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## Machine Shop

### 01. Challenge

A precision machine shop in New Hampshire had a costly and time consuming problem. The CNC machine they use to fabricate medical products relies on a mixture of oil and water for parts lubrication and cutting. As the water evaporated, calcium build-up was left behind, forming limescale on the tooling and affecting both the calibration and cutting accuracy of their high-end machine. In addition, production time and maintenance dollars were lost to a twice-yearly laborious cleaning process. This machine shop needed a solution that would increase productivity and profits, while delivering a consistently high-quality product.

### 02. Solution

Using a reverse osmosis membrane to treat the machine's water seemed like the most logical way to solve the problem, however the large amount of water required coupled with 200 feet of linear distance between the water inlet and the machine created a challenge to deliver the necessary water flow. The machine shop found their answer in a custom EasyWater solution: a 100 gallon a day reverse osmosis unit comprised of two sediment filters, two pre-carbon filters and a membrane filter to keep the machine clean, coupled with a 44 gallon storage tank and a high-flow 5 gpm delivery pump to ensure a constant supply of treated water.

### 03. Results

EasyWater's affordable custom solution has allowed this machine shop to maintain the highest level of productivity, while delivering a consistently high-quality product to their customers. EasyWater's Custom RO unit has been in place for 6 months now, with absolutely no recurrence of mineral build-up inside the machine. Installing the EasyWater Custom RO has cut down on the time needed to calibrate and maintain the machine shop's complex machinery, they are able to keep tighter tolerances, and they have saved money in maintenance hours and down-time.

### About EasyWater

EasyWater is a world leader in solving water-related problems. The use of innovative technologies allows EasyWater to solve many difficult water issues without using salt, potassium or other chemicals. Our philosophy is to be conscientious of people's needs in resolving their water problems, while also doing all we can to protect our environment's natural water supply.