



**STRONG PARTNERS.  
TOUGH TRUCKS.™**



## R1.4-2.5 SERIES

MOVING MAST REACH TRUCK

[WWW.HYSTER.COM](http://WWW.HYSTER.COM)





# SETTING THE STANDARD FOR WAREHOUSE OPERATIONS

The Hyster® moving mast reach truck series offers seven models, from 3,000-5,500lbs., with a selection of five chassis shapes and many useful options, tailored to meet the demands of every indoor application. This truck series is built with the quality hallmarks of Hyster: tough, intelligent, dependable and efficient.



## TOUGH DESIGN

Designed and tested in some of our customers' most demanding warehouse environments, the Hyster® moving mast reach truck offers advanced operator features and functionality to excel in intense applications.

The truck features a three piece design for more options and to reduce replacement costs, while a completely redesigned mast delivers class-leading visibility and control.

## MADE FOR HARD WORK

Designed for a comfortable, productive driving experience, the ergonomically designed operator compartment provides great visibility and maneuverability.

## A TRUCK FOR EVERY APPLICATION:

- Production
- Grocery, beverage and non-food retail
- Cold stores
- Contract logistics
- Wholesale distribution
- Chemicals
- Cash and carry
- Furniture retail
- DIY stores
- Manufacturing
- Spare parts distribution centers





With many businesses facing growing financial pressures, every operational detail must be optimized. By identifying and addressing details such as extended service intervals on key components, long lasting components and battery management, our moving mast reach truck series delivers what your business demands.

## PRACTICAL AND DURABLE

High quality materials matched with easy service access areas ensures efficient maintenance and quick repairs, helping minimize downtime and maintain high productivity.

Innovative technologies work together to optimize the efficiency of each truck:

- Hinged door gives easy service access to motors, hydraulics and other components
- Greased for “life” mast rollers
- Basic display provides most critical status of components and error codes
- Single plug-in service access point for truck diagnostics
- Laptop to PC service tool for service technicians
- Diagnostic plug-in point on standard and premium displays
- Double wired CANbus and controllers
  - Easy access
  - Easy identification of possible component and wire harness failures
- 100% leak free quick disconnect hydraulic fittings
- 3,000-hour hydraulic oil and filter service interval; 7,500 hour transmission oil change



*Low maintenance features and easy access to service areas help keep the fleet up and running.*

## GENUINE PARTS

Our rigorous development and testing is designed to ensure that our trucks deliver the highest standards of operation, reliability and performance. Our genuine parts maintain the integrity and reliability of your truck. When you need service, our Guaranteed Availability Program (G.A.P.) aligned with our extensive network of dealers will get you back to work.

## HIGH QUALITY STANDARDS

Our reputation for total customer satisfaction is a product of world-class manufacturing. By anticipating the needs of our customers, Hyster delivers performance, value and dependability. Every reach truck comes with:

- 12 Month / Unlimited Hours Full Truck Warranty
- 3 Years/ 6,000 Hour Powertrain Warranty
- Lifetime Frame Warranty

## ➤ FOR DEMANDING OPERATIONS EVERYWHERE

As a result of over 55,000 man hours of product development and testing, the R Series moving mast reach trucks are designed and built to Hyster standards. This series is packed with technically advanced innovation, yet still practical, durable and dependable.

### DURABLE MAST CONSTRUCTION

Based on computer aided FEA (Finite Element Analysis), the mast comes in two options: three-stage standard and heavy duty. Both are available in an extensive range of mast lift heights from 183" to 502" to meet all operational requirements and share the following features:

- Unique channel design (patent pending)
- Increased visibility through reduced total channel width
- Residual capacity maintained to higher heights
- Stability at high reach

The robust mast design and carriage construction provides high residual capacities and stable load handling throughout the height range.

