

FACT SHEET

EQUIPMENT AND PARTNERS FOR THE DEMONSTRATION PROJECTS

Éco
Entreprises
Québec

TECHNOLOGICALLY-ADVANCED EQUIPMENT TO SORT AND CLEAN GLASS COLLECTED VIA CURBSIDE RECYCLING

After reviewing available technologies, Éco Entreprises Québec (ÉEQ) established a diagnosis which facilitated the selection of innovative and proven technologies to implement in Quebec sorting centres as part of demonstration projects. Manufacturers Krysteline Technologies and Machinex are combining their expertise to provide a customized approach as well as technical support to the selected sorting centres throughout the project period.

WHAT IS GLASS IMPLOSION?

Krysteline Technologies has developed innovative implosion technology to transform glass into small fragments. With the implosion system, a calibrated-speed rotor sends a shock wave to glass bottles or pieces. This wave, which travels back and forth, causes instantaneous implosion of the glass without shredding the labels or capsules, which are therefore easier to sort and extract. This method is less costly to maintain and uses less energy than conventional grinding processes. As an added benefit, the edges of the treated glass are rounded, not sharp.



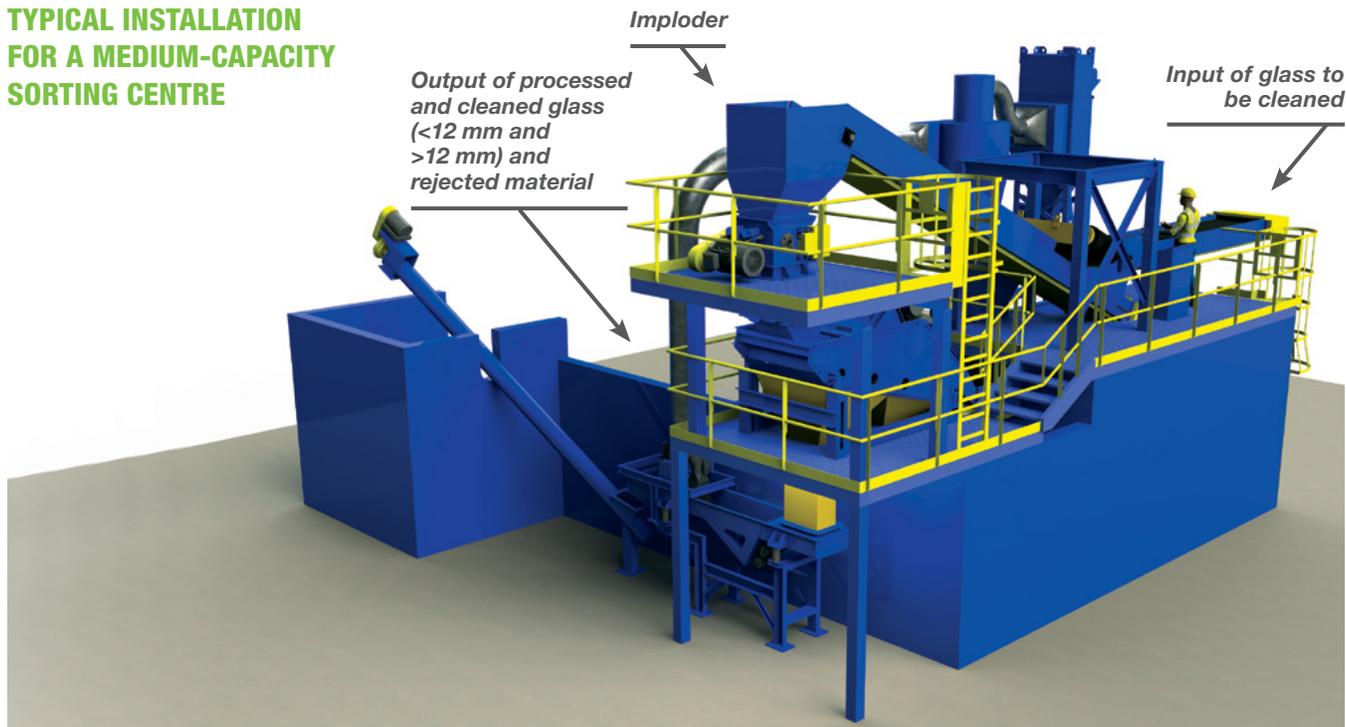
EQUIPMENT CONFIGURATION

Cleaning systems by suction of light contaminants (paper) and sieving (also called screening) will be combined in different configurations, according to:

- Characteristics of the selected sorting centres
- Current quality of the glass in sorting centres
- Target market outlets

The specific choice of equipment and final configuration in the area dedicated to glass processing will be finalized after a detailed implementation study in collaboration with selected sorting centre managers.

TYPICAL INSTALLATION FOR A MEDIUM-CAPACITY SORTING CENTRE



GLASS AFTER PROCESSING (VARIOUS SIZES POSSIBLE)



CREATING AN INTERNATIONAL BUSINESS OPPORTUNITY

As part of its *Innovative Glass Works Plan*, Éco Entreprises Québec (ÉEQ) works in collaboration with a partner in Quebec, Machinex, and another in the United Kingdom, Krysteline Technologies. They form a strategic alliance that holds great promise for the future of the recycling industry in Quebec and throughout North America.

ÉCO ENTREPRISES QUÉBEC (ÉEQ)

Éco Entreprises Québec (ÉEQ) is the organization that develops the Schedule of Contributions and collects company contributions, which are then redistributed to finance municipal curbside recycling services in Quebec. ÉEQ also encourages innovation and sharing of best practices in order to optimize the recyclable materials value chain. To do so, ÉEQ cooperates, on the one hand, with companies to reduce quantities of materials at the source and encourage the use of recyclable materials, and on the other, with municipalities

to increase recycling and the economic value of recovered materials. ÉEQ is a private non-profit organization created by companies that put containers, packaging and printed matter on Quebec's market to represent them. The organization was accredited by RECYC-QUÉBEC in 2005 under the *Environment Quality Act*.



MACHINEX

In the early 1980s, Machinex became the first company in Canada to design machinery for sorting centres. The company immediately established itself as a leader in designing profitable quality recycling sorting systems. Today, Machinex is still a world leader in the industry, developing cutting edge sorting, waste management and recycling technology. Over the years, its experts have designed and installed over 350

turnkey facilities in partnership with leading MRFs in Canada, the United States, Europe and Australia.

For further information, visit:

www.machinexrecycling.com/en

or write to: info@machinex.ca



KRYSTELINE TECHNOLOGIES

Krysteline Technologies has been providing patented glass processing systems on a global scale since 1998. Krysteline is a provider of bespoke solutions to the materials processing industry. Centred on its unique implosion systems developed for the quick, efficient and cost effective size reduction of a wide range of materials including glass, ceramics, minerals, ores and furnace slags, Krysteline Technologies has over 20 years' experience designing and building a wide range of processing systems from simple stand-alone units to multi-functional purification plants. Krysteline's strategy is to provide processing solutions for all collected glass no

matter its size or quality. Its unique patented technology can make use of 100% of the waste glass stream to meet market needs and develop new outlets.

For further information, visit:

www.krysteline.com

or write to: info@krysteline.com



All the details can be found on the website at www.ecoentreprises.qc.ca/glass
For information: verre@ecoentreprises.qc.ca