



TAF **Series Apron Feeder**  
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 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, feeders, washing equipment and conveyors for the aggregate, mining, recycling, and industrial minerals industries. The core goal of the company is to pursue product improvement, quality, and provide our customers with the most cost-effective equipment solutions.

TRIO Apron Feeders are offered in any number of widths and lengths in order to meet most tonnage and application requirements. These feeders utilize rugged crawler tractor undercarriage components and heavy duty structural weldments. Trio apron feeders are a combination of performance, quality, and reliability.

Common applications for apron feeders include; controlled unloading from ROM dump hoppers, surge or product stockpiles, and truck or rail cars.

Apron Feeders are slow moving, positive displacement feeders which can be widely applied in the mining, aggregate and industrial minerals industries. They offer customers a cost effective solution when feeding even the most difficult materials. These feeders are especially effective in applications that have large rock with sharp edges, materials that are sticky or hot materials.



TRIO apron feeders are individually designed for your specific application. We take into account a host of variables; such as load surcharge height, material characteristics, maximum lump size, and loading method. This attention to detail in design and the highest quality components insures minimal down time and lowest overall operating costs.

### AF Features:

- Crawler tractor type undercarriage components
- Head and Tail spherical self-aligning roller bearings
- High strength forged steel head & tail shafts
- Lifetime lubricated carrying and return rollers
- Segmented tooth drive sprockets
- Overlapping extreme duty abrasion resistant pans
- Sealed and lubricated crawler track chain





### Head-end Drive Assembly

The discharge end assembly incorporates a high reduction planetary gear drive with oil lubrication. A high strength forged alloy steel head-shaft with segmented tooth sprockets transmits power to the chain assembly. Grease lubricated double row spherical roller bearings are precisely located with a stop block welded to the mainframe.

### Chain Gear

- Supports chain plate
- Installed on the supporting frame.
- Equipped with all life cycle sealed for life lubricated bearing

### Thrust Wheels

- Made of heat treated and forged alloy steel
- Closely distributed all feeders
- Ensuring smooth operation.

### Receiving Hopper

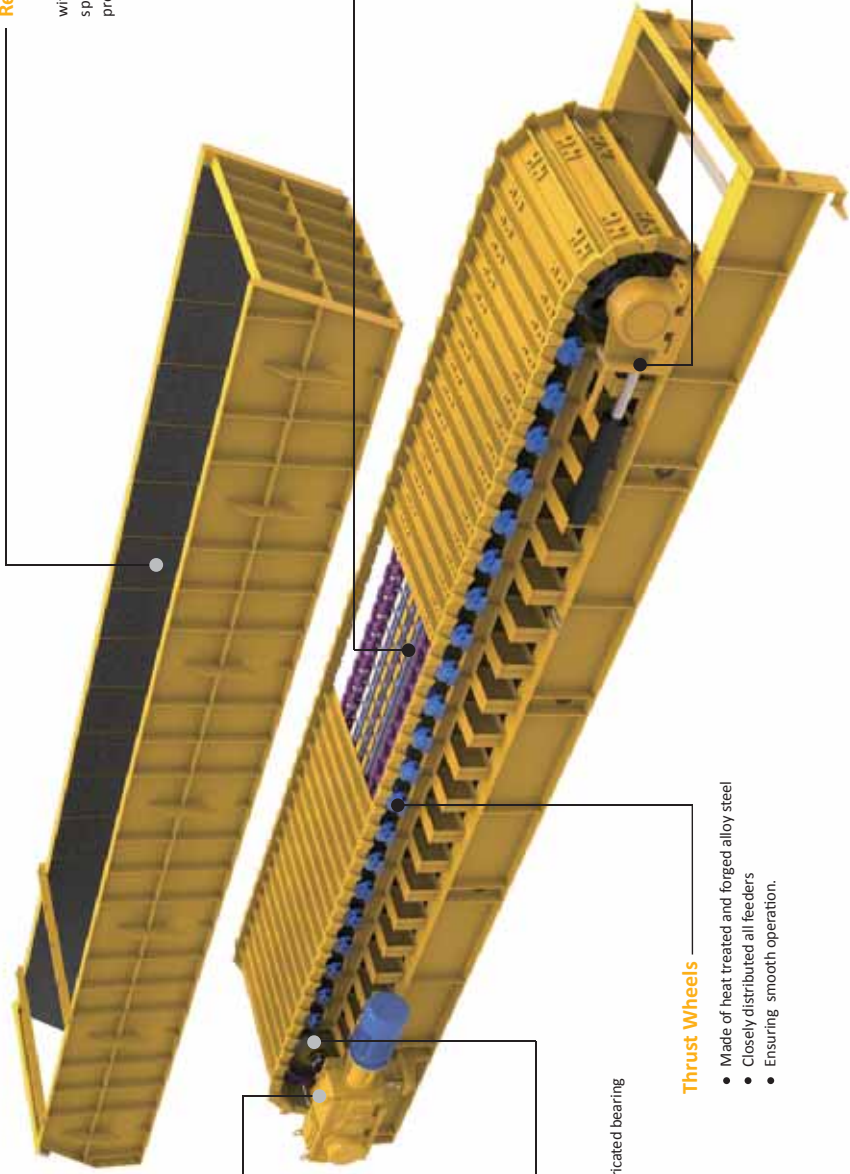
An optional fabricated steel receiving hopper fitted with bolt-on abrasion resistant liners can be designed for specific application requirements and customer preferences.

