



M020-30X

2,000 - 3,000 kg

X Series

Order Picker Pallet Truck

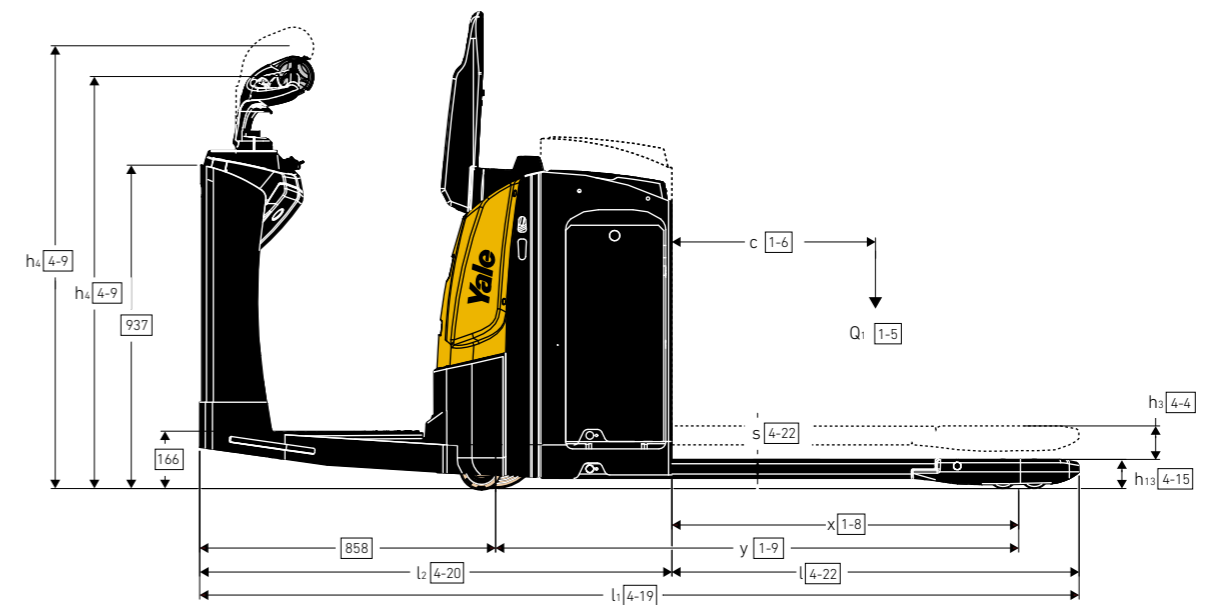


TRUCK DIMENSIONS – X SERIES

$$Ast = Wa + R + a$$

$$Ast = Wa + \sqrt{(l_6 - x)^2 + (b_{12} / z)^2} + a$$

a = 200mm

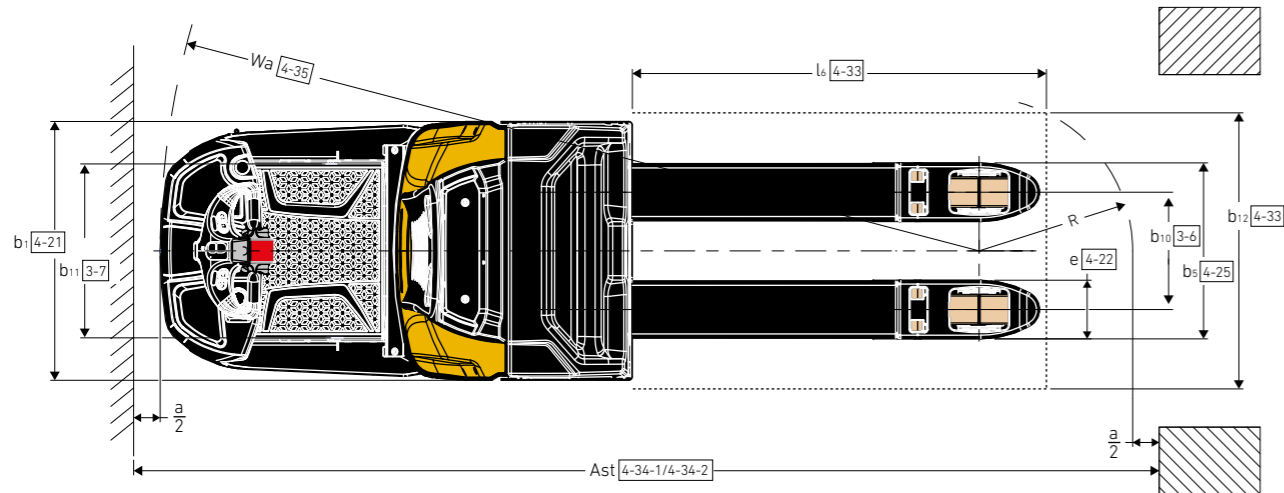


TRUCK DIMENSIONS – X SERIES

$$Ast = Wa + R + a$$

$$Ast = Wa + \sqrt{(l_6 - x)^2 + (b_{12} / z)^2} + a$$

$$a = 200\text{mm}$$



VDI 2198 – GENERAL SPECIFICATIONS – X SERIES

| | | | | MO20X | MO25X | MO30X | |
|-------------|--|--|---|---------------------------------|-------------|----------------------------------|-----|
| GENERAL | 1-1 | Manufacturer | | YALE | | | |
| | 1-2 | Model designation | | MO20X | MO25X | MO30X | |
| | 1-3 | Drive | | Battery | | | |
| | 1-4 | Operator type | | Stand-on | | | |
| | 1-5 | Rated capacity / rated load | Q ₁ | t | 2.0 | 2.5 | 3.0 |
| | 1-6 | Load centre distance | c | mm | 600 | | |
| | 1-8 | Load distance, centre of drive axle to fork ^{(4) (5) (11)} | x | mm | 1005 | | |
| | 1-9 | Wheelbase ^{(4) (5) (11)} | y | mm | 1516 | | |
| | WEIGHT | 2-1 | Service weight ^{(2) (4)} | | kg | 807 | 824 |
| 2-2 | | Axle loading laden, front / rear | | kg | 1177 / 1630 | 1312 / 2012 / 1394 / 2430 | |
| 2-3 | | Axle loading unladen, front / rear | | kg | 676 / 131 | 681 / 143 | |
| WHEELS | 3-1 | Tyre type | | NDIIThane / NDIIThane | | | |
| | 3-2 | Tyre size, front | | ø | mm x mm | 254 x 90 | |
| | 3-3 | Tyre size, rear | | ø | mm x mm | 85 x 94 ⁽⁹⁾ / 85 x 94 | |
