

AUGUST 2010



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Sandvik Equipment Powers AR Diversification

A Leicestershire-based demolition contractor has diversified into the recycled aggregates business following a large investment in crushing and screening equipment from Sandvik Mining and Construction. With its sights set on material quality over quantity, AR Aggregates (a newly-formed division of AR Demolition) has also become the UK's first non-quarry operator of a four-way split Sandvik QA450.

AR Aggregates, the specialist recycling arm of respected demolition contractor AR Demolition, has taken delivery of a new Sandvik track-mounted mobile crusher and a pair of Sandvik track-mounted mobile screens. The QJ340 crusher and QE340 and QA450 screens form the backbone of a new aggregates recycling operation that marks a significant diversification for AR Demolition and that breathes new life into a previously run-down materials recycling operation lurking behind a thriving scrap processing yard close to Leicester city centre.

Best Equipment for Best Results

AR Demolition has a well-earned reputation for doing things that little bit differently; of taking things a little bit further; of punching above its weight. Despite being a relatively young company, AR Demolition's track record on personnel training, for example, is second to none. Each of its impressive and well-maintained fleet of Volvo hydraulic excavators and wheel loaders bears the familiar pink ribbon emblem as a constant and

public reminder of the battle with breast cancer fought by the wife of co-director Richard Dolman. And the purchase of the new Sandvik crushing and screening equipment in general and the QA450 in particular, underlines the company's determination to be different.

"We could have just bought a second-hand crusher and screen and been content with producing a 6F2 product, but there are plenty of other companies doing that. We wanted to be unique in this area," explains co-director Andrew Thompson. *"We have, therefore, invested in the best possible equipment to ensure that we can provide our customers with the best possible materials."*

Well Equipped

The home of AR Aggregates is a 0.6-hectare area that sits above and behind the AE Burgess scrap and waste processing facility and where AR Demolition has been a customer for many years. *"When the previous incumbent announced that he was leaving, AE Burgess approached us and asked if we would be willing to take it on,"* recalls Richard Dolman. *"We had been considering a move into the recycling field for some time but the thought that we could work alongside an established contact like AE Burgess just polarised things for us and we leapt at the opportunity."*

The company took up residence in December 2009 and, under the direction of newly appointed manager Darren Thompsom (Andrew's brother) immediately set about rejuvenating the facility. A 2,000 m² area of the site



was concreted to help minimise winter mud and summer dust; a set of new Portakabins complete with a viewing platform was installed along with a new on-site fuel tank; and a new Volvo L110 wheel loader with on-board weighing and a Volvo 210B excavator from the company's demolition fleet arrived on site and set about cleaning up the various stockpiles of material.

Competing with Quarries

While the site was being laid out to Thompson and Dolman's specifications and in accordance with WRAP protocols, the two set about identifying the most appropriate crushing and screening equipment for their needs. *"The QJ340 (formerly the Extec C-12+) largely chose itself. The hydrostatic drive means that it can operate in reverse, ideal for applications like ours where asphalt may be present. It is the industry standard and we have hired them dozens of times over the years,"* Dolman insists. *"But we really had to do our homework on the screening equipment as this would ultimately determine the consistency and quality of the recycled products we'd be able to produce."*

Following extensive trials, demonstrations and factory visits, and with the guidance of Sandvik representative Adrian Fletcher, Dolman and Thompson ultimately chose the Sandvik QE340 and QA450. *"The decision to work with Sandvik was based partly on the expertise and help given to us by Adrian Fletcher and also on the fact that their factory and European parts stock at Swadlincote is just 40 minutes up the road, extremely useful if we ever need spares in a hurry,"* Thompson says. *"Our decision to purchase the Sandvik QA450 was driven by our determination to compete with local quarries with a range of recycled products that are of as consistently high quality as virgin aggregates."*

The Sandvik QE340 incorporates a large 4.7 x 1.5 metre screen box for optimum productivity in a wide variety of materials. The QA450, meanwhile, has a pair of 3.05 x 1.52 metre screen boxes that are individually driven and actuated to allow greater control over the output material.

Comprehensive Range

That range of products includes a 6F2 <75 mm grade; a <40 mm Type 1 equivalent; a 75 to 40 mm clean product that is ideal for applications including piling mats; 20 and 10 clean fractions; and a 0 to 5 mm dust that is already proving popular with local authorities seeking pipe bedding material. *"Very few recycling companies are able to offer this breadth of products and I think we're unique in offering a high quality dust product,"* explains Dolman. *"We have already been visited by the local authority, Highways Agency and the Environment Agency, all of whom have given us their seal of approval and all of which are now potential customers."*

In addition to these customers, AR Aggregates is already drawing skip and demolition waste material from a 40 kilometre radius and production is gradually ramping up. However, the company has little interest in pure tonnages, preferring to concentrate on supplying a consistent, high quality material. *"We probably have the capacity to produce 1,000 tonnes per day of a 6F2 product but there are plenty of other companies already doing that,"* Thompson asserts. *"We would prefer to concentrate on creating a product that is a genuine alternative to virgin aggregates in a variety of applications."*

Dolman and Thompson readily admit that the formation of AR Aggregates represents the group's largest single investment and that it has taken place during a time when the entire UK economy is in recession. But the pair remains optimistic about the prospects for their fledgling operation. *"We are based close to Leicester city centre so we can offer local demolition companies an ideal alternative to noisy and dusty on-site crushing and screening. We are working closely with AE Burgess, a company with an excellent reputation. And we have built our entire operation in accordance with WRAP protocols,"* Richard Dolman concludes. *"In addition, we are using high quality Sandvik equipment to produce a high quality product for high-end customers. We are setting a new local standard."*

Complete ALLU Product family

ALLU launches in Bauma a complete D -series that includes models for 4 - 45 tonnes base machines. The new D -series also includes models with changeable blades in addition to the fine screening models launched last year. With ALLU D -series you can screen, crush, mix, and stabilize different materials. ALLU presents its products at inside stand Hall B3, stand 323 as well as outside stand N914/1, where live demonstrations are also organised.