- Increased operator confidence when handling high loads
- Faster put away and retrieval times
- Enhanced h1:h3 ratio, lifting to a higher maximum level with a lower closed height making it easier to drive through doorways and warehouse tunnels
- Auto sideshift and auto fork leveling for TouchPoint mini-levers and optional joystick

### EXTENDABLE FORKS: DOUBLE DEEP OPTION

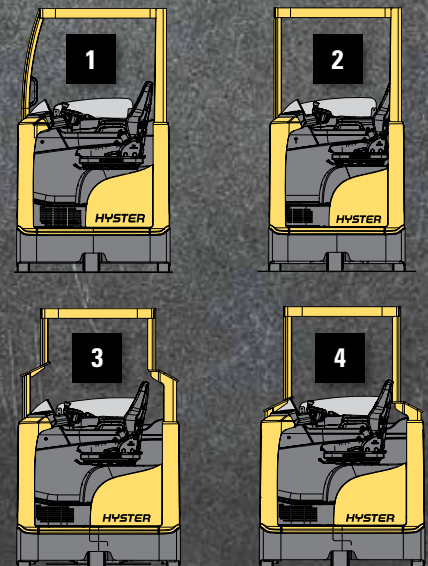
- Hydraulically operated fork attachment
- Extends forks / load into a second deep storage location in the racking
- Up to 30% increase in storage capacity while maintaining operational flexibility for other in-aisle traffic

### OVERHEAD GUARD PROTECTION OPTIONS

- Lexan (height increase of operator compartment: 1.2" (30mm))
- Mesh grid (grid spacing: 0.6" (15mm); height increase of operator compartment: 0.79" (20mm))
- Metal grid for optional integrated cold store cab

### OVERHEAD GUARD OPTIONS

- 1 Standard width compartment
- 2 Narrow compartment (only for R1.6N)
- 3 Drive-in width: 36.6" (930mm), height: 66.9" (1700mm); also for R1.6N
- 4 Drive-in width: 36.6" (930mm), height: 55.1" (1400mm); also for R1.6N





## VEHICLE SYSTEMS MANAGER

Hyster® reach trucks use one main truck master controller Vehicle Systems Manager (VSM) to provide fully integrated controls for traction, steering and hydraulic pump motor (controllers), brakes, hydraulics, control elements, displays and all other on-board electronics. The VSM uses a dual CANbus to speed up fault diagnosis and allows the truck to operate in 'drive home' mode should a problem occur.

Controllers are located underneath the operator, allowing more space for storage and room for an additional handle to ease driver access.

The latest generation motor ensures electric system reliability, ease of access, enhanced diagnostic functionality and facilitates first time fixes, providing increased productivity and reduced downtime.



- 1 Drive motor controller
- 2 Steering motor controller
- 3 Hydraulic pump motor controller
- 4 Main truck master controller VSM



## **>** EXCEPTIONAL ERGONOMICS

Operators are integral to the success of your operation. Every detail of the operator's experience was considered and built into the Hyster® moving mast reach truck design. Work-induced fatigue during a tough shift is reduced when the truck is comfortable and easy to operate with great visibility. Alertness and productivity improves, helping to reduce the number of operator errors.

**WIDELY SPACED PEDAL  
ARRANGEMENT WITH  
INCREASED SIDE CLEARANCE**

**EASY REACH GRAB  
HANDLES TO ENSURE  
THREE-POINT ENTRY**

**GENEROUS FOOT SPACE  
AND KNEE ROOM**





## OPTIONAL JOYSTICK

- Simple, integrated control
- Comfortable, contoured shape that matches natural resting of the hand
- Maximum grip surface
- Fingertip mini-joystick control



## ARM REST / TOUCHPOINT MINI LEVER MODULE

- Angled and contoured arm rest for increased operating comfort
- Incorporates mini-lever control
- Integrated function control buttons



## ENHANCED VISIBILITY

- Lowered bulkhead
- Visibility through and around the mast
- Intelligent positioning of free lift cylinder
- Enhanced visibility decreases neck, head and shoulder fatigue during operation



## ADJUSTABLE STEERING COLUMN

- Mounted directly onto chassis
- Sturdy slider mechanism (tested to withstand downward force of 550 lbs.)
- Extendable column for easy "on/off" access and operator positioning



## > ENHANCED PRODUCTIVITY

Warehouse operations are constantly under pressure to deliver more swiftly and more cost effectively. Our moving mast reach trucks have been optimized to meet these challenges.

