



TRIO: Series LW Log Washers

Efficient Material Scrubbing



DIAMOND
diamondequip.com

Building Solutions Together
www.trioproducts.com

TRIO offers World Class Design, Engineering and Manufacturing to provide high value solutions for your crushing, screening and material handling requirements.

The core goal of TRIO Engineered Products, Inc. is to pursue product improvement, product quality, and provide our customers with the most cost-effective equipment solutions.

TRIO: Building Solutions Together



TRIO continues to expand as a world-class designer & manufacturer of crushers, screens, washers, and conveyors for the aggregate, mining, recycling, and industrial minerals industries.

TRIO strives to provide the most rugged, robust, and reliable equipment for the most demanding applications. TRIO provides customized high value solutions according to our customers' needs, from single machines to stationary or portable plants, including turnkey projects.

TRIO: Creates Value for You

TRIO's design and manufacturing teams have many years of experience building Log Washers. These washing tools are the combination of quality, reliability, and performance. TRIO's TLW Series Washers can be widely applied in the aggregate and mining industries.

TRIO manufactures twin spiral Log Washers in 36" and 44" sizes. Trio washers are a mix of durability and lower maintenance and operating costs which make these washers an exceptional value.

TRIO: LW Series Washers

TRIO LW Series Logwashers are a relatively simple straight forward method to cost effectively; scrub and clean rock nominally sized 100% less than 4 inches and greater than 3/8".

Trio Log Washers are designed to assist in the removal and breaking down of heavy plastic clay, conglomerates, and certain types of soft stone that may be present in gravel, crushed rock or ore.

TRIO Log Washers can be adjusted to accommodate a variety of applications by: varying the flight and paddle combinations; changing the amount of water used and adjusting the height of the overflow weirs.



Features:

- Successfully cleans most difficult materials
- TRIO built oil lubed extreme duty gear box
- Seamless steel tub extreme duty log shafts
- Corrugated faced Ni-Hard wear shoes
- Easy shaft replacement assemblies
- Outboard pillow block bearing assemblies



HIGH PERFORMANCE SCRUBBING



| MODEL | SIZES (DIA x L) | | WEIGHT | | MATERIAL | | MAX CAPACITY | | | | | POWER | | SPEED |
|--------|-----------------|------------|--------|-------|----------|-----|--------------|--------|-----|------|-----|---------|---------|-------|
| | IN x FT | MM | LBS | KG | IN | MM | STPH | MTPH | GPM | LPM | CMH | HP | KW | RPM |
| LW3630 | 36"x30' | 905x8650 | 42990 | 19500 | 3" | 75 | 55-138 | 50-125 | 500 | 1890 | 113 | 120-150 | 90-110 | 16-32 |
| LW3635 | 36"x35' | 905x10500 | 50160 | 22800 | 3" | 75 | 55-138 | 50-125 | 500 | 1890 | 113 | 150 | 110 | 16-32 |
| LW4430 | 44"x30' | 1120x8650 | 60600 | 27500 | 4" | 102 | 83-193 | 75-175 | 750 | 2840 | 170 | 150-200 | 110-160 | 13-26 |
| LW4435 | 44"x35' | 1120x10500 | 70300 | 31950 | 4" | 102 | 83-193 | 75-175 | 750 | 2840 | 170 | 200 | 160 | 13-26 |

Results may vary depending on feed material gradation, density, silt & clay content, amount of water used, equipment settings and washing application. Please consult TRIO's application department for specific capacity for your application.

High performance scrubbing is accomplished by the severe abrading action of the corrugated faced Ni-Hard shoes mounted on the spuds that are welded to the log shafts.

The log shafts rotate in opposite directions. The two log shafts are timed in such a manner as to obtain an overlap of the paddle shoes for maximum scrubbing action. The paddles are pitched to allow them to slowly move the rock toward the discharge opening at the upper end of the tub, while the foreign material is discharged with the overflow water through a gated discharge at the lower end.

To obtain optimum results in Log Washer processing the feed material should be pre screened to insure the top size does not exceed a nominal 4" and to eliminate all material minus 1/4" (6 mm).

The material discharge from a Log Washer should report to a vibrating screen equipped with spray bars to give the material a thorough rinsing before being conveyed to a stockpile or bin.



TRIO ELECTRICAL CAPABILITIES

With Customer specifications: TRIO can provide electric controls for high voltage (6KV, 10KV), low voltage, and special applications. TRIO has a complete electrical facility using the world's leading brands to build Containerized Electrical Control Centers for individual machines or complete TRIO turnkey crushing systems



MODULAR PLANTS

TRIO has designed and built an extensive array of modular structures for all of the crushing, screening and washing equipment we manufacture. Trio is the market leader in modular plant designs, offering a larger array of products than any other OEM.

TRIO modular structures incorporate heavy duty structural steel weldments using bolted connections. Safe and accessible work areas are built with grated stairways and work platforms equipped with hand, knee and toe rails providing labor saving installation.

TRIO modular plants are re-locatable assets that represent the most economical way to build a stationary plant or to add onto an existing facility.