ALLU Pioneer before others

During its over 20-year-history ALLU has brought new ideas and technologies to the market by listening to its customers very carefully. As a pioneer of the screener crusher technology ALLU has spread the awareness of this new working method. The technical characteristics of the product and new innovations have convinced customers worldwide.

The new ALLU D -series includes all together 37 different models for 10 - 45 tonnes excavators and 4 - 30 tonnes wheel loaders. There are three (3) different frame options: Basic, Strong and Heavy Duty. The correct model will surely be found for each application. Strong frame and patented fender plate against dust are just few of the innovations ALLU has developed for the new series. Also worth paying attention to would be the easy usage of the ALLU products and strong power transmission.

Modifiable from one jobsite to another

With the changeable blades, the characteristics of the machine can be easily modified according to the task at hand. Machine equipped with drums with changeable blades can be modified to work from one job to another, no matter whether the job is screening top soil, screening and crushing demolition waste or aerating compost.

Excellent fine screening results and high capacity can be achieved with Disk in Disk technology without the crushing effect. The efficient power transmission and advanced structure enable the handling of one scoopful of material with one start-up and without any back and forth rotation. For end product fragment size either 15 mm or 25 mm can be selected.

With stabilisation drums mixing and aeration of different materials that are extremely wet and sticky can be done easily and quickly.

New Pressure Feeder for Stabilisation

The new ALLU PFM (Pressure Feeder Mobile) is presented at ALLU outside stand F9/N914. The new PFM is designed for feeding dry binder and is built on a trailer to ensure easy transportation from one job site to another. The new ALLU PFM is excellent for feeding two different powders, so not only is it a feeder for stabilisation projects, both Mass and Column equipment, but it can also be used as a mobile powder blender, for many other industries.

In addition, the system has two 10m³ tanks, powerful engine and capacity to stabilise up to 150m³/h with a maximum feeding distance up to 200m from the feeder. The more powerful engine, compressor and flexible controlling technology also make the ALLU PFM suitable for feeding column stabilisation piling rigs.



The new GipoCOMBI RC 130FDR mobile crushing plant makes a further impression in Wales

Following the supply of a GipoCOMBI RC130FDR mobile crushing and screening plant to Lafarge - Ewenny Quarry in Bridgend, South Wales in late 2009,

Aggregate, Processing and Recycling Ltd of Tamworth the UK and Northern Ireland GIPO distributor has recently sold a further machine to the Cuddy Group for immediate delivery. The machine which will be commissioned in August will produce single size aggregates whilst being operated as a primary & secondary crusher. The system will process high tonnages of "as-blasted" limestone into 0-5 and 5-25mm aggregates.

The GipoCOMBI RC130FDR which was exhibited at the recent Hillhead show is a heavy duty, highly efficient machine of compact design which is driven by a Caterpillar C15 engine supplying 430kw in total, allowing 380kw + to be applied to the crusher. Featuring a dual-zone blockage release system, the variable speed P130 impact crusher allows maximum variance on output grading; all gap adjustments are hydraulic and crusher inlet + top apron have hydraulic lift for blockage reduction.

A variable speed feeder supplies material to a 2 deck pre-screen with scalping at 0-40mm and crusher bypass facility. Crusher discharge is catered for with the provision of a tray feeder as standard to absorb impact and protect the conveyor. Final screening of material is performed by a 4.5 x 2 metre - 2 deck screen incorporating a 25mm aperture top deck and a 5mm aperture bottom deck.

To ensure optimum dust suppression the machine is fitted with a system including an on-board water pump which supplies spray bars at the crusher inlet / outlet and also to all conveyor heads.



Additional features include aluminium covers on all conveyors, plus walkways and maintenance platforms around all relevant parts of the machine for easy maintenance.

The GipoCOMBI RC130FDR has significant advantages over other machines as it utilises a system of combined crushing and screening in closed circuit, achieving maximum efficiency. With fuel consumption significantly lower in comparison to a separate crusher and screen, the machine also has the advantage of a much quicker set-up and movement times than when aligning two separate units.

Other major advantages include the reduction of loading and stockpile clearing activity. Once material is fed into the GipoCOMBI it is contained within the machine until the process is complete, hence no extra work, or fuel usage on loading shovels handling oversize stone back to the hopper.

Maintenance is well catered for as the machine has only one engine and not two, and features less conveyor belts overall than the combination of a separate crusher and screen, resulting in less risk of downtime and lower service costs.

