



# AFFINITY

MANUFACTURING LTD.



## MANUFACTURING:

### Machining, Fabrication & Assembly

- ▶ Prototypes and production runs
- ▶ All metals, plastics, ceramics, graphite
- ▶ Finishing and surface treatment services
- ▶ Welding
- ▶ Every job is done to the highest quality and perfection
- ▶ Aesthetics to suit your needs
- ▶ Flexible as per your requirements
- ▶ Seamless transition from prototypes to production of precision parts and assemblies

**Expertise in  
manufacturing  
precision parts  
and assemblies.**

**We are an  
extension to your  
business...**

## TURNKEY SOLUTIONS...

**From concept to component.**

We also offer Design and Manufacturability Guidance.



[www.machining.ca](http://www.machining.ca)



**Highly experienced  
and well trained  
engineers,  
technologists &  
machinists**

## The Equipment

- ▶ 3, 4 and 5-axis CNC machining centers
- ▶ 2 and 3-axis turning centers, with bar loading system
- ▶ Laser measuring and tool presetting system
- ▶ High precision conventional turning and milling machines
- ▶ Surface grinder
- ▶ Automatic saw cutting system
- ▶ Assortment of work holding devices
- ▶ A vast collection of precision measuring instruments
- ▶ Material handling equipment
- ▶ Mastercam, Gibbscam, Solidworks

## Industries Served

- ▶ Electronics
- ▶ Medical
- ▶ Alternate and green energy
- ▶ Optics and imagery
- ▶ Food, dairy and fishery
- ▶ Commercial Printing
- ▶ Scientific equipment and instruments
- ▶ Performance automotive and bicycle
- ▶ R & D institutions
- ▶ Construction, architectural and building materials
- ▶ Marine
- ▶ Oil & Gas
- ▶ Sports and Recreation
- ▶ RC Devices
- ▶ Automation



# The Offering

## CAD/CAM services

- ▶ Designing from a sketch, concept or an idea
- ▶ Design modifications to optimize cost
- ▶ Simulation in CAM software and analysis

## Machining

- ▶ 5 axis CNC milling and 3 axis CNC turning
- ▶ Conventional milling and turning
- ▶ Prototypes, one-offs, and production runs
- ▶ All metals, plastics ,ceramics, composites, graphite & exotic materials
- ▶ Jigs, fixtures, tools, dies
- ▶ Parts ranging from 1 mm (0.040") to 1524 mm (60") dimensions
- ▶ Simple to complex components
- ▶ Parts with very fine tolerances

## Finishing and surface treatment services (subcontracted to qualified vendors) as per standards & specifications

- ▶ Anodizing and alodining
- ▶ Electroplating - Zinc, Chrome, Nickel, Cadmium, Gold and others
- ▶ Cylindrical and centerless grinding
- ▶ Hot Dip Galvanizing
- ▶ Electro-less Nickel Plating
- ▶ Electro-polishing
- ▶ Powder coating and Wet painting
- ▶ Black Oxiding
- ▶ Heat treatment processes including Nitriding
- ▶ Wire and sink EDM
- ▶ Sand & bead blasting
- ▶ Laser, waterjet and plasma cutting
- ▶ Laser etching/engraving
- ▶ Screen printing (silk screening)

## Specialized Materials Sourcing

- ▶ Metric Sizes
- ▶ Hardware and Fasteners
- ▶ Assembly Components
- ▶ Hard to find materials

## Fully working sub-assemblies and assemblies

- ▶ Mechanical
- ▶ Optical
- ▶ Electro Mechanical and Automation

## Fabrication

- ▶ Precision frames, housings and structures
- ▶ Parts made from shim stock
- ▶ Welding and Brazing



## QUALITY

Using state-of-the-art equipment, cutting edge software, highly skilled manpower and vast experience, we are able to deliver highly accurate and precise parts and assemblies. The engineering drawings provided are strictly adhered to in terms of geometric and dimensional tolerances and surface finish requirements. We make the parts as per customers' specifications or as per the National and International Standards like ISO, ASTM, DIN, BS, JIS, ROHS, FDA, CFSA, CEN, SCC, MIL etc. Inspection Reports, Material Certificates and Certificates of Compliance are provided whenever required.



**AFFINITY**  
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