



Building Solutions Together



TRIO TIO, TIH, TIOSP, SERIES INCLINED VIBRATING SCREENS

Highly Effective Screening Solutions



DIAMOND
diamondequip.com

www.trioproductions.com



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

Our core goals are to pursue product improvement, product quality, and provide our customers with the highest value processing solutions.

TRIO - Building Solutions Together

**TIH-Series
Inclined
4'x10' to 6'x20'**



**TIO-Series
Inclined
5'x14' to 8'x24'**



**TIOSP-Series
Inclined
4'x10' to 8'x24'**

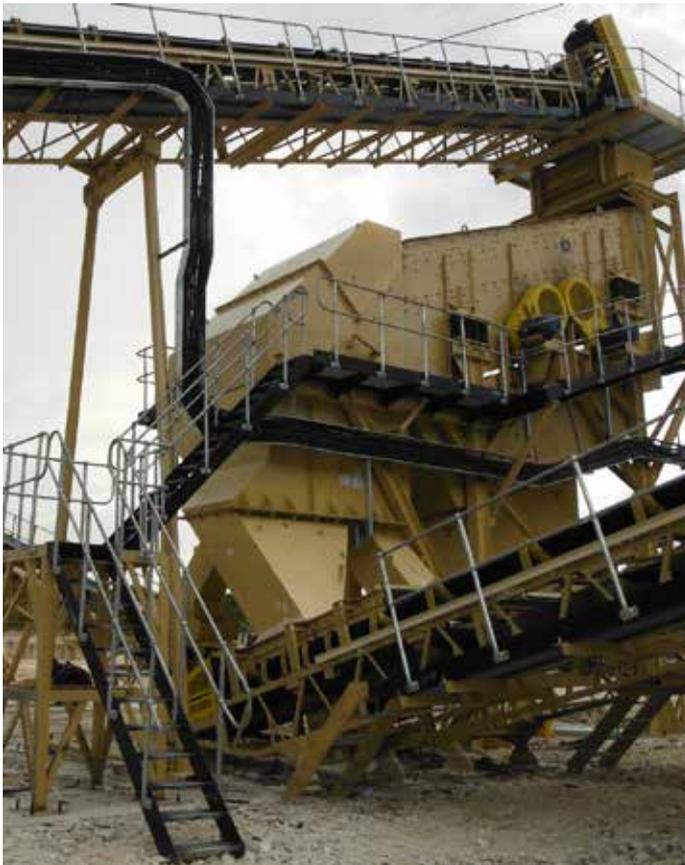
TRIO continues to expand as a world-class designer & manufacturer of crushers, screens, washers, and conveyors for the aggregate, mining, recycling, and industrial minerals industries.

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



TRIO Inclined Screens are a combination of quality, reliability, and performance; providing an extra long service life while operating in the most demanding applications and extreme conditions.

TRIO Inclined Vibrating Screens provide outstanding performance for all screening applications and can be widely applied in the mining, concrete and asphalt recycling, and aggregate industry settings.



Features:

- All Huck-bolt construction
- Customizable for all screen media types
- Ideal for wet or dry applications
- Easy stroke counterweight adjustment
- Available in single or twin shaft models
- Options for grease or oil lubrication





RUGGED RELIABLE DESIGNS

TRIO offers a wide range of vibrating screens. These Inclined Screens incorporate precision machined forged steel eccentric shafts that rotate on large spherical, self aligning, roller bearings. The stroke or amplitude is easily adjusted with bolted counterweights.

The screen side plates are hot rolled steel with stiffener plates around the vibrating mechanism. TRIO screen side plates are plasma cut with CNC punched holes to eliminate stress fatigue. Screen support decks are robotically fabricated and stress relieved as one piece cambered deck frames, flat profile decks are available for Urethane and Rubber media applications.



All components mounted to the screen side panels are attached with Huck bolts. The vibrating units are attached with threaded bolts for easy servicing. No welding is used; this process insures rigidity and structural integrity and eliminates stress fatigue in the screen body insuring a long productive service life.



OPTIONS AND FEATURES

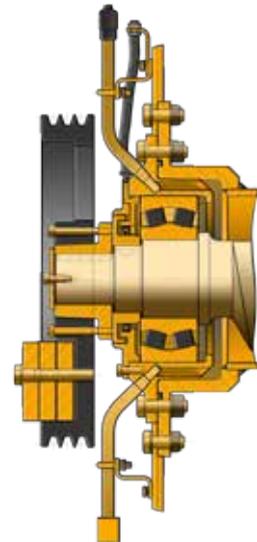
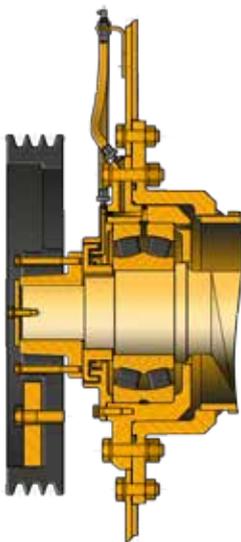
TRIO will provide the necessary optimized configuration for your specific screening application. Models are available with four decks or extra clearance between decks. Washing kits with water manifold and shut off valves, spray bars and spray nozzles. Dust enclosures of fabric or metal and screen decks that are customizable for all screen media types.



