

CASE STUDY

Automation of deburring operations supports **business growth**



THE ISSUE

APN Global is a Québec-based growing company **looking for solutions** to increase its production capacity.

As a pioneer in 4.0 concepts, the company looked to **automation to improve its deburring capacity** (removal of edges on metal parts).

With the situation of a **labor shortage**, it is difficult for APN Global to hire manual operators to perform the deburring operation. Training of these operators is lengthy to ensure the **quality and consistency** their customers expect.

INITIAL SITUATION

Hundreds of parts to deburr each year.

5 manual operators for deburring operations working in 2 shifts

Approximately 1,500 to 2,000 working hours per year per operator.



Deburring Robotic System

THE SOLUTION

Robotic System:

BF-X 200-c DEBURRING

- Robot ©Fanuc - LR Mate 200iD
- Abrasive Brushes - Bristle Brush ©3M
- Part flipper
- Part loading drawer
- Integration of tools used during manual process
Reamer and Flex Hone
- Programming and operating software
BrainWave



THE RESULTS

Within 3 weeks after the installation of the robotic system at APN Global, the company had programmed and approved the automated deburring of **6 different parts**.

This represents around **750 hours of fully automated deburring per year**, which is the equivalent of an additional half-resource.

After a short customised training on the BrainWave software, APN Global is now autonomous for the robotic programming adjustment of the other parts in its production. the next goal for APN Global is to increase the automated deburring hours per year, in addition to the work done by its manual operators.

- 1.** **Constant Quality**
Thanks to the robotic system
- 2.** **Production Capacity Increase**
750 hours of deburring per year
(and more to come)
- 3.** **Client's Flexibility and Autonomy**
To program automated deburring
for new parts