

## UPGRADE TO LOVEJOY RUNRIGHT® ELASTOMERIC MOTOR BASE LEADS TO MAJOR SAVINGS

### CHALLENGE ▼

The feeder within a quarry in Province of Quebec was facing the issue of premature belt wear and electric motor frames breakage resulting in equipment downtime. This site operates only during summer and fall season (May to October) due to its geographical location. So, downtime is unacceptable. A solution was explored with competitor’s motor base, however they continued to experience premature belt wear, electric motor failure and bearing issues. Downtime on the feeder costs this quarry \$6,000 per hour production rate loss and the repair and replacement cost of about \$10,000.

### LOVEJOY SOLUTION ▼

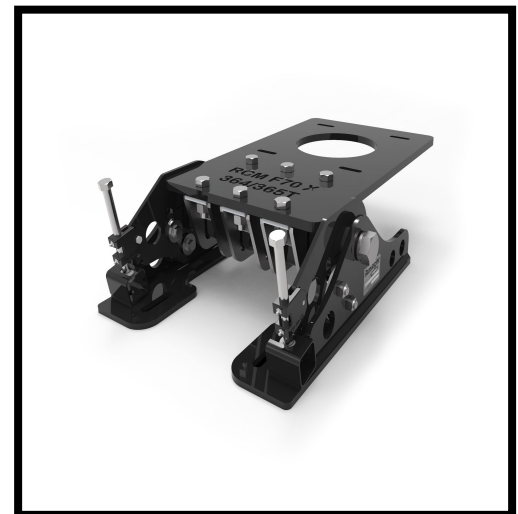
Lovejoy identified the demanding application requirements and assisted the quarry with replacing the motor base with a Lovejoy RunRight® RCM F70 motor base. The RCM F70 model is specially designed with a severe offset motor plate which accommodates the vertical movement of the feeder box while maintaining a more constant belt tension throughout the movement rang. RunRight® elastomeric tensioning motor bases utilize a rubber suspension unit which continuously compensates for belt stretching, hopping, fluttering and excessive pull when a drive is started. This engineering design reduces stress on the frame and prevents premature belt wear, as experienced in this quarry. Installing the Lovejoy RunRight® RCM F70 motor base got and kept this quarry back online the remainder of the operating season, saving the customer an estimated \$240,000 in lost revenue.



### RESULTS THAT MATTER ▼

#### RUNRIGHT® RCM F70 MOTOR BASE

	COST	SAVINGS
Estimated downtime production rate cost	40 HRS X (\$6K/HR) = \$240k	<b>\$240,000</b>



The Lovejoy team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including couplings, rubber suspension, hydraulic components, and related mechanical power transmission products.