

A Complete Line of Paper Roll Clamps for Any Paper.

Successfully moving paper rolls through the supply chain is a team effort and the final result is only as strong as the weakest link in that chain.

Over the years, Cascade has forged a valuable partnership with our customers worldwide. By focusing on the customer, we're able to create a product that specifically matches their roll handling needs.



"We are committed to providing the roll handling industry with clamps that reduce damage, optimize roll handling and provide years of durable use."

State-of-the-art roll clamps deliver a perfect roll every time.

Damage is the biggest variable in a paper roll's journey. From creation to final destination, Cascade Corporation is dedicated to ensuring that each step of the journey is precise, practiced and controlled. Our extensive line of damage reduction solutions allow you to be closer than ever to delivering the perfect roll... every time.



**CLAMP OPEN GUARD®**

Provides an added level of security to prevent accidental dropping of load.



**ELECTRONIC PRESSURE REGULATOR**

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



**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.



**MANUAL 3-POSITION PRESSURE REGULATOR**

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



**HFCT™ (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.



**AFC™ (Adaptive Force Control)**

Computer controlled system that prevents the driver from overclamping the load by controlling the clamp force. (AFC Digital Display shown)



**LOAD CUSHION™**

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



**DROP STOP VALVE**

Prevents clamp pads from sliding down the roll and tearing paper after unclamping roll in slack-chain conditions.



**TILT CONTROL**

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



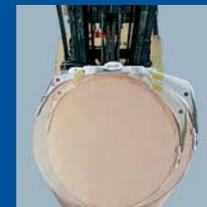
**ROTATIONAL CONTROL**

Provides 90° (bilge) and 180° stops during 360° clamp rotation. Very useful in applications where bilge handling is necessary.



**3-POSITION LIGHT TOWER KIT**

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



**SWING FRAME**

Offers you the optimum in roll handling speed and capability. The lateral 'swing' or sideshifting function adds an extra dimension of flexibility to the clamp's breakout and tight stacking capabilities.



**ROLL PROTECTOR**

Durable polyethylene sheet used to protect paper stored in warehouses from damage caused by lift trucks.



**PORTABLE CLAMP FORCE INDICATOR**

Measuring device that shows the clamp force applied to the load. Used for clamp pressure calibration with systems using pressure relief valves.



