

# Finlay introduces dual power crushing and screening train to Africa

**Bell Equipment has received the first FINLAY dual power crushing and screening 'train' on the African continent. These products mean that African customers can now have the flexibility to operate a fully mobile crushing and screening plant that can be powered from mains electric or run self-powered if required.**

This is the first in a number of exciting new FINLAY product introductions to the Southern African market place that will take place in 2015. The dual power train is a new concept for Finlay Crushers and Screeners and comprises the J-1175 Jaw Crusher, C-1540 Cone Crusher and 694+ Inclined Screen. These three machines are market leaders in their size category with many units already operational across the African continent.

The dual powered crushers are electrically driven allowing users to run from electrical supply with the aim of giving significant savings on energy costs. These machines are also fitted with an onboard gen-set allowing the operator to move and use the machine where there is no electric supply giving the flexibility and versatility of current standard models.

In applications where a full train is powered by the on-board gen-set configuration the Crushers generate sufficient energy to enable the operator to run the FINLAY 694+ dual power Inclined Screen for 'free' when used in conjunction with the J-1175 dual power Jaw Crusher.

"We are excited with the introduction of these new models to the South African marketplace. These crushing and screening models are already well respected and the flexibility of dual power will only enhance their reputation with operators in the market place. We've already had a positive response from our conversations with customers and are confident that this will result in firm orders in the near future," says Paul Chappel, FINLAY Regional Sales Manager.

## **Finlay dual powered J-1175 tracked mobile jaw crusher**

The dual powered FINLAY J-1175 Jaw Crusher offers operators the flexibility to power the plant either by mains electric connection or the onboard gen-set power pack configuration. Either power option presents operators with significant power, servicing and maintenance cost savings in direct comparison to a diesel/hydraulic powered plant.



The plant incorporates the robust and renowned JW42 high performance electrically driven single toggle jaw chamber and a heavy duty VGF feeder to give optimum production in quarrying, mining, demolition and recycling applications. Additional benefits include rapid set up time, ease of maintenance, high reduction ratio, high output capacity and advanced electronic control system.

The jaw chamber is hydrostatically driven which offers operators reversible operation for clearing blockages that may be experienced in demolition and recycling applications.

The hydrostatic system also provides variable chamber speed to suit given applications. Chamber CSS (Closed Side Setting) adjustment is fully hydraulic, and can be changed in a matter of minutes.

## **Key Features:**

- The plant's electrically driven power systems provide significant cost advantages and efficiencies.
- Superior performance in dusty applications and in high altitude environments.
- The robust high performance hydrostatically driven single toggle jaw chamber provides high capacity with large reduction ratios.
- Automatic variable speed VGF ensures continuous choke feeding of the crushing chamber for optimal productivity.
- High powered hydrostatic drive ensures precise chamber controls and reverse functionality for clearing blockages and assisting in demolition and recycling applications.
- Fully hydraulic closed side setting minimises downtime and offers quick adjustment.

## **FINLAY C-1540 dual power cone crusher**

The dual powered FINLAY C-1540 Cone Crusher offers operators the flexibility to power the plant either by mains electric connection or the onboard gen-set power pack configuration. Either power option presents operators with significant power, servicing and maintenance cost savings.

This energy efficient and productive machine incorporates the proven Terex® 1000 cone crusher with direct electric drive, automatic tramp relief and hydraulic closed side setting (CSS) adjustment.

The dual powered FINLAY C-1540 can be fitted with an optional patented pre-screen module which allows fines materials to bypass prior to being fed to the crushing chamber offering better wear rates in the crushing chamber. These fines materials can also be prepared a separate and discharged via the optional on-board side conveyor.

The large hopper/feeder has an automated metal detection and a purge system to protect the cone and reduce downtime by removing metal contaminants via the purge chute.

## **Key Features:**

- The plant's electrically driven power systems provide significant cost advantages and efficiencies.
- Superior performance in dusty applications and in high altitude environments.
- Optional pre-screen module maximises production and reduces wear on the chamber by removing fine material before it enters the cone.
- Metal detection system on feed belt with 'auto-stop' protects the cone from tramp metal and the purge system removes contaminants from the machine.

## **FINLAY 694+ dual power inclined screen**

The FINLAY 694+ dual power Inclined Screen provides customers with the option of running this class leading machine by either diesel or electric mode depending on the resources available at each particular site. In territories with wide disparities in the quality of fuel or where the price of fuel is an issue versus electricity prices the machine will also have particular advantages.

As standard the FINLAY 694+ dual power uses 2 x 37kW IE2 electric motors which operate at 50Hz and are suitable for most regions, however, a 60Hz and/or IE3 set-up can be configured to suit particular regions such as the USA.

The intuitive and user friendly electrical and hydraulic system allows the customer to switch between diesel and electric mode at the flick of a switch. The primary operation and controls of the machine remain the same regardless of the selected power. It is possible to power the 694+ Inclined Screener using the onboard genset of the J-1175 dual power Crusher meaning that operators can essentially run the screener for free!

The FINLAY 694+ dual power features a large 6.1m x 1.525m (20' x 5') triple deck inclined screen giving a total screening area of 28m<sup>2</sup> to provide efficient screening and high capacity.

## **Key Features of the FINLAY 694+ diesel / electric machine are:**

- Optimal running at all altitudes
- Less maintenance associated with working in dusty environments
- No servicing of engine (or reduced depending on the amount of tracking being done)
- No refuelling of engine (or reduced depending on the amount of onsite tracking being done)
- Reduced noise when running
- Reduced running costs.