| | 3-4 | Additional wheels (dimensions) | | ø | mm x mm | 125 x 50 | |
| | 3-5 | Wheels, number front / rear (x = driven wheels) | | 1x + 2/4 | | | |
| | 3-6 | Tread, front | | b ₁₀ | mm | 504 | |
| | 3-7 | Tread, rear | | b ₁₁ | mm | 382 | |
| DIMENSIONS | 4-4 | Lift | | h ₃ | mm | 120 | |
| | 4-9 | Height drawbar in driving position min./max. | | h ₁₄ | mm | 1198 / 1288 | |
| | 4-15 | Height, lowered ⁽⁴⁾ | | h ₁₃ | mm | 85 ⁽¹²⁾ / 85 | |
| | 4-19 | Overall length (pedestrian) ⁽⁴⁾ | | l ₁ | mm | - | |
| | 4-19-1 | Overall length (stand-on) ⁽⁴⁾ | | l ₁ | mm | 2549 | |
| | 4-20 | Length to face of forks (pedestrian) ⁽⁴⁾ | | l ₂ | mm | - | |
| | 4-20-1 | Length to face of forks (stand-on) ⁽⁴⁾ | | l ₂ | mm | 1369 | |
| | 4-21 | Overall width | | b ₁ , b ₂ | mm | 750 | |
| | 4-22 | Fork dimensions ^{(4) (7)} | | s/e/l | mm | 55 / 170 / 1180 | |
| | 4-25 | Forks spread ⁽⁸⁾ | | b ₅ | mm | 552 | |
| | 4-32 | Ground clearance, centre of wheelbase | | m ₂ | mm | 30 | |
| | 4-33 | Load dimension b 12 x l 6 | | b ₁₂ /l ₆ | mm | 800 x 1200 | |
| | 4-34-1 | Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) ^{(4) (10)} | | Ast | mm | - | |
| | 4-34-2 | Aisle width for pallets 1000mm x 1200mm crossways (stand-on) ^{(4) (10)} | | Ast | mm | 3071 | |
| | 4-34-3 | Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) ^{(4) (10)} | | Ast | mm | - | |
| 4-34-4 | Aisle width for pallets 800mm x 1200mm lengthwise (stand-on) ^{(4) (10)} | | Ast | mm | 2985 | | |
| 4-35 | Turning radius (pedestrian) ^{(4) (5) (11)} | | W ₃ | mm | - | | |
