



In this edition:

- Invest smart, earn money
- Keestrack in coal
- GPS tracking and servicing
- The new Destroyer 1113
- Redesigned Apollo & Giove Jaw crusher
- S175 with full service contract



EDITORIAL

Engine news

All engine producers strive to reduce their emissions to comply with new regulations and to gain an advantage. Some cities only allow the cleanest engines to operate within city limits.

Keestrack closely follows these innovations to ensure the best possible engine for each machine.

At the middle of 2015 Keestrack will change its standard engines in all mobile crushers and screeners to either Tier 4i EU Stage IIIB or Tier 4f EU Stage IV engines. The new engines are more economic and better for the environment however modern Diesel engines are more vulnerable to contamination. That is why Keestrack installs a complete set of heavy duty filters with special waterabsorbing filter media to protect the engine.

These filters reduce maintenance costs and downtime and improve the engine performance and reliability. It starts at the fuel fill pump, before entering the fuel tank water and particles are removed by a 3 micron filter. The filter traps water by forming a gel.

Also another 3 micron filter filters the incoming air for an optimum combustion.

On top of this, a high quality fuel and water separation and particle filter, of 7 micron at the engine is installed for optimum fuel quality. The StrataPore filter medium takes out particles but also traps water, and is of the highest quality on the market.

All these filters make sure your engine is well protected against contaminations, and they are easy to maintain. They should be replaced every 500 operational hours and are available at every Keestrack dealer or Keestrack service centre.

Best regards,

Marcel Kerkhofs
Editor "On Track"
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"Keestrack makes sure to watch these innovations closely and to choose the best engine possible for each machine."

Invest smart, earn

Keestrack has a reputation regarding low costs of ownership. Cost effective machinery with the lowest cost per produced ton. What is the secret behind this success?

By innovation and investing in the right things.

A great deal of the cost savings is because of the use of innovative drive systems like the electric powered motors.

Last year the electric driven equipment at Keestrack has grown from 7 to 15%.

Electric powered Keestrack mobile crushing and screening equipment can operate:

- autonomous to the Diesel powered generator (genset),
- by connecting to the electrical mains
- by connecting to an external generator.

Operating results are of the same high quality as the Diesel/hydraulic driven machines however maintenance and operating costs are considerable lower.

The fuel costs are drastically reduced by switching to the Electric Powered version. ± 33% fuel savings can be achieved when powered by the onboard Genset.

When making use of external electricity from electrical mains savings can be up to 70% and emissions are reduced to a minimum.

Also the design, with easy access for maintenance and service, plays an important role. This way downtime and maintenance and repair costs, are reduced to a minimum.

Choosing the right options on the machine is essential. This looks obvious, but options are often seen as avoidable costs without making a cost-revenue analysis.



your money back!

Investing in an overband magnet may be the right thing to do when a small surplus in purchasing brings you additional revenue of regained Ferro metals which proceeds the initial investment by far.

Although Keestrack is not considered a price fighter in the market there are a lot of features on the machinery as a standard which will be considered an option on equipment from the competition.

Our sales staff has the knowledge and the drive to lay out your equipment to the best configuration possible, making sure you earn your money back in your application(s) as fast as possible. Each and every situation is unique and that is the reason we offer so many varieties in machinery, options and drive systems.



NEWS flash

New employees



Keestrack headquarters in Belgium has hired Kurt Degreeef as new After Sales Manager. Kurt has a long track record providing great service to clients in the crushing and screening industry and we are sure Kurt will be an added value to our organisation with 20 years of experience. He supports our service & parts departments and gives technical support to the sales organisation. He is also responsible for the service follow up of our Dutch and French dealers.



The Keestrack sales department in Belgium promoted Tatjana Umarova as Executive Assistant Sales & Marketing to give the highest service level possible to our sales and marketing team. Tatjana's focuss is on Central Europe and Russia.

Keestrack Founder Kees Hoogendoorn and Vice President Klaus Elit welcome Michael Brookshaw (right) as the new Global Distributor Manager for Keestrack. With 25 years of experience in the business Michael will help the company grow in territories where we have not build up the relationships we need.



On page 5 you can read the new Destroyer 1113 being introduced, being the successor of the Destroyer 1112. The completely redesigned Apollo & Giove you can see on page 6.



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Screening coal in Mongolia

Keestrack is blessed with its loyal and knowledgeable and capable dealer network around the world. Our dealers know the local needs and focus on the applications and needs of the local market.

