

# PBC Application News



## PBC Gears Up Stone-Working Machines

### Setting the Scene

Park Industries is a stone working machines manufacturer located in St. Cloud, Minnesota. These machines are used in a whole range of different places; from quarries to countertop manufacturers. Recently, they have been experiencing trouble with their machines due to the dirty and contaminated environment in which they are working. Stone dust, coolant, and granite particulate all contribute to creating internal problems with the machines; specifically the rolling element bearings being used.

PBC Linear was presented with the opportunity to use their own technology to fix the failing stone-working machines. Using their Simplicity® self-lubricating linear bearings, PBC Linear was able to implement a successful application despite the environment.



### The Challenge

Replacing the failed bearings was creating downtime and causing production cost to increase. Granite particulate and coolant material was causing the traditional roller bearings to seize up. With the heavy material being cut, shock vibration was also an issue. PBC Linear needed to produce a product that could handle both.



### The Solution

With the introduction of Simplicity bearings into the application, the issues of particulate and coolant contamination were eliminated. The Simplicity bearings are able to continue to work smoothly and effectively despite the granite particulate which cause rolling element bearings to fail. Equipped with FrelonGOLD® liner, the linear bearings could easily tolerate shock vibration and the machine coolant as well.



### Products Used

Simplicity FL linear bearings were used to make machines run smoother and without failure in a contaminated environment. The FrelonGOLD liner provides resistance to shock vibration, coolant, and allows contaminants to be wiped smoothly from the shaft.



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