

50 YEARS OF EXCELLENCE

JMS

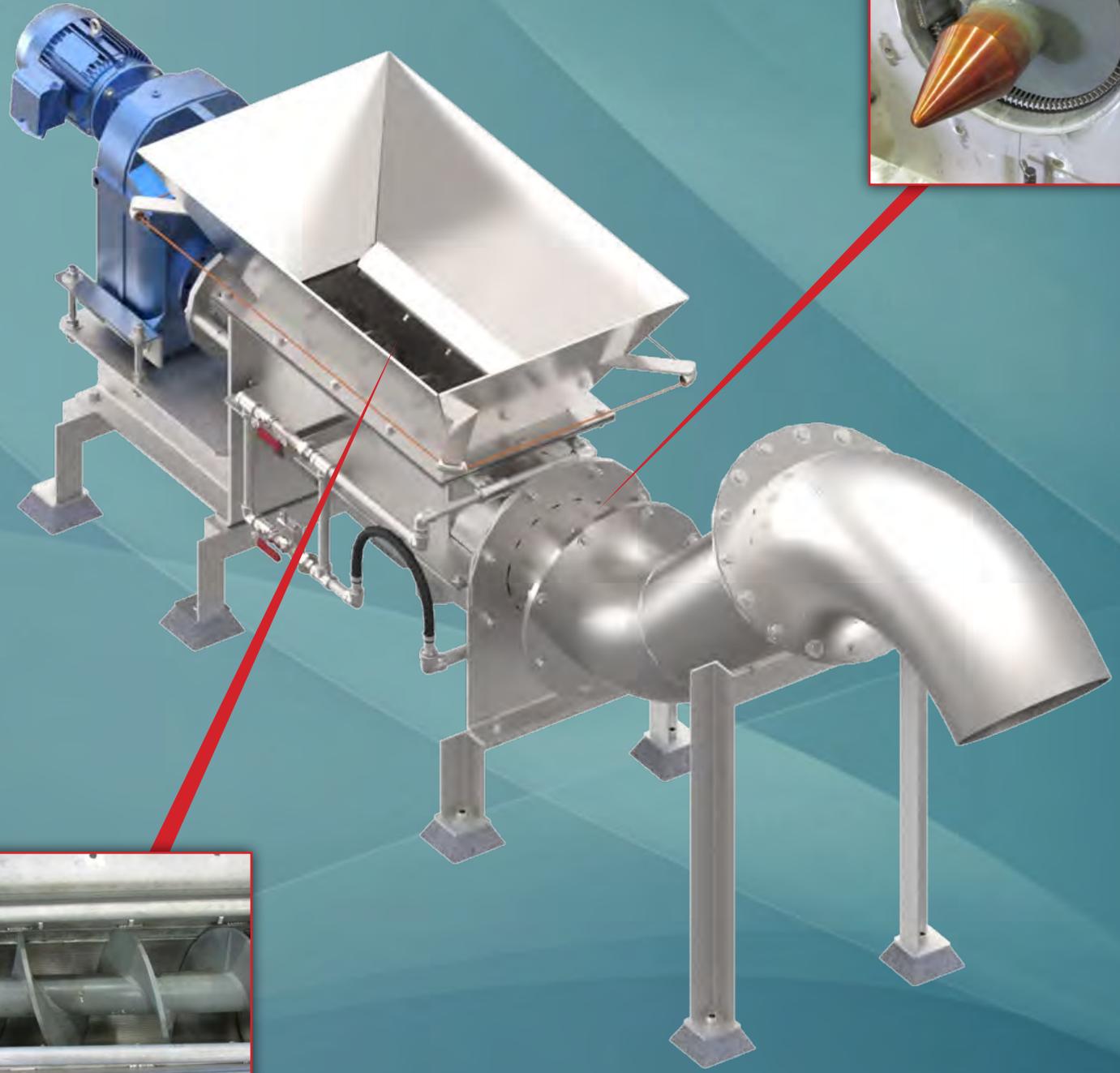
JIM MYERS & SONS, INC.



Delta-COMPACTOR
Screening Compactor

Proven ... Process ... Performance

Bullet Nose



Cantilevered Screw

J I M M Y E R S & S O N S , I N C .



Since being established in 1962, Jim Myers & Sons, Inc. (JMS) has grown continually and today is recognized as one of the nation's leading designers and manufacturers of water and wastewater treatment equipment and systems. We have reached this point by incorporating equal parts innovation, quality and reliability into every component bearing the JMS name. We maintain that leadership position through one of the most comprehensive, solution-driven product offerings available.



Utilizing the latest software for BIM-compliant mechanical and structural design with commercial and proprietary analysis programs, our professional engineering staff makes concepts reality by providing solutions to complex problems.



True to our roots, our 72,000 sq. ft. Charlotte facility is the site for all fabrication, manufacturing, machining, and testing. There, the JMS commitment to excellence, a part of our DNA, manifests itself every day with the promise to continue for generations to come.



Delta-COMPACTOR
Screening Compactor

Proven ... Process ... Performance

It is not possible to sum up in a few words what has taken better than half a century to achieve, but these three come the closest. Our Delta-COMPACTOR (Screening Compactor) design is already **proven** in applications throughout the U.S. and abroad. JMS in-depth knowledge of both the water and wastewater treatment markets allows us to fully understand your **process** and provide solutions like the Delta-COMPACTOR, solutions designed with operational efficiency in mind. Like all JMS products, our Delta-COMPACTOR offers an unsurpassed level of **performance** geared around the longest possible component life and the lowest maintenance demands of any comparable system.

Just three words: Proven, Process, Performance, speak volumes. JMS has the answers you want, the solutions you need, and the support you deserve.



