

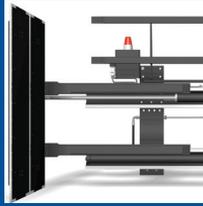
Damage Reduction Systems for Carton Clamps

Solutions to control clamp force, preventing product damage.



HFC™ (Hydraulic Force Control)

Automatic clamp force system that changes the clamp force proportional to the load weight by continuously sensing the hydraulic pressure necessary to lift the load.



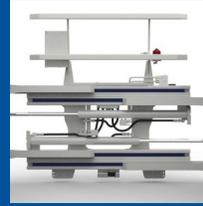
VFC™ (Volumetric Force Control)

Automatically adjusts clamping pressure based on volume of the load. Calculates the size of load and will clamp with the least amount of force.



TFC™ (Touch Force Control System)

TFC™ is an interactive and easy-to-use touch screen system that works in applications where regulating clamp force and pressure control is required.



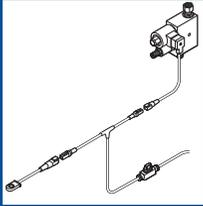
APC™ (Automatic Pressure Control)

Automatically adjusts clamping pressure based on load width only. This option detects the size of load and will clamp with the 2 or 3 pre-set amounts of force.



MANUAL 3-POSITION PRESSURE REGULATOR

Basic method for controlling the amount of pressure applied to the paper roll.



HFC™ OPTIMAL 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.



WPM (Wireless Pressure Monitor)

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.



DTI™ (Digital Tilt Indicator)

An LED tilt indicator that visually informs the driver whether or not the mast is tilted properly to provide level forks or vertical pads on a paper roll or carton clamp.



TILT CONTROL

Automatically controls the angle of the mast and attachment, which aligns the pad to the roll, and the roll to the floor.



ELECTRONIC PRESSURE REGULATOR

Allows operator to select proper clamp force with a control switch.



DIGITAL CLAMP FORCE INDICATOR

Measuring device that shows the pressure the clamp applies to the load.



4-POINT FORCE DISTRIBUTION TESTER

Portable design measures clamp force in 4 quadrants of the contact pad for a reliable measurement.



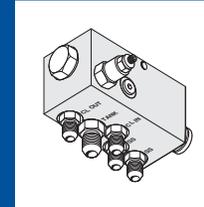
LOAD CUSHION™

Hoist System Accumulator that absorbs shocks and reduces the clamp force required to handle the load.



3-POSITION LIGHT TOWER KIT

The light bar shows the pressure setting in use when installed with the 3-Position Pressure Regulator.



ANTI-SPIKING VALVE

Prevents the auxiliary control lever from being used to "spike" or "milk" the clamp hydraulic circuit to increase clamp force.

Damage is the biggest variable in a product's journey. From creation to final destination, Cascade Corporation is dedicated to ensuring that each step of the journey is precise, practiced and controlled.

Control clamp force, reduce damage.



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HFC™ for Carton Clamps
Make all your drivers experts.

Hands free clamp force adjustment
to reduce product damage.