### HIGH-POWERED AND CUSTOMIZABLE PERFORMANCE

#### ECO-eLo PERFORMANCE MODE

Drive down operating costs by switching to Energy Efficiency Mode and reduce energy consumption by up to 20% without affecting productivity. This ECO-eLo mode provides minimum fuel consumption without losing productivity.

#### ADJUSTABLE SPEED REDUCTION

- Enhanced straight line travel
- Stable maneuverability on cornering

#### FASTER CYCLE TIMES

- The traction motor gives powerful acceleration with a travel speed of up to 8.7 mph.
- The mast delivers 143 ft. per minute lift speeds, with certain masts lifting up to 502 in.

#### AUTO REGENERATIVE AND LOAD BRAKING

- Automatic braking when changing direction
- Wear-free, self-adjusting brake system – eliminates brake pads, hydraulic oil change and piping





## PRODUCTIVE OPERATING TOOLS

- Height pre-selection option
  - Driver assist feature for higher lifts
  - Increase in load handling
  - Helps to prevent damaged loads and racks
- Auto leveling and centering forks
  - Levels fork at the push of a button
  - Reduces chance of load damage/spillage
- Visual laser positioning system
  - Visual aid to position forks at height
  - Provides 31 in. (800 mm.) wide laser line
  - Easy load pick-up at height
- Adjustable steering allows easier operation and more control in narrow aisles:
  - Standard: 180°
  - Option 1: 180° / 360°
  - Option 2: 360°
- Side extraction quick-change battery helps to maximize uptime.
- Optional, fully-insulated cold store cabin maintains an optimum temperature for the operator.

## ADVANCED DISPLAY

- Continuous height measuring from ground up by lift height indicator shown on the display
- All relevant operating conditions visible on one screen
- Easy access push buttons and switches
- Service technician can easily connect to PC service tool
- Reduced speed (creep speed) select
- Premium, enhanced technology, full color touch screen available on all models
- The **first reach truck touch screen display** offering regular software upgrades



## SUPPORTING CUSTOMERS WITH WORLD-CLASS PARTS & SERVICE

Four Parts Distribution Centers strategically located around the world provide a full range of original equipment and aftermarket parts that help maintain our customers' uptime. In fact, our Guaranteed Availability Program (G.A.P.) ensures that parts that are normally required in the first 2 years of operation will be available from your Hyster® parts dealer within 24 hours or they are free.\* We also take that commitment into the field with the Hyster CERTECH® Certification Training Program. This technical training program provides both systems level as well as product-specific education to ensure lift trucks are repaired right the first time.

\* Contact your local dealer for program details.

## AT-A-GLANCE FEATURES

### STANDARD EQUIPMENT

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- Intermediate step
- Grab handle on overhead guard and under armrest
- TouchPoint mini-levers mounted on adjustable length armrest
- Full suspension seat - 2 in. suspension travel cloth upholstery
- Standard display
- Adjustable steering column
- Automatic park brake
- 180° steering
- Travel speed 6.8 mph (R1.4, R1.6, R1.6N)
- Travel speed 8.7 mph with electric load wheel braking (R2.0, R2.5, R1.6HD, R2.0HD)
- Speed slow down mast reached forward
- Speed slow down on cornering
- Speed slow down over free lift
- 3 stage mast / tilting carriage
- Simultaneous lift / reach functionality
- Top / front load wheel protection

