

# AUTOMATED TANK CLEANING



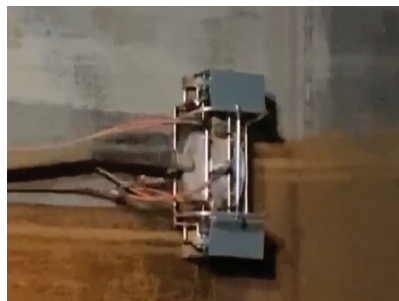
**CUSTOM-ENGINEERED • SAFE • EFFECTIVE**

## **SPECIALTY AUTOMATED TANK CLEANING**

### **for Crude, Slop, Slurry and Other Oil Tanks**

Thompson Industrial Services' tank cleaning division is the trusted choice for automated tank cleaning. Renowned for their expertise, safety and efficiency, our team custom-engineers every tank cleaning job with advanced automated equipment to maximize safety and cost-savings for our clients.

Thompson is committed to providing the safest and the most cost-effective solutions for the industry's most difficult cleaning and environmental challenges in tank cleaning. We serve the oil & gas, energy, pulp & paper, chemical and petrochemical industries with custom-engineered solutions specific to our client's particular tank with **specialized robotic tank cleaning, de-inventorying and solids-separation services.**



### **Two- or Three-Phase Centrifuge**

Separate liquids and solids (two-phase) or oil, water and solids (three-phase). This allows for the recovery of oil and efficient removal of solids.

### **Filter Press**

Sludge separation through plate and frame filter presses to minimize the quantity of water held in the solid, hence reducing disposal costs.

### **R.O.C.**

#### **Remote-Operated Crawler**

Strips pipes, inside and outside of tanks, and even rubber linings 100% remotely.

## **BENEFITS**

- Extremely safe, no entry required keeps personnel out of harms way (no risk of water cut injuries)
- Remotely operated technology is highly efficient saving you time and cost
- No scaffolding or manway entry cutting required
- Access to vast, completely customizable lines of automated equipment
- Engineered and operated by expert personnel, with decades of experience.



## Advanced Line of Equipment to Service Any Tank

### SRS (Solids Reduction System)

- This technology simultaneously fluidizes and extracts waste material through any valve 6 inches or larger with no tank entry required
- Waste material can be drawn from the tank in minutes
- Double block valve with packing gland for leak protection
- Self-leveling using hydraulic control valves and pin locks

### Camera Manway Cannon

- This technology allows the tank to remain sealed while a robotic cannon liquefies the sludge to allow pumping from the tank
- Sludge can be further separated by processing with our separation equipment
- No need for vapor recovery equipment; saving time, money and disposal costs
- No need for personnel to enter the tank during the cleaning phase
- Enables compliance with stringent emissions regulations

### Tank Cleaning ROV with a Vertically-Adjustable Water Cannon

*(mounted on the ROV's top deck with auger removed)*

- High pressure piping allows for high volume/low pressure (centrifugal pump) or high volume/low pressure washer (bean pump)
- The length of the nozzle can be adjusted to meet job requirements
- 110-degree range of vertical movement allows washing of the roof, walls and floor without removing the ROV to change or re-adjust the cannon
- Requires only a 24" manway



### Tank Sweep

- An efficient way to remove sludge buildup that can cause corrosion leading to clogged equipment or dangerous leaks
- Ideal for tanks with high solid levels that prohibit removing manway covers or landing on floating roofs
- Thompson's advanced tank sweep is a fast system that reduces downtime and lowers costs with a greater reduction of waste products. It is an extremely safe, non-entry operation, plus it is safer for the environment by achieving higher levels of hydrocarbon recovery.



## ADDITIONAL SERVICES

### LIFE CYCLE SERVICE SOLUTIONS

- Construction phase cleaning support
- Pre-commissioning cleaning
- Daily maintenance support
- Outages/Shutdowns/TARs
- Decommission

### HYDROBLAST VACUUM + BIG PUMP

- Automated hydroblasting from 12K-40K PSI
- High volume hydroblasting (30x traditional volume)
- Wet, dry, sludge vacuuming
- Pneumatic + hydro-vac excavation

### CHEMICAL CLEANING + FINFOAM®

- Custom-engineered chemical cleaning
- FINFOAM® air-cooled heat exchanger cleaning
- Automated tank cleaning and vapor phase degassing & pipe cleaning

### SPECIALTY + CUSTOM SOLUTIONS

- Dry ice blasting
- Combustible dust remediation
- Industrial drone inspections
- Coatings + liner removal
- Sponge media abrasive blasting
- HRSGs with EPIC® technology

LEARN MORE ABOUT HOW WE CAN HELP

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**Thompson**  
Industrial Services