

Powerscreen celebrates 50th anniversary at Hillhead 2016

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Powerscreen, one of the world's leading providers of mobile crushing and screening equipment, is celebrating 50 years in business this year.

Established in 1966, Powerscreen has earned and maintained its reputation as one of the biggest and the best in the crushing and screening industry.

To celebrate their success and this landmark anniversary, Powerscreen will launch celebrations at the Hillhead Exhibition, 28th – 30th June 2016 in Buxton, England.

Colin Clements, Global Product Line Director said, "Powerscreen have been providing the crushing and screening industry with high quality, innovative products for 50 years and we are excited to celebrate that success with those who matter - our distributors and customers. By kicking off the celebrations at Hillhead, we will be able to showcase new and revamped equipment with live working demonstrations. We will then continue back in Northern Ireland where it all began. Celebrations will be exceptional and will show Powerscreen for what it is, a global leader with passion and power."

Powerscreen will be at stand L10 at Hillhead and will showcase an array of existing and newly released products with live demonstrations in the working display area, as well as showcase machines on its booth.

Visitors to the demonstration area will see three machines in action. The new generation Powerscreen® Premiertrak™ 400 jaw crusher will work independently, while the Powerscreen® Trakpactor™ 550 impact crusher will feed the Powerscreen® Chieftain™ 2200 3 deck screen.

The Powerscreen stand will also showcase an array of existing and newly released products, including a Powerscreen® Warrior™ 600 screen, Powerscreen® Warrior™ 2100 screen, Powerscreen® Premiertrak™ 300 jaw crusher, Powerscreen® Premiertrak™ 600 pre-screen and a Powerscreen® 1150 Maxtrak™ cone crusher.

Powerscreen will also be displaying the modular screenbox system for the Warrior 2100. With typical mobile screens, the screen box is a fixed component in the machine. The Warrior 2100 has turned that on its head by offering a choice of three screenboxes that can be interchanged as needed. This opens the machine up to an unprecedented number of applications. Each screenbox will be on display at Hillhead, as well as a comprehensive display of screen media available across the Powerscreen range.

These machines and displays will provide visitors with a fantastic overview of the comprehensive Powerscreen product portfolio.

New Generation Premiertrak 400 Jaw Crusher

The Premiertrak 400 has been redesigned to run at a low engine RPM, resulting in excellent fuel efficiency and low noise emissions, resulting in a lower cost per tonne, making it ideal for urban sites. It joins the new styling pioneered on the Premiertrak 600, with GRP panels designed for ease of access delivering a modern look while maintaining the robustness associated with Powerscreen products.

The machine that we are exhibiting at Hillhead will be fitted with the optional post screen system allowing users to generate a type one product at high volume from one machine. It has been designed so that it has a quick release system, to ensure maximum uptime and easy service and maintenance.

The new generation Premiertrak 400 will be available with a constant speed engine option for Europe which eliminates a requirement for expensive and complex exhaust after-treatment systems.

Trakpactor 550 Impact Crusher

The introduction of the new Trakpactor 550 horizontal impact crusher will provide customers with supreme levels of reliability, efficiency and performance. Coupled with the sleek and modern appearance of the machine, the Trakpactor 550 is set to dominate in the mid-to-large range class of its rivals. The striking aesthetics of the machine don't detract from the robust and heavily engineered chassis and sub-structures within the plant.

From the feeder right through to the product conveyor, the Trakpactor 550 has been designed to promote an easy and effective flow of material to minimise any potential material build-up and thereby ensure maximum uptime. The optional pre-screen unit has incorporated the same leading technology that has made the Powerscreen mobile screen range world-renowned. The 2.1m pre-screen length and large open area allows the maximum amount of fines to be removed, thus maximising production and minimising wear costs. This is just one of the features that contributes to the astounding low cost per tonne performance of the Trakpactor 550.

The brand new chamber design has been rigorously developed and tested so there is 100% confidence in its abilities and durability. Features such as the hydraulic inlet lid and the automatic adjustment system ensure ease of use for the operator, whilst the auto rotation system for blow bar changes also demonstrates the

focus on machine safety.