| 4-35 | Turning radius (stand-on) ^{(4) (5) (11)} | | W ₄ | mm | 2374 | | |
| PERFORMANCE | 5-1 | Travel speed, laden / unladen load (pedestrian) | | km/h | - | | |
| | 5-1-1 | Travel speed, laden / unladen load (stand-on) | | km/h | 9.7 / 13 | 9.1 / 13 | |
| | 5-1-2 | Travel speed, laden / unladen load, backwards (pedestrian) | | km/h | - | | |
| | 5-1-3 | Travel speed, laden / unladen load, backwards (stand-on) | | km/h | 9.7 / 13 | 9.1 / 13 | |
| | 5-2 | Lifting speed, laden / unladen load | | m/s | 0.05 / 0.06 | 0.04 / 0.06 / 0.03 / 0.06 | |
| | 5-3 | Lowering speed, laden / unladen load | | m/s | 0.06 / 0.06 | | |
| | 5-8 | Max. gradeability - 1.6 km/h, laden / unladen load ⁽¹⁾ | | % | 11.4 / 20 | 9.1 / 20 / 7.4 / 20 | |
| | 5-10 | Service brake | | Electromagnetic | | | |
| | ELECTRIC | 6-1 | Drive motor, S2 60 min rating | | kW | 3 | |
| | | 6-2 | Lift motor S3 15% rating ⁽³⁾ | | kW | 2.2 | |
| 6-3 | | Battery according to DIN 43531/35/36 A,B,C, no | | B | | | |
| 6-4 | | Battery voltage / nominal capacity K5 ⁽⁴⁾ | | V/Ah | 24 / 375 | | |
| 6-5 | | Battery weight ^{(2) (4)} | | kg | 288 | | |
| 6-6 | | Energy consumption according to DIN EN 16796 | | kWh/h | 0.32 | 0.40 / 0.37 | |
| 6-7 | | Turnover output according to VDI 2198 | | t/h | 134 | 168 / 206 | |
| 6-8 | | Turnover efficiency according to VDI 2198 | | t/kWh | 105 | 133 / 138 | |
| OTHER | 8-1 | Type of drive unit | | AC-Controller | | | |
| | 10-7 | Sound pressure level at the driver's seat | | dB (A) | 59 | | |