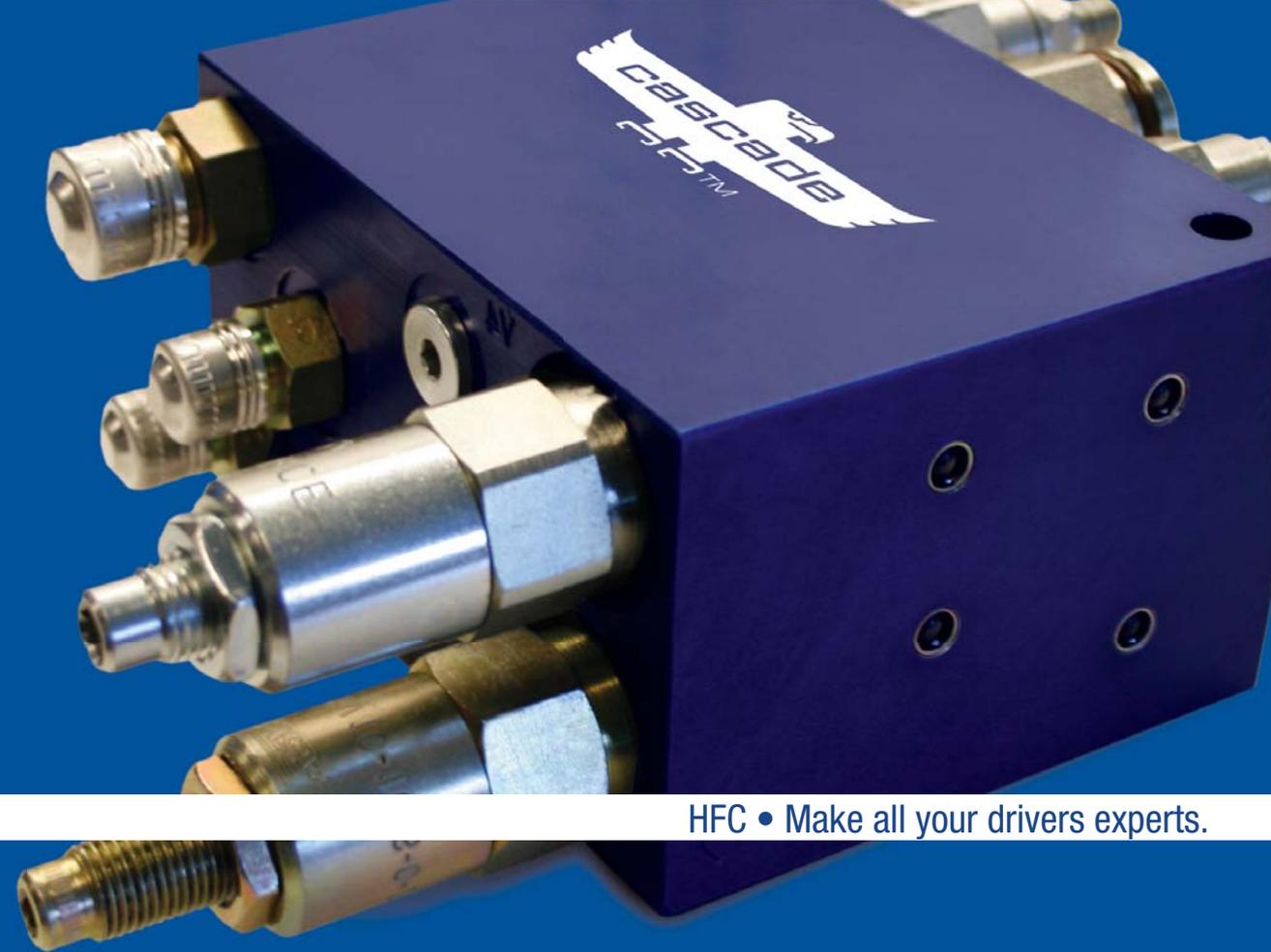
**SPLIT-ARM**

Allows secure handling of two stacked rolls of different diameters.

Control clamp force, reduce damage.

# HFC™

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.



HFC • Make all your drivers experts.



Perfect for handling smaller rolls of newsprint, form and printing stocks.

**SMALL ROLL**



Designed for mills, warehouses, corrugators and converters handling kraft, linerboard and coated papers.

**MEDIUM TO LARGE ROLL**



Designed for gentle handling of giant tissue rolls.

**TISSUE ROLL**



Designed for mills and stevedores where multiple roll handling improves productivity. For handling newsprint, coated stock, kraft and linerboard.

**PIVOT ARM - MULTI ROLL**



High-production roll clamp for wide printing paper handling of kraft, linerboard and coated stock.

**JUMBO, BIG ROLL**



When arm thickness is an issue, Sliding Arm models offer a narrow clamp arm profile.

**SLIDING ARM**



Designed for mills and stevedores where multiple roll handling is essential. Handle from two to eight rolls of newsprint, coated stock, kraft or linerboard.

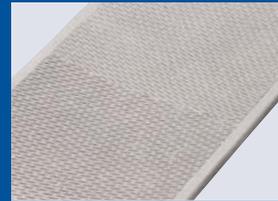
**SINGLE & DOUBLE TOWER**

Cascade has a clamp for any size, weight or type of roll you are handling. Continuous research into new technologies and constant liaison with paper producers and users has enabled Cascade to develop the optimum range of paper roll clamps.



Choosing the right paper roll clamp for your application is extremely important and choosing the correct Contact Pads are no exception. The correct contact pads will optimize clamp force which ultimately results in reduced damage. Cascade is dedicated to making sure that your paper roll clamp comes optimized with the design features and accessories you need for your application.

Cascade Contact Pads • A pad for every paper.



#### **Herringbone**

Appropriate for most paper handling. Available with any pad size.



#### **Ribbed Herringbone**

Used with difficult-to-handle recycled kraft papers.



#### **Bolt-On UDP**

Extremely durable surface. Used when handling difficult-to-grip papers or when improved friction is required.



#### **Flexipad**

Wrap-around rubber surface improves friction by conforming exactly to the roll diameter.



#### **Carbonless**

Used in applications where variations in roll diameter (up to 6 mm) exist on narrow width rolls.



#### **Tissue - Single Diameter**

Used for handling industrial toweling and wrapped dense tissue rolls less prone to damage than softer rolls.



#### **Tissue - Double Diameter**

Used for medium density tissue and toweling grades. Reduces cutting at the end of contact pad.



#### **Tissue - Convex**

For use in handling super soft tissue. Reduces cutting at periphery of contact pad area.



#### **Bolt-On Rubber**

Used when handling difficult-to-grip papers or when increased friction to reduce clamp force is necessary.



#### **RXH**

Used in applications where a resilient surface is beneficial such as newsprint or when increased friction is required.



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