



## Introduction to Silex Innovations Inc.



**Silex Innovations Inc.** is located at 6659 Ordan Drive, Mississauga, Ontario, Canada.

- This facility is dedicated to the production of exhaust systems and silencers with the proven capability to handle orders of any size or complexity.



Silex delivers **Design Performance, Product Quality** and **Customer Satisfaction** based on the:

- Design, manufacture and direct marketing of exhaust systems, silencers, exhaust accessories, insulation blankets and emission control products for small, medium and large diesel and natural gas engines as well as intake and discharge silencers for blowers.



- Power generation
- Gas compression
- Vacuum truck
- Marine
- Pneumatic Conveying
- Defence
- Heavy Equipment/Off-Road
- Locomotion
- Telecommunications
- Process Industries
- Industrial OEM



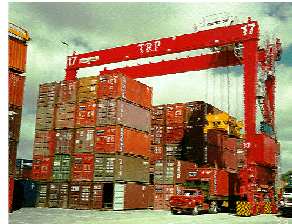
Designed and manufactured the exhaust systems for the Power Modules.



Designed and supplied high performance replacement silencers for the Mining Trucks



Supplied exhaust silencers used on the genset unit in gantry cranes (RTG)



Supplied the exhaust silencers for ships



Supplied the exhaust silencers for compressor modules of FPSO ships

Designed and manufactured the complete exhaust system for Distributed Generation projects. The system included catalytic oxidation silencers, expansion joints, exhaust stack, structural supports, ventilation fan, rupture disks and all system accessories.



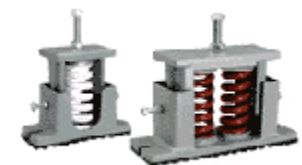
Design and supplied the exhaust silencers for the generator used in the armored personnel carrier built by GDLS for the Canadian, USA and Australian Armed Forces



Silex combines structural, thermal, acoustic and fluid dynamics to provide complete engineered exhaust solutions from the engine exhaust flange to the stack tip.

Products include:

- **Silencers**
- **Exhaust Accessories**
- **Exhaust Stacks**
- **Connectors**
- **Emission Control**
- **Thermal Insulation Blankets**
- **Vibration Isolation**



Largest product range of silencers in the industry.

- **Acoustical range by series**

- Industrial (15-25), Residential (20-25), Critical (25-30), Super Critical (30-35), Hospital (35-40), Hospital Plus (35-50) and Super Hospital Plus (45-55)

- **Styles and designs**

- Cylindrical, hockey puck, power puck and square silencers
- Reactive, absorptive and combination silencers
- Low pressure drop, spark arrestor or low profile

- **Size ranges**

- 1.5" to 60" inlets

- **Configuration options**

- Single, dual and custom inlets / outlets configurations
- Horizontal or vertical mounting

- **Materials**

- Carbon, aluminized, core-ten and stainless steel

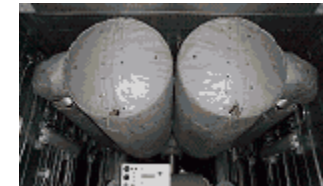
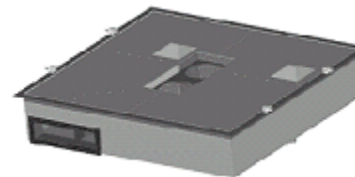


Silex specializes in exhaust systems for enclosures and power modules.

If you need high performance silencers for applications where space is limited, we offer a variety of solutions.

**Hockey Puck**, **Power Puck**, **Dual Inlet** and **Cube** silencers series are all designed for enclosed applications with acoustical performance ranging from Critical, Super Critical and Hospital Plus.

Silex **“Ice Series”** of internally insulated silencers offer superior thermal control.



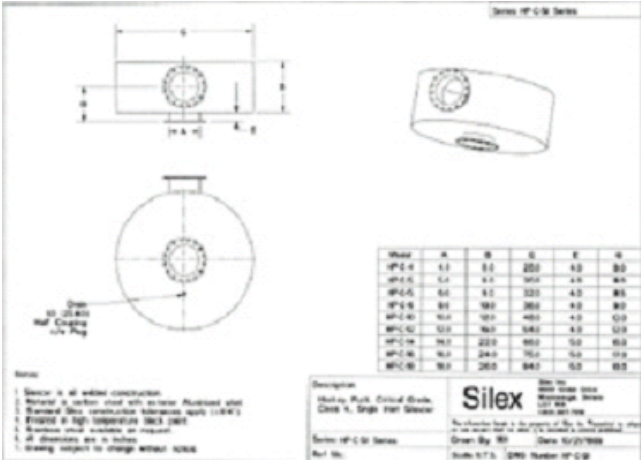
The **SileNOx** product line is a combination silencer and catalytic converter for your applications requiring emission control.

- **Catalytic converter silencers** are available in the following standard silencers models:
  - JB, JBT, JC, JCT, JDDS, JDDT & JDDPR
- **2-Way SileNOX – Catalyst**
  - Contains both reduction catalyst materials and oxidation materials to convert CO and THC. This application is used on lean burn engines.
- **3-Way SileNOX – Catalyst**
  - Contains both reduction catalyst materials and oxidation materials to convert NO<sub>x</sub>, CO, THC. This application is used on rich burn engines.



