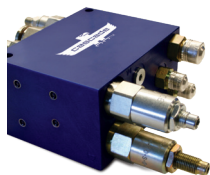


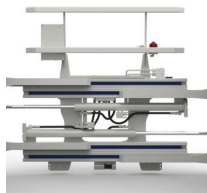
Damage Reduction Systems for Carton Clamps

Solutions to control clamp force, preventing product damage.



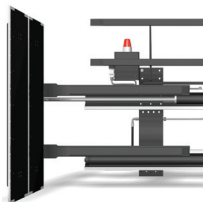
HFC™ (Hydraulic Force Control)

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.



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.



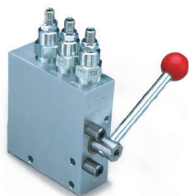
VFC™ (Volumetric Force Control)

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



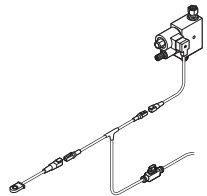
TFC™ (Touch Force Control System)

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



MANUAL 3-POSITION PRESSURE REGULATOR

Basic method for controlling the amount of pressure applied.



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.



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.



ELECTRONIC PRESSURE REGULATOR

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



LOAD CUSHION™

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



DIGITAL CLAMP FORCE INDICATOR

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



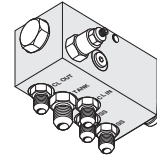
4-POINT FORCE DISTRIBUTION TESTER

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



3-POSITION LIGHT TOWER KIT

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



ANTI-SPIIKING 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.



Cascade World Headquarters

2201 NE 201st Ave.

Fairview, OR 97024

Tel. 800-CASCADE (227-2233)

www.cascorp.com



HFC™ for Carton Clamps
Make all your drivers experts.

Hands free clamp force adjustment
to reduce product damage.