### Frame and Apron Track Assembly

A heavy duty fabricated structural steel frame is fitted with impact rails to prevent deflection of the feeder pans. Rugged crawler tractor type undercarriage components are utilized to provide minimal maintenance and low operating cost. The single flange carrying and return rollers are lifetime lubricated and support the sealed and lubricated crawler track chain.

### Tail-end Tensioning Assembly

The loading end is equipped with tractor type idler tensioning wheels mounted on a forged high strength steel shaft. Grease lubricated double row spherical roller bearings are fitted into a hydraulic assisted track chain adjustable tensioning system. Overlapping extreme duty, abrasion resistant, feeder pans are bolted to the track chain.



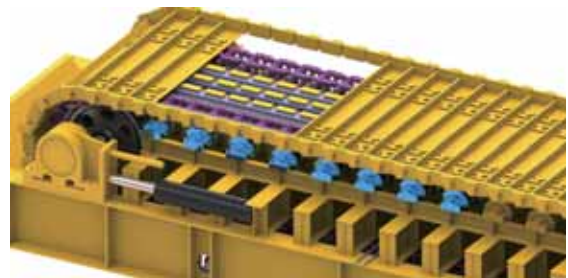
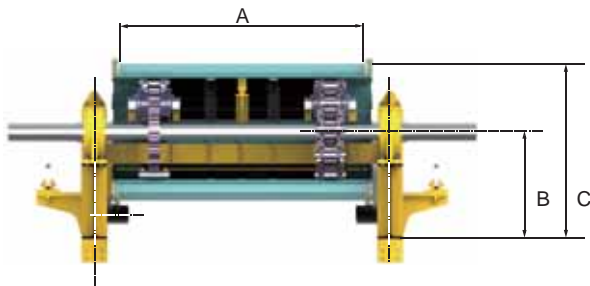
## TRIO APRON FEEDER SPECIFICATIONS

MODEL	WIDTH		MAX FEED SIZE		MAX CAPACITY		VARIABLE FEEDER LENGTH	
	IN	MM	IN	MM	STPH	MTPH	FT	M
TAF10Series	39"	1,000	≤ 15"	≤ 400	≤ 253	≤ 230	13' - 65'7"	4 - 20
TAF12Series	47"	1,200	≤ 19"	≤ 500	≤ 364	≤ 330	13' - 65'7"	4 - 20
TAF15Series	59"	1,500	≤ 25"	≤ 650	≤ 584	≤ 530	19'8" - 65'7"	6 - 20
TAF18Series	71"	1,800	≤ 32"	≤ 800	≤ 826	≤ 750	19'8" - 65'7"	6 - 20
TAF20Series	79"	2,000	≤ 35"	≤ 900	≤ 1,058	≤ 960	19'8" - 65'7"	6 - 20
TAF22Series	87"	2,200	≤ 39"	≤ 1,000	≤ 1,323	≤ 1,200	19'8" - 65'7"	6 - 20
TAF24Series	95"	2,400	≤ 43"	≤ 1,100	≤ 1,521	≤ 1,380	13' - 65'7"	8 - 16
TAF28Series	110"	2,800	≤ 51"	≤ 1,300	≤ 1,895	≤ 1,720	13' - 65'7"	8 - 16

