

Walkie / Rider Features, Benefits Comparison



August 2001

Overall Operator Comfort

Hand Controls - Walking

HYSTER



Hyster
Lift / lower controls can be easily accessed with forefinger or middle finger of either hand. Traction control actuated with large butterfly switches by thumb or forefinger of either hand. Horn button mounted on top of handle for easy access with thumb or forefinger.

RAYMOND



Raymond
Wide top mounted buttons for horn and lift/lower controls can be actuated with thumb or forefinger of either hand, but a little more of a stretch than Hyster. Traction controlled by combination butterfly twist grip. Butterflies offer stability, but operator still must twist the grip.

CROWN



Crown
Small top-mounted buttons for horn and lift/lower are hard to reach with thumb or forefinger. Traction is controlled by motorcycle style twist grip.

Overall Operator Comfort

Hand Controls - Riding

HYSTER



Hyster

Forward / reverse traction actuated easily with thumb or forefinger. Lift / Lower and horn easily actuated with thumb or on steady rest (next slide).

RAYMOND



Raymond

Forward / reverse traction control actuated by twisting grip.

CROWN



Crown

Forward / reverse traction control actuated by twisting grip.

Overall Operator Comfort

Steady Rest

HYSTER



Hyster

Large, easily identifiable individual buttons for lift / lower and speed selection are angled slightly upward for easy access. Handle is covered with soft touch urethane.

RAYMOND



Raymond

Large individual buttons for lift / lower and speed selection are set more straight ahead, less easy to identify. Handle is coated with a softer material, but not as soft as the Hyster model.

CROWN



Crown

Large rocker switches for lift / lower and speed selection. Handle is coated with a softer material, but not as soft as the Hyster model.

Overall Operator Comfort

Operator Platform

HYSTER



Hyster –
1-1/4" Thick (Cushioned),
Removable (No Fasteners) Floor
Mat allows access to casters.
Spacious Platform allows most
operators to keep both feet firmly
on platform.

RAYMOND



Raymond
Thinner 3/4", non-removable Floor
Mat (Limited Cushioning), Similar
but slightly less platform space
than Hyster.

CROWN



Crown
Thinner 3/4", non-removable Floor
Mat (Limited Cushioning), Less
platform room than Hyster or
Raymond.

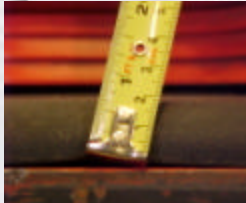
Overall Operator Comfort Floor Mat

HYSTER



Hyster 1-1/4"

RAYMOND



Raymond 3/4"

CROWN



Crown 3/4"

Serviceability Component Access

HYSTER



Hyster

Floormat and flexible thermoplastic cowl cover remove quickly and easily with no tools. Provides access to major components and casters.

RAYMOND



Raymond

Four thumbscrews secure the thermoplastic cover. Requires a screwdriver to remove. Floormat is not removable. Casters must be accessed from underneath.

CROWN



Crown

Two screws secure the bi-fold steel service compartment doors. A 3/8" ratchet driver is required to remove the screws. Floormat is not removable. Casters must be accessed from underneath.

Serviceability

Caster Access

HYSTER



Hyster

Caster adjustments can be made without lifting up the truck by removing the operator floormat and accessing through the frame cutout provided.

RAYMOND



Raymond

Casters can only be accessed by lifting the truck.

CROWN



Crown

Casters can only be accessed by lifting the truck.

Electrical System

Wiring / Cables

HYSTER



Hyster

Serial communication with a six-wire jacketed cable (similar to CANbus system.) Simple and clean design provides easy access to drive motor, traction controller and hydraulic pump and reservoir. Drive motor is stationary preventing flexing of power leads.

RAYMOND



Raymond

Two wire harnesses wrap around the rotating drive motor. Evidence of flexing power leads was shown in paint wear on motor. Compartment is more cluttered.

CROWN



Crown

Complex arrangement of wiring and cables attached to horizontally mounted, rotating drive motor. Drive motor difficult to access. Service compartment cluttered.

Integrated Traction System with Hall Effect Sensors

HYSTER



Hyster

Steer bearing runs in gear lube oil bath. No maintenance. Stationary drive motor. Hall effect sensors replace potentiometers for greater reliability and virtually no wear.