Like all Powerscreen crushers, the Trakpactor 550 comes complete with the Pulse remote monitoring system as standard. Powerscreen Pulse is a remote monitoring, fleet management system allowing crushing and screening equipment operators and owners to have unrivalled access to key data. Analysing this data can improve machine operation, increase uptime and allow in-depth reporting and fleet management.

Powerscreen Pulse is available anywhere at any time, on a PC, tablet or smartphone and provides comprehensive information on the GPS location, start and stop times, fuel consumption, tonnages, cone settings, wear ratings, operating hours, maintenance status, and much more.

Chieftain 2200 3 Deck screen

The Powerscreen® Chieftain 2200 triple deck is designed for operators who require large volumes of high specification products with maximum versatility. It has a revolutionary patent pending drive system which allows switching between 2 and 4 bearing with bolt-on parts. With a 4 bearing box, the efficiency of the screen can drop as the box length increases. The box also can become susceptible to torsion, which twists the metal and can cause fatigue. By splitting up into two individual boxes, the Chieftain 2200 is able to run aggressively without the constraints of a larger box. The Chieftain 2200 can screen with a 20% increase in 'G' compared to similar screens with the same surface area. The maximum variability of the Chieftain 2200 triple deck, offers improved capabilities over its class rivals, especially when trying to make high specification aggregate. It's two highly versatile, triple deck screenboxes provide a total screening area of 19.5m².

Warrior 600 screen

The Warrior 600 is the most compact heavy duty mobile screen and makes the Warrior range the widest in the market with six machines of varying size to meet a variety of customer requirements. Ease of transport is only one of many exciting features on this new model. The Warrior 600 screen is highly versatile with its ground-breaking simple conversion from 3-Way Split mode to 2-Way Split mode which can be completed in minutes. It has been specifically designed for operators for whom versatility, manoeuvrability and transportation are of key importance. The Warrior 600 also features a highly aggressive 2.4m x 1.2m screenbox capable of 6g of acceleration. The high-strength, high amplitude, two-bearing screenbox promotes easy handling and separation of large items from material fines in recycling tasks, such as soils from tree stumps and logs, fines and rock from overburden and blasted rock. User benefits include a rapid set-up time and ease of operation aided by hydraulic folding side conveyors, rigid feed hopper sides and two speed

tracks.

Warrior 2100 screen

The Warrior 2100 is the most versatile Powerscreen screen yet. It has three interchangeable screenboxes which open it up to an unparalleled number of applications.

The triple shaft screen includes our proven drive technology, first developed for the successful Warrior 2400 screen, a model which is now well established in markets worldwide. This triple shaft technology, unique to Powerscreen heavy duty mobile screens, is designed so the 4.8m x 1.5m screen box is highly effective and efficient while maintaining exceptional throughput productivity. The extreme screening acceleration offers the Warrior 2100 screen improved capabilities over its class rivals, especially in sticky scalping applications. With amplitudes and accelerations in excess of 16mm and 6g respectively, the Warrior 2100 triple shaft screen is more prolific at removing and breaking up clay materials than any of its class rivals.

The single shaft screen utilises the effective screen drive system found across the Warrior range. It can be fully fitted with the wide range of screen media Powerscreen have available.

The Spaleck screenbox offers their 3D punchplate top deck with tumbling fingers, designed to allow elongated pieces such as logs to pass over the screen. The bottom deck is a Flip-Flow screen with aggressive acceleration and excellent product cleaning.

The Warrior 2100 screen is designed with economy in mind, with reduced fuel consumption being offered through a lower engine running speed of 1800rpm and enhanced hydraulics. With media solutions which include Bofor Grizzly, Finger Modules, Punch Plate and new 3D Punch Plate, the Warrior 2100 screen is extremely efficient in scalping, screening and recycling applications.

Premiertrak 300 jaw crusher

The Premiertrak 300 has been redesigned to incorporate more efficient manufacturing operations to make it a more competitive machine in the market.