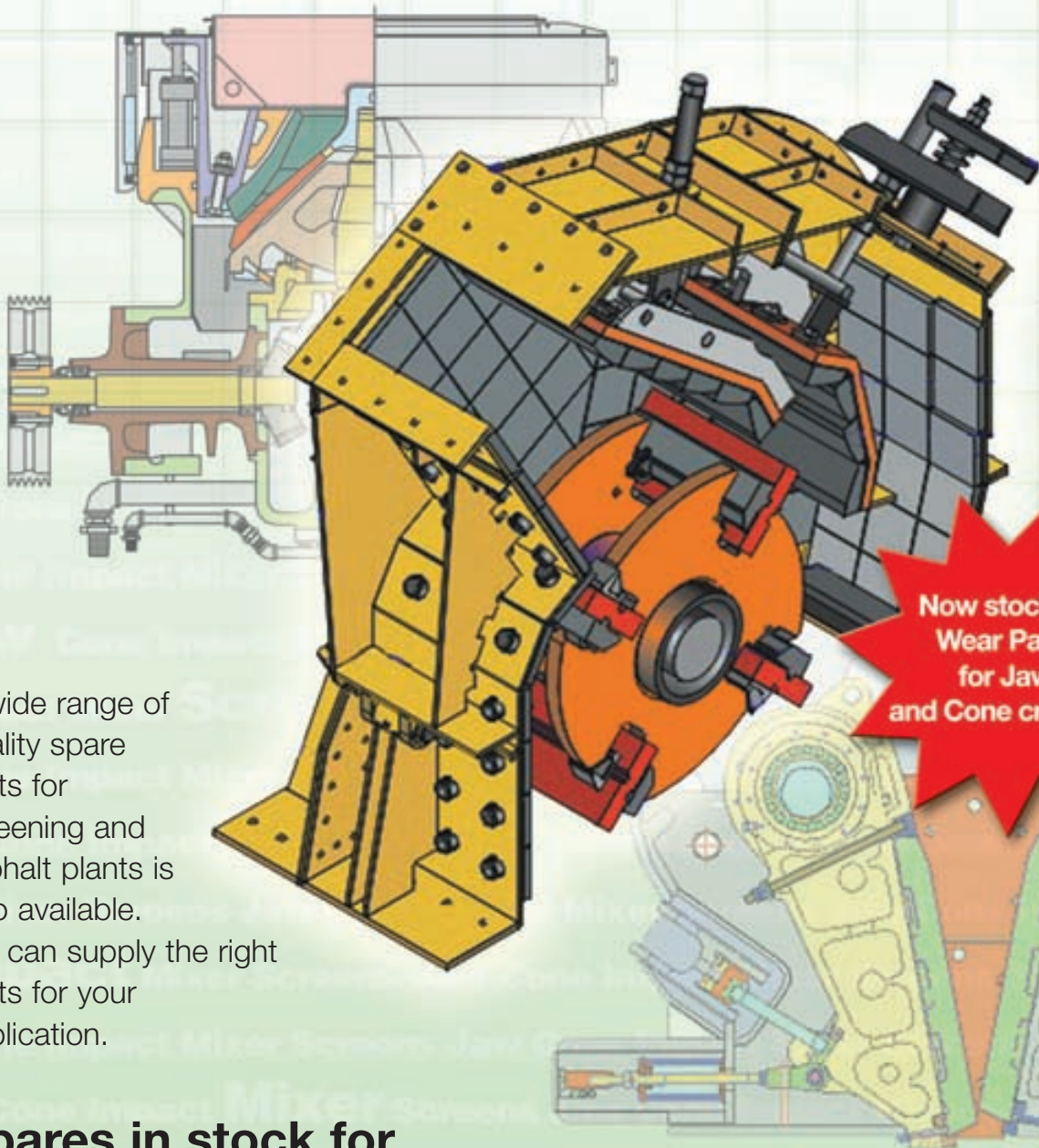


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BJD Crushers on a roll at Buxton Lime

BJD Crushers has recently supplied Tarmac Buxton Lime & Cement with two of their latest design of Double Roll Crushers. The crushers, installed at Buxton Lime & Cement's Hindlow and Tunstead sites, are employed in the production of high purity quicklime which is used in industrial applications such as steelmaking and the manufacture of concrete building blocks.

Tarmac Buxton Lime & Cement is the largest producer of lime and high quality lime products in the UK and installation of the two BJD crushers is part of a major investment by Tarmac which includes the recent commissioning of a new Maerz lime kiln at Tunstead.

The BJD Double Roll Crushers are 75x75 hydraulic drive models, one fitted with toothed rolls and the other with smooth rolls. The robust units are particularly suited to the reduction of friable materials such as limestone. The crushing action takes place at the nip-point between the two rolls, with the roll gap setting being fully adjustable for a variety of product sizes. At Buxton Lime & Cement, the units operate round-the-clock producing 330 tonnes per day of lime from a feed of lump 40mm limestone.

Burned lime is elevated from the kiln to the crusher house and then into a vertical in-feed arrangement, that spans the full width of the rolls, ensuring even distribution of feed to the high chrome rolls. An important feature of the BJD Double Roll is its unique automatic protection device which protects the crusher against un-crushable material by automatically opening rolls, allowing such material to pass - the rolls then automatically re-set to the original gap setting.

"The BJD Double Rolls are performing to expectations", says Ian Andrews, Tarmac's Project Manager. "In fact, everyone at BJD Crushers has performed well throughout the whole process. From the outset, they were willing to carry out a series of trials, which we at Tarmac witnessed, using a rolls test machine to determine a machine specification that satisfied our precise product requirements."



