 Fork dimensions u/l (mm)**

**4.13 Fork carriage DIN 1572. Class, A/B**

**4.14 Fork carriage width**

**4.15 Ground clearance, laden, below mast m**

**4.16 Ground clearance, centre of wheelbase m**

**4.17 Load dimension b x l (mm)**

**4.18 Aisle width predetermined load dimensions A x (mm)**

**4.19 Aisle width with pallets 1000 x 1200 width**

**4.20 Aisle width with pallets 800 x 1200 long**

**4.21 Turning radius**

**4.22 Internal turning radius**

**4.23 Internal turning radius**

**4.24 Max. turning circle**

**4.25 Max. travel distance, laden/unladen**

**4.26 Travel distance, laden/unladen**

**4.27 Lift speed, laden/unladen**

**4.28 Lowering speed, laden/unladen**

**4.29 Drawbar pull, laden/unladen**

**4.30 Maximum drawbar pull, laden/unladen***

**4.31 Gradeability, laden/unladen***

**4.32 Acceleration time, laden/unladen**

**4.33 Service brake**

**4.34 Drive: electric (battery or mains), diesel, petrol, LPG**

**4.35 Manufacturer's type designation**

**4.36 Manufacturer (abbreviation)**

**5.0 ELECTRICAL SPECIFICATIONS**

**5.1 Drive motor rating S2 60 min**

**5.2 Lift motor rating at 33 %**

**5.3 Battery according to DIN 4033/35/36 A, B, C, no**

**5.4 Battery voltage/nominal capacity KS (V/Ah)**

**5.5 Battery weight (min/max)**

**5.6 Energy consumption according to VDI cycle kWh/h 6hN of Cycles**

**6.0 ELECTRICAL SPECIFICATIONS**

**6.1 Drive control**

**6.2 Lift motor control**

**6.3 Battery charger**

**6.4 Battery voltage/nominal capacity KS (V/Ah)**

**6.5 Battery weight (min/max)**

**6.6 Energy consumption according to VDI cycle kWh/h 6hN of Cycles**

**7.0 AC ELECTRIC CONTROL**

**7.1 Drive: electronic (battery or mains), diesel, petrol, LPG**

**7.2 Operator's board layout**

**7.3 Operator's board components**

**7.4 Operator's board function**

**7.5 Operator's board indicators**

**7.6 Operator's board buttons**

**7.7 Operator's board switches**

**7.8 Operator's board controls**

**7.9 Operator's board connectors**

**8.0 WEIGHS**

**8.1 Load distance, centre of drive axle to fork x (mm)**

**8.2 Load centre distance c (mm)**

**9.0 OTHER SPECIFICATIONS**

**9.1 Load distance, centre of drive axle to fork x (mm)**

**9.2 Load centre distance c (mm)**

**9.3 Drive: electric (battery or mains), diesel, petrol, LPG**

**9.4 Manufacturer's type designation**

**9.5 Manufacturer (abbreviation)**

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*Standard / Wide tread **60 minute rating ***5 minute rating ****30 minute rating**

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**EQUIPMENT AND WEIGHT:** Weights (line 2.1) are based on the following specifications: Complete truck with 3350 mm (J4.0XN) / 3090 mm (J4.5-5.0XN) / 3100 mm (5.0-5.5XN6), 2 stage limited free lift mast, standard carriage, 1060 mm forks (J4.0) / 1200 mm forks (4.5-5.5) and load backrest, manual hydraulics and pneumatic shaped solid load and steer tyres.

**Specification data is based on VDI 2198**

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[2]
### MAST AND CAPACITY INFORMATION

#### VISTA MASTS J4.5XKN

<table>
<thead>
<tr>
<th>Maximum fork height (mm)</th>
<th>Back tilt</th>
<th>Overall lowered height (mm)</th>
<th>Overall extended height (mm)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>3 350</td>
<td>8°</td>
<td>2 320</td>
<td>4 109</td>
<td>150</td>
</tr>
<tr>
<td>3 900</td>
<td>8°</td>
<td>2 470</td>
<td>4 699</td>
<td>150</td>
</tr>
<tr>
<td>4 250</td>
<td>8°</td>
<td>2 770</td>
<td>5 099</td>
<td>150</td>
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<tr>
<td>4 450</td>
<td>8°</td>
<td>3 220</td>
<td>5 709</td>
<td>150</td>
</tr>
<tr>
<td>4 950</td>
<td>8°</td>
<td>3 620</td>
<td>6 362</td>
<td>150</td>
</tr>
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<td>7 362</td>
<td>176</td>
</tr>
<tr>
<td>6 000</td>
<td>8°</td>
<td>5 270</td>
<td>7 912</td>
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#### VISTA MASTS J5.0-5.5XKN

