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Issue 8

Materials Handling | Recycling | Quarrying

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Controversial public debates

The recent controversial decision to opt for a third runway at Heathrow will be observed with interest by many HUB readers. It was a decision taken at a time when environmental concerns have to compete head on with the issues of a serious economic downtime. While the coverage of the heated debate was extensive, the arguments were not: they seemed to boil down to airports are good or airports are bad with solutions from stop flying altogether to building a massive new airport on artificial islands in the Thames estuary.

Yet, as is so often the case in such controversial public debates, dogma obscures reason, arguments become polarised and important details get missed. The fact is that for the vast majority of people airports are neither good nor bad, they are necessary. So in the real world they have to be managed.

This seems to be where the general public loses interest. How many people I wonder are aware of the strict controls Heathrow airport is subjected to, or know of its policy of moving to only using electric vehicles on the airport alongside other environmental programmes? Do people consider the number of restrictions in use in terms of traffic and operating times? How willing are people to understand whether the technology in state of the art aeroplanes can work as a mitigating factor? Would stopping the third runway at an airport operating at capacity and seeing the traffic move to airports that do not operate under such restrictions be considered a success for the environment? These are just a few points that provide colour between the black and white arguments.

It's similar for the nuclear industry, which has a negative public image rooted in the disaster of Chernobyl. Yet today's nuclear industry is light years from the technology, not to mention the regulations, deployed in 1950s communist era Soviet Union. As we urgently need to fill the power gap any argument over nuclear power makes has to be judged on what it does and how it operates today.

And so we come to quarries as they too have to face preconceived public opinion, as was illustrated widely in the national press by the recent controversy over plans by Stone Firms to go ahead with excavations at a site it owns on the Isle of Portland. