

The name you may not know
behind the technology you already trust.



Recently, Charter Machine Company acquired the rights to Roediger Pittsburgh. Today we offer the same exceptional equipment and service under our own name, Charter Machine Company.

Now you can be sure that the name on your equipment is the company that built it – and stands behind it.

Custom solutions.

Sludge differs, and so do the facilities that handle it. Charter Machine Company offers custom solutions designed to your needs, whether it be non-corroding stainless steel frames or mobile dewatering solutions. Because we manufacture our own equipment, we're able to make modifications so the equipment you order is perfectly suited to your operation.

Parts ready to ship.

Occasionally our equipment will need servicing. When the time comes, getting the right parts won't take long. At Charter Machine Company, we maintain a complete inventory of replacement parts, all ready for immediate shipping.

Answering the call.

Charter Machine Company is always by your side. Our staff of expert technicians assists you from sludge testing to equipment start up to troubleshooting. When you have questions, we have answers.



Proven Solutions in Biosolids Treatment

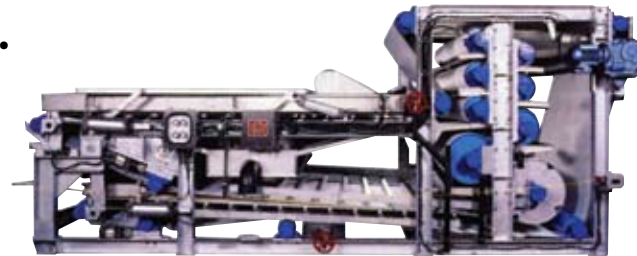


55 Wester Avenue • Metuchen, New Jersey 08840
732-494-5350 • FAX 732-494-4596 • www.chartermachine.com

Bringing innovation to sludge dewatering.

TOWER™ PRESS: HIGH SOLIDS, LOW MAINTENANCE.

A lot of companies offer a belt filter press, but only Charter Machine Company offers the Tower Press. Its innovative design is leaps and bounds ahead of the industry, resulting in high cake solids, improved capture rate and excellent throughput.



Center pivot, fewer hassles.

The Tower Press features a revolutionary center pivot design that is user friendly and easier on belts. The unique center pivot design improves belt alignment by adjusting both sides of the belt simultaneously for quicker performance over the life of the belt.

Maximum dryness.

Vertically aligned pressure rollers assure maximum cake dryness to minimize hauling and land fill fees. The Charter Machine patented stainless steel drip pan design, positioned under each roller prevents re-wetting of the cake, keeping moisture content to a minimum.

Performance is in the details.

The gravity deck is positioned at eye level, allowing for accurate visual adjustments without the costly addition of catwalks, steps or risers around the Tower Press. Available in 1.2, 1.7 or 2.2-meter units, the Tower Press features an elevated discharge that is over six feet from the base of the press allowing for easier design and access to conveying equipment. Pneumatically operated doctor blades and plow lift assembly reduces labor and wash-down time. Tower Press units are also available in a short-deck version where space is a premium.

TP7.4 TOWER™ PRESS: SMALLER CAPACITY, BIG CAPABILITIES.



The TP7.4 Tower Press functions just like our Tower Press, but requires less space. It allows smaller facilities that have the same problems as larger plants, to have the same center-pivot design, same vertical arrangement of rollers and same individual drip pans. All TP7.4 units are customized with a rotating gravity zone for smaller footprints. This .7-meter unit is also available in our 15-roll Regent model.

REGENT™ PRESS 15 ROLL: EVERY LITTLE BIT COUNTS.

Our Regent Press 15 Roll is an enlarged version of the Tower Press. Seven additional rollers (15 total) provide more retention time, allowing for additional shearing and pressure. Depending on the solids processed, this could increase cake solids by 2 to 5 percent.

Built to last.



Like our standard Tower Press, the Regent models are equipped with 1-piece solid pillow block bearing housings, self-aligning double row spherical bearings, with a quadruple lip seal. The bearing housings are machined in-house for total quality control and coated with a 2-part epoxy base primer with 4 mil thickness and 2 finish coats of 2-part epoxy at 4 mil per coat dry film thickness.



All three sizes of the Regent Press include the same user-friendly features found in our Tower Press, such as; center pivot, adjustable wedge zone, filtrate recycling option, high discharge and our patented pneumatically operated doctor blade and plow lift designs.

LIME POST TREATMENT MODULE™: FOR EVEN DRIER SOLIDS.



When it comes to sludge, dryer is better; and that is precisely what the Charter Machine Company Lime Post Treatment Modules achieve. By adding an alkaline additive or kiln dust to sludge after initial processing, the Lime Post Treatment Modules further de-waters it, creating a dry, crumbly lime-sludge mixture that will not clog equipment and is easy to haul to land fills or spread on farm land.

Lose water, save money.

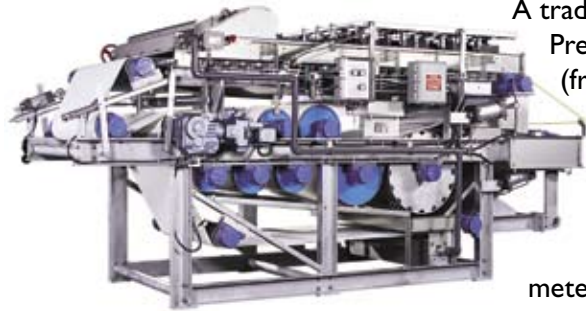
The Lime Post Treatment Modules saves money by using less lime than comparable treatment. Plus its reversible conveyor allows you to by-pass the unit completely if it is not needed. The RM450 Lime Post Treatment Module can handle 42,000 pounds of sludge per hour.