Gurnee, IL Delta-COMPACTOR Installation

Increasing Solids and Success

At wastewater treatment plants the need for the reduction of both the volume and weight of headworks screenings is a key design element, and a significant factor in plant operational costs. Screenings washer compactors are designed to meet this need under challenging conditions. The material characteristics of screenings from coarse or fine mechanical screens can vary significantly. The loose material contains various solids, organics and substantial amounts of water. Screenings washer compactors are designed to receive screenings from primary screening equipment, a conveyor, or sluice trough. Varying in design, they all use a compacting screw mechanism to wash and dewater screenings. This results in reduced organics content, volume, and weight resulting in a substantial reduction in hauling and landfill costs.

Delta-COMPACTOR Solids Testing

Pre-Compactor Solids		
Analysis	Method	Result Units
Total Solids	EPA 160.3	11.8%
Post-Compactor Solids		
Analysis	Method	Result Units
Total Solids	EPA 160.3	66.2%

shows the Delta-COMPACTOR increasing solids content by over 5x.

Decades of Design

JMS has been designing and manufacturing the Delta-COMPACTOR (Screening Compactor) for decades and has installations nationwide for both coarse and fine screenings applications. Over the years, the JMS design has evolved into a robust and functional system utilizing key design components that are proven to lower both initial capital and long-term operational costs. JMS heavy duty variable pitch compacting screw, stainless steel profile bar screen, and dual spray wash headers work together to reduce organics, dewater, compact, and convey high solids material for disposal.



Greenville, SC Delta-COMPACTOR Installation

Advantages: Delta-COMPACTOR

Process Advantages

- Close tolerance between the screw and wedge wire screen promotes self-cleaning, no troublesome brushes
- Stainless steel profile bar screen is sized for your specific application, increasing efficiency
- Volume reduction of up to 5:1 reduces disposal costs and effort
- Dual spray bars remove undesirable organics and reduce odors
- Long engagement design maintains screw position and strength for trouble-free operation

Experience Advantages

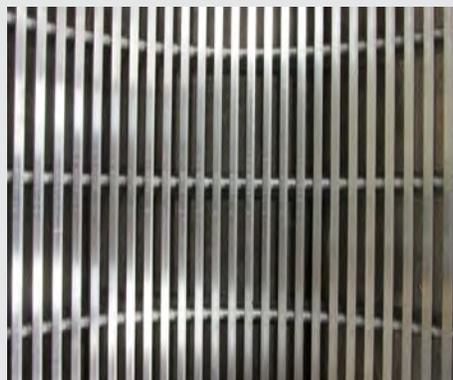
- Based on decades of experience JMS has pioneered specific design elements to increase system longevity
- JMS can supply single compactors or integrated material handling systems
- Design and project management expertise
- JMS Delta-COMPACTORS are in service nationwide

The Pressure's On

Within the housing of the Delta-COMPACTOR the processes of organics reduction, dewatering, compacting, and conveyance are initiated. JMS has pioneered upgrades in this area to ensure trouble free performance. A 0.25" thick shell houses a variable pitch cantilevered screw that supplies compaction power and consistent feed to the compaction zone. To maintain screw alignment, a heavy duty hollow shaft gear reducer provides extended shaft engagement into the screw's pipe shaft. A bullet nose on the end of the screw also helps maintain alignment. Independent radial and thrust bearings with tension bars are designed to keep excessive back pressure from the compaction process from impacting the gearmotor. The JMS adjustable alignment feature is provided to adjust and maintain alignment of the screw at the gearmotor end.

Washing Up

The Delta-COMPACTOR receives screenings directly from a bar screen, belt or screw conveyor, or sluice trough. In this zone organics removal and dewatering take place. Individual profile bars that are custom sized for coarse or fine screen applications, allow liquid with high organics content to pass into a catchment tray and on to the drain. This tray is removable for visual inspection and access to the wedgewire. Dual spray wash headers also aid in organics removal. Special JMS features that keep the screw aligned also allow for fine tolerance spacing between the screw and wedge wire profile bar screen. This close tolerance, along with the dual spray headers, keep the screen clean, eliminating the need for brushes. Typically, up to 90% organics removal and up to 80% reduction in volume are achieved.



Delta-COMPACTOR JMS coarse screen (left) and fine screen (right)



Success Stories

Evansville, Indiana was founded in 1812 on a scenic bend in the Ohio River. With more than 350,000 residents in the metropolitan area, it is the third largest city in Indiana and an economic hub for the region. To serve the area, a vast system consisting of over 500 miles of sanitary sewers supplies two wastewater treatment plants, the East and West Plants.

Solids removal and handling is an important consideration in both plants. Installations of competitive Washer Compactor equipment had not been successful for the East Plant, so they turned to JMS for a solution. Two JMS Delta-COMPACTOR screening washer compactors were installed to receive screenings, and discharge high solids material for disposal.

Results over the past five years have been a demonstration of JMS equipment performance versus the competition. The Plant Manager, Joe Dickman is happy with both his relationship with JMS and the Delta-COMPACTORS supplied. He is very pleased that the new compactors just keep running, with no clogging issues. The city of Evansville was so satisfied with the JMS equipment, they have installed an additional Delta-COMPACTOR at the city's West WWTP.



System Integration

In addition to Delta-COMPACTOR (Screening Compactor), JMS expertise extends to a host of other products and systems listed at right. Having such a broad and varied range of experience means your water and wastewater needs, whether individual component or full system, are understood. Optimized efficiency and process performance are yours for the asking. **Contact JMS today.**



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Your JMS Sales Representative:

"Making a Difference for Generations"