Best support tools in the industry through our public and secure web sites - [www.silex.com](http://www.silex.com)

- Pricing
- Sales drawings
- Specification sheets
- Engineering manuals
- Sizing programs

**Series HP-C Series**

Model	A	B	C	E	H
HP-C 1	1.1	0.1	200	4.0	80
HP-C 2	1.1	0.1	300	4.0	80
HP-C 3	1.1	0.1	320	4.0	80
HP-C 4	1.1	0.1	360	4.0	80
HP-C 5	1.1	0.1	400	4.0	80
HP-C 6	1.1	0.1	450	4.0	80
HP-C 7	1.1	0.1	500	4.0	80
HP-C 8	1.1	0.1	550	4.0	80
HP-C 9	1.1	0.1	600	4.0	80
HP-C 10	1.1	0.1	650	4.0	80

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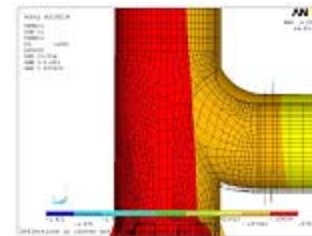
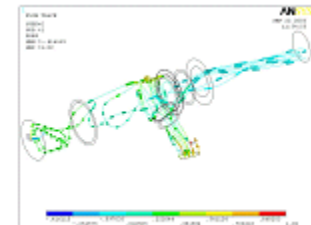
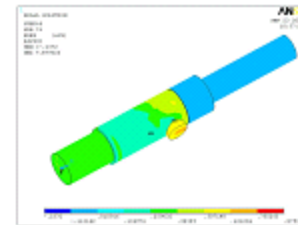
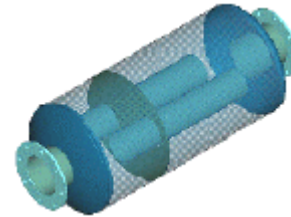
Silex has invested in software tools and programs to help support our customer in their own product development and to continue to improve the performance of our products.

These tools include:

- Pro/Engineer 2000i
- Pro/INTRALINK 3.0
- ANSYS
- Three-dimensional boundary element method (BEM) program
- Finite Element analysis (FEA)
- Computational Fluid Dynamics (CFD)

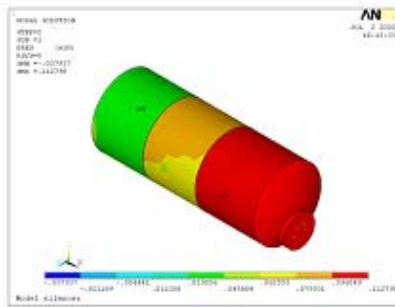
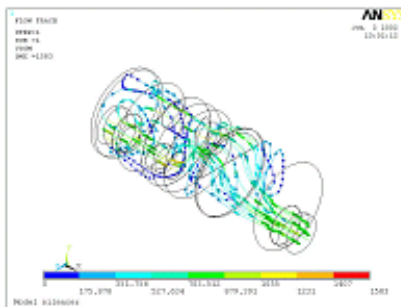
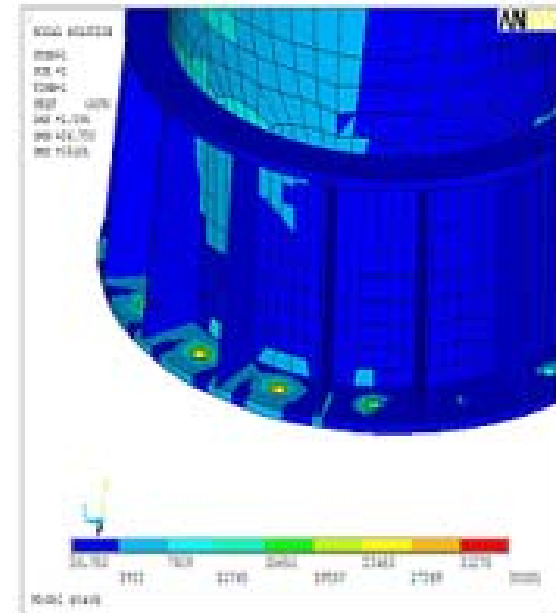
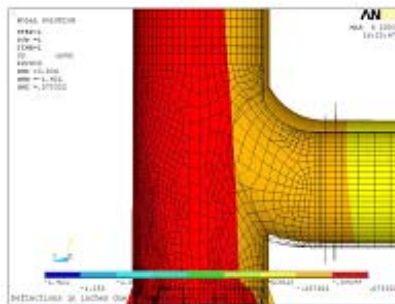
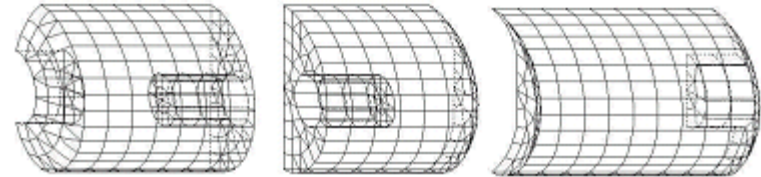
These tools give our customers

