



**PRECISION
PRODUCTION
CLEANING
FOR YOUR
SPECIALIZED
MULTI-STAGE
REQUIREMENTS**

ENDLESS COMBINATIONS TO DIAL INTO YOUR APPLICATION

- Standard agitating, ultrasonic and dryer modules available
- Solvent or Aqueous systems
- Multiple sized tanks and configurations
- Systems handle light to heavy loads, small to large parts
- Independent controls at each station or master control for single point automation
- Optional roller feature to facilitate movement of parts easily and quickly from one module to the next without lifting
- Ergonomic design of powered load/unload within tanks
- Graymills' in-house engineers can develop custom solutions for unique problems

Why Immersion Cleaning is Preferred

Immersion cleaning exposes all surfaces to the cleaning solution, including blind holes, recesses and small crevices. Immersion cleaning is non-abrasive and causes no marring of the parts finish. Complex, stacked or nested parts are no problem, unlike standard spray cabinet washers. Small parts can be cleaned in easy-to-handle batches.

By combining hands-off, total immersion cleaning, easy part load/unload, vertical lift platform agitation and optional Graymills Superflo™ pump jet action, Liftklean™ Series parts washers offer an intensive, efficient immersion cleaning system that increases your productivity. The TR Series Liftkleans™ offer two sizes and many options, including pump, agitation, ultrasonics, and automatic control of cleaning cycles, that make it the easiest to use large cleaner series on the market.

Our in-house engineering department has the ability to customize tanks and systems to meet your needs. Contact the factory to initiate the discussion. We also offer test cleaning performed on your parts with your contaminants to guarantee the process and solution before you make this investment.

Details to lessen the work

- > One touch control of the pneumatic air-operated lift platform and electronic controls turns multi-function operation into a simple step
- > Total submersion of parts in the cleaning solution allows specifiable dwell time for the solution to thoroughly clean, with

- the ability to soak to loosen contamination before washing
- > Pneumatic platform and intermediate roller sections between units makes loading/unloading easy, reducing lifting and back strain

Powerful cleaning

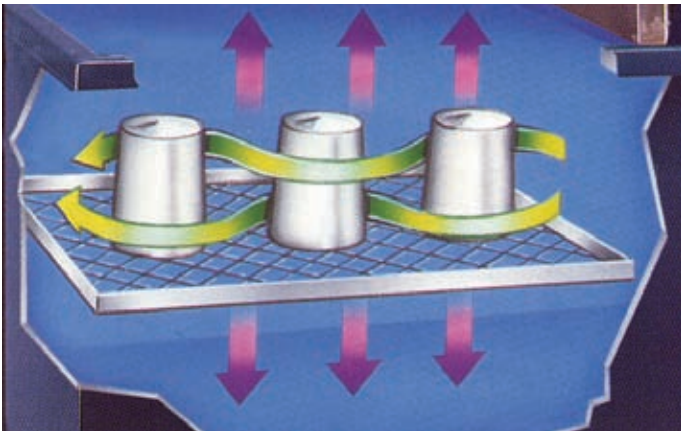
- > Optional Superflo™ Pump circulates cleaning or rinsing solution up to 3,000 GPH. Combines with vertical platform agitation for faster cleaning including crevices, blind holes and recesses.
- > Infinite options for customizing lift platform agitation for your unique application.
- > Dual Action cleaning is effective in both cold solvent and heated aqueous applications.

Well built for long life

- > Design your system to meet your needs: pre-wash, wash, ultrasonic wash, rinse, apply rust preventative, coatings, and dry modules available
- > Lift mechanism is entirely outside of tank for long service life
- > MIG welded tanks tested before shipped from plant
- > Fiberglass grate, mild steel or stainless steel optional
- > Stainless steel lined lids on all heated washers and dryers

Safety built into the machines

- > Auto-lid closes at beginning and opens at end of cycle or upon machine reset
- > Drain pans under roller sections keep liquids off floor



Dual Action Cleaning Option – Shortens Cleaning Cycle up to 40%

- > Optional Superflo™ Pump circulates up to 3,000 GPH
- > The Dual Action cleaning cycle combines vertical platform agitation with a Graymills Superflo™ centrifugal pump jet stream for faster cleaning including crevices, blind holes and recesses
- > Dual Action cleaning is effective in both cold solvent and heated aqueous applications



Parts are easily loaded on platform at tank top level
Auto lid closes as cycle begins



Start cycle lowers parts into solution
Fully immersed parts may be soaked and/or agitated with programmable cleaning



Auto-lid opens at end of cycle
Platform raises for draining and easy parts removal

BUILD-A-SYSTEM™

Create the process that prepares your parts for production



prewash ultrasonic rinse dip/coat dry

Example of actual five unit system developed to meet a customer's part preparation

Standard TR-Series Features

- > Solvent or heated aqueous models available
- > Small footprint ideal for cellular manufacturing
- > Lift platform raises to the top of the immersion tank for easy load/unload
- > V-shaped bottom with center drain for easy maintenance

