

TEREX AGGREGATE WASHING RECYCLING PLANT



Euro Auctions are please to be offering the rare opportunity to purchase a Terex Aggregate Recycling Plant. The Plant was installed and commissioned in 2017 and can be seen running on site in Dublin. The plant has performed very well processing crushing and demolition waste. The plant is able to produce four washed & sized aggregates and two grades of sand. The plant has an integral Terex TC 1000 cone crusher which crushes oversized material and re-circulates to the plant. The plant comes with a Matec water treatment system – the large 10m diameter thickener and floc dosing system allows the operator to recycle 80% of the process water for re-use in the plant. The plant has a 20' Cabin which houses the electrical switch gear and centralised control panel c/w PLC. The plant has been factory maintained and well serviced during its operation.

The Aggregate Recycling Market is booming Globally at the moment and this plant offers the purchaser the opportunity to capitalise on the current market as it is tried, tested and readily available. The modular design of the plant means that it has been designed for transport meaning it is relatively easily moved compared to traditional static installation.

The Wash Plant is made up from a number of Modules:

1. AGGRESAND 206 3D2S

FEED HOPPER/FEED CONVEYOR/RINSING SCREEN/SAND PLANT & STOCK
PILERS ON ONE CHASSIS



The Award winning Terex Aggresand 206 is the ultimate wash plant with huge production capacity in both natural and recycling applications. Only quality components have been used in its manufacture including Weir Pumps and Cyclones, Bonfiglioli Gearboxes and Weg Motors.

FEED HOPPER

The Aggresand 206 has a generous H12 (12m³) **feeder hopper** with an integral two deck vibrating grid. The vibrating grid is fitted with 4" bofor and a woven wire bottom deck. The grids tipping feature can be operated remotely from the excavator cab. The feed hopper has a variable speed feature and is powered by a powerful 37kw electric/hydraulic powerpack.

MAIN FEED CONVEYOR

The Aggresand 206 has a robust main conveyor which is 23m long and is fitted with a 1000mm wide belt. The main conveyor is fitted with an over-band

magnet for the removal of ferrous material and also has a West Weigh belt scale. The main conveyor features an integral wash box which fluidizes the material before rinsing.

RINSING SCREEN

The heart of the Aggresand 206 is its large 20'x6' – 3 Deck rinsing screen – the screen is powered by a powerful 22Kw motor. The screen is fitted with H/D Polyurethane modular mats on all three decks. The wash system remains static and does not vibrate with the screen. The screen's chute system has a gate system to allow blending of products.

SAND PLANT

The Aggresand 206 has a huge sand washing capacity employing both a 660mm and 500mm rubber-lined Weir Cyclones to remove silts and clays below 75 micron. The cyclones are fed by two powerful Weir Pumps. The clean sand underflows from the cyclones are dewatered on a huge 14'x6' split dewatering screen – the two sands are stock piled by two remote radial stock pilers.

2. CRUSHER RE-CIRC

The wash plant includes a modular Terex TC1000 Cone Crusher – this crusher is known Globally for its reliability and stone shaping characteristics. The crushing loop includes an 8m³ surge bin to allow choke feeding, a feed conveyor c/w overband magnet and metal detector. A TC5032 Powered Radial Conveyor is used to stock pile or recirc the material back to the wash plant.



3. AGGRESCRUB 150 (LOGWASHER)

The Aggrescrub 150 scrubs the feed material to remove clays and other contaminants such as wood, plastics, organics, etc. The Aggrescrub has dual drive which employs two 22Kw Motors mounted on H/D Renold Gearboxes. The Aggrescrub has a 6'x2' trash screen to dewater the lights/organics recovered from the material. A dewatering screen rinses & dewateres the material after scrubbing.

4. TRANSFER CONVEYOR

A fully galvanised conveyor transfers the scrubbed aggregate from the Aggrescrubs DW Screen to a final sizing screen. This conveyor is fitted with an integral walkway and catwalk and is again powered by a bonfiglioli gearbox and weg electric motor.

5. SIZING SCREEN

The final sizing screen is a 16x5 – 3 deck screen again fitted with H/D polyurethane modular mats. This screen is supported on a very robust galvanised structure and has heavy lined chutes and underpan- the screen has the ability to produce four accurately sized aggregate products.

6. AGGREGATE STOCK PILERS

Four TC5032 (50' Long x 32" Belt) Stock Pilers stock pile the washed and sized aggregates into generous stock piles and again electrically driven.

7. CENTRALISED CONTROL CABIN

A 20' Container is used to house the Wash Plant's Switch Gear and Central Control Panel. The Panel features a full PLC which automates the plant start up and shut down sequence and provides all general information on plant health while running.

8. WATER TREATMENT SYSTEM

The Wash Plant has a Matec Water Treatment System which reduces the sizes of ponds required for the plant while have the ability to recycle 80% of the process water for re-use in the plant. The water treatment system consists of a floc mixing plant, an automatic floc dosing unit, a 10m flat Bottom rake thickener and clarified water tank c/w re-circ pump. The thickener also a pump for pumping thickened sludge to the pond.