

Orenda Engines Limited  
*The Mass x Velocity Continuum*  
Advanced Projects Portfolio - Engines R & D  
Orenda Engines Limited - Iroquois - 19,250 lbs thrust  
Redevelop and Rebuild the National Dream

**General characteristics**

- ◆ Type: Twin-spool turbojet
- ◆ Length: 231" (590 cm)
- ◆ Diameter: 42" (110 cm)
- ◆ Dry weight: 4,650 lbs (2,110 kg)

**Components**

- ◆ Compressor: 10-stage split axial flow compressor
- ◆ Combustors: Annular combustion chamber
- ◆ Turbine: Single-stage HP, two-stage LP, axial flow

**Performance**

- ◆ Max. Dry Thrust: 19,250 lbs (89 kN); Max After-burning Thrust: 30,000 lbs (130 kN);
- ◆ Overall pressure ratio: 8:1
- ◆ Air mass flow: 420 lb/sec (190.5 kg/s)
- ◆ Specific fuel consumption: 0.85 (non-reheat), 1.9 (with reheat)
- ◆ Thrust-to-weight ratio: 6.45:1 at maximum thrust

*Our mission involves advanced design, materials, manufacturing and assembly.*

*Our mission includes the transformation and evolution of the mass x velocity continuum.*

*Our work is dedicated to performance and mission deployment in specific aircraft,  
with research and development of advanced fuel systems technology,*

*The Orenda Engines Limited Iroquois - from start to full throttle in 1.6 seconds...*

*the proportional variable speed afterburner had a continuous run time of 1,000 hours...*

*the pre-eminent standard of reliability, durability and performance...*

*Duty, honour, nobility, courage, fortitude, resolution, power, speed, excellence and victory...*

*Our faith includes moral and technological courage and confidence,*

*essential in any peace or war vector scenario of any type...*

*Design Engineering Elements, Precision Advanced Manufacturing & Assembly*

*In our zone and a lot more up to speed, audacity, brilliant creative imagination,*

*mass x velocity, going way beyond our wildest dreams.*

*The official engine for the CF-105 Arrow, (<https://www.cf-105arrow.ca>)*

*and the Comeau Aerospace Incorporated – (<https://www.comeau-aerospace.ca>)*

*CAI-822 Stealth Invader Interceptor (Super Arrow)*

*“The most awesome engine portfolio in Canada!”*

*Builders of the new world and the alternate reality creation engine !*

<https://orenda-engines.ca>