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<tr>
<td>3 390</td>
<td>8°</td>
<td>2 470</td>
<td>4 339</td>
<td>150</td>
</tr>
<tr>
<td>3 790</td>
<td>8°</td>
<td>2 770</td>
<td>4 869</td>
<td>150</td>
</tr>
<tr>
<td>4 190</td>
<td>8°</td>
<td>3 220</td>
<td>5 630</td>
<td>150</td>
</tr>
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<td>J4.5XKN 50x150x1000 mm forks</td>
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### J5.0XKN - CAPACITY CHART in kg @ 500, 600 and 700mm Load Centres

#### Pneumatic Shaped Solid Tyres

<table>
<thead>
<tr>
<th>Maximum fork height (mm)</th>
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<tr>
<td>J4.5XKN 50x120x1000 mm forks</td>
<td>5 000</td>
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</tr>
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</tr>
</tbody>
</table>

### Notes

- **J4.5XKN = 50x120x1000 mm forks**
- **J5.0XKN = 50x150x1000 mm forks**
- The rated capacities shown are for masts in a vertical position on trucks equipped with standard or sideshift carriage, and nominal length forks. Masts above the maximum fork height shown in the mast table are classified as high lift, and depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wider tread.
- Values shown are for standard equipment. When using non-standard equipment these values may change. Please contact your Hyster dealer for information.
TRUCK DIMENSIONS

\[ R = \sqrt{(l_1 + x)^2 + \left(b_1 - b_2\right)^2} \]

\[ A_{st} = W_a + R + a \] (see lines 4.34.1&4.34.2)

a = Minimum operating clearance
VDI standard = 200 mm BITA recommendation = 300 mm

\[ l_1 = \text{Load Length} \]
### RATED CAPACITIES

<table>
<thead>
<tr>
<th>Load centre (mm)</th>
<th>J4.0XN</th>
<th>J4.5XN</th>
<th>J5.0XN</th>
<th>J5.0XN6</th>
<th>J5.5XN6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertical COG</td>
<td>690</td>
<td>689</td>
<td>677</td>
<td>703</td>
<td>703</td>
</tr>
<tr>
<td>Horizontal COG</td>
<td>929</td>
<td>913</td>
<td>956</td>
<td>1040</td>
<td>1068</td>
</tr>
<tr>
<td>Step height</td>
<td>490</td>
<td>490</td>
<td>490</td>
<td>490</td>
<td>490</td>
</tr>
<tr>
<td>Head clearance</td>
<td>978</td>
<td>978</td>
<td>978</td>
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<td>978</td>
</tr>
</tbody>
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**NOTE:** Special forks with higher load ratings may be required to obtain full truck ratings with load centres 1400mm or greater.

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### TRUCK DIMENSIONS

**STANDARD CARRIAGE**

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<tr>
<th>Load centre (mm)</th>
<th>J4.0XN</th>
<th>J4.5XN</th>
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<tbody>
<tr>
<td>Load Moment</td>
<td>409200</td>
<td>460350</td>
<td>511500</td>
<td>561500</td>
<td>617650</td>
</tr>
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<td>978</td>
<td>978</td>
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**INTEGRAL SIDE SHIFT CARRIAGE**

<table>
<thead>
<tr>
<th>Load centre (mm)</th>
<th>J4.0XN</th>
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**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.
- Maximum battery
- Bottom of forks
- Without load backrest
- h<sub>2</sub>, subject to +/- 5 mm tolerance
- Full suspension in compressed position specified.
- Add 30mm with load backrest
- With HiP performance setting
- With eLo performance setting
- L<sub>max</sub> - measured according to the test cycles and based on the weighting values contained in EN12053
- Gradeability figures (lines 5.7 & 5.8) are provided for comparative 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.
- Variable

**MAST TABLES:**

- Max fork height = h<sub>3</sub>+s
- Freelift (top of forks) = h<sub>2</sub>+s
- Add 482mm with load backrest extension
- Deduct 435mm with load backrest extension
- Add 435mm with load backrest extension
- Deduct 429mm with load backrest extension
- Add 334mm with load backrest extension
- Deduct 282mm with load backrest extension.
- Add 10mm for 5.5XN6

**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.
- Safety: This truck conforms to the current EU requirements.
PRODUCT FEATURES
The J4.0XN-5.5XN6 is designed to handle the loads found in tough indoor or outdoor applications such as timber processors and handlers, automotive manufacturers, paper / pulp, beverage / bottle handling and breweries / distilleries, metal works and fabricators, cargo storage and warehousing, building and construction. Offers many functions and features, including eLo and HiP performance settings and high mounted multi feature dash display which can be found on the successful J1.5-3.5XN series.

