

TREK SCREEN SCREW PLANT (SSP)

The EIW Trek Screen Screw Plant (SSP) is part of the Trek Portable Wash Plant family. It combines screening, spray washing, sand washing and dewatering for operations processing a mixture of sand and aggregate.

This configuration is suited to producers who need to separate feed into multiple washed aggregate sizes and recover a dewatered sand product from one portable plant.

Feed enters a triple-deck Eagle Horizontal Vibrating Screen equipped with a complete spray-bar washing system on all three decks. The selected screen media and deck openings separate the feed into two or more product sizes. Larger aggregate fractions discharge from the screen onto separate product conveyors, while sand and water passing through the bottom deck flow directly into a CONDOR Double Screw Fine Material Washer mounted beneath the screen.

The Fine Material Washer removes silt from the sand and dewateres the retained product before discharge. Combining the screen and washer on one chassis allows washing, sizing and sand dewatering to be completed close to the material source. This arrangement reduces the need to move unwashed feed to a fixed processing plant and allows finished products to be stockpiled near the operating area.

The plant is mounted on a U.S. Department of Transportation-approved chassis for relocation between processing sites. Brakes, lighting, landing jacks, walkways and ladder access are incorporated into the chassis. Water lines and electrical connections are also included to reduce the field work required before the plant can begin operating at a new location.



Design Features

Adjustable oval stroke allows screen motion to be set for the material being processed

Reinforced deck frames accommodate different types of screen media

600 Brinell Eagle Armor iron-alloy wear shoes resist abrasion during sand conveying

Washer screw shafts use extra-thick, one-piece steel tubing

Cross belts direct separated aggregate products to individual stockpiles

Optional hydraulic jacks simplify plant setup

On-plant controls can be positioned at ground level, away from dust and vibration

Feed-material slush box folds into position for transport

EAGLE IRON WORKS - TREK PORTABLE WASH SOLUTIONS

TREK TANK SCREW PLANT (TSP)

The EIW Trek Tank Screw Plant (TSP) is part of the Trek Portable Wash Plant family. It combines sand classification, controlled blending and dewatering for operations processing a sand and water slurry.

This configuration is suited to producers who need to control finished sand gradation and produce one or two construction-grade sand products from a portable plant.

EIW evaluates water volume, feed gradation, feed rate and required product specifications to determine the appropriate Sand Classifying Tank, control system and Double Fine Material Washer configuration. Matching these components to the application establishes the classification and blending arrangement needed for the specified sand products.

Feed slurry enters the Sand Classifying Tank, where excess water is removed and the sand is classified into two specification sizes. Selected sand fractions discharge into the collecting and blending system, allowing their proportions to be adjusted for the required product gradation. The classified sand then enters the Double Fine Material Washer for dewatering. The washer can discharge one combined sand product or maintain two separate gradations for simultaneous production.

The system is mounted on a U.S. Department of Transportation-approved chassis for relocation between processing sites. Brakes, lighting and landing jacks support transport and setup, while walkways and ladder access provide access for inspection and maintenance. Included water lines and electrical connections reduce field installation at a new site.



Design Features

Extra-long tank weirs help retain product-sized sand that could otherwise leave with the overflow

Adjustable tank weirs compensate for out-of-level setup conditions

Digital Dial Split Control System adjusts the proportion of classified sand fractions in the finished blend

Double-acting hydraulic cylinders provide accurate sand discharge from the tank stations

Thick-diameter steel valve and paddle rods provide strength for repeated tank station operation

Individual tank station components simplify troubleshooting and maintenance

Center divider keeps two sand gradations separated through dewatering

600 Brinell Eagle Armor iron-alloy wear shoes resist abrasion during sand conveying

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