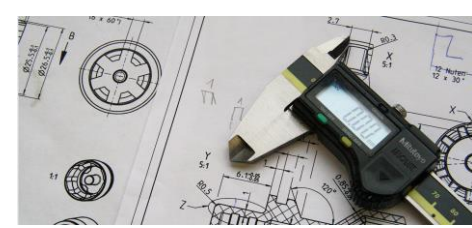


B&Z Precision Inc.

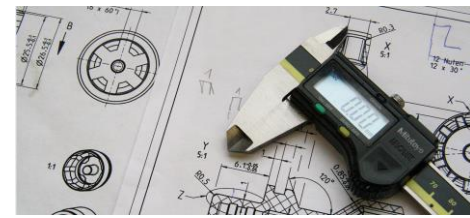
Alexey Zubko, Co-founder, azubko@bzprecision.com

- Start-up manufacturer of high-precision mechanical components and assemblies located in Stouffville, Ontario
- Group of designers and engineers with unique technical experience in plastic, automotive, and energy industries
- Adaptation and application of Advanced Manufacturing and Design Practices
- Latest in-house 5 axis CNC machining technology to materialize customers' vision and bolster innovation



Project idea and goals:

- Last year 125 North American blow-molding companies reported combined products sales of over \$18 billion. **Cooling time** in extrusion blow molding is the longest step in the process.
- Previous attempts to apply 3D metal printing to address cooling issues were not successful.
- We developed a concept of a **hybrid technology** which combines 5 axis CNC machining and 3D metal printing and brings design and manufacturing of blow moulds to the next level of evolution.
- The next generation of blow moulds would help manufacturers to **reduce their cycle time by 15-20%** without additional steps in the process and new equipment.



Partnerships we are seeking:

- Blow moulding companies
 - Critical to quality characteristics and design requirements of their blow moulds
- 3D metal printing companies
 - Technical expertise and ability to integrate manufactured parts
 - The company will benefit from supplying 3D printed parts for production blow moulds
- Expert knowledge and research capability in the field of Thermal Engineering
 - Heat transfer expertise
 - The partner will be able to commercialize newly developed heat transfer expertise