



CANMEC

PULP AND PAPER



TOTAL ROLL MANAGEMENT

For effective management of your rolls, CANMEC Pulp and Paper offers the following services :

- preventive and corrective inspections,
- engineering and manufacturing, and
- development and upkeep of the CANMEC Rolls Management Program.

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PREVENTIVE AND CORRECTIVE INSPECTIONS

ON-SITE INSPECTION PROGRAM

The inspection program is completed at your plant by CANMEC's specialists ; we can also provide assistance to your technical staff during the completion of your inspections.

APPLICATION

- All paper machine rolls, including suction rolls.

PROGRAM DESCRIPTION

- Review of assembly and disassembly procedures with your technicians.
- Roll inspections before disassembly.
- Bearings inspection.
- Heads and bearing housings inspection.
- For suction rolls :
 - visual and dimensional inspections of the shell, and
 - suction box inspection before and after disassembly.

IN-HOUSE INSPECTION PROGRAM

Detailed inspection program completed in Canmec's facilities.

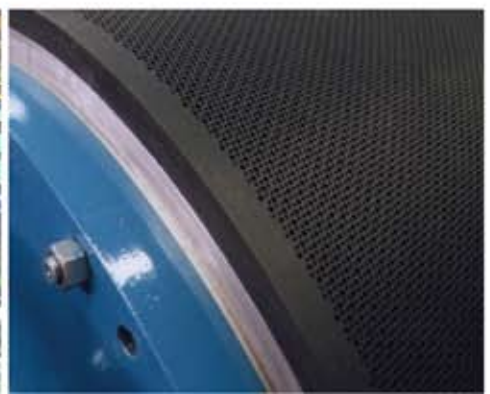
APPLICATION

- All paper machine rolls, including suction rolls.

PROGRAM DESCRIPTION

- Dimensional and mechanical inspection.
- Non-destructive testing (NDT) :
 - ultrasonic (UT),
 - magnetic particles (MPI), and
 - liquid penetrant (LPI).
- Roll run-outs.
- Roll testing at operational speed.
- Review of the design parameters.
- Covering inspection.
- Measurement of the shell thickness.
- Complete diagnostic report.

Inspection Report · Rolls Maintenance Program · Check List · Recommendations



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ENGINEERING AND MANUFACTURING SERVICES



DESIGN

Roll design by our engineering department on SolidWorks, including finite elements analysis of the following parameters :

- roll deflection,
- critical speed,
- maximum bending stress, and
- roll performance optimization (material, bearing life, etc.).

COVERS

Covering of all un-nipped roll :

- polyurethane,
- epoxy-ceramic,
- tungsten carbide,
- Teflon,
- stainless steel, and
- others.

MANUFACTURING AND REPAIRS

- Roll manufacturing, including suction roll.
- Dryer heads manufacturing.
- Manufacturing and refurbishing of roll components, including bearing housings.
- Regrinding.
- Dynamic balancing in accordance with ISO.

MORE SERVICES

- Correction of recurrent problems :
 - mechanical failures,
 - oil leaks, and
 - water infiltrations.
- Vibration analysis and stress analysis, including results interpretation.
- Finite elements analysis.
- Roll rebuild for increased performance.

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CANMEC ROLL MANAGEMENT PROGRAM

PROGRAM DESCRIPTION

- Development and upkeep of a database on your rolls status.
- Maintenance planning.
- Inventory control.
- Repairs.
- Training.

BENEFITS OF THE PROGRAM

- Reduced costs.
- Reduced unplanned shutdown and productivity loss.
- Improved preventive and corrective maintenance programs.
- Reduced inventories.

ONE-STOP-SHOP

CANMEC Pulp & Paper is the
« **ONE-STOP-SHOP** »
for all your rolls
requirements and needs.



SERVICES :

- visual inspection and non-destructive testing (NDT),
- evaluation report and corrective action recommendations,
- mechanical repairs,
- brush plating, thermal spray,
- dynamic balancing,
- covers,
- new roll design and manufacturing,
- roll refurbishing,
- correction of recurrent problems,
- roll maintenance program development, and
- roll total management program.

By entrusting your rolls management to CANMEC Pulp & Paper, you are getting direct access to the expertise of a leader in the industry. As a result, you will increase your productivity while reducing your rolls maintenance costs.

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ISO 9001 : 2000



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