TR-Series Options

- > High power Graymills Superflo™ pump for in-tank fluid agitation adds more turbulence to washing tank
- > Drop-in heaters and insulation for aqueous units
- > Stainless steel tanks, lifting mechanisms, and racks for chemical compatibility and to ensure long life of unit
- > Turbo-boost filtration system filters and extends life of cleaning solution

Standard Ultrasonic Features

- > Bonding of transducers is guaranteed for 10 years
- > Air operated lift platform handles loads with ease;
- > Up and down agitation while submerged enhances the cleaning process
- > Adjustable, thermostatically controlled tank heaters maintain optimum cleaning solution temperature up to 160°F (71°C)
- > Deep "V-shaped" tank bottom focuses the ultrasonic power on the work load
- > Digital cycle timer controls cleaning cycle start and stop times
- > Oil skimmer removes oil from solution for superior cleaning and to extend life
- > Double walled insulated tank and lid reduces heat loss and evaporation

Ultrasonic Options

- > Recirculating pump and filtration packages with up to three filters for precision cleaning

Standard Dryer Features

- > Available in two standard sizes to match other stages
- > A high velocity blower combined with 6,000 Watts of heat delivers over 500 CFM of air into the dryer at approximately 50°F above ambient.
- > The automatic lid allows your operator to perform other tasks while the dryer completes its cycle and opens as programmed.

Dryer Options

- > Available without heat for temperature sensitive applications
- > Available with an additional 6,000 Watts (12kW total) of heat to dry with air at approximately 100°F above ambient



Options for All Wash Units

- > Filtration systems to remove particulate. Single to triple element versions available.
- > Large capacity oil coalescer to continuously remove oil from wash tanks, even during cleaning process
- > Auto water fill
- > Low water shut off
- > Cycle timer for repeatable control of wash sequence
- > Lift roller platform to aid transfer of parts from station to station
- > Bridge roller connectors
- > Load/unload tables
- > Rotating small parts basket

Larger units available;
call factory for details.

ENDLESS COMBINATIONS TO DIAL INTO YOUR APPLICATION

CHARACTERISTICS

Graymills offers an unlimited number of combinations to solve industrial cleaning needs. If you don't see what you need in our lists, contact the plant or a representative to begin the discussion of developing the system that meets your specifications and handles the parts you are processing.

Our **TR-Series Liftkleens** consist of two sizes that work for most uses. They have a smaller footprint, liquid capacity and lift capacity. They are widely used for job site "cell" cleaning in manufacturing, automotive and maintenance shops.

Our larger **L-Series Liftkleens** are for larger parts, heavier components. All lift platform components are outside the tank, eliminating the most common reason for failure in other machines. These larger units are the workhorse in today's manufacturing, maintenance and repair operations.

	TR SERIES LIFTKLEENS		L SERIES LIFTKLEENS
	TR2420	TR3626	(6 models available)
Platform Area (W x L)	19" x 22"	24" x 32"	36" x 24" up to 84" x 36"
Maximum Load Capacity	150 pounds	200 pounds	up to 1,8500 pounds
Fluid Volume	47 gallons	118 gallons	170 up to 670 gallons
Stainless Steel Construction	Available	Available	Available
Mild Steel Construction	Available	Available	Available
Automatic Lid	Standard	Standard	Standard
Maximum Agitation Stroke	3"	3"	5"
Adjustable Stroke	YES	YES	YES
Strokes Per Minute	40-80	40-80	25-40
Heater Capability	Available	Available	Available
Tank Insulation	Available	Available	Standard
Insulated Lid	Available	Available	Standard
Ultrasonic Cleaning	Available	Available	NO
Dryer Capability	Available	Available	Available
USAGE			
Wash	YES	YES	YES
Rinse	YES	YES	YES
Dip/Coat	YES	YES	YES
Dry	YES	YES	YES
OPTIONS			
Pump Agitation	Available	Available	Available
Filtration	Available	Available	Available
Turbo-Boost Filtration	Available	Available	Available
Oil Skimmer	Available	Available	Available
Oil Coalescer	Available	Available	Available
24/7 Heater Timer	Available	Available	Available
Increased Heating Ability	NO	NO	Available
Auto Water Fill	Available	Available	Available
Rotating Small Parts Basket	Available	Available	NO
Roller Platform	Available	Available	Available
Bridge Sections	Available	Available	Available

Graymills offers a Total Cleaning Perspective, with a complete line of parts washers in varying sizes and cleaning actions. Contact your local distributor or the factory for a catalog or more information. We recommend contacting your representative to set up a free cleaning analysis of your exact soils and parts.

No Confusion. No Risk. No Worries.

Graymills products are made in the USA, and are warranted worldwide.



Manufacturing Excellence since 1939

Graymills Corporation

3705 N. Lincoln Ave.
Chicago, IL 60613
773-248-6825 phone
773-477- 8673 fax

www.graymills.com
info@graymills.com



GS07F5729P

Small Business, Women-Owned

GA537_0814