DEPENDABILITY
- Part of the successful XN range that has brought you industry leading reliability
- Strong construction and proven components ensure long term reliability and durability e.g. VSM (Vehicle system manager), O-ring face seal fittings, AC motors, sealed electrical connectors, Hall effect sensors, Solid state encoders
- Robust truck with highly rigid construction has been designed with a heavy duty mast and axle for excellent load handling capability and high residual capacity, in order to ensure fast, stable load handling and high productivity in arduous and intensive heavy duty applications
- Optional auxiliary hydraulic cooler for the most intense of lifting applications, side thrust bearings in carriage for attachment use

COST OF OWNERSHIP
- Designed to deliver the optimal balance between productivity and energy consumption (e-Balance) to give you a low cost per pallet moved in varying application conditions
- Designed to be the most robust electric CB on the market, to withstand the rigours of the toughest applications
- 840-930 Ah 80V DIN batteries available
- Oil immersed brakes and automatic park brakes save money by lowering maintenance requirements

PRODUCTIVITY
- 80V dual front wheel drive with AC motors throughout (hoist/steer and traction)
- HiP performance setting offers the ultimate in eBalance. ICE-like productivity and low energy consumption
- Dual drive motor and ZTR Axle is a unique feature in this capacity segment, which allows for excellent manoeuvrability and productivity, thanks to a 4161mm turning aisle width for H4.0-5.0XN (1000x1200mm pallet), while still offering unrivalled operator space and comfort
- The truck is designed for heavy duty usage with superb residual capacity and Heavy Duty Class IV carriage and side shift on J5.0XN6 and J5.5XN6 models. This allows operators to be more productive through confident load handling
- Offers the fastest travel speeds in the industry (21km/h unladen) to match ICE truck performance with a stunning maximum laden lift speed of 0.44 m/s. Designed to meet the requirements of intensive applications where high productivity is of the essence
- Available options, which enhance productivity include; TouchPoint™ mini levers integrated into the armrest, light kits, carriage with integral side shift, full or partial cabins including optional heater, programmable maintenance reminder option
ERGONOMICS
Hyster focuses on ensuring that the operator’s first hour is as productive as the last
- Lowest vibration seat. 0.5 m/s² according to EN13059 - Safety Of Industrial Trucks
- The acclaimed TouchPoint™ mini-levers and armrest ensure that the operator is comfortable at all times
- Low noise 68 dB(A) with standard truck
- The dual drive motors and ZTR steer axle deliver a very tight turning circle, allowing the truck to be long enough to feature a very spacious operator compartment
- PPS tyres for a comfortable ride over rough terrain
- Options - Full or partial cabin with heater option
  High backrest seat with lumbar support, TouchPoint™ mini lever module and armrest, Telescopic steer column with memory tilt

SERVICEABILITY
- Service intervals = 1000 hours / 6 months
- VSM and CANbus technology - faster troubleshooting and resolution
- Maintenance free automatic park brake
- Oil-immersed brakes service interval = 4000 hours
- Drive axle / transmission oil change interval = 4000 hours
- AC motors on traction and hoist are Maintenance free
- Hydraulic oil change interval = 4000 hours
- Standard warranty = 2000 hours or one year
- Power train warranty = 4000 hours or two years
- Available programmable maintenance reminder

OPTIONS
- 10 class III standard mast offerings
- 10 class IV standard mast offerings
- Wide tread (front) for wide load handling and dual wheels for enhanced ride on rough yards
- Load backrest and forks
- Integral side shift
- Non marking tyres
- TouchPoint™ mini levers
- Swivel full suspension seats (cloth/vinyl)
- High Backrest seat with lumbar support and headrest
- Telescopic steering column with memory tilt
- Modular cabin with heater
- Monotrol
- LED light packages with visible alarm strobe
- Audible back up alarm
- 12V power outlet
- DIN Batteries and chargers from multiple suppliers
- Extended Warranty (36 Months / 6000 hours)
- Dual internal and Panoramic mirror
- Load weight indicator
- Impact sensor
- Keyless start with Operator ID
- Daily Operator checklist
- System Monitoring
- Auxillary hydraulic cooler (standard on J5.5XN6)
- Side thrust bearings for attachment use
- Spray and corrosive environment “wash down” protection kit