

TOP PERFORMANCE FOR WORLD'S LARGEST RECYCLER

A NEW CONVEYOR SOLUTION FROM MAYFRAN IMPROVED RELIABILITY, ELIMINATED DOWNTIME FOR NYC'S MOST IMPORTANT RECYCLING FACILITY.

Sims Municipal Recycling is the cornerstone of the New York City recycling system, sorting and processing nearly 500,000 tons of plastic, glass, metal and paper annually from curbside bins throughout the city's five boroughs. With services throughout NYC, New Jersey and a recent expansion into Chicago, Sims is the world's largest recycling company.

While experiencing reliability issues with its primary in-feed conveyor at its New Jersey facility, Sims knew it needed a new solution. To find it, the company turned to Mayfran International.

The Challenge

To accommodate tons of recyclables from millions of city dwellers, Sims' main in-feed conveyor operates 24 hours per day for five to six days each week. Any amount of downtime can cause major backups, making total reliability a must.

In 2012, Sims worked with Mayfran for a major overhaul of the original conveyor installed by a competitor. Mayfran designed, manufactured and installed a 12-inch Z-Pan belt and new rails to fit the existing conveyor frame, helping Sims gain an additional five years of reliable service.

But after that five years, Sims determined that a complete replacement was required. To ensure a quality, long-lasting solution backed by exceptional service, they once again worked with Mayfran to design and manufacture the replacement conveyor.



QUALITY, BUILT IN.

 **mayfran**
INTERNATIONAL
A MEMBER OF TSUBAKI GROUP

OPTIMIZED, 24-HOUR RELIABILITY

The Solution

The Mayfran team worked diligently to understand Sims' specific requirements. Having overhauled the previous conveyor, Mayfran understood the demanding conditions. Mayfran also worked closely with Sims' operations and maintenance teams to outfit the new solution with customized components and design elements to best suit Sims' needs.

After installation was complete, Sims' existing maintenance program helped ensure long-term reliability and optimized performance for the new Mayfran system.

The Results

The conveyor system has so far demonstrated two years of heightened performance and reliability, handling up to 45 tons of municipal solid waste per hour.

The conveyor frame structure has shown little sign of wear and tear, standing up to the demanding 24-hour conditions Sims' business requires. Combined with Sims' robust maintenance program, Mayfran's design expertise and quality components show that even under the most demanding conditions, there's a reliable conveyor solution at hand for every solid waste handling need.

Sims Municipal Recycling Main In-Feed Conveyor:

- Mayfran 72-inch-wide Z-pan hinged steel belt at 12-inch pitch for optimized durability
- 40-horsepower drive, operating at 15–40 feet per minute
- Extended rear hopper
- Removable abrasion-resistant liners with countersunk holes
- Lower curve liners extended to 84 inches above belting, 48 inches high on each side of lower curve
- Removable side skirts along full length of conveyor
- Relocated belt oilers at floor level for better visibility and easy refilling
- Hinged door located at tail end of the hopper, complete with shut-off switch for belt access
- A drive chain tensioner complete with new chain guard