Versatility for maximum utility.

The Lime Post Treatment Modules are available in 4 sizes – RM150, RM240, RM350 and the RM45 – to accommodate any application. Lime Post Treatment Modules can be added to existing equipment at current facilities.

More choices with fewer compromises for sludge thickening.

HORIZONTAL UNIT™: TRADITION AND PERFORMANCE.



A traditional horizontal-style belt filter press. Like our Tower Press and Regent Press models, the moment of inertia (frame strength), safety factors and deflections on the horizontal models are among the highest rated in the industry.

Horizontal Belt Filter Presses are also offered in the short-deck option and are available in 1.2, 1.7 and 2.2 meter sizes. As on all of our belt filter press models, the standard frame is precision drilled and hot-dipped galvanized.

ROEDOS™ POLYMER SYSTEMS: GET THICKER, QUICKER.

Polymer selection is one of the most important decisions in assuring the proper performance of any belt filter press. Charter offers sludge sample testing to assist toward that goal.

One size does not fit all.

Charter Machine offers both dry and emulsion polymer systems. Our most popular units are the L-1 system (shown) and the L-2 system, which are utilized with emulsion polymers. The range of polymer systems necessary to accommodate every facility's application is lengthy. Charter can design and customize the polymer system to meet any client's requirements.



3-BELT PRESS™: TWO IN ONE SLUDGE PROCESSING.

For plants with limited space or dealing with sludge volume that exceeds the capabilities of a traditional belt filter press, Charter Machine Company suggests our 3-Belt Press. It is a gravity belt thickener and belt filter press combined into a single unit.



Sizes and speeds to meet your needs.

Available with 1.2, 1.7 or 2.2-meter width belts, the 3-Belt Press features an independent gravity deck with its own variable speed belt-drive to accommodate higher feed rates on the gravity deck. The Belt Filter Press wedge zone and pressure sections are allowed to maintain a slower belt speed, thus maximizing the units de-watering capability for the driest cake possible.

Small package, big results.

A 3-Belt Press eliminates the need for a separate gravity belt thickener, but can still be outfitted with the option of running the unit as a thickener only. By allowing this option along with the belt filter press feature, it provides great versatility to the facility while reducing the demand for floor space.

Designed to perform.

The 3-Belt unit is excellent for handling thin sludges in one operation, but can be very efficient with various sludge types. In addition to wastewater treatment and water plant facilities, the 3-belt unit is extremely cost effective for many industrial accounts due to its versatility.

CUSTOM CONTROL PANELS

At Charter Machine Company we manufacture all of our equipment, including our control panels. By manufacturing each component in-house, we can be sure it meets our high standards for performance and reliability.



Sludge treatment solutions from A to Z.

GRAVITY BELT THICKENER™: EFFECTIVE, AFFORDABLE.

The Gravity Belt Thickener is a highly effective tool for de-watering. It operates quietly at a minimal cost, consuming a low volume of wash water. Sludge is flocculated by the use of polymers, introduced on the belt and the released water is drained through the gravity belt. While the process is simple, the decrease in sludge volume is impressive.

Built better so it works better.

The Charter Gravity Belt Thickener offers more than results. It delivers ease and dependability. The center-pivot steering system reduces belt stretching, providing longer and more consistent performance. The machine also incorporates 11 rows of plows for increased throughput and thickening. There is even a pneumatic plow lift, for easy operation and cleanup. The solid pillow block, quadruple sealed bearing cases that reduce maintenance cost and down time are guaranteed for life. It is all there, built into a ridged non-corroding frame. The Gravity Belt Thickener is available in 1.2, 1.7, 2.2 and 3.2-meter units.



CMC SLUDGE BAGGER™: THE ALL IN ONE SOLUTION.

The Sludge Bagger is a self-contained de-watering system. This economical, simple to operate and easy to maintain option effectively de-waters challenging municipal or industrial sludges, eliminating the need for drying beds or more costly alternatives. Assorted sizes are available.

ROEFILT™ SIEVE DRUM CONCENTRATORS: DRUM SPUN THICKENING.

A sieve drum concentrator accomplishes the same task as a gravity belt thickener, but uses a different method. The sludge is still flocculated with polymers, but this process releases the drained water through a rotating filter drum rather than onto a gravity belt.

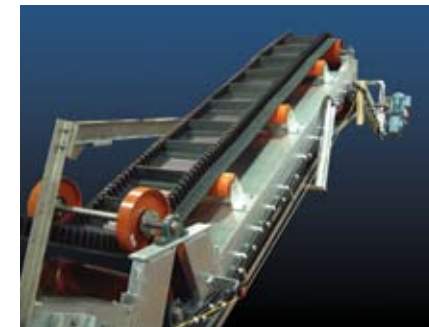
Efficient and effective performance.

The Sieve drum concentrator process significantly decreases sludge volume and creates a clear filtrate with low energy, polymer and wash water consumption. Available in three sizes – SDC45, SDC90 and SDC180.



CONVEYOR OPTIONS: COMPLETE SOLUTIONS FROM A SINGLE SOURCE.

Charter Machine offers customers a complete, consolidated solution to their sludge processing needs. In addition to designing and building high quality, cost-effective, user-friendly sludge processing equipment, Charter Machine Company also builds and delivers conveyor systems if desired. Conveyors are built to specifications and can be customized to your exact needs, providing total system responsibility.



- Charter Machine Company equipment is available as mobile units to further meet any of your dewatering needs.
- There is a stainless steel option available on all Charter Machine Company models.
- Charter Machine Company offers design assistance concerning their entire line of products.