Korroflex crusher backing compound ideal for use in cold climates



The use of effective crusher backing compounds and release agents is critical to enhancing the life of crushing equipment used in the quarrying and mining industry. Impact and shock vibrations can cause significant damage when in service unless the right compound is used. One company has an impressive track record in this area and its products are recommended by many of the major crusher manufacturers.

In some parts of Europe changes in climate have seen winter temperatures plummeting to all time lows and protecting equipment has become more challenging for maintenance personnel. In response to this, ITW Korroflex developed a crusher backing compound that is enabling quarries to continue crushing problem-free. Many users in areas of Northern Europe and Russia have experienced benefits from using Korrobond 90 because it cures and performs well at very low ambient temperatures.

The product is a polyurethane-based crusher backing product and when cured produces a tough flexible backing. It requires no pre-heating and pours at temperatures as low as 32 deg F (0 deg C). It is a solvent-free product, gives good compressive and flexural strength, minimal shrinkage and will provide the same impact strength as white metal. It can be applied by personnel with the minimum of training and is designed to be used in both cone and gyratory crushers.

IS 14001 CERTIFICATION

ITW Korroflex is part of a major global chemicals company. It specialises in the design and manufacture of epoxy and polyurethane crusher backing compounds used in cone crushing machines within the quarrying and mining industries worldwide. The company's European manufacturing site in Shannon has recently been audited by the BSI and awarded the ISO 14001:2004 certification.

NEW BROCHURE

For more information about the range of Korroflex products or to obtain a copy of the company's new brochure contact ITW Korroflex on 0870 458 7388 and visit the website at www.korroflex.com





Anaconda Launch Tracked Screener

Anaconda Equipment International has just launched the company's first screener at Hillhead 2010, the Anaconda DF410. Anaconda has quickly established itself as a leading player in the design, manufacture and sale of a wide range of mobile conveying (wheeled and track mounted) solutions around the globe and now adds a new dimension for dealers and end users. The DF410 is a compact yet productive 'work horse!'

The DF410 is a robust and versatile tracked screener offering 3-way screening and stockpiling of a wide range of materials including demolition waste, crushed rock, sand & gravel, topsoil, compost, woodchip and coal. Features of the machine include a heavy duty feeder complete with impact bed, heavy duty belt, drop down end plate for direct feed from crushers, and variable speed belt control. The screenbox offers a range of screening media including woven mesh, punch plate, bofor decks or finger screen option. The 3 integral conveyors come with hydraulic fold and variable speed control as standard.

The DF410 has been designed by Anaconda with focus on quality, price and containerisation - the same focus that goes into all Anaconda products. Sales Director, Con Gallagher, gives some insight into the reasons behind the move into the mobile screening arena:

"Demand is once again the reason why we have diversified into the design and manufacture of the DF410. Our dealers are telling us that there is a limited supply of quality, well priced compact tracked screeners out there - we hope to have satisfied these needs with this product. The screener can be decommissioned and transported with ease on a low loader or shipped worldwide as it will track in and out of a 40ft container without any breakdown. Orders are already in the book which, in the current economic climate, is good news for us. We are excited and proud of what we have achieved with this product especially as it has the largest screenbox in the 'compact screening' class."

Anaconda displayed the DF410 tracked screener at the Hillhead exhibition in Buxton, England. As Mr Gallagher concludes, the UK and Ireland are still highly important

markets for the range of equipment on offer despite the downturn:

"The UK and, in particular, Ireland are still way off the pace they set a few years ago. Despite this, both markets offer Anaconda a great deal of opportunity now and in the future. We have already sold the first DF410 in Ireland and have been encouraged by the interest shown at Hillhead. The Hillhead show was an excellent opportunity for us to showpiece some of our products and to meet new and existing customers to discuss the benefits of working with us. We believe that the show will help imbed our reputation further as a manufacturer of top quality screening and conveying products."

Whatever the future holds for Anaconda Equipment International, you have to admire the total dedication they have to building the brand worldwide. The speed at which they have been setting down footprints across the globe in appointing dealers is a clear indication of their efforts to becoming a significant force in the industry.



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RHEWUM supplies screening machine to German oil mill

In April 2010 RHEWUM GmbH gained an order for construction and manufacturing of a screening machine for company Oelmuehle (oil mill) Broekelmann which is producing amongst others in Germany, the well known oil brand Broelio.

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Due to the natural high moisture content rape seed is a relatively hard to screen material. Being aware of this, extensive tests were performed at RHEWUM's testing facilities before defining a machine type and size. Furthermore the machine is lined with a food compliant wear protection to protect the parts of the machine against the very strong rape seed.

After a construction manufacturing time of only 2 months the delivery of the machine was foreseen for the beginning of July 2010, with plans for the start up during the course of July.

About Rape Seed

Rape seed is a very important economical agricultural crop, belonging to the family of Brassicaceae to which also mustard plants and cabbage belong to. The rape, respectively rape seed, is mainly used for the production of cooking oil and fuel as well as the so called rape cake as a by-product. The rape cake is mainly used as rich and albuminous animal feed.

About Broekelmann

Ölmühle Brökelmann is situated in Hamm/Germany and producing several kinds of cooking oil for private and industrial customers within Germany, as well as the well known brand Brölio.