(1) If truck climbs ramps frequently (within 1h), consult your salesman

(2) These values may vary of +/- 5%

(3) Value referred to S3 5%

(4) See "Batteries-Batt.compartments tbl" and "Battery compartment-Forks table"

(5) With load section lifted: -67mm

(6) Max h13 value shall be 87mm

(7) With forks l > 1590mm s = +10mm

(8) b5 available: 510/552/650 -- with forks l > 1590mm b5 = +10mm

(9) Available 75x94mm tyre -- h13 reduced to 75mm + tolerance (see pricelist for compatibility)

(10) Forks raised -- Ast = Wa + R + a -- Wa and R with forks raised

(11) Forks lowered -- With forks raised -67mm

(12) h13 available 75mm + tolerance (see pricelist for compatibility)

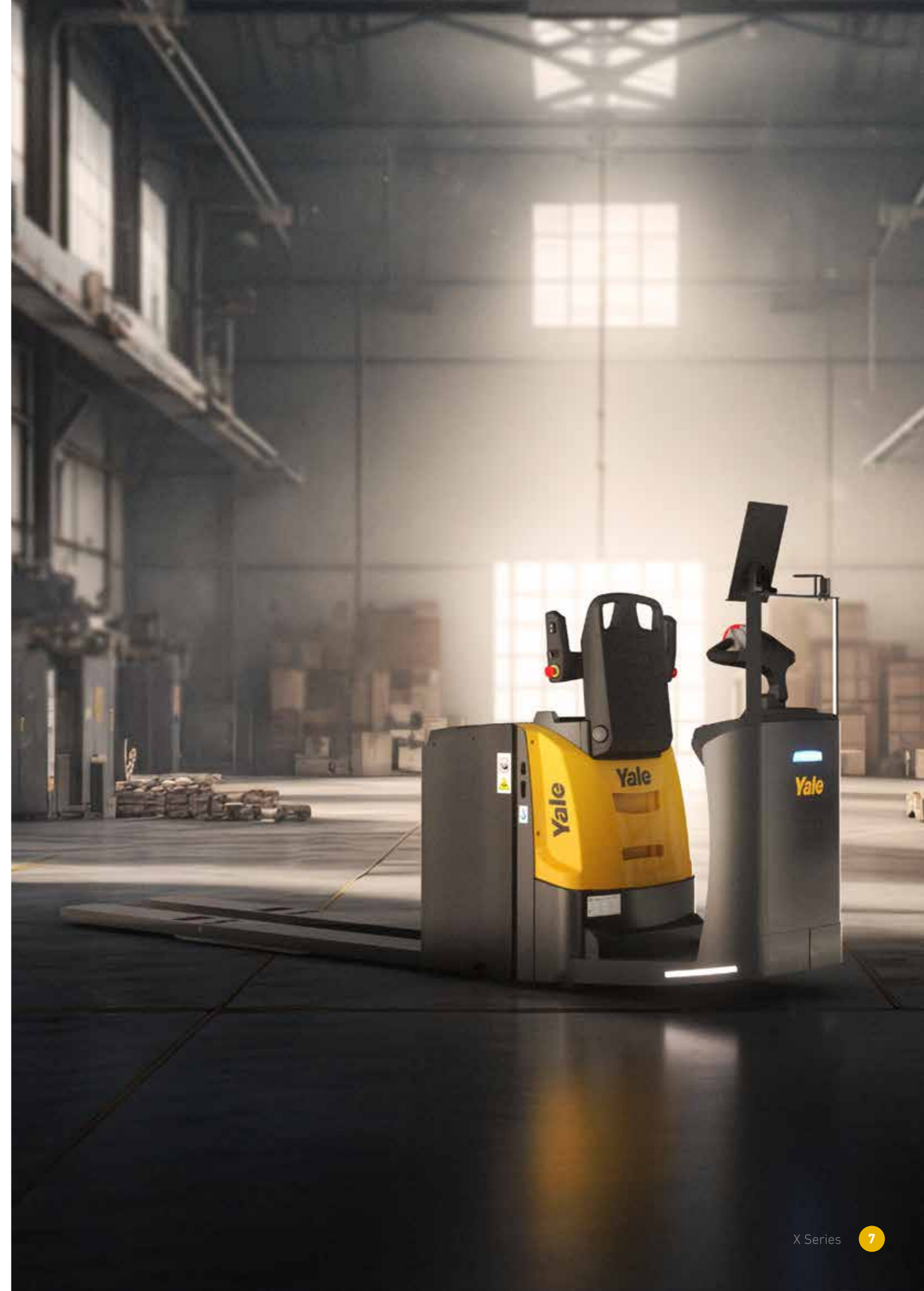
All values are nominal values and they are subject to tolerances.
For further information, please contact the manufacturer.
Yale products might be subject to change without notice.
Lift trucks illustrated may feature optional equipment.
Values may vary with alternative configurations.