We started in our last newsletter to put our dealers into the spot lights. Last issue we went “down under” this time we go to Mongolia.



Mongolia, Commod LLC Rocks & Minerals

Mr. Chim from Commod in Mongolia had a challenging project at the open pit Baga Nuur coal mine. In extreme weather conditions they needed to screen coal. Here you can read how they made it a success.

For mobile crushing and screening equipment in Mongolia, our dealer Commod LLC Rocks & Minerals is the place to be! Mr. Chim will offer a solution even for most extreme applications.

At the open pit Baga Nuur coal mine in Mongolia a single Novum scalper screen takes care of 2.500 till 3.500 metric ton a day under severe and dangerous circumstances as screening coal is fire hazardous.

In extreme weather conditions, like snow and temperatures around minus 30, the Novum screens in sizes 0/20mm, 20/200 mm and >200 mm.

As the factory recommendation of the Novum is to run until -15°C some adjustments have been made on the machine and working methods.

- the engine compartment has been insulated to stand severe cold
- hydraulic oil, engine oil and coolant has been changed to stand temperatures until -40°C.
- all bearings, oil and Diesel fuel and the engine are preheated
- every shift the bearings are greased
- every 4 hours the screen and engine compartment will be cleaned from build up coal dust.

The Novum capacity screening coal is 2.500 till 3.500 tons per working day of 16-21 hours. The hourly capacity is on average 200 ton/hour. The screened coal will leave the quarry by 45 till 60 railway wagons every day each carrying 65 ton.

The fuel consumption under these extreme circumstances is only 10 - 12 litres an hour.

www.keestrackmongolia.mn



Novum screening coal in Mongolia at 200 ton/hour

Coal is the goal

Also in other countries Keestrack mobile crushing and screening equipment is active in coal applications.



Explorer 1800 2-deck screening coal in South Korea



Explorer 1800 2-deck screening coal in Russia



Frontier screening coal in China up to 500 ton/hour



Destroyer 1112 impact crusher, crushing coal in China up to 400t/h

The money makers



Choosing the right options is essential on your return on investment and on your profits.

All clients work in different circumstances, in all sorts of applications, in all sort of conditions. This means investing in mobile crushing and screening equipment is not easy, especially when you are thinking in investing in a complete production line.

Keestrack is at your service. We offer our expertise to help you making the right choices.

We have a scientific approach on how to deploy our machinery in your application. Of course there are many questions to be answered to make the best set up for you, taking your budget into account.

We calculate to offer you the best return on investment. We search for the optimal set up of your machine and optimize your profits while reducing your service and maintenance costs.

A simple screen brake for instance, can get you much better screening results while the investment is small.

Some examples:

By investing in a stronger overband magnet we regain much more Ferro metals in our recycling application and the earnings of regaining metal brings us the most money.

Pouw Group, Holland

The reason why Theo Pouw Group from the Netherlands has opted for an electric powered Destroyer 1313 impact crusher in their recycling application is because of its very minimum CO² emission. "In view of today's fuel prices, the additional outlay for the electric powered ECO-EP+ is rapidly recovered and essential to maintain competitiveness," according to the Theo Pouw Group.

All Keestrack mobile crushing and screening equipment can be converted to your specific needs. Our sales staff will support you in choosing the right set up of your machine. Choosing the right options will optimize your profit while the costs of ownership are brought back to a minimum.



Tracking and servicing from a distance



A new option on all* Keestrack Group equipment is the Remote Control Application given the possibility to control and monitor our equipment from a distance.

The remote control system can give 2 types of service: real time service or web portal service.

Real Time Access:
with this function a remote maintenance of the machine can be made. All parameters can be checked remotely by Keestrack and, if necessary, a remote update of the software can be made. Through this function it is also possible to send commands to the machine to test machine functions.

Web Portal Service:
This function is reserved for dealers and end-users and is accessible all over the world. You can monitor the status of all connected machines equipped with this system. With the GPS function the dealer or end user can locate its machine 24/7 and also, through the tracking function, see the route, distance and speed of the machine. Also setting up a Geo-fence is possible with this system.

Geo-fencing is simply explained by setting up some parameters in which the machine can function normally. If the machine is for instance outside of the set perimeter the machine will be shut down.

It is possible to create graphs and reports from the data stored inside the modem in the Real Time Access and Web Portal Service mode.

The system uses a GSM/UMTS (Universal Mobile Telecommunications System) modem system combined with a combined GSM/GPS antenna with a CAN-BUS network to communicate between the modem and the controller.

