

## Client Profile

Accurate Machine and Tool  
1844 Wilson Ave, North York, ON



Accurate Machine & Tool Ltd is an ISO 9001:2001 certified parts manufacturer supplying some of the best manufacturers in the United States and Canada in the appliance, lighting, electrical, construction and automotive industries.

Accurate Machine & Tool's 40,000 square foot facility produces stamped parts, injection molded parts, prototypes and assemblies. Dies, molds, tools, jigs and fixtures are designed and built in house.

## Business Situation

All businesses come to that proverbial fork in the road where one must decide the best course of action to not only keep up with ever growing demands but to propel the company forward. Luckily for AMT, one of their strategic business partners is [Nanotek Consulting](#). Nanotek brings a multi faceted approach to allow companies to deploy a variation of technologies that suit very specific needs.

A manufacturing environment such as this can be a tremendous strain on the technological infrastructure which usually means that the traditional life span of electronic equipment can be drastically reduced. Combine that with a location that does not always provide the most reliable power grid in the city and it means that conventional solutions no longer make the grade.

[Cloud solutions](#) seemed like an unlikely option for a traditional nuts and bolts type of manufacturing facility but when faced with replacing the failing servers yet again, it was one that needed to be considered

## Technical Situation

The inhospitable physical environment had impacted the IT infrastructure in a very negative manner reducing the lifespan of the servers and forcing either a replacement or a change of direction. The uninterruptable power supplies were being taxed by heavy interference and frequent surges & outages. It was not uncommon to have the UPS engaged dozens of times per day.

With a possible expansion of the company on the horizon, the solution would need to be flexible enough to allow interaction and collaboration from a second facility several hundred kilometers away.

Remote management capability with an operating system neutral interface would allow cross-platform connectivity for in house, remote, and mobile users. These requirements could not be met with conventional solutions.

## Solution

Rather than replace the physical equipment back in to the same environment expecting a different result, AMT chose to take a leap forward and deploy [NanoCloud](#) technology to give them the reliability and flexibility required to meet their growing needs.

In phase one both the data and email were migrated to the cloud while the manufacturing server was being rebuilt in the cloud from the ground up. Once constructed and populated, phase two saw the completion of the cloud migration.

The local environment was decommissioned and powered down. The PC reliance on domain controllers for DNS, DHCP, printing etc were removed.

## Benefits

Gone is reliance on outdated and poorly performing servers. While there is a decided savings from a power usage standpoint, the reliability of redundant power and “five nines” uptime is a welcome relief from the constant power outages and connection issues.

The Michigan expansion is underway and getting users connected from a remote office has never been easier. Phase three will see a deployment of [NanoVoice](#) IP based PBX that will bring the US office even closer. By removing all long distance charges and adding so many conveniences of a Unified Communication System, it will be like they are working in the next room.

Mobile users are now able to connect from smart phones, tablets, PCs, and Mac devices while the sessions are handed off each time a user connects on a different device. After the deployment of [NanoVoice](#) even inter-office phone calls will be readily available on the mobile devices.