### OPTIONAL EQUIPMENT

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- Joystick mounted on adjustable length armrest
- Full suspension seat - 3 in. suspension travel cloth upholstery
  - Headrest
  - Synchronized seat cushion (cloth) and backrest movement
  - Heated seat
  - Anti-static seat (cloth)
- Vinyl seat upholstery
- Premium display with touch screen
- Keyless access
- 360° steering
- Driver select steering mode 180° / 360° (push button)
- Simultaneous hydraulic functionality - 3 functions
- Lift comfort package (std on R1.6HD, R2.0HD)
- Lift performance package (std on R1.6HD, R2.0HD)
- Laser line fork positioning aid (above free lift)
- Auto sideshift centering
- Auto fork leveling in the horizontal position
- Height pre-selector (with / without pallet detection device)
- Fork mounted camera / monitor
- Weight indicator
- 5th hydraulic function
- Universal support bracket
- Beverage holder and document tray
- Clipboard
- Stretch film roll holder
- Lift limit with override (1x or 2x height setting)
- Lower limit (with override option)
- Flashing beacon
- Work lights x 2 (mast side)
- Work lights x 2 (drive side)
- Polycarbonate (lexan) protection on overhead guard
- Metal grid protection on overhead guard
- Side load wheel protection
- High temperature environment
- Side battery change - battery tray rollers
- Side battery change table
- Extension cable
- Drive-in overhead guard w36.6 (930mm) x h55.1" (1400mm) / w36.6 (930mm) x h66.9" (1700mm)
- Anti-static drive and load wheels
- Wet surface drive and load wheels
- Side guidance rollers
- DC / DC converter (choice of 12V / 48V, 24V / 48V or 12-24V / 48V)
- Audible alarm (choice of forks leading, forks trailing, both travel directions)
- Load backrest (choice of heights 39.4" (1000mm) / 59" (1500mm))
- Cold store cab, work in -22°F (-30°C) warehouses in comfort



# INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For more than 80 years, Hyster has been conquering the world's most demanding applications. In the 1920's Hyster started as a manufacturer of lifting machines used in the rigorous logging industry of the United States' Pacific Northwest. A few years later the first forklift trucks were invented and the Hyster brand quickly gained its reputation for rugged quality. Hyster® lift trucks are designed to lower your cost of operations. Every truck we make — gasoline, LPG, diesel and electric — is purpose-built to excel in its application. Every truck is also backed by an unmatched network of specialists.



**Dealer Network** — Our Dealer Network can offer the expertise of fleet managers, parts suppliers, capital procurement specialists and trainers. Carefully chosen dealers fully understand customer applications, assist in selecting the right lift truck and provide fast, reliable support.



**Hyster Fleet Services** — Even if you operate other brands, we can manage your maintenance and replacement plan. We can offer complete fleet analysis, fleet history summary and a cost-effective proposal for replacement and scheduled maintenance.



**Parts** — With genuine Hyster® replacement parts and UNISOURCE™ parts for all makes of lift trucks, we are your one-stop source for lift truck parts. In fact, we offer more than 7 million part number crosses for most brands of materials handling and other in-plant mobile equipment.



**Rental Products** — When leasing or buying isn't a practical option, we have access to more than 14,000 units for short- and long-term rental. We'll help you maintain output in a cost-effective manner.



**Hyster Capital** — We can arrange solutions for special financing requirements, taking the difficulties out of buying the equipment you need. Whether you purchase or lease a new or used lift truck, Hyster Capital offers superior service and competitive rates.



**Special Products Engineering Department (SPED)** — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.



**Operator Training** — Proper education in operating lift trucks minimizes the risk of injuries due to accidents while increasing productivity. Hyster offers OSHA-compliant materials that support the training of qualified operators.




**Service** — Your local Hyster® dealer offers a flexible, customized and comprehensive maintenance plan based on each lift truck's operation environment. Hyster service programs offer scheduled inspections and maintenance, along with quick, responsive service dispatched to your location.



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