TRIO Bearing Assemblies

LEFT: The TIH Series screens are grease lubricated and have an additional outer grease seal to protect the bearings from contamination.

RIGHT: TIO and TIOSP Series Screens are oil lubricated with an oil lip seal and additional outer grease seal to protect the bearings from contamination.





TIO Series: Secondary Sizing and Finishing Screens

The TIO Series Screens represent the widest size range currently offered by TRIO with screens available in 2, 3 and 4 deck configurations and sizes from 5' x 14' to 8' x 24'. Dual shaft vibrating mechanisms are used for heavy duty applications on the larger screens.



The TIO Series screens are designed for continuous operation in the most demanding applications and have a wide range of applications in both wet and dry operating scenarios with a feed acceptance size of 8". The operating inclination can be varied from 15 to 20 degrees depending on the velocity required to stratify the material.





Specifications for TRIO Inclined TIO Series Screens

Model	DECKS	Size		Weight		Max Power		Max Material		Max Speed	Max Amplitude	
		FT x FT	MM x MM	LB	KG	HP	Kw	IN	MM	RPM	IN	MM
TIO5143	3	5' x 14'	1525 x 4260	12133	5515	15	11	8"	200	860	5/16"	8.5
TIO5162	2	5' x 16'	1525 x 4878	9838	4472	15	11	8"	200	860	5/16"	8.5
TIO5163	3	5' x 16'	1525 x 4878	12377	5626	15	11	8"	200	860	5/16"	8.5
TIO6162	2	6' x 16'	1830 x 4878	10903	4956	20	15	8"	200	860	5/16"	8.5
TIO6163	3	6' x 16'	1830 x 4878	13770	6259	20	15	8"	200	860	5/16"	8.5
TIO6202	2	6' x 20'	1830 x 6096	12364	5620	25	18.5	8"	200	860	5/16"	8.5
TIO6203	3	6' x 20'	1830 x 6096	15957	7253	25	18.5	8"	200	860	5/16"	8.5
TIO6204	4	6' x 20'	1830 x 6096	22590	10268	30	22	8"	200	860	3/8'	9.5
TIO7202	2	7' X 20'	2134 x 6096	19,637	8926	30	22	8"	200	860	3/8'	9.5
TIO7203	3	7' X 20'	2134 x 6096	27951	12705	25 x 2	18.5 X 2	8"	200	860	3/8'	9.5
TIO7204	4	7' X 20'	2134 x 6096	35134	15970	30 x 2	22 X 2	8"	200	860	3/8'	9.5
TIO7243	3	7'x24'	2135x7315	29643	13474	25x2	18.5x2	8	200	860	5/16"	8.5
TIO8202	2	8' X 20'	2439 x 6096	22746	10339	25 x 2	18.5 x 2	8"	200	860	3/8'	9.5
TIO8203	3	8' X 20'	2439 x 6096	30083	13674	30 x 2	22 x 2	8"	200	860	3/8'	9.5
TIO8204	4	8' X 20'	2439 x 6096	44310	20141	40 x 2	30 x 2	8"	200	860	3/8'	9.5
TIO8242	2	8' x 24'	2439 x 7315	33000	15000	40 x 2	30 x 2	8"	200	860	7/16"	11
TIO8243	3	8' x 24'	2439 x 7315	40344	18338	40 x 2	30 x 2	8"	200	860	7/16"	11
TIO9203	3	9'x20'	2490x6105	38153	17306	40x2	30x2	8	200	800	7/16"	11
TIO10203	3	10'x20'	3100x6105	44886	20360	40x2	30x2	8	200	800	7/16"	11
TIO12203	3	12'x20'	3700x6105	49295	22360	40x2	30x2	8	200	800	7/16"	11

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TIOSP Series: Scalping and Heavy Screening

These rugged, heavy duty screens accept feed sizes up to 20 inches and are available in 1, 2 and 3 deck configurations. TRIO manufactures these screens in sizes from 4' x 10' to 8' x 20'. These screens typically operate at a 20 degree angle of inclination. They are well suited for secondary scalping and large size separation applications that require steel punch plate, steel backed rubber media, or cascading grizzly bars.