Approximately 1.000 t/day of various seed oils are processed in the plant. First the seed is cleaned, then milled and pressed in screw extruders. Two thirds of the oils are produced this way whilst one third is made by extraction. By this combination of milling and extraction as by-product, albuminous pellets are produced which are used for high quality animal feed, such as cattle, pig and chicken breeding.



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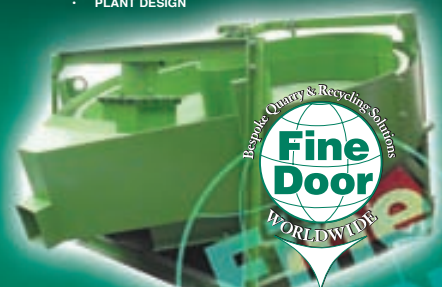
- A well proven concept for dewatering, removing fines, classifying and rinsing sand.
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- ▶ Maximum utilisation of three 20' x 5' (6.1m x 1.525m) decks provide ultra-efficient screening capacities even at small aggregate sizes.
- ▶ The fourth product (oversize plus) conveyor provides variable tilt and slide slew capability to accurately discharge materials for recirculation to crushers or for stockpiling.

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Birth of a Crushing Icon for Precision Screen

Precision Screen proudly introduces, the Precision Screen Track Crush VSI. Precision Screen is the first company in the world to build a Tracked Vertical Shaft Impactor that can comfortably handle in excess of 300tph. Built and designed in Australia by Precision Screen R&D team, headed up by Managing Director Harold Kerr, this machine has been a major success in the aggregate making process throughout Australia. The Precision Screen Track Crush VSI is working in some of the harshest conditions to produce the best shaped stone around.

Precision Screen is an innovative manufacturing company with extensive experience in the industry (22 years) and is a supplier of world leading crushing and screening equipment.

Precision Screen finds their innovations from clients within the industry by speaking to them on a one to one level to uncover common issues they are faced with.

One area of need has been the production of material which meets the exacting specifications of its customers (i.e. shape of stone). Stage 4 crushing, in aggregate manufacturing is becoming more and more important, and is the key to a top quality product. With such a large volume of mobile crushers and screens in the market place; it only seemed like a matter of time before the market demanded a VSI on tracks to better shape their material. This is how the Precision Screen Track Crush VSI crusher came about.

Precision Screen embraced this challenge some 9 years ago in 2001, producing the first ever tracked VSI crusher using the Barmac (8100) crushing chamber. Back then the demand for this type of machine was still quite low; however Harold Kerr and his team saw the potential for a high production rock shaping aggregate crusher. This first unit had some very unique features, making it stand out way before its time. This machine proudly boasted:

- The first Mobile VSI on Tracks
- The first Tracked VSI to produce 250tph consistently
- The first to provide a machine that can walk at a workable speed 2.5k proportional control
- The first Hydraulically Driven VSI
- The first to use Hydraulic Levelling Tracks with walking beam style
- The first to have an adjustable discharge height on the tail conveyor to suit other machines in circuit and lowers to 900mm for servicing
- The first to provide ample capacity to allow the engine to run at 1730rpm (for best fuel economy at full hp) while the crusher runs at up to 1800 rpm

The self levelling feature has proven to be an invaluable part of the machine as you can position the machine dead level anywhere on the quarry floor ensuring a balanced crusher at all times. It also helps eliminate any unwanted stress in the chassis. Some 9 years later Precision Screen still boasts this as a main feature.

From this earlier model, the machine has evolved into a world class unrivalled Mobile Vertical Shaft Impactor using the latest crushing technology.

A lot has been learned from the earlier models and each one has been improved upon to the stage

Precision Screen is today. Such improvements included greater horse power and available hydraulic power, along with new style crushing chambers that better compliment mobile machines.

The outcome today is a 350tph machine with maximum fuel efficiency and power using the best technology in the market.

Precision Screen recently launched the first ever tracked mobile SANDVIK MERLIN VSI (CV118). Previously Precision Screen has used the Barmac crushing chamber, but has changed from this to the latest Sandvik MERLIN VSI as it offers superior crushing advancements. With the Hurricane Rotor in the CV118 VSI chamber coupled with an astonishing 350KW of Hydraulic power available, this crusher is sure to remain unrivalled at the top of the list for some time.

Precision Screen has worked closely with its customers to design and manufacture a high quality, market leading machine which effectively meets the customers' needs and is miles ahead of the competition. The Precision Screen Track Crush VSI:

- Uses the best Crushing Chamber and technology Sandvik Merlin CV118
- Hand built with the Precision that is accustomed to our company

- Cat C15 engine which provides 350KW of hydraulic power
- VSI rotor speed hydraulically adjustable by engine rpm- for maximum fuel efficiency
- Sauer Danfoss Control system monitoring crusher speed
- Self levelling track system (under carriage)
- High Capacity machine well in excess of 300tph
- Extended tail conveyor
- Proven machine that has been working in the market place for over 9 years

Given its outstanding performance, the Precision Screen Track Crush VSI is the only machine for the high end operator, wishing to ensure that their product meets certified specifications.

The era of the mobile VSI has arrived!



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Outstanding performance from the new Powerscreen® Pegson XA750

Powerscreen, one of the world's leading providers of mobile crushing, screening and washing equipment, has launched the Powerscreen® Pegson XA750 offering customers greater jaw crushing productivity at up to 750tph (827 US tph).