Advantages of this system are:

- possibility to remotely check machine parameters
- reduce service time
- see the machine position
- geo-fencing
- system is functioning worldwide
- reporting functions

Using the CAN-BUS (Controller Area Network) has the advantage it uses less wires, so it is easier to integrate into the structure of the machine and has less chances on errors and enables better diagnostics functions as many sensors can be connected.

When a client wants a full service contract this option is mandatory so the machine can be monitored continuously, settings can be remotely adjusted and maintenance can be planned better.

* except the Stacker,

Destroyer 1113 impact crusher

Kee-track group has replaced its Destroyer 1112 impact crusher with the new Destroyer 1113.

This high performance impact crusher has an independent two deck pre-screen 2200 x 1000 mm to minimize wear and to improve product shape and capacity. The dirt conveyor can be placed on either side.

The frame of the Destroyer 1113 is ± 3500 kg lighter compared to the 1112 and is made in a higher grade of steel. Its bolted frame is completely powder coated and the crusher house and the hopper walls are reinforced. The hydraulic tiltable chassis gives perfect access under the crusher. The crusher chamber itself has a better access for service, maintenance and for replacing wear parts.

The inlet opening of 800 x 1050 mm and a rotor diameter of 1260 mm is consistent with its predecessor however the new designed rotor can handle bigger distortion material.

The crusher inlet is protected by rubbers which are placed in an envelope system for easy replacement. The chains are not accessible anymore as the links have been blocked so steel wires cannot be caught into the chains anymore.

The optional secondary screening unit of 3300 x 1500 mm makes sure to obtain a perfect size end product. The wide oversize return conveyor can swivel to a stockpile conveyor.

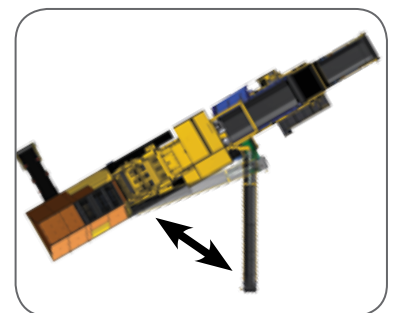
The Relytec panel makes it user friendly to operate and it is easily interchangeable for service and repair.

All these changes makes the new Destroyer 1113 around 10% more productive compared to the Destroyer 1112.

The Destroyer 1113 impact crusher is also available in an Diesel/ electric direct drive version and with a 4-axle Dolly system for transport.



	without afterscreen		with afterscreen	
Transport height	3.490 mm	11'5"	3.490 mm	11'5"
Transport width	3.000 mm	9'10"	3.000 mm	9'10"
Transport weight	42,5 t	46 sT	50 t	55 sT
Transport length	14.700 mm	48'3"	16.682 mm	54'9"



Destroyer 1113 with return conveyor and afterscreen



Destroyer 1113 swiveling return conveyor to stockpile conveyor

New designed Apollo & Giove jaw crusher



The redesigned Apollo with sliding frame, a novelty

Keestrack-OM has redesigned two of its successful jaw crushers.

After the success of the redesigned Argo, with a total weight under 30 ton, Keestrack-OM redesigned the Apollo & Giove.

The 42 ton Apollo jaw crusher has a C.S.S. of min. - max. 45 - 170 mm, and a stroke of 29 mm of the swing jaw.

The Apollo has a separate driven double deck pre-screen of 2300 x 1000 mm and the fine fraction can either go via the crusher bypass or can be separately stockpiled by the optional side dirt conveyor.

The crusher, with the Non Stop System to ensure a perfect crushing result by resetting the gap hydraulic during operation and to protect the crusher for uncrushable feed, will reset itself automatic if needed. The feed opening is 1100 x 700 mm.

A real novelty on the Apollo is the sliding frame! To obtain good and easy access the feeding and scalping unit can be moved back hydraulically. This way the hopper and pre-screen moves 600 mm to the back.

The new remote control concept enables the jaw crusher to restart with a full crushing chamber. The Relytec panel makes it user friendly to operate and it is easily interchangeable for service and repair.

Transport height	3.360 mm	11'
Transport width	2.700 mm	8'10"
Transport weight	41,4 t	45 sT
Transport length	15.830 mm	51'1"



The Relytec control panel is the new standard on Keestrack equipment

The 51 ton Giove also has been redesigned to improve accessibility for maintenance and service as well as improving operations by using the Relytec panel and the new remote control concept which enables the jaw crusher to restart with a full crushing chamber.