RUGGED RELIABLE DESIGN

TRIO builds an extreme duty speed reducer for all Trio Log Washers. These reducers are capable of up to a 85:1 reduction ratio to achieve low spiral speeds and high torque outputs. TRIO reducers incorporate a sealed oil bath lubrication arrangement for maintenance-free operation.

A head-end gearbox coupling insures proper shaft alignment in conjunction with a flexible spider coupling protecting the rotating shaft and gear reducer against variations.



SAFE EASY MAINTENANCE

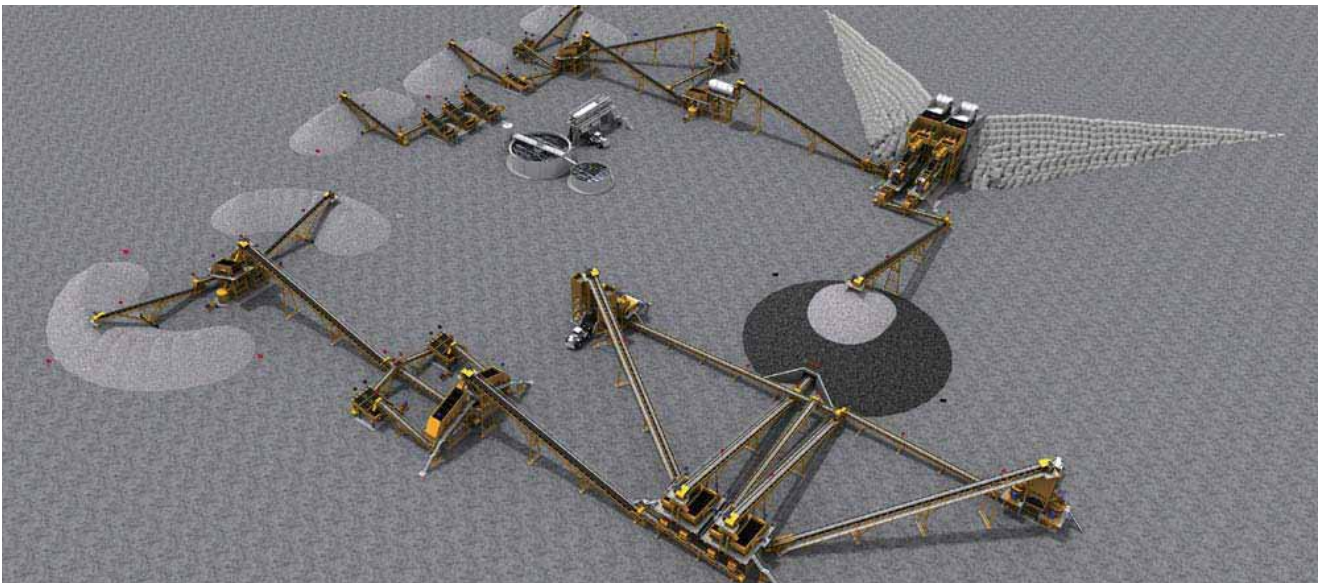


All TRIO Log Washers utilize lower pillow block type outboard grease lubricated, anti-friction, self-aligning spherical roller bearing assemblies with replaceable rubber “donut” seals and stainless steel wear sleeves. The mounting of the bearing outside the tub protects the bearing from external water and dirt commonly associated with plant operations and provides easy inspection and fast maintenance. The Lower end shaft coupling insures precise alignment and an easy method for removing the shaft for maintenance.

COMPREHENSIVE SOLUTIONS

TRIO can provide not only key single machines, but also complete crushing, screening, washing, and material conveying solutions. We take your investment scale, working environment, capacity and product gradation requirements into consideration to provide a customized solution. Our optimized solutions include machine model selection, operating simulation, and on-site layout.

TRIO's outstanding design, engineering and manufacturing capabilities; together with complete after-sales service will ensure the successful implementation of your project; creating value to help you achieve your profit objectives.



GLOBAL SERVICE & SUPPORT

From Europe to mid-Asia, Africa to America, China to Australia, in every corner of the world, no matter what you order (a complete system, single machine, or a spare part) TRIO will provide you with professional service and support.

Combined with, off-the-shelf availability, Global distribution for rapid delivery and Superior quality, TRIO replacement parts, and skilled service support personnel make TRIO a valued partner in the global mining and aggregate industries

All TRIO products are assembled and test run in our factory to ensure a fast and efficient installation, creating extra value for you. We also provide professional training for maintenance and operations personnel to lower your operating cost.

TRIO LW Series Log Washers are rugged, reliable, high performance washers, and your best choice.





CRUSHERS

CT Series Jaw Crusher
TC Series Cone Crusher
APS& APP Series Impact
Crusher
TV Series VSI Crusher

SCREENS

TIH, TIO&TIOSP Series
Inclined Screen
TTH Series Horizontal
Screen
TBSS& TBSD Series Banana
Screen

PORTABLE PLANTS

Track mounted portable
plants
Wheel mounted portable
plants

PLANT SOLUTIONS

'Turn-key' projects

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