



The right clamp force. Load after load.

WHAT IS AFC™?

AFC (Adaptive Force Control) is a computer-controlled clamping system, transparent to the driver, that automatically controls the clamp force in proportion to the load weight. Using a preprogrammed ratio based on roll weight and paper type, AFC sets the optimal clamp force each time a roll is grabbed, without demanding driver input.

APPLICATIONS

Used where limiting pressure is required to prevent out-of-roundness, or for any pressure-sensitive roll where overclamping can cause damage. AFC is especially valuable in converting applications handling both large full-size rolls and smaller diameter rolls. AFC replaces manually operated pressure control devices.

INCLUDED WITH AFC™

- **Load Cushion™**—hoist system accumulator that absorbs shocks, reducing the clamp force required to handle the load. Great for potholes, railroad tracks and rough-and-tumble driving conditions.
- **Electronic Drop-Stop Valve**—prevents pads from sliding down roll and tearing paper after unclamping roll in slack-chain condition, and prevents pad jump when used with an accumulator.
- **Digital Display**—shows the clamping pressure in the circuit at all times, indicating that the clamping circuit is functioning properly.

FEATURES

- Automatically applies the correct system pressure so the optimal clamp force is applied to the roll without driver input.
- Guarantees that driver can't spike hydraulic system with handle movement to overclamp the load.
- If roll sizes or types change after setup, AFC system parameters can be easily reprogrammed using a laptop or desktop computer.
- AFC can be easily programmed to adapt clamp pressure for special environmental factors such as driving over dock plates.
- AFC automatically reclaims the load if the clamp pressure drops below a user-defined value.
- Driver-friendly clamp and hoist light indicates a hoist-ready condition.
- Operates in both lift-first-tilt-second mode and tilt-first-lift-second mode.

HOW IT WORKS

With a high speed computer the system detects the load weight with precision electronics installed in the hoist system. With the combination of load weight and clamp force factors that are programmed using data for each application the correct amount of clamp force is automatically determined and applied to the load.

*Minimizing
clamp force
means
minimizing
product damage
and maximizing
productivity and
profits.*

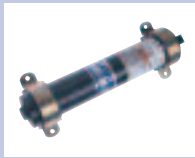
INCLUDED WITH AFC™

Digital Display



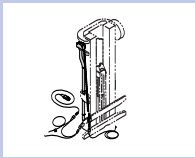
Shows the clamping pressure in the circuit, indicating that the clamping circuit is functioning properly.

Load Cushion™



Hoist System Accumulator that absorbs shocks and reduces the clamp force required to handle the load. Available in one-pint and one-quart sizes.

Power Supply



Includes conduit, coiled cord assembly, power wire harness, pigtail adapter, normally open switch and hardware for fastening to mast and carriage.

OPTIONS

Three-Setting Switch

For applications with a wide variance in load weights or where one clamp handles significantly different paper types.

Voltage Converter DC-DC

Provides 12 VDC power to the system on 24-48 VDC or 50-90 VDC trucks.

OTHER RECOMMENDED DAMAGE REDUCTION OPTIONS

Swing Frame



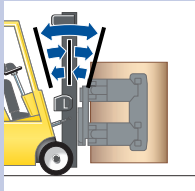
Swing Frame models offer you the optimum in roll handling speed and capability. The lateral 'swing' or sideshifting function adds an extra dimension of flexibility to the clamp's breakout and tight stacking capabilities.

Split-Arm



Allows secure handling of two stacked rolls of different diameters. Patented hydraulic circuit allows clamping of one roll with minimum top arm movement.

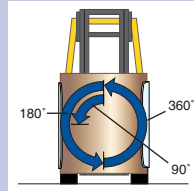
Tilt Control



Two-Way Tilt Control

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

Electronic Rotational Control



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

Application Specific Pads



The correct pad is provided depending on the type of paper being handled. Use of the correct pad allows clamp pressure to be minimized.

Adjustable Bumper



Ensures that smaller rolls are correctly positioned between the pads – not trapped in the arms.