RAYMOND



Raymond

Exposed steer bearing requires periodic grease. Rotating drive motor allows flexing of power leads. Potentiometers vs. Hall effect sensors – less reliable.

CROWN



Crown

Machined race at deck plate and exposed steer bearing w/ 4 cam followers, require periodic maintenance. Rotating drive motor. Potentiometers vs. Hall effect sensors – less reliable.

Pallet Entry

HYSTER



Hyster

Tapered fork design provides good pallet entry. Top of fork nose is tapered downward to provide good entry and exit, particularly on the last pallet of a trailer when having to negotiate dock plates.

RAYMOND



Raymond

Tapered fork design provides good pallet entry. Top of fork nose is tapered downward.

CROWN



Crown

Tapered fork design and entry rollers provide good pallet entry. Top of fork nose is flat.

Pallet Exit

HYSTER



Hyster
Pallet exit guide roller width increased and moved closer to load wheel. The pallet fork lifts up and over pallet bottom boards when exiting.

RAYMOND



Raymond
Exit roller is small and not grease-able.

CROWN



Crown
Exit roller. Top of fork nose is flat, rather than tapered.

Lift Linkage Pull Rods

HYSTER



Hyster

Replaceable threaded rods between yoke and pull rods reduce downtime and expense.

Electroless nickel plated linkage pins, zinc plated spiral pins and HTX bushings assure maximum protection against corrosion. Bushings are thick-walled with capture pocket for grease.

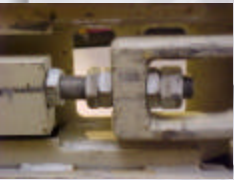
RAYMOND



Raymond

Fixed length pull rods w/ no adjustability for load wheel or bushing wear. Thin walled, DU bushings have no capture pocket for grease.

CROWN



Crown

Replaceable threaded rods and HTX bushings – but only heat treated pins. Less reliable. Bushings are thin-walled with no capture pocket for grease.

Optional Pivoting Load Backrest for Hyster B60Z

HYSTER



Hyster
Secure grip handles
Fits flush against battery. No additional fork length is needed.
Design eliminates rattling.
48" and 60" pivoting backrest used with optional battery rollers is optimal for frequent battery changes.

The New “Z” Trucks

Larger operator platform, molded padding on the steady rest and a thick cushiony floor mat make for a more comfortable and less fatigued operator on the walkie-rider.

Thermoplastic covers clip on/off and floor mat lifts off - with no fasteners for quick service access.

Hall Effect Sensors maximizes reliability by eliminating potentiometers.

Traction reversing switch prevents the operator from being pinned when maneuvering in tight spaces.

New ergonomically enhanced control handle provides easy functioning ... even with bulky cold weather hand protection.

Stationary drive motor eliminates servicing of flexing power cables.

Separately Excited Motor (SEM) technology provides more efficient and cooler running drive motors.

Integrated Traction System bathes steer bearing in gear lube oil. No maintenance ... no greasing. Only one (Power) contactor.

Lift motor cut out prevents the inadvertent running of the pump when full lift has been achieved.

Forward, reverse and hoist contactors have been replaced with electronic controls for more reliable performance.

Serial communication reduces the number of wire conductors to a 6 wire jacketed cable. Simple.

Regen Braking and Plugging are the primary methods for stopping the truck. The degree of deceleration is adjustable through the controller.

Drive Tire removal is simple & quick. No drive axle removal is required.

Electromagnetic parking brake is hydraulically applied and electrically released.

All lift linkage pivot points are easily greased.

Lift linkage pins are electroless nickel plated and retained with zinc plated spiral pins for maximum corrosion protection. HTX Bushings are thick walled with "figure 8" groove to retain grease between service intervals. Replaceable treaded rods protect against damage to heavier, hard to replace components like yokes and pull rods.

Single, 4 bearing, premium compound load wheels with "knock out" axles assure a minimum of downtime. New fork toe profile facilitates easy pallet entry/exit.

Optional single, multifunctional display provides battery state of charge, truck hours, fault code messages and lift interrupt warning.

Optional "turtle" speed button allows Walkie truck operation when the handle is vertical for optimum maneuverability

Optional side glide and coast controls provide the ultimate convenience for low level order picking.

A variety of application packages are available to adapt these trucks from cool rooms to blast freezers.