Powerscreen have resized the engine to offer a reduction in fuel consumption, with a lower cost per ton. The chamber is one of the highest producing chambers in its class, capable of producing up to 280tph (308 US tph) of crushed material. It has been developed with the option of a vibrating grizzly feeder or a large fully independent hydraulically driven pre-screen, which improves fines removal and reduces chamber wear costs. Both options are proportionally controlled by engine load to maintain excellent throughput. The reversing

option allows for quick and safe clearing of blockages.

The machine has been designed with transport in mind, boasting a highly compact transport envelope which translates to savings on shipping costs and times. An intuitive control panel allows machine settings to be changed easily and provides excellent diagnostics for fault finding if required.

Powered by a low emission, low consumption Tier4 Final Caterpillar diesel engine, the Premiertrak 300 combines the output of some larger machines in compact dimensions to allow access to tighter, more congested city centre sites. The low speed engine combined with low engine noise means the crusher can be used in city centre locations with little noise impact on the surrounding area.

Similarly to the new generation Premiertrak 400, the Premiertrak 300 will be available with a constant speed engine option for Europe.

Premiertrak 600 Pre-Screen

The diesel-hydraulic and diesel-electric variants of the Premiertrak 600 jaw crusher have been designed and constructed to deliver maximum production and performance with increased uptime and low running costs. The high capacity jaw is fed by a vibrating grizzly feeder with variable speed control and a large grizzly area to maximise removal of fine material enabling maximum wear life of jaw plates within the crusher chamber. The bypass chute is also fitted with wear-resistant liners as standard, and incorporates an adjustable five-position deflector plate to divert material to either the product or side conveyors.

The machine control system incorporates a state of the art, modern interface with intuitive graphics and high resolution display for ease of operation. This is further enhanced with the automatic start/stop functionality, excellent diagnostic capability and straightforward machine adjustments. The speed of jaw crusher on the Premiertrak 600 can be varied to suit the application and therefore optimize performance. In addition to this, the hydraulic system has been designed and configured to increase uptime and fuel efficiency.

The Premiertrak 600E electric variant is equipped with an over-size genset sufficient to run another plant (it successfully powers the large Powerscreen® Warrior™ 1400XE heavy duty scalping screen) and additionally can be powered from a mains source which substantially decreases the running costs and environmental impact.

With speed and safety in mind, the Premiertrak 600 can be fully set up from ground level thanks to its hydraulic folding and locking hopper system. It can be adjusted to maximise productivity in any application

and can be configured with an independent live pre-screen for the efficient removal of scalped materials either into a waste or a sized sub-base product.

1150 Maxtrak Cone Crusher

Targeted at quarry operators and contractors alike, the 1150 Maxtrak model builds upon the success of the 1000 Maxtrak and 1300 Maxtrak models offering unrivalled performance, production and versatility. The crushing action of the 1150 Maxtrak model also delivers the same superb product shaping for which the other Powerscreen cones have become world-renowned. The machine will be offered in two key configurations: a direct feed model and a pre-screen version which enables customers to handle dirty feed material and achieve higher production rates. With a choice of strokes and four liner options, which are all compatible with a single upper frame, the 1150 Maxtrak cone crusher can be easily configured for all applications. Feed sizes of up to 205mm (8.1") are possible with the 225kW cone chamber, which is driven directly by a fuel efficient 331kW Scania DC 13 engine that complies to the latest Stage IV emission regulations. One of the most impressive features of the pre-screen model is the patented hydraulic folding system, which converts the machine into a direct feed layout in minutes, delivering unparalleled flexibility to the end-user.

The 1150 Maxtrak cone crusher is designed with transport in mind, boasting a highly compact transport envelope which translates to savings on shipping costs and times. It weighs approximately 42,900kg (47.29 US Tons) without options and features two speed tracking for excellent mobility. An intuitive control panel allows machine settings to be changed easily and provides excellent diagnostics for fault finding if required.

Visit stand L10, at the Hillhead Exhibition in Buxton, England to see what Powerscreen has to offer you. For more information on Powerscreen® crushing and screening products or Customer Support, please contact your local distributor.

Source: Powerscreen