FEATURES LIST – X SERIES

| OPERATION | STD | OPT | HANDLING | STD | OPT |
|--|-----|-----|--|-----|-----|
| Key Switch Start | • | | Forks options | | • |
| Operator Password | | • | Fork Height From Ground - 85mm | • | |
| Two Battery Stands | | • | Fork Height From Ground - 75mm* | | • |
| Battery Cable Extension | | • | Without Load Backrest | • | |
| Gravity Feed Water Reservoir | | • | 1150mm High Load Backrest | | • |
| Multifunctional Display | • | | 1800mm High Load Backrest | | • |
| Telemetry | | • | Soft Lowering | | • |
| | | | Smart lift | | • |
| PERFORMANCE | STD | OPT | VISIBILITY | STD | OPT |
| Standard Construction | • | | Manual Work Light | | • |
| Cold Store Construction | | • | Automatic Work Light | | • |
| Standard Travel Speed 13Km/H (with Speed Reduction on Cornering) | • | | Pedestrian Awareness Light | | • |
| Battery Removal without Rollers - Lift Out | • | | Platform Lights | | • |
| Side Extraction | | • | Audible Forward Alarm (Forks Trailing) | | • |
| Side Extraction (Using Rollers) | | • | Audible Reverse Alarm (Forks Leading) | | • |
| 12 V DC/DC Converter | | • | Audible Forward and Reverse Alarm | | • |
| 24V DC/DC Converter | | • | ERGONOMICS | STD | OPT |
| Without Battery | • | | Ergonomic Handles with Lifting/Lowering Buttons | | • |
| Battery Options | | • | Ergonomic Handles without Lifting/Lowering Buttons | | • |
| Without Charger | • | | Backrest | • | |
| Charger Options | | • | A4 Clip Board | | • |
| DRIVE | STD | OPT | Bottle Holder | | • |
| Scooter control | • | | Multipurpose Bar - Across | | • |
| 254 x 90mm NDIlthane® Drive Wheel | • | | SUPPLEMENTAL | STD | OPT |
| 254 x 90mm NDIlthane® Conductive Drive Wheel | | • | 24 Months / 4,000 Hours Manufacturer's Warranty | • | |
| 254 x 90mm Dynaroll® Drive Wheel | | • | 36 Months / 6,000 Hours Extended Warranty | | • |
| 254 x 90mm Redthane® Drive Wheel | | • | Literature Package | • | |
| Tandem load wheels | • | | | | |
| Single load wheels | | • | | | |
| Coasting Function | | • | | | |

* Model dependant

All values are nominal values and they are subject to tolerances.





About Yale®

Yale Materials Handling Corporation is one of the oldest manufacturers of lift trucks in the world. We've been in the business of lifting since 1875 and we apply that experience to help customers solve materials handling challenges. Our full line of lift trucks range in capacity from 1 to 16 tonne and are powered by internal combustion engines or electric options. Yale also offers robotic solutions, telemetry, fleet management, parts, financing and training. From traditional lift truck equipment to emerging technologies, our goal, every day, is to work with our nationwide dealer network to continually improve and provide the solutions you need, when and how you need them.

MATERIALS HANDLING FOR:

- 3PL
- Auto Parts
- Beverage
- Cold & Frozen Foods
- Food Distribution
- Food Processing
- Furniture & Furnishings
- Health & Pharma
- Home Centres
- Retail
- E-Commerce

Yale Lift Truck Technologies


Centennial House
Frimley Business Park
Frimley
Surrey
GU16 7SG
United Kingdom

www.yale.com



Safety: All Yale products sold into EU countries, UK, and Turkey conform to the EU requirements of Machinery Directive 2006/42/EC and contain **CE** marking. Yale trucks sold into other countries may be ordered for production in conformance with Machinery Directive requirements, and when so ordered will contain **CE** marking.

HYSTER-YALE UK LIMITED trading as Yale Lift Truck Technologies. Registered Address: Centennial House, Building 4.5, Frimley Business Park, Frimley, Surrey, GU16 7SG, United Kingdom. Registered in England and Wales. Company Registration Number: 02636775.

©2024 Hyster-Yale Group, Inc., all rights reserved. YALE and YALE  are trademarks of Hyster-Yale Group, Inc. Trucks may be shown with optional equipment and/or features not available in all regions. Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Specifications are subject to change without notice.

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. Consult your Yale® Dealer if any of the information shown is critical to your application.

Publication part no. 220997100 Rev.00 (0224TLC) EN