- **Greater design flexibility**
- **Ability to exchange information**
- **Increased accuracy**
- **Improved quality**
- **Ability to validate performance**



Advanced engineering tools to analyze the complete exhaust system as well as **validate the design in individual components.**

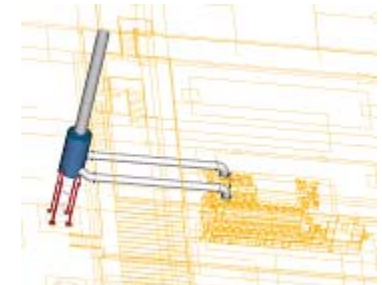
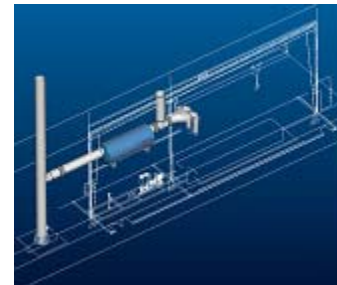
- Acoustic analysis
- Structural analysis
- Flow analysis
- Thermal analysis



Combining the structural, thermal, acoustic and fluids disciplines allow Silex to provide **complete engineered exhaust solutions** from the engine exhaust flange to stack tip.

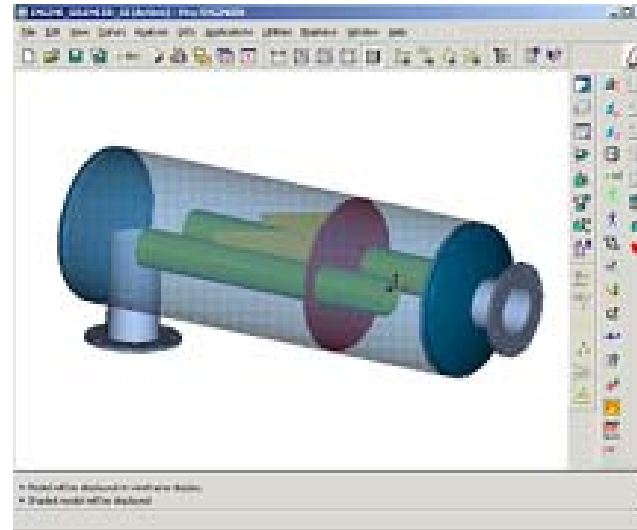
Includes:

- SCR Emission control systems
- Oxidation Catalysts
- Exhaust Silencing
- Expansion Joints
- Exhaust Stacks
- Structural Support System
- Thermal Insulation Blankets

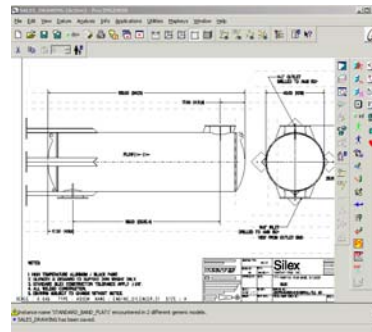


Products are designed using **Pro/Engineer**.

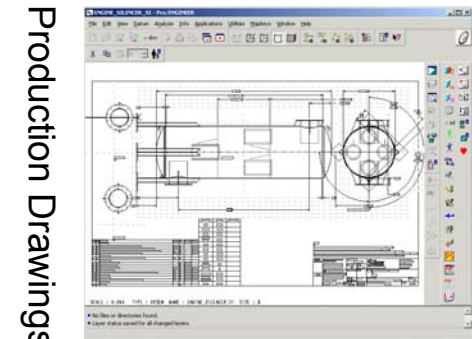
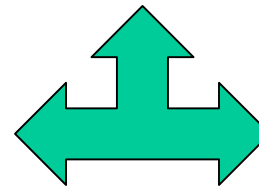
- Automated sales process from order configured to Pro/E Model through to production drawings.
- This automation enables Silex to provide our customers with Sales drawings in minutes rather than hours or days.



Pro-E Model



Sales Drawings



Production Drawings



The best **customer support tools** in the industry allow our sales team to get you the information you require when you need it:

- Online sales submittal drawings, specification sheets and price lists
  - Silencer selection and sizing programs with acoustical predictions by octave band
  - Engineering manuals of pre-engineered exhaust systems by OEM engine model
  - In-house customer / product support for challenging projects
- 
- By offering the broadest range of exhaust components, you only require **one purchase order for all your exhaust products**.
  - By providing electronic drawings, your design, quoting and submittal processes becomes **faster and simpler**.
  - By sourcing pre-engineered exhaust systems, your product becomes quieter with **improved performance**.
  - By purchasing direct from the manufacturer, **you save time and money**.



For more information on our products and services, please contact us directly at one of the following numbers:

## Corporate

- Toll Free **800-387-7818**
- Phone **905-612-4000**
- Fax **905-612-8999**
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