The Powerscreen® Pegson XA750 is one of the most technologically advanced and efficient jaw crushing plants on the market; it sets the standard for next generation heavy duty track mobile jaw crushers. Pat Brian, Powerscreen Global Sales and Marketing Director said "The Pegson XA750 has been designed to ensure that large scale end users and operators experience unmatched performance, reliability and productivity in the toughest of applications."

The Pegson XA750 is fitted with a hydraulically driven pan feeder and live pre-screening unit, complete with a bolt-in cartridge style grizzly section, to remove fines and sizes prior to crushing, avoiding packing and unnecessary manganese wear. Pre-screened material can be stockpiled via an optional dirt conveyor, or re-directed via the by-pass chute onto the main product conveyor.

An unrestricted feed opening of 1400mm x 820mm (55"x 32") prevents bridging and maintains a consistent feed to the powerful Terex WJ55 single toggle jaw crusher, which features a hydraulic closed side setting (CSS) adjustment

system that can be changed at the touch of a button for maximum control of product sizing.

Powering the Pegson XA750 is the latest generation 288kW diesel engine which uses a direct drive system to achieve superior power transmission and fuel efficiency versus hydrostatic systems. Engine power is transmitted to the crusher via a robust, self adjusting dry plate clutch with self regulation "push button" auto start up sequence and v-belt drive.

User benefits include a hydraulically adjustable product conveyor with a 4m (13' 1") discharge height, a modular hopper that can be removed for transport and two speed tracks for maximum site mobility. The product conveyor can be raised and lowered hydraulically during operation and for transport and maintenance purposes. Maintenance downtime is reduced thanks to a hydraulic draw back rod retention system and unrivalled under crusher access. The plant weighs 72,000kgs (159,000 lbs), including magnet and dirt conveyor.



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Crushers UK launch new **HERCULES 1830** Mobile Crusher



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Crushers UK are a team of highly skilled, dedicated employees with an in-depth knowledge of the crushing, recycling and specialised precision industries.

We operate out of a new compact industrial building in Leicestershire with over 300,000 sq ft of secured yard, equipped for rapid prototype machining. We use the latest high technology CNC HAAS vertical machining centre to produce component parts for our own Hercules 1830 jaw crushers as well as spares for all major brands of crushing, screening and recycling equipment.

Following over 2000 hours of research and design, Crushers UK has launched the Hercules 1830. This brand new tracked jaw crusher has been both designed and built in Britain.

The Hercules 1830 will specifically appeal to demolition contractors, waste

recycling companies and quarries. Its compact design ensures it can be easily moved on a low loader and set up on-site in minutes.

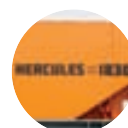
With a jaw size of 18" x 30" (550mm x 800mm) the Hercules offers an average output of 120 TPH based on a CSS of 100mm. It's powered by a John Deere 100kw diesel generator as well as connecting directly to 3-phase mains electricity.

Buying a Hercules 1830 is just the start of your relationship with Crushers UK. We offer a worldwide servicing, spares and support package to ensure your machine time is optimized and your profits are maximized.

Even if you own other types of crushing, screening and recycling equipment, we can supply spare parts and specialised engineering solutions to support your operation.

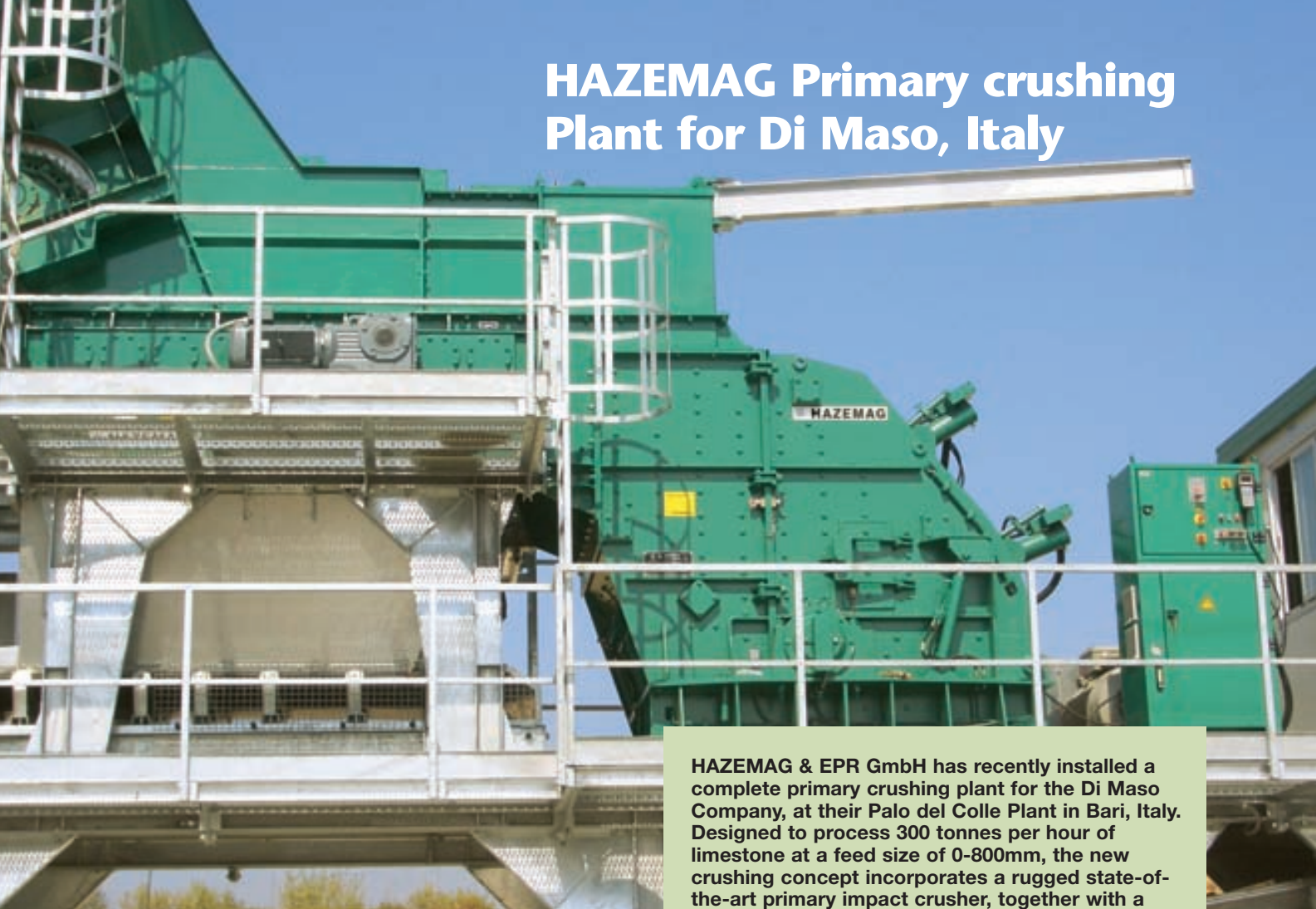
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Home of the Hercules

