



Cold Store Solutions

for operation in freezing conditions.

Enduring cold environments.

Yale® understands the demands that are placed on equipment when it operates in cold environments. Drawing upon our long experience, we have developed a range of solutions to help reduce the impact these harsh conditions can have on the performance of your equipment, minimising additional maintenance, repair costs and downtime while maximising machine productivity and lifespan.



The MP Series is ideal for cold store environments.



MP Series with hot zinc coated frame is more resistant to corrosion.

Though the severe working conditions of a cold warehouse clearly play their part, the chances of issues occurring are actually highest when the truck first emerges from the freezer environment. Condensation will form with water tracking down wiring looms to electrical connections. Upon re-entry to the cold storage area, this water freezes and expands, causing damage to components and connectors. Yale counters these problems by the use of double sealed connectors.

Cold storage environments also have an adverse effect on lead-acid battery performance. Under normal operating conditions, you can expect to access 80% of a battery's capacity. But, the extreme temperatures can reduce this to as little as 65%, requiring the utilisation of larger capacity batteries. Yale provides in-aisle charging to overcome this issue so the battery does not have to be removed or the truck returned to a charging station.

Freezing temperatures can have a particularly adverse effect on moving parts. To counteract this, Yale has perfected hydraulic lubrication that withstands temperatures down to -30°C without compromising truck performance.

With cold storage particularly pertinent to the food industry, resistance to corrosion and the avoidance of paint chipping are key. To help machine endurance, optional coating of the frame, tie rods, level, tiller and battery cover in hot zinc, as well as sealing all bearings, is available on Yale pallet trucks.



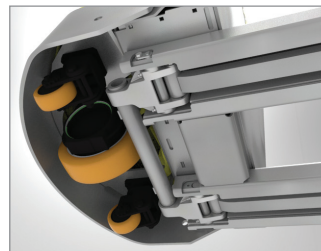
Durability

whatever the temperature.

The MP Series pedestrian low lift pallet truck has been specially engineered for use in cold store environments. As well as enabling the operator to maximise productivity, the MP Series comes with the option of a zinc coated frame that is more resistant to corrosion.

Designed around the needs of the operator, the MP Series is a truck that offers impressive ergonomics and exceptional manoeuvrability, enabling the operator to work effortlessly and efficiently even in the most confined and congested areas. The zinc coated frame provides higher resistance to corrosion in colder environments and peace of mind when it comes to the levels of cleanliness required in the food industry, where no paint chipping would be acceptable. The hot zinc coated frame, tie rods, lever, tiller knob and battery cover, deliver a higher quality chassis for certain environments.

MP Series with hot zinc coated frame for added resistance against corrosion.



Delivering **more** in cold store applications.

The more time your operator spends in the truck cabin, the more productive they will be. That's why we have invested time and energy determining the operator's biggest challenges and put our cabin designs through extensive operator testing.

The provision of a warm and comfortable workspace is key to maintaining productivity. Yale® counterbalance, reach and very-narrow aisle trucks feature enclosed cabins, double glazed with heated glass, double skin walls with foam injected insulation and in cabin thermostatic heating. An intercom allows communication with people outside without having to continually open and close the cab door, and risking condensation caused by cold air.

Comfortably warmer.

Even with temperatures as low as -30°C, Yale cabins can provide a comfortable and warm workspace. With a 2kW heater integrated into the cab door, three small grid heaters to the mast side of the cab and five heat settings, our fully insulated cabs maintain an interior temperature of 20°C.

Comfortably simpler.

Yale makes getting into the operator compartment, and retaining comfortable throughout, a priority. If the user is wearing a bulky cold storage suit and gloves, operation is not a problem. Our trucks feature doors that are easy to open and close, along with a lowest and wide step and integrated grab handles for ease of access. Once inside, there is plenty of room to move around, a full suspension adjustable seat with integral lumbar support to reduce whole body vibration and wider spaced floor pedals to provide increased leg room and a more comfortable operating position.



MR Series.



The MR Reach Truck.

Where a drop in temperatures doesn't mean a drop in performance.

The fully insulated cabin is available in both standard and narrow chassis models. Heaters are built into the cabin door to maintain the optimum temperature for the operator.

Combined with a sophisticated air circulation system your operators can work longer, more comfortably.

Visibility isn't compromised either, operators have a clear all round view. Heated windows and the air circulation system keep the cabin clear from mist and condensation.

The MR Reach Truck series is available with glass or polycarbonate, heated or unheated windows.



Cold store cabin features

- Standard and narrow chassis models
- Fully insulated
- Sophisticated air circulation and ventilation system
- Cabin temperature of +20°C at -30°C ambient temperature
- 36mm insulation
- Interior lighting standard – exterior lighting options
- Door design optimized for additional operator space

Five heater settings

- 2.0kW compartment heater
- 3 x 0.3kW heaters increase heat flow to mast screen

Intercom option

Internal/external operator communication



All round visibility

All round visibility with laminated clear view overhead guard screen

Operator comfort

- Wide entry – easy access
- Maximum cabin integrity, full length 25mm diameter door hinge
- Left interlock pedal removed to create more operator space. Interlock achieved through door sensor and the operators seat present switch

Higher productivity in lower temperatures.

