



## TRIO TF Series Feeders

Performance Feeding Solutions



**DIAMOND**  
diamondequip.com

[www.trioproductions.com](http://www.trioproductions.com)

TRIO offers World Class Design, Engineering and Manufacturing to provide high value solutions for your crushing, screening, washing 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

TF4010
TF4012
TF4016
TF4616
TF4620
TF5217
TF5220
TF5820
TF6420
TF6424
TF7220
TF7224



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 vibrating screens and feeders. These vibrating products are the combination of quality, reliability, and performance. The hallmarks of TRIO equipment are smart, operator-oriented features combined with design features that ensure a long, productive service life.

TRIO's TF Series Feeders can be widely applied in the mining, and aggregate industries. These Feeders can be installed as single machines or combined with a full product line of TRIO crushers, conveyors and washing equipment to provide comprehensive solutions.



**TRIO: TF Series Feeders**

TRIO Vibrating Feeders are rugged, robust tools capable of absorbing the large surge loads from truck haulage equipment or wheel loaders and provide an even regulated flow of material to downstream processing. These feeders incorporate grizzly sections at the discharge end to remove undersize rock and ore before the primary crushing station. This style of feeder is ideally suited for mining, aggregate, recycling applications and as a standalone scalping or Rip Rap operation.



## EASY OPERATIONS & MAINTENANCE



Deep ridged low carbon steel side frames and a thick feeder pan are fabricated and stress relieved with honey comb style reinforcement capable of absorbing and isolating tremendous shock loads.

Grizzly sections have options of cast or fabricated grizzly bars with fully adjustable spacing. TRIO' s design utilizes wear resistant materials with tapered openings in both dimensions preventing clogging or packing. Worn bars are easily replaced.

Easy maintenance is provided by replaceable side liners and sectionalized replaceable pan liner plates.

## RUGGED RELIABLE DESIGNS

The material load on the feeder is moved along by two parallel contra-rotating forged steel precision machined eccentric shafts geared together. The linear motion of the vibrating assembly is easily adjustable between 30 and 55 degrees. The speed of these two shafts can be varied along with the amount of counterweight to optimize the feeder' s performance.

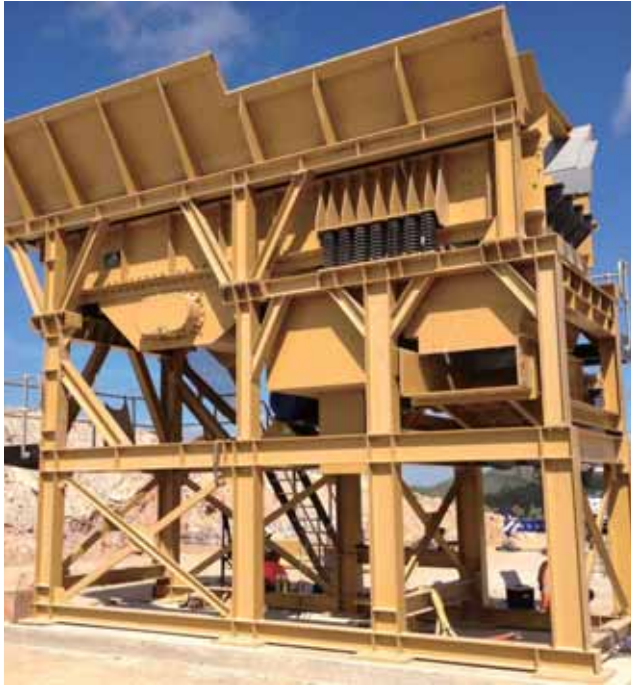


TRIO vibrating feeders have flow through oil lubrication and an oil lip seal with an additional outer grease seal to protect the bearings from dust or contamination. The forged steel eccentric shafts rotate on large spherical, selfaligning roller bearings running in an oil bath for minimum maintenance.

Robust steel coil springs are mounted outboard on the discharge end to ensure the feeder' s stability and facilitate a bypass chute for the undersized material passing through the grizzly section.



## MONDULAR PLANTS



TRIO is the market leader in modular plant designs and offers the widest selection on the market. These modular systems are suited for the hardest and most demanding aggregate & mining applications.

TRIO's Modular structures are designed to be shipped using standard ocean containers making them very economical to transport to any destination.

