



**Thermetco**

Heat Treatment &  
Non Destructive Testing

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ORGANISÉ PAR

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- Thermetco is an SME founded in 1982 – actually 2 sites in Montreal but in 2019, a new plant – 45 000 ft<sup>2</sup>
- 120 employees
  - 10 engineers
  - 20 technicians
- 28 furnaces and fully equipped laboratories
- Dedicated to the Aerospace, Automotive, Defence and Energy & Petrochemical Industries
- Thermetco is providing Metallurgical Solutions in Heat Treatment of Metals Parts and in Non Destructive Testing
- Certifications:
  - AS9100D
  - NADCAP
- Accreditations:
  - Pratt & Whitney Canada & US, Rolls-Royce, Safran, Lockheed Martin, Bombardier



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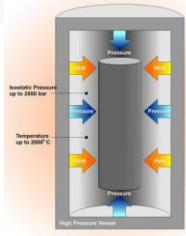
Conseil national de  
recherches Canada

National Research  
Council Canada

SEMAINE  
INTERNATIONALE  
L'AÉROSPATIALE

## Capabilities

- Special processes like Heat Treatments and Non Destructive Testing are used in advanced manufacturing and especially in 3D printing.
- One of this treatment – Hipping (Hot Isostatic Pressing) is used for molded parts and sintered parts but also in 3D printing.
- This process is used to reduce the porosity and to increase the density of metals and many ceramic materials. This improves the material's mechanical properties and workability.
- It consist in applying simultaneously high pressure (up to 45000 psi) and temperature (up to 2400°F) on part over a set amount of time.



- This process do not exist in Canada but there is a need for it, especially for molded and sintered parts and with the advent of additive manufacturing, the necessity is even greater.

## Potential Partners

- In Quebec and all provinces of Canada, we could find industries to produce complex metal parts but there is very little partnership between them.
  - With the advent of additive manufacturing, it is time to reverse this state of affairs and we need to develop partnerships between:
    - Metal powder manufacturers
    - Additive manufacturers
    - Machinists
    - Heat treaters
    - Surface finish post processors
- in order to be competitive on the international market.

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