HAZEMAG Primary crushing Plant for Di Maso, Italy



HAZEMAG & EPR GmbH has recently installed a complete primary crushing plant for the Di Maso Company, at their Palo del Colle Plant in Bari, Italy. Designed to process 300 tonnes per hour of limestone at a feed size of 0-800mm, the new crushing concept incorporates a rugged state-of-the-art primary impact crusher, together with a wobbler feeder.

The HAZEMAG AP-PH 1414 impact crusher is equipped with the very latest active hydraulic control system, which locks the impact aprons in position during operation, to guarantee a uniform, high-quality product. However, on entry of any tramp metal, the aprons retract immediately, allowing uncrushable material to pass through. The aprons then return to their pre-set position. In addition, the impactor's inlet plate can be moved hydraulically to facilitate the release of any jammed material.

As well as an excellent standard of operational safety, the AP-PH 1414 is extremely user-friendly and machine maintenance is simplified; readily accessible blow bars, with a wedge retaining system, can be removed quickly and easily, and around 90% of wear lining plates used in the housing are identical and interchangeable.

Upstream of the Impactor is the HAZEMAG Wobbler Feeder which removes fines from the feed material. This process relieves the load on the crusher, leading to reduced power consumption, a lower wear rate and superior operational safety. The wobbler feeder's efficiency is not affected by moist or sticky material and, due to the horizontal flow system, the height of the installation is minimised. In this particular application, the material is screened off at 50mm, providing consistent, smooth and controlled feeding.

For further information on the subject of this release, please contact Tom Gregson, Sales Manager of Hazemag UK Ltd, using the details shown above.

For all matters relating to the publishing and/or reproduction please contact Gary Tempest:

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Get the best from your assets

Most operator's mechanical equipment on sites has been procured from a variety of manufacturers over years of operations. The operating instructions and site knowledge may have been lost over the years but simple maintenance and overhaul techniques can be used to maximize the life of the asset and minimize the total costs. As company who manufacture replacement screens, refurbish existing machines and maintain screens I thought I would write down some of the common issues we see within the industry and some simple solutions.

1. Roller/Ball Bearings all need regular lubrication. Bearings on screens are operating in one of the harshest environments and the key to the screen operating efficiently and effectively is ensuring the bearings receive enough lubrication with the motto being "little and often" with a little being 2 - 6 shots per day per bearing dependent on size. Vibrating screen bearings generally need lubricating with a Lithium based grease whereas other plant bearings normal EP grease is fine. As plant managers it is worth checking that fresh grease is visible on grease nipples during walk-arounds. Oil lubricated screens need to have the oil regularly checked for contaminants by taking a sample and getting it analysed by your lubricate supplier to determine the life of the lubricant and the state of the bearing. More automated solutions for both grease and oil lubricated screens are available which can dramatically reduce the maintenance time plus give the site manager piece of mind that the bearings will only fail when they reach the end of their useful life but there is an initial capital cost (for the unit, for installation and potentially integration with control system) and also power cost.
2. If you have indications that the bearing is about to fail such as increased heat, noise or amps required, managers should schedule the bearing change as soon as possible as the potential damage caused by a total failure can increase the repair bill by a factor of 3. Changing Bearings in screens can be difficult if you have not done it before or don't undertake it regularly. Ideally bearings should be pressed out of the housings using a hydraulic press which will minimize the chance of damaging the housings and the shaft. Before installing new bearings the existing area should be cleaned to remove any debris and degreased. The bearing should be pressed in to the housings being careful to ensure that the alignment of the bearing is correct as misaligned bearings will fail quickly plus damage housings and shaft.



When reassembling the remaining components of the shaft assembly it is key that the correct torque settings are used and that the maintenance engineer checks that the shaft assembly is able to rotate prior to testing under load.

