



QM Bearings

CASE STUDY



PULP & PAPER

"We have been using QM Quick-Flex couplings for 10 years in our Kamyrdigester outlet device. This process is mission critical for our plant and, due to the reliability, we have recently installed three more outlets. The Quick-Flex couplings are excellent!"

FIBRE LINE MAINTENANCE SUPERINTENDENT

SWITCHING TO QUICK-FLEX FLEXIBLE COUPLING LEADS TO ESTIMATED SAVINGS OF \$145,000 AND 200 MAN-HOURS OVER 10 YEARS FOR THE GEORGE PULP AND PAPER MILL.

DRAFT

THE CHALLENGE

The large Pulp and Paper mill was built around 1964 and produces 500 tons of bleached kraft pulp per day and 295 tons of brown sac kraft paper per day.

The Mill had been using two #7 Sier-Bath Gear Couplings in a vertical application on their Kamyrdigester outlet device and was having problems keeping grease in the top of the couplings because of the vertical orientation. With the mill running seven days a week 24 hours a day it was tough to replace the grease. Historically, the mill had to replace these couplings approximately every three years, and, at one point, the mill went down for 10 hours because of a failed coupling.



The QF10260 Quick-Flex spacer couplings have run for 10 years on three applications, including this Kamyrdigester outlet device, without the need to replace an original insert.

COMPANY PROFILE

COMPANY

A Large Pulp and Paper Mill

INDUSTRY

Integrated forest products

NUMBER OF LOCATIONS

5

PRODUCTS

Bleached kraft pulp and brown sac kraft paper

QM BEARINGS PRODUCTS

QF10260 Quick-Flex spacer coupling with Blue high-torque insert



The Fibre Line Maintenance Supervisor hoped to find a solution that would be more reliable, and reduce maintenance and downtime costs.

THE QM BEARINGS SOLUTION

QM Bearings and the mill worked together to address three main issues with the current outlet device coupling situation – lubrication issues on vertically oriented gear couplings leading to coupling failure, a total spacing between shafts of 18”, and a required torque handling of 495,000 in-lbs.

To meet these needs, the Pulp & Paper mill installed QF10260 Quick-Flex spacer couplings for 18” shaft separation complete with blue high torque inserts.



Quick-Flex flexible couplings never need lubrication. So, this sight will not be seen again, now that the Pulp & Paper mill has switched to Quick-Flex couplings on this Kamyrdigester outlet device.



QM Bearings products outlast the competition, while their service outperforms the competition

THE RESULT

The QM Bearings Quick-Flex spacer couplings have far exceeded expectations on this application. And, because Quick-Flex couplings never require lubrication, the vertical orientation of the digester outlet device was no longer an issue. In addition, the durability of the Quick-Flex flexible couplings has led to significant cost savings – the QF10260 Quick-Flex spacer couplings have run for 10 years on three applications and the mill has not needed to replace an original insert to date. The Fibre Line Maintenance Supervisor estimates that with the QM Quick-Flex couplings, the mill has saved a total of \$145,000 and 200 man-hours since the switch.

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QM Bearings designs, manufactures and markets rugged Blue Brute bearings, Quick-Flex couplings and rigid compression couplings. The company’s precise manufacturing methods and innovative solutions have won over thousands of customers in over 40 countries For more information, visit www.qmbearings.com for the distributor nearest you or call 800.661.7991 (Canada) and 800.661.5568 (U.S.)

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