



APPLICATIONS

Excessive clamp force caused by too much hydraulic pressure is one of the most common causes of damage to paper rolls. Mechanical 3-position relief valves are under-utilized or primarily left on the high setting. HFC (Hydraulic Force Control) solves these issues by automatically adjusting clamp force. HFC is a hydraulically controlled automatic clamp force system that changes the clamp force proportional to the load weight. It works by continually sensing the hydraulic pressure necessary to lift the load and adjusts clamping pressure as the weight of the load increases or decreases. The system operates without any special actions on the part of the driver.

BENEFITS

- No need to change driver habits.
- Driver can use normal operating procedure: Close clamp arms on load and then hoist load off ground.
- Hydraulics can be feathered to allow driver to control clamp force on extremely small, light loads.
- Quick Installation only requires tapping into the Hoist, Clamp and Open lines.
- Low maintenance system does not require an accumulator to charge the system (which can lose charge).

FEATURES

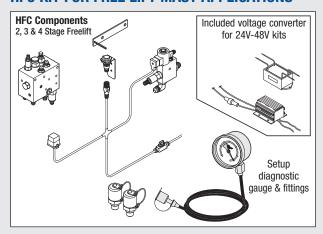
- Conveniently sized hydraulic valves mount easily onto the cowl of lift truck.
- Infinite adjustment of clamp force in the capacity range of the attachment. The system adjusts clamp force proportional to the roll weight.
- When installed with the equalizing valve, the clamp force remains constant between Freelift and Mainlift. Accomplished with the use of a switch that determines if the clamp is in Freelift or Mainlift.
- HFC is flexible, allowing easy adjustment for:
 - · All clamp force settings
 - Maximum pressure
 - Balancing clamp force between Freelift and Mainlift
 - Balancing clamp force when the size of the truck and clamp are not ideally matched.
- Compatible with Split and Solid Arm Clamps.





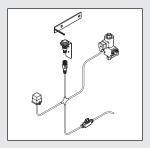
HFC MODELS

HFC KIT FOR FREE LIFT MAST APPLICATIONS



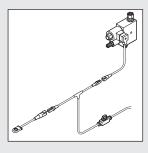
For use on 2 Stage Full Free Lift (Duplex) and 3 Stage Full Free Lift (Triplex) mast applications. Includes equalization switch which equalizes system pressure for improved accuracy.

FULL HEIGHT PRESSURE LIMITER



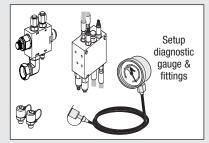
Prevents excessive clamp force in applications where the mast is extended to full height on a regular basis while clamping a load.

OPTIONAL ARM SPEED OVERDRIVE SYSTEM



System drives the arms to close at full speed (used in applications where very low clamping pressure is required, resulting in lower arm speed). Conveniently attaches to the main HFC valve for easy installation.

HFC KIT FOR LIMITED FREE LIFT MAST APPLICATIONS



For use on 2 Stage Limited Free Lift (Simplex) mast applications.

OTHER RECOMMENDED DAMAGE REDUCTION OPTIONS



Load Cushion™

Hoist System Accumulator that absorbs shocks and reduces the clamp force required to handle the load. Available in 475 ml (1 pt) and 950 ml (1 pt) sizes.



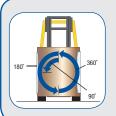
Tilt Control

Automatically controls the angle of the mast and attachment, aligning pad with the load.



WPM™ - Wireless Pressure Monitor

Wireless Pressure Monitor is a system to monitor the hydraulic pressure in the clamping cylinders of an attachment on a real time basis. Perfect for allowing drivers to see the actual pressure during the clamp cycle to determine if the load holding components are malfunctioning.



Electronic Rotational Control

Provides 90° (bilge) and 180° stops during 360° clamp rotation, which automatically aligns pad to roll.

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