

# HYDROTEC®



## HydroTec® Tank Systems: If it's water, wastewater or industrial liquids, we've got it covered.

HydroTec® tank systems from CST Storage (formerly Columbian TecTank) are the comprehensive storage solution for any fluid. They are recognized as the industry standard and are specified by the largest engineering firms in the world.

HydroTec tank systems offer experienced, fast and economical construction with a proven track record of storage success. With over 150,000 tanks in 125 countries performing in thousands of applications, no other company can match CST Storage's design, manufacturing and construction experience.

**CST**  
**STORAGE™**

A Division of CST Industries, Inc.


# Designed, manufactured and constructed fast for your specific needs

Need a tank that's going to provide premium storage service with low maintenance, and need it now? A HydroTec tank system can be manufactured, erected and in operation up to three times faster than field welded or concrete applications.

HydroTec tank systems are engineered and fabricated to satisfy your unique specifications. CST Storage (CST) utilizes our own professional engineers who have designed tanks for a wide range of industry specific standards and applications. They are committed to recommending the right HydroTec tank solution for your application.

Every HydroTec tank is manufactured in a factory-controlled environment. The result is precise steel panel production teamed with an optimized coating process. CST has invested millions in a completely modernized and automated fabrication line in its ISO 9001 certified facility. This state-of-the-art operation delivers the best epoxy coated steel tanks available in the market.

**HydroTec tank systems are engineered and fabricated for a wide variety of liquid applications, including:**

WATER	WASTEWATER	INDUSTRIAL LIQUIDS & CHEMICALS	
Potable Water	Flow Equalization	Fertilizer	
Raw Water Storage	Primary & Secondary Sedimentation	Resins	
Flocculation	Aeration	Insecticides	
Filtration	Trickling Filters	Polymers	
Sludge Storage	Anaerobic & Aerobic Digestion	Food Additives	
Disinfection	Sludge Storage	Asphalt	
	Fire Protection	Glycols	
		Leachate	Lubricants
		Storm Water Run-off	Lime & Carbonate Slurry
		Frac Water	Secondary Containment
			Edible Oils
			Paints & Primers
			Detergents
		Fuel Oils	
		Mining Fluids & Slurry	
		De-icer	
		Dyes & Pigments	
		Pulp & Paper Processing	



## High quality at the lowest cost per gallon

After over 100 years of storage solution success, CST has perfected its tanks to be the most economical choice in water and industrial liquid storage without skimping on tank value and durability.

- ▼ Low installed up-front costs:
  - ◆ The fastest construction available
  - ◆ Can be constructed in all weather types without the typical delays common with other technologies
- ▼ Longer tank life = lower life cycle costs = quicker ROI:
  - ◆ High-quality and durable coatings extend tank life and limit operating maintenance costs
  - ◆ The strongest corrosion and abrasion resistance on the epoxy coated market
- ▼ HydroTec tank systems are the "Green" choice in liquid storage:
  - ◆ No in-field painting or re-painting eliminates harmful silica from sand blasting and paint overspray
  - ◆ Minimized construction footprint protects surrounding environment





# Superior coating technology with proven performance

## The CST OptiBond™ Coating System

CST Storage utilizes proprietary coating technology that provides maximum corrosion resistance and long tank life. Our experience has led to continuous technology and process improvements. The result is the finest epoxy coating available in the liquid tank industry. The OptiBond™ coating system is derived from years of in-field experience and performance data.

### CLEANING

#### Stage 1:

- ▼ Parts are degreased and rinsed
- ▼ Precisely controlled hot air drying and pre-heating at optimum temperature for a precision coating process

#### Stage 2:

- ▼ Parts surfaces are blasted with engineered grit material
- ▼ Rugged 3-D surface topography is created for better powder coating acceptance, increasing durability and long-term coating performance
- ▼ A high velocity air curtain removes residual particulate



### COATING

#### Stage 3:

- ▼ Parts are powder coated in our proprietary Trico Bond EP electrostatic booth with precise environmental controls
- ▼ Parts are cured at controlled temperature to maximize the cross-link bonding of the epoxy particles

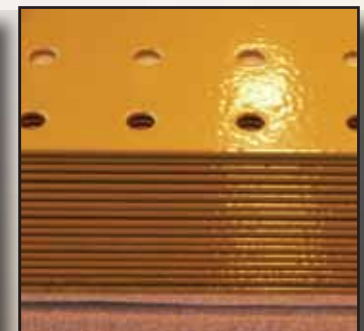
#### Stage 4:

- ▼ Uniquely engineered polyurethane topcoat is applied for UV protection on exterior surfaces for extra durability and longevity
- ▼ Sheets are cured at controlled temperature, yielding the final product



### QUALITY CONTROL

Parts are subjected to a rigorous quality control evaluation with a high voltage defect testing procedure. This will identify any holidays, inclusions and thin areas in the coating. *No other company has a higher process and quality control standard than CST Storage.*



## HydroTec Specification Options

MATERIAL OPTIONS	CAPACITY SPECIFICATIONS	BOTTOM OPTIONS	HARDWARE SPECIFICATIONS
<ul style="list-style-type: none"> <li>Factory-coated carbon steel</li> </ul>	<ul style="list-style-type: none"> <li>Standard diameters available from 9' (2.8m) to 148' (45m)</li> </ul>	Steel <ul style="list-style-type: none"> <li>Flat</li> <li>1:12 sloped</li> <li>Drop Bottom™</li> </ul>	<ul style="list-style-type: none"> <li>Hot-dipped galvanized</li> </ul>
<ul style="list-style-type: none"> <li>Galvanized steel</li> </ul>	<ul style="list-style-type: none"> <li>Factory welded diameters from 6' to 15'</li> </ul>		<ul style="list-style-type: none"> <li>Encapsulated nuts and bolts available</li> </ul>
<ul style="list-style-type: none"> <li>Stainless steel</li> </ul>	<ul style="list-style-type: none"> <li>Standard designs: AWWA D103-09, NFPA, API, NSF</li> </ul>	Concrete <ul style="list-style-type: none"> <li>Embedded starter ring used</li> </ul>	<ul style="list-style-type: none"> <li>EPDM gaskets standard</li> </ul>
<ul style="list-style-type: none"> <li>Aluminum</li> </ul>	<ul style="list-style-type: none"> <li>Standard tank capacities range from 4,000 to 3 million US gallons (15 m<sup>3</sup> to 11,000 m<sup>3</sup>)</li> <li>Large capacity tanks available</li> </ul>		<ul style="list-style-type: none"> <li>Specialty gaskets available for high temperatures or special contents</li> </ul>

## HydroTec from CST Storage

CST Storage is the global market leader in pre-engineered and pre-fabricated storage tanks for liquid and dry bulk applications. Committed to delivering worry-free solutions, CST Storage is the original innovator and model for all other steel tank companies. No other company can match CST Storage's worldwide experience in design, manufacturing and construction of bolted steel tanks. You can count on CST Storage to be your partner throughout the entire process from specification to quality construction to service.

New process technologies, effective designs and investments in new equipment have raised the CST Storage product offering to a new level. Combine that with experienced and dedicated people, at CST Storage you get more than just a tank. You get field-proven storage solutions and committed service that is right for your specific needs.



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