

OPTIMIZED CONVEYOR PERFORMANCE FOR TOP RECYCLER

AT ITS STATE-OF-THE-ART BROOKLYN FACILITY, THE WORLD'S LARGEST RECYCLING COMPANY ACHIEVED TOTAL RELIABILITY AND PERFORMANCE WITH MAYFRAN INTERNATIONAL.

In the most demanding recycling applications, durability and reliability are critical. Tons and tons of plastic, glass, metal and paper must be processed, often 24 hours a day, numerous days per week.

Such is the case for Sims Municipal Recycling, which processes nearly 500,000 tons of curbside pickup recyclables from throughout every NYC neighborhood, with services stretching into New Jersey. So when Sims was ready to complete work on its state-of-the-art Sunset Park facility in 2012, the company knew it would need a reliable main in-feed conveyor solution to finish the job. With Mayfran International, they found the right solution.

The Challenge

The main in-feed conveyor is where the recycling process truly begins for any major facility. For 5–6 days each week, it must operate constantly, loading tons of recyclables from millions of city dwellers into the facility for sorting and beyond. This makes reliability absolutely essential, as any downtime associated with poor performance can lead to massive backups, impacting all of city services.

Having worked with Mayfran in the past at its New Jersey facility, Sims knew whom to call, confident that Mayfran could deliver the right solution to ensure total, long-lasting reliability for the new project.



QUALITY, BUILT IN.

 **mayfran**
INTERNATIONAL
A MEMBER OF TSUBAKI GROUP

OPTIMIZED, 24-HOUR RELIABILITY

The Solution

Mayfran worked diligently to identify the best solution to meet the needs of the new plant. Having worked together with Sims previously, and having decades of experience in providing tailored material handling solutions for customers around the world, the Mayfran team was closely familiar with the constant, demanding conditions of big-city recycling.

Mayfran worked closely with Sims' operations and maintenance teams to ensure the new system would meet the needs of the new facility, working with customized components and design elements to best suit the application.

After installation, Sims' robust maintenance program has helped to ensure the new Mayfran system could achieve long-term reliability and optimized performance.

The Results

After several years of operation, the conveyor system and frame structure have shown little sign of wear, reliably handling up to 80 tons of municipal solid waste per hour, 24 hours per day, between five and six days per week since startup.

Mayfran's design expertise and quality components, combined with Sims' careful attention to maintenance needs, demonstrate that even under the most demanding conditions, there's a reliable conveyor solution at hand for every solid waste handling need.

Sims Municipal Recycling – Sunset Park Main In-Feed Conveyor:

- 400 mm pitch, 96-inch-wide heavy-duty Z-pan hinged steel belt
- Lower horizontal fit in pit
- Open frame
- Expanded metal, lift-out side guards in areas of personnel access, requiring no tools to remove
- Heavy-duty framing with two load bars in lower horizontal area between carrying tracks, limiting deflection of belt under impact