

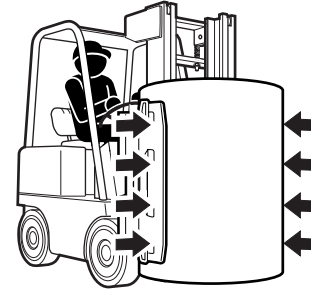


Technical Bulletin

Establishing Proper Clamp Force for Paper Roll Clamps

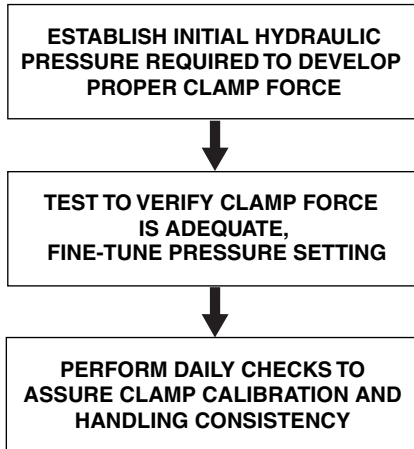
This Technical Bulletin provides detailed information on how to establish proper clamp force for a Cascade Paper Roll Clamp.

NOTE: The attached pages are extracted from the Cascade internal document "Paper Handling Technology", form 6041796. Contact Cascade Service Department for additional data specific to your application and the paper roll clamp(s) you are using. A sample clamp force-to-hydraulic pressure conversion chart is attached at the end of this bulletin.



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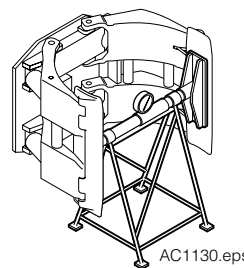
Basic Procedure – The basic procedure to establish and check clamp force is shown in the flow chart and described in detail on the following pages. Following these procedures will contribute to safe and damage-free paper roll handling.



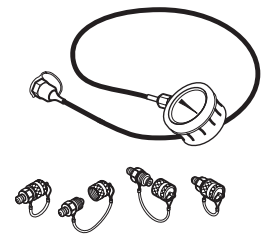
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Useful Tools – Tools useful for these procedures include clamp force indicators and pressure gauge kits:

- Digital Clamp Force Indicator, 5000 to 25,000 lbs. (see current Price List for part number).
- Analog Clamp Force Indicator, 5000 to 25,000 lbs. (see current Price List for part number).
- Standard Pressure Gauge Kit includes 5000 psi (345 bar) pressure gauge with No. 4 and No. 6 fittings, No. 6 hose, tees (Part No. 671212).
- Quick-Connect Pressure Gauge Kit includes 5000 psi (345 bar) pressure gauge and line with connect under pressure No. 4 and No. 6 fittings, tee (Part No. 6004960).



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