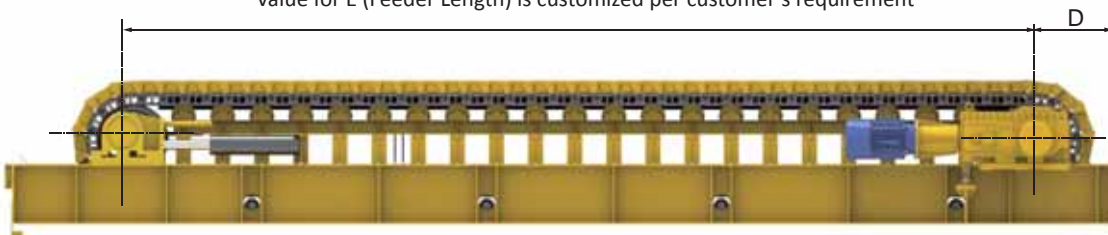
\* Angle of Inclination 0 to 23 Degrees

\* Data for marketing purpose subject to change with product upgrades.

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Value for E (Feeder Length) is customized per customer's requirement

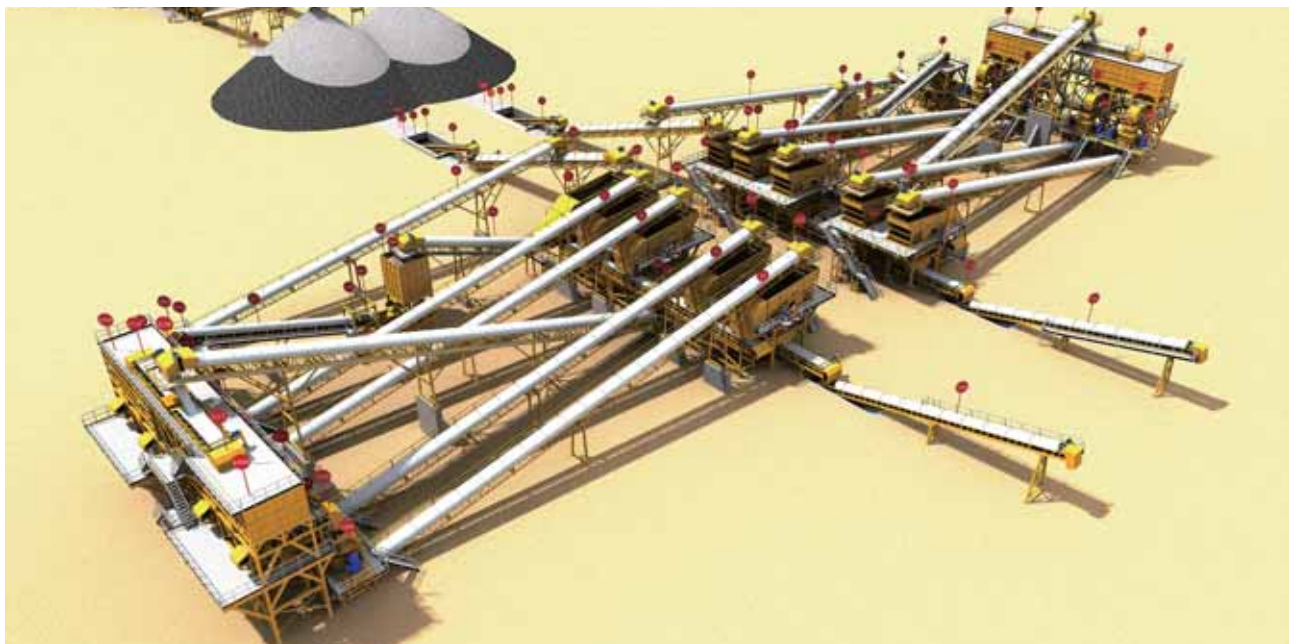


MODEL	A	B	C	D
TAF18Series	1800mm	940mm	1,558mm	900mm
TAF20Series	2,000mm	940mm	1,558mm	900mm
TAF24Series	2,400mm	940mm	1,558mm	900mm

## Comprehensive Solution Solution

TRIO can provide not only key single machines, but also complete crushing, screening, washing, and material conveying solutions. We take into consideration your budget, working environment, capacity and product gradation requirements 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

From Europe to mid-Asia, Africa to America, China to Australia, no matter what you order. TRIO will provide you with professional service and support.

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 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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