Specifications for TRIO TF Series Vibrating Grizzly Feeders											
MODELS	SIZE	DECKS	Machine Weight		Max Feed Size		Capacity		Max Speed	Max Power	
	MM		LB	KG	IN	MM	STPH	MTPH	RPM	HP	Kw
TF4010	1,000 x 3,050	1	7,000	3,170	24	600	320 - 500	290 - 450	650 - 800	15	11
TF4012	1,000 x 3,650	1	7,780	3,530	24	600	320 - 500	290 - 450	650 - 800	20	15
TF4016	1,000 x 4,875	1	10,690	4,859	24	600	360 - 545	325 - 495	650 - 800	25	18.5
TF4616	1,124 x 4,875	1	11,000	5,000	28	700	410 - 590	370 - 535	650 - 800	25	18.5
TF4620	1,124 x 6,000	1 or 2	14,100	6,420	32	800	410 - 590	370 - 535	650 - 800	30	22
TF5217	1,300 x 5,200	1	14,016	6,370	32	800	455 - 680	410 - 615	650 - 800	40	30
TF5220	1,300 x 6,000	1 or 2	16,400	7,440	32	800	455 - 680	410 - 615	650 - 800	40	30
TF5224	1,300 x 7,320	1 or 2	20,170	9,472	32	800	455 - 680	410 - 615	650 - 800	50	37
TF5820	1,475 x 6,000	1 or 2	18,500	8,450	35	900	500 - 770	450 - 700	650 - 800	50	45
TF6420	1,625 x 6,000	1 or 2	22,180	10,082	35	900	590 - 905	535 - 820	650 - 800	60	45
TF6424	1,625 x 7,320	1 or 2	24,550	11,174	35	900	590 - 905	525 - 820	650 - 800	60	45
TF7220	1,830 x 6,000	1 or 2	25,000	11,804	43	1,100	660 - 1,360	600 - 1,235	650 - 800	75	55
TF7224	1,830 x 7,320	1 or 2	30,480	13,830	43	1,100	660 - 1,360	600 - 1,235	650 - 800	75	55

Results may vary depending on feed material gradation, density, moisture content, equipment settings and application. Please consult TRIO's application department for specific capacity for your application.

### TRIO Electrical Capabilities

With Customer specifications: TRIO can provide electric controls for high voltage, 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.



### PORTABLE PLANTS



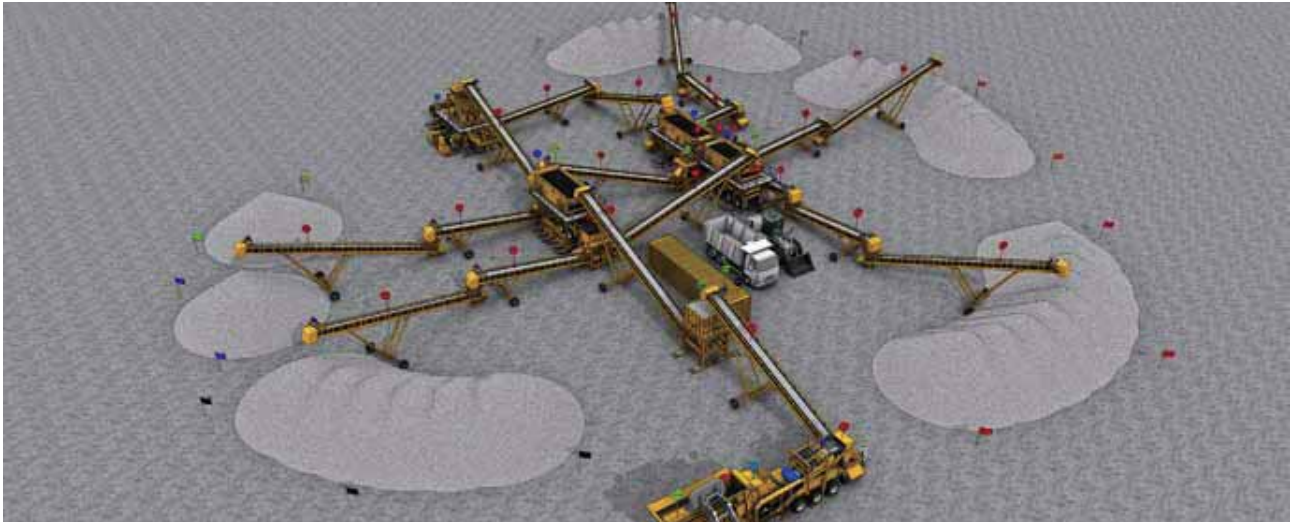
TRIO TF Series Feeders mount easily onto portable wheel or track machines. These plants can be highly customized to provide cost-effective solutions for complex applications. TRIO portable plants can be delivered completely assembled and are also available in kit form for shipments to remote locations.



## 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 drawings.

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 insure smooth and efficient plant operations along with safe and easy maintenance.





## 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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