

# National Turbo-machinery & Propulsion Incorporated

## *The Mass x Velocity Continuum*

### Advanced Projects Portfolio - Engines R & D

- NTPI-Aerospike-ACN : "Velocity" series of rocket engines with altitude compensating nozzles:
- variable geometry linear aerospike;
- variable nozzle vector control and variable throttle control thrust vectoring;
- primary and secondary stage fuel flow;
- thrust vectoring and multi-fuel manifolds;
- air breathing and Lox (liquid oxygen);
- variable geometry nozzle intermix venturi for pre-combustion for speed, altitude and load;

Engine thrust: (pounds of thrust)

- ACN-L-50: 50,000 lbf, ACN-L-100: 100,000 lbf,
- ACN-L-200: 200,000 lbf, ACN-L-250: 250,000 lbf
- ACN-L-5500: 550,000 lbf, ACN-L-550: 550,000 lbf

Design engineering for the worlds most powerful and fuel efficient rocket engines...

- modular stackable design for mission capabilities;
- primarily kerosine, Jet A and high energy fuels;
- augment electrodynamic technology combined with ● mass reduction technology;
- the thermo combustion multi-physics and multi-dimensional physics genius at work;
- space launch and high altitude missions;
- Single state to orbit – SSTO – vehicle (<https://comeau-aerospace.ca>)
- augment & amplify space flight characteristics : (Ultimate Flying Machine)
- energy acquisition, fuel refinery, fuel production, storage, transport;
- fuel research, hydrogen production, kerosine, Jet A and high energy fuels;
- fuel containers, fuel lines, fittings, hardware, controls, pumps, governors;
- fuel and engine cooling, ignition and combustion thermo-physics research;
- friction reduction and shield generator technology;
- hypersonic vehicle and weapon systems;
- space environment technology research;
- Fortanium Advanced Materials Inc. - metal/mineral matrix, meta materials and super alloys;
- integrated space vehicle design engineering & advanced propulsion co-development;
- initial \$5 billion budget for exit escape velocity – rewrite equations & evaluate your portfolio;

This really is rocket science and some people really like to burn fuel...lots of fuel.

*"The most awesome engine portfolio in Canada!"*

*A new altitude in performance and speed in the Mass x Velocity Continuum.*

*As above – so below, as within – so outwardly*

*Thy will be done on earth as it is in heaven...*

*"My God, this is a rocket!" Dedicated to Jack Woodman*