Specifications for TRIO Inclined TIOSP Series Screens

Model	DECKS	Size		Weight		Max Power		Max Material		Max Speed	Max Amplitude	
		IN	MM	LB	KG	HP	Kw	IN	MM	RPM	IN	MM
TIOSP4101	1	4' x 10'	1270x3080	9020	4100	20	15	16"	400	860	3/8"	10
TIOSP4102	2	4' x 10'	1270x3080	10230	4650	20	15	16"	400	860	3/8"	10
TIOSP5141	1	5' x 14'	1525x4260	12595	5725	25	18.5	16"	400	860	3/8"	10
TIOSP5142	2	5' x 14'	1525x4260	14808	6731	30	22	16"	400	860	3/8"	10
TIOSP5163	3	5' x 16'	1575x4878	20343	9247	30	22	16"	350	800	3/8"	9.5
TIOSP6162	2	6' x 16'	1830x4878	18788	8540	40	30	16"	400	800	3/8"	10
TIOSP6163	3	6' x 16'	1830x4878	23584	10720	40	30	16"	400	800	3/8"	10
TIOSP7202	2	7' x 20'	2134x6096	29082	13219	25 x 2	18.5 x 2	20"	500	800	3/8"	10
TIOSP8243	3	8' x 24'	2439x7315	45131	20514	50 x 2	37 x 2	12"	320	760	7/16"	11.4

Additional Sizes Available on Request: 7202; 8202; 8203; 8242

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TIH Series: Secondary Sizing and Finishing Screens

With a feed acceptance size of 8" (200mm), these screens offer reliability and value for a wide range of applications. TRIO manufactures the TIH Series in sizes from 4' x 10' to 6' x 20' in single-deck, 2-deck and 3-deck configurations. These screens are grease lubricated and the operating angles can vary from 15 to 20 degrees depending on the velocity required for stratification.



Specifications for TRIO Inclined TIH Series Screens												
Model	DECKS	Size		Weight		Max Power		Max Material		Speed	Max Amplitude	
		FT x FT	MM x MM	LB	KG	HP	Kw	IN	MM	RPM	IN	MM
TIH4101	1	4' x 10'	1270 x 3080	4220	1918	10	7.5	8"	200	900	9/32"	7
TIH4102	2	4' x 10'	1270 x 3080	6164	2802	10	7.5	8"	200	900	9/32"	7
TIH4103	3	4' x 10'	1270 x 3080	7328	3331	10	7.5	8"	200	900	9/32"	7
TIH4122	2	4' x 12'	1270 x 3670	6325	2875	10	7.5	8"	200	900	9/32"	7
TIH5142	2	5' x 14'	1525 x 4268	9460	4300	15	11	8"	200	860	5/16"	8.5
TIH5143	3	5' x 14'	1525 x 4268	11312	5142	15	11	8"	200	860	5/16"	8.5
TIH5162	2	5' x 16'	1525 x 4878	9618	4372	15	11	8"	200	860	5/16"	8.5
TIH5163	3	5' x 16'	1525 x 4878	12454	5661	15	11	8"	200	860	5/16"	8.5
TIH6162	2	6' x 16'	1830 x 4878	10606	4821	20	15	8"	200	860	5/16"	8.5
TIH6163	3	6' x 16'	1830 x 4878	14054	6388	20	15	8"	200	860	5/16"	8.5
TIH6202	2	6' x 20'	1830 x 6096	11999	5454	25	18.5	8"	200	860	5/16"	8.5
TIH6203	3	6' x 20'	1830 x 6096	15776	7171	25	18.5	8"	200	860	5/16"	8.5

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TRIO: Mobile Plants

TRIO builds portable plant systems for feeders, crushers, screens, and washers. TRIO manufactures both track mounted and wheel mounted portable plants. Portable plants can be highly customized into cost-effective solutions for complex applications.

TRIO's portable plants boost efficiency, maximize setup flexibility, and provide better access for maintenance. These plants can be delivered completely assembled and are also available in kit form for shipments to remote locations.



TRIO: Modular Plants

Over the years TRIO has designed and built an extensive selection of modular structures for all of our crushing and screening equipment. TRIO is the market leader in modular plant designs, offering a larger array of products than any other OEM. These Modular products are used in the harshest environments and most demanding aggregate/mining applications in the world.

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 add onto an existing facility.



COMPREHENSIVE SOLUTIONS

TRIO can provide not only key single machines, but also complete crushing, screening, washing, and material conveying solutions. We take your budget, 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 drawing.

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 objectives.



GLOBAL SERVICE & SUPPORT

From Europe to mid-Asia, Africa to America, China to Australia, 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 and superior quality, TRIO replacement parts and skilled service 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 reliable performance. We also provide professional training for maintenance and operations personnel to insure smooth and efficient plant operations along with safe and easy maintenance.





Crushers

CT Series Jaw
TC Series Cone
APS Series Impact
APP Series Impact
TV Series Impact
T Series Cone

Screens

TIH Series Inclined
TIO Series Inclined
TIOSP Series Inclined
TTH Series Horizontal
TBSS Series Banana
TBSD Series Banana

Portable Plants

Track Mounted
Wheel Mounted

Plant Solutions

Turn-key Projects
Modular Systems

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