

# Tower Press™:

Go from sludge to cake,  
faster, easier and drier  
than ever before.



Represented by



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# Tower Press™ does everything a belt filter press can do – only better.

Higher cake solids. Improved capture rates and throughput. Better performance. Together, they add up to greater efficiency at a lower cost of operation, making the Tower Press the world's number one belt filter press for municipal and industrial applications.

## What sets Tower Press apart? Everything, but here's what treatment plants like best:

### Stacked Pressure Rollers

The improved design begins with the pressure rollers. With Tower Press, the pressure rollers are aligned vertically. This guarantees maximum high cake dryness, which in turn minimizes hauling costs and landfill fees.

### Individual Drain Pans

Non-corroding, stainless steel drain pans are positioned at each roller to prevent any rewetting of the preceding sludge cake.

### Elevated Discharge

Tower Press features an elevated discharge that's more than 6-feet off the floor, making it simpler to add ancillary equipment for further processing.

### Pneumatic Belt Tensioning

Our pneumatic Belt Tensioning maintains consistent and even tension on the belt at all times for smooth operation and long belt life.



The Regent™ Press 15 Roll offers the same features as the Tower Press, but with increased cake solids.

### Center Pivot Tracking

The unique center-pivot design improves belt alignment by adjusting both sides of the belt simultaneously.

### One Piece Bearings

Tower Press uses one-piece pillow-block bearings with a gasketed end-cap and self-aligning double-row spherical-roller and quadruple lips.



### Multiple Sizes

Tower Press is sized to fit your needs. It's available with a 1.2, 1.7 or 2.2-meter belt.

## How it works is innovative. How it performs is amazing.

Over the years, Tower Press has evolved in direct response to operator suggestions that have made it a better and easier to operate dewatering system.

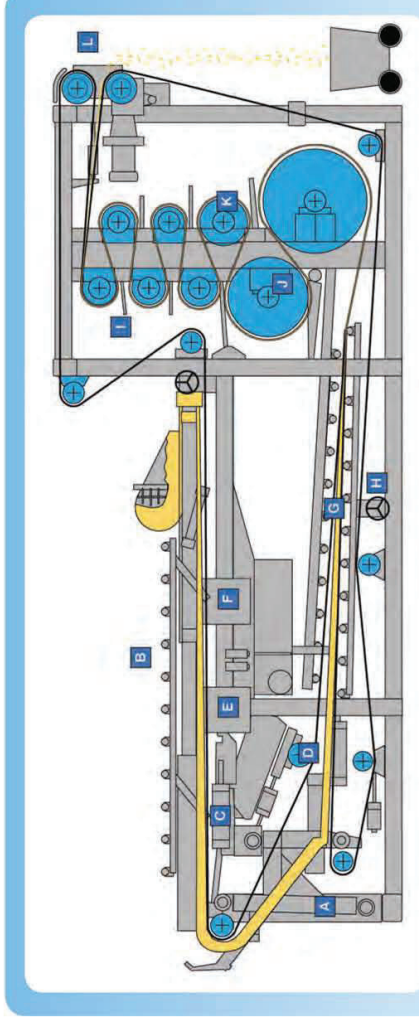
- The Tower Press easy maintenance, "hands-off" design reduces manpower hours and therefore overall operations costs.
- The entire dewatering process may be observed from ground level, reducing plant design and construction costs.

- Doctor blades and plows are pneumatically actuated for easier operation and cleaning. Only the Tower Press offers this exclusive feature.

- Center pivot tracking rolls eliminate one-side belt stretch and deliver quicker response to belt misalignment.

- Rigid tensioning assembly adjusts belt tensions with parallel movement.

- Optional filtrate recycle eliminates the need to use plant water to clean filter belts.



- A. Pneumatically controlled rigid tensioning assembly adjusts tension with parallel movement for longer belt life.
- B. Pneumatically actuated plows lift up and off the belt for easier, safer cleaning. This means no more problems with jam-ups.
- C. Pneumatic actuation eliminates dangers of contamination from leaks, assures long life and facilitates smoother operation.
- D. Center-pivot steering delivers continuous fast response to belt misalignment while minimizing belt stretch.
- E. Pneumatic control station provides easy access to all controls.
- F. Junction box/local control panel.
- G. Fully adjustable wedge zone.
- H. Internal brush belt wash system is designed for non-clogging belt spray cleaning.
- I. Drip pans under each roller eliminate rewetting of preceding sludge cake.
- J. Rollers are arranged vertically for more efficient pressure dewatering with individual drip pans to prevent rewetting the sludge cake.
- K. Each roller in the pressure section features a 205° minimum wrap for maximum efficiency and drying.
- L. High discharge facilitates easier installation of conveyors and lime post treatment equipment without the need for high foundations sumps.



The Model TP7.4 Tower™ Press uses a drum instead of a gravity deck to minimize its footprint. This provides smaller plants with the same high performance dewatering results as larger presses, but for almost half the cost.



www.chartermachine.com

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

You know our products, but you've never heard our name. After nearly forty years, we felt it was time we met. We're Charter Machine Company, and for years we've manufactured and serviced the best designed and finest performing sludge thickening and dewatering equipment under the Roediger Pittsburgh name.

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.



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