3. Changing from woven wire to modular polyurethane screen media is often done when a second hand machine is utilized on a quarry to replace an existing machine. It is key when you do this to have the deck frames modified or replaced as the deck frame construction is generally different for both screen media's. Unfortunately we have seen machines with cracked side plates and broken deck frames within weeks when the screen has been modified to go from woven wire to polyurethane
4. Support Structures - Vibrating screens should vibrate the load going over the screen decks not the entire screen house or screen structure. Causes of high vibration in structures can be as simple as the springs have reached the end of their useful life and need replacing. Other simple causes can be bolts coming loose in the support structure or parts of the support structure being removed following overhaul and not being replaced. The high residual vibration can cause damage to the screen itself and/or cause damage to the support work. During regular walk-arounds attention should be paid to vibration in the flooring or hand railing to see if there has been a change

Finedoor Ltd, Unit 4 & 5
Melbourne Street, Morley, Leeds LS27 8BG
Tel: 0113 2527601
Fax: 0113 2527603
Email: enquiries@finedoor.co.uk
Web: www.finedoor.co.uk



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FAX +44 (0)1827 287770
Email: info@agg-pro.com



Flex-Mat® 3 For Modular & Tensioned Screens Increases Screen Capacity & Material Throughput While Reducing Downtime

Candiac, Quebec, Canada - Flex-Mat® 3 High-Performance, Self-Cleaning Screen Media from Montreal-based Major Wire Industries Limited helps operations increase screen capacity and material throughput while reducing downtime. Available for modular or tensioned screen decks, Flex-Mat 3 panels have more open area, providing up to 30 percent more screen capacity than woven wire and up to 50 percent more screen capacity than polyurethane and rubber panels. It employs independently vibrating wires that increase product throughput by up to 40 percent over traditional woven wire or polyurethane panels by increasing open area and eliminating any blinding, pegging and clogging. To date, Flex-Mat 3 is operating in more than 20,000 applications worldwide.

Some aggregate producers are switching to larger screen boxes to gain added capacity. For example, woven wire users have switched from 5' x 16' to 6' x 20' screen boxes, while some modular panel users have expanded from 8' x 20' to 8' x 24' or even 8' x 26' screen boxes. Typically, producers can gain the same or more capacity by trying Flex-Mat 3 first and save up to \$50,000 or more in costs associated with purchasing larger screen boxes.

For tensioned screen decks, Flex-Mat 3's signature lime green polyurethane strips align to the screen box's crown bars and hold individual wires in place as they run from hook to hook. Wear life exceeds that of woven wire up to three times because there are no cross wires with high wear spots like there are with woven wire. On modular screen decks, Flex-Mat 3's modular panels install easily, similar to traditional polyurethane and rubber panels. On both screen types, Flex-Mat 3's wires vibrate independently to better separate material, virtually eliminating blinding, pegging or clogging. This minimizes downtime spent cleaning or replacing screen cloth, increasing production time. Flex-Mat 3 is the ideal screening solution in many applications, including aggregate, mining, sand & gravel, aglime, C&D recycle, coal, slag, talc, asphalt, top soil, salt, mulch, industrial minerals and green waste.

Flex-Mat 3 provides benefits on every screen box deck: eliminating near-size pegging on top decks, producing cleaner retained product through the middle decks and preventing fine material blinding on bottom decks. On modular screen decks, Flex-Mat 3 modular polyurethane panels can replace existing screen media on each deck wherever throughput is compromised or can replace the entire deck for maximum production.

Flex-Mat 3 tensioned is available in the industry's broadest range of opening sizes-30 mesh to 4 inches-and with the widest range of application-specific wire diameters, enabling Major Wire to fine tune each screen's production to its greatest potential. Wire configurations include a diamond-shaped Flex-Mat "D" for most standard applications; wave-patterned Flex-Mat "S" for removal of fines; triangular Flex-Mat "T" for heavy scalping or fine screening; and Flex-Mat "Double-Wire" for high-impact applications.

Celebrating more than 125 years in business, Major Wire Industries Limited designs, manufactures and markets screening solutions, including Flex-Mat® 3 High-Performance, Self-Cleaning Screen Media in tensioned and modular versions; OptimumWire™ woven tempered and stainless steel wire cloth;

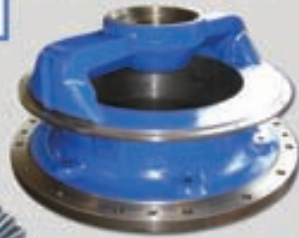


and polyurethane panels for the quarry, mining, recycling and industrial markets. Major Wire is ISO 9001:2008 registered. For more information, contact Major Wire Industries Limited, 225 North Montcalm Blvd., Candiac, Québec, Canada J5R 3L6; telephone: 450.659.7681; fax: 450.659.5570; e-mail major@majorwire.cc or visit www.majorwire.cc.

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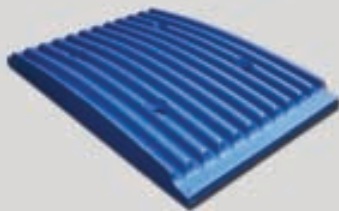
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hermitage industrial estate | vulcan way | coalville | leics | le67 3ap
call +44 (0) 1530 817000 | fax +44 (0) 1530 817111
email sales@cmscepcor.com | web www.cmscepcor.com