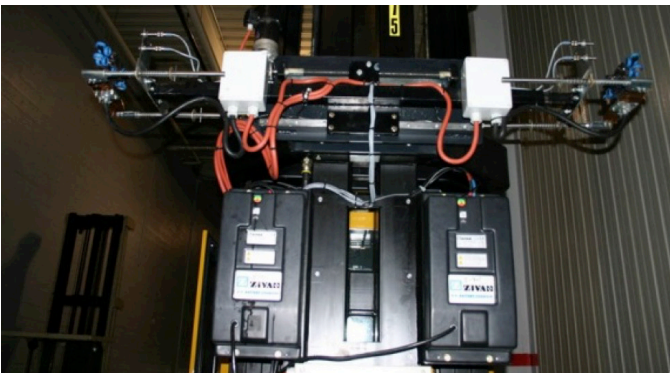
For Very Narrow Aisles (VNA) trucks, Yale provides a wide range of cabin enclosure solutions to help boost operator comfort and increase productivity. These include double-glazed glass, heated floors, double-skin walls with foam injected insulation and in-cabin thermostatic heating to keep both the cab and operator warm.



Insulated door with added ventilation for mist free view.



Cab heaters and controls.



MTC series VNA truck in-aisle charging buzz-bar.

Heated glass reduces fogging occurring when moving between cold and temperate environments allowing the continuous operation in the warehouse.

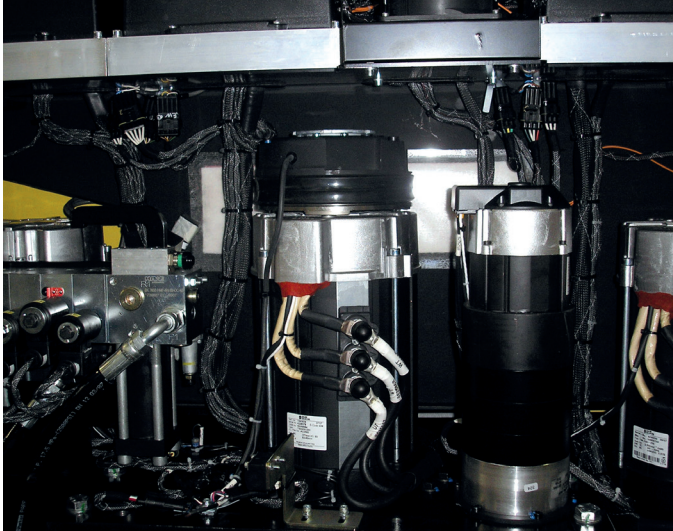
For 24-hour operations where continuous power is required without the need for battery charging, in-aisle charging is available, with on board chargers connected to the mains power via a "buzz bar".

In applications where a change of battery is necessary, an optional power generator is available to connect to the truck, allowing the truck to be left in the cold store/freezer whilst the battery is removed and put on charge. This generator keeps the oil and other components from becoming too cold.



VNA Series cold store cab.

Cold Store Truck options.



Sealed and heated oil tank.

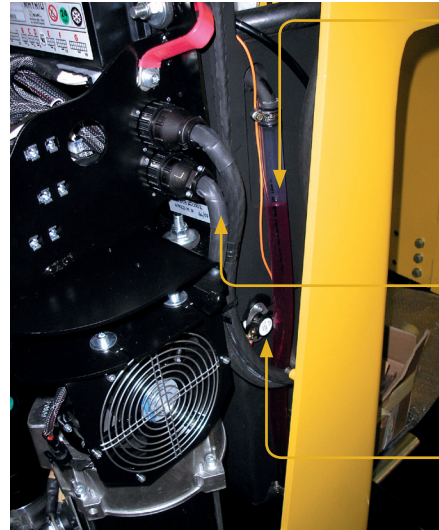
Additional modifications made to allow trucks to be left in extremely cold environments include:

- Sealed oil tank using bellows to prevent introduction of water
- Thicker chrome on the cylinder rods
- Heated oil tank
- Seal electrical components
- Additional greasing points on the machine and all bearings
- Heated electrical components
- Controller solutions optimised for truck

Keeping the operators comfortable.

Yale also have a heated seat option available for most electric counterbalance models up to nine tonnes. The new heated seat option includes the following key features;

- Improves operator comfort
- Easy-to-use armrest mounted heater on/off switch
- Thermostatically controlled heater elements in the seat cushion and backrest
- Heating will automatically turn off when maximum temperature has been reached



Freezer oil.

Freezer cable.

Thermostat for oil tank.

Whatever Yale materials handling equipment you're using, rest assured it's engineered to deliver superb levels of productivity.

Reliability.

All Yale trucks benefit from a robust design and build. Not only are we making servicing easier, we're making the time between each service longer.

We recommend intervals of 3,000 hours for hydraulic oil and filter changes, and 1,000 hour transmission oil changes.

Support you can count on.

No-nonsense Yale back-up and after-sales support means delays and downtime is kept to a minimum. We have 2.5 million parts all available for immediate dispatch.

Cost of ownership.

When it comes to the overall cost of a forklift truck to your business, the initial purchase price can represent just one small portion. There are a host of other factors that need to be taken into consideration in order to arrive at the true operating cost to your business, such as periodic maintenance, unscheduled repairs, replacement parts and ever-increasing energy costs.

Lower energy consumption and costs. Excellent residual values. Increased uptime. Everything to make your money go further.

Yale and its dealer network are committed to supporting customers.

About Yale[®]



Yale is a leading global manufacturer and supplier of high-quality counterbalance forklift trucks, warehouse equipment and fleet solutions. 'People, products and productivity' sums up our approach to materials handling business. With over 140 years' experience, we are proud of our reputation as an innovative, forward-thinking manufacturer.

Yale dealerships provide flexible truck servicing solutions and are linked to one of the industry's most sophisticated parts distribution operations. You'll find support for Yale forklifts throughout the EMEA region – provided by a big regional footprint stretching through Europe, Middle East and Africa.

Materials handling for:



Automotive



Beverages



Chemical



Construction



Food



Logistics



Metals



Paper



Retail



Wood

HYSTER-YALE UK LIMITED trading as Yale Europe Materials Handling



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