The Giove's 2300 x 1000 mm separate driven double deck pre-screen has several advantages, besides reducing wear and to improve crushing results. The fine fraction and the intermediate fraction can either go via the crusher bypass or can be separately stockpiled by the optional side dirt conveyor.

The crusher, equipped with the Non Stop System, monitors the crushing setting and protects the crusher for uncrushable feed. The feed opening of the Giove is 1100 x 800 mm.

C.S.S. min. - max. is 75 - 170 mm, 29 mm stroke of the swing jaw.

The Giove and the smaller Apollo are perfect to be used in all sorts of applications from Quarrying & Mining to Recycling and everything in between. Both jaw crushers can be extended with numerous options to suit your specific application.

Consider all possible options to get the quickest return on investment possible. Do not stick to the basic model if options can generate much more profit! This can be by optimizing the results, like regaining more Ferro metals by getting a high quality overband magnet, or by reducing maintenance and service costs, by investing in a remote control Application with GPS as explained on page 4, or other options.

Also take into account where the machines will be operating. If your projects are mainly in city centres you might want to invest in the newest engine to meet city's regulations on engine emissions.

Anyway, whatever your applications are, our sales staff, dealer network and our service staff is there to help and assist you in making the best choices for you. It is our job to ensure you earn your money with Keestrack equipment.

Transport height	3.380 mm	11'1"
Transport width	3.000 mm	9'10"
Transport weight	50,7 t	55 sT
Transport length	15.131 mm	49'8"



The redesigned Giove in front of the Italian production facility

Sita Remediation chooses S175 in soil remediation with “Excellence” Service contract



Sita Remediation in Grimbergen, Belgium offers a full range of soil remediation techniques in order to resolve soil pollution. They have chosen for a Keestrack S175 screen combined with the “Excellence” service contract.

The S175 with a double deck screen surface of 1.500 x 5.000 mm is very compact and easy to transport and perfect for scalping and precision screening with a capacity up to 300 tonnes an hour. The S175 can be used either on site in Grimbergen or on location on other soil handling sites.

For simplified operation and maintenance the S175 uses the Relytec-control panel which is simple to operate and easy to maintain.

Mr. Johan Deroover, responsible for production at Sita Remediation, says the reasons to chose a Keestrack machine with an “Excellence” service contract is “Because the S175 has a very big screening area and the machine is versatile to be used in several applications. Keestrack has proven itself to screen difficult soil type’s like wet and sticky soil.”

Sita Remediation has chosen the conventional Diesel/hydraulic drive system on their S175. Using the advanced Diesel engine with low emission norms combined with load sensing hydraulic system which ensures a minimal impact on the environment. The load sensing hydraulic system saves 4 to 6 l of Diesel fuel an hour. The S175 is also available in a Diesel/ electric powered version with, or without, an external power connection.

The quick removable right side conveyor makes it possible to change the S175 from a 3 split into a 2 split screener if needed. This way logistic and labour costs of the wheel loader are reduced. Also, by ordering an additional set, the right side conveyor can be installed on the left side.

“The “Excellence” service contract keeps us focussed at our core business while we have a clear view of the cost as Keestrack takes care of the maintenance, inspections, analysis and repairs while Sita pays a fixed cost per production hour for all services, excluding wear parts. The contract is for 8.000 hours which shows the commitment and confidence of Keestrack”, according to Mr. Deroover.

To be able to monitor and service the S175 from a distance it is equipped with the optional Remote Control Application with GPS function as described on page 4. With this system the machine parameters can be checked, adjusted and service intervals can be planned.

For more information on service contracts, available in different service levels to suit your organization and budget, you can contact After Sales Manager Kurt Degreef at Keestrack at Kurt.degreef@keestrack.net



S175, compact but big 1500 x 5000 mm screen deck



Real Time Access of Remote Control Application, here showing the Diesel Engine page



Remote Control Application with GPS using GSM/UMTS modem and combined GSM/GPS antenna



Responsible biological soil treatment at Sita Remediation, Johan Deroover

SITA Remediation (a SUEZ Environnement subsidiary) specialises in the execution of soil/groundwater remediation work and the decontamination of polluted soil.

SITA Remediation offers total solutions, drawing on more than 25 years’ experience both in Belgium and abroad, doing so by means of close collaboration with colleagues in the Netherlands, Germany and France.

SITA Remediation offers a range of processing techniques:

- biological treatment
- physico-chemical treatment
- heat treatment
- water treatment
- recycling and reuse of soil in building materials

SITA Remediation offers customised solutions for any project.

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