



**We Give Wastewater Plant
Operators a Big Lift.**



Leave the heavy lifting to us.
www.thern.com

Thern Cranes and Winches Keep Things Moving in the Water and Wastewater Industry.

Water and wastewater treatment plants have an endless variety of lifting, hoisting, pulling and positioning needs. From lifting submersible pumps and mixers, to raising filter screens and positioning hopper cars, Thern provides the right equipment to get the job done.

Thern offers both power and versatility with portable and permanent davit cranes as well as hand and power winches, available with capacities from 50 lbs. to 50 tons. Like all Thern products, they're made to meet the conditions of their particular environment with corrosion-resistant finishes or stainless steel construction.



Series 5122
portable crane, shown in powder
coat finish, folded for transport.

Crane bases installed in truck beds provide added portability for maintenance applications.



Raising and Lowering Mixers

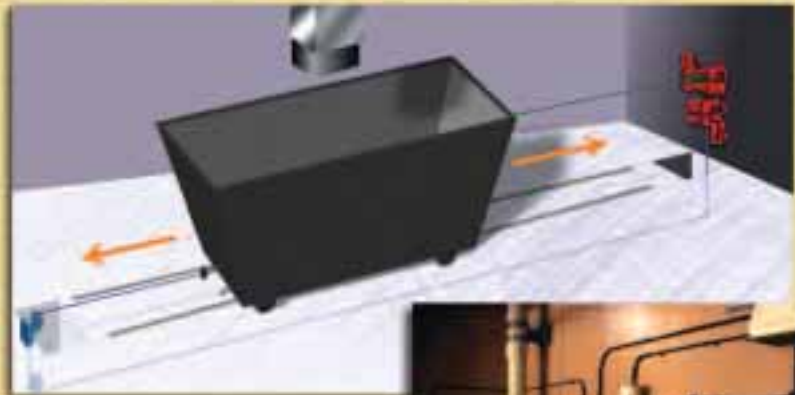
Our Fre Rol davit cranes provide the stability needed for lifting larger loads through long distances. Fre Rol cranes are designed for permanent installation to solid foundations. This Fre Rol crane allows you to position the mixer at any point along its track.

A secondary tie-off system secures it in place. Large load capabilities, an adjustable boom for extended lift heights, and 360° mast rotation, give you the ability to remove mixers for maintenance when needed. Hand or power operated, with spur gear or worm gear hand winches or AC electric winches. All models include brakes for load control. 12 volt DC, hydraulic, or pneumatic models available. Standard enamel or epoxy finishes also available for corrosion resistance.



Positioning Sludge Hoppers

Two Thern Power Winches are used to pull a sludge hopper car into position below a chute and move it back and forth as the car is filled with waste materials. One winch retrieves the car after the waste is emptied. Another winch, equipped with a longer drum for greater cable capacity, will deliver the car full of waste for disposal. Both winches are equipped with manual clutches for free spooling of the cable to load for attachment. An available control package allows both winches to be operated simultaneously with pay in/out capabilities. Winches modified with a special corrosion resistant finish.



Portable Lifting for Multiple Workstations.

Our portable davit cranes are a cost effective solution for water/wastewater treatment plants where powerful lifting is required at multiple workstations.

Independent Bases installed at each workstation allow operators to move cranes quickly and easily for robust lifting wherever it's needed.

Quick Disconnect Anchor for quickly attaching or removing the cable from the crane leaving it hooked to the load. This is especially useful in handling submerged pumps.

Adjustable Booms allow you to extend reach and height to meet different lifting needs and position loads accurately.

Hand or Power Winches are available for each crane model.

Stainless Steel Construction, Powder Coat, Galvanized or Epoxy Finishes provide superior corrosion resistance in harsh environments.

Custom Cranes with modified reaches or heights, special finishes, AC, DC, air or hydraulic powered winches.



Series 5122
Portable crane for lifting up to 500 lbs. Shown with stainless steel finish and zinc plated spur gear hand winch.

Series 5110
Portable crane for lifting up to 1000 lbs. shown with galvanized finish and zinc plated spur gear hand winch.



Series 5124
Portable davit crane for lifting up to 2000 lbs. Shown with powder coat finish, worm gear hand winch, and upright base. Shown here with adjustable boom in and out.

Permanent Power and Stability for Larger Loads.

We also offer Fre Rol davit cranes that are ideal when the stability of permanent installation to a solid foundation is necessary for lifting large loads through long distances.

Gusset Style Bases for permanent installation and stability under load.

Adjustable Boom Option allows you to meet different lifting needs and position loads accurately.

Mast and Boom Rotate on tapered roller bearings for smooth 360° load movement. Mast locks in one of four positions with hand-tightened lock bolt. Mast handle makes rotation easy.

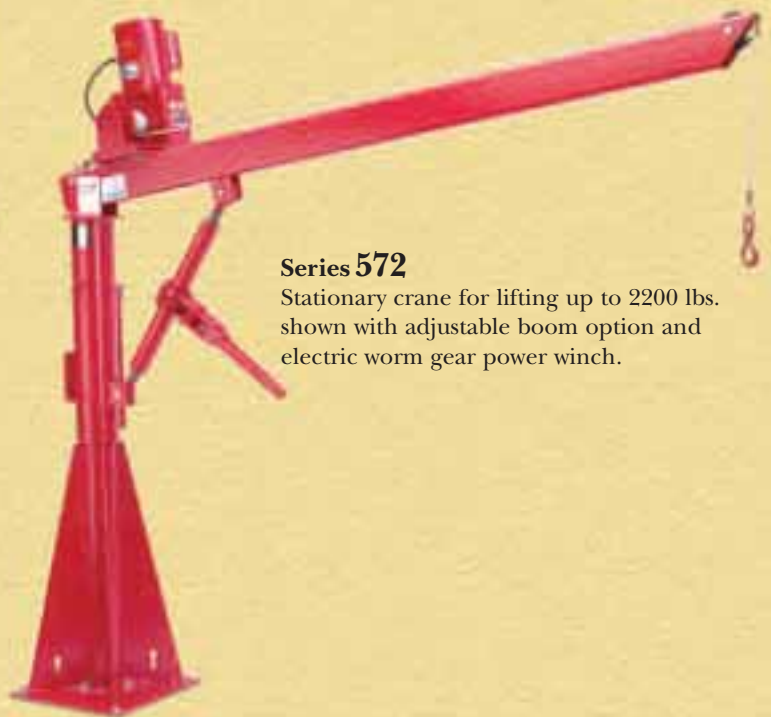
Hand or Power Winches are available for each crane model.

Enamel or Epoxy Finish available for increased protection against corrosion.

Custom Cranes with modified reaches or heights, special finishes, AC, DC, air or hydraulic powered winches.



Series 571
Stationary crane for lifting up to 1500 lbs. Shown with fixed boom and worm gear hand winch.



Series 572
Stationary crane for lifting up to 2200 lbs. shown with adjustable boom option and electric worm gear power winch.

Optional Crane Features

(Bases, winches, optional equipment)

Covering All the Bases.

Multiple base options are available for each of our portable cranes. Independent bases are sold separately and are available in all finishes. Pedestal, wall, socket style, and roll bases allow operators to easily move cranes from one base to the next. Crane bases can also be installed in truck beds for maintenance applications.



Pedestal Style Bases
Mount upright on top of a horizontal surface.



Socket Style Bases
Mounted flush with a horizontal surface.



Wall Mount Bases
Mount on vertical surfaces.



Roll Bases
Allow our davit cranes to operate as portable floor cranes. Base legs adjust in length and width.

Portability Made Easy.

Crane disassembles for portability.



Steps for Crane Assembly:

- 1 Place mast in base
 - 2 Attach the boom
 - 3 Attach ratchet jack and rotation handle
 - 4 Insert boom extension
 - 5 Install wire rope and anchor to winch with quick disconnect anchor
- Reverse for disassembly

Which Winch is Which?

We provide a variety of hand and power winches designed and built to provide years of reliable service. Our winches are recognized around the world for their superior quality, performance and value. We offer a broad range of ready-to-order winches for typical uses or can easily work with you to create a customized winch for your unique application.

Stainless Steel Construction or Marine Grade Finishes provide long lasting corrosion resistance in even the harshest environments.

Durable Machine Cut Gears for accurate and long lasting performance.

Brakes are included on all models for positive load control during lifting and lowering operations.

Large Diameter Drums minimize wear to wire rope assemblies and help extend their life.



Zinc and Iridescent Dichromate Plated
Spur gear hand winches for lifting. Includes brake.



Stainless Steel
Spur gear hand winches for lifting. Includes brake.



Worm Gear Hand Winches
Drill drivable. Includes internal mechanical brake.



Electric Worm Gear Power Winches
Includes internal mechanical brake. AC, DC, air and hydraulic power options available.

Optional Accessories.



Wire Rope Assemblies
In galvanized or stainless steel, with different length and hook configurations for use with Thern winches and cranes.



RW50
Ratcheted stainless steel storage spool for wind up of unloaded wire rope.



Cable Keeper
Wire rope keeper attaches to base or other structure to hold free end of the wire rope when detached from crane.



Base Covers
Plastic base cover fits over the hole in crane bases to prevent water from collecting inside when crane is not in use.

Thern Heavy-Duty Winches and Cranes Are Becoming the Load Handling Solution for Many Different Industries.

The same power and reliable performance that makes Thern winches and cranes the best choice for wastewater applications, makes them equally in demand for the tough jobs in other industries such as construction, mining, processing, manufacturing and other areas where very heavy loads must be lifted or pulled. With nearly 60 years of varied experience and continuous research, development and testing, Thern winches and cranes have established a worldwide reputation for toughness, versatility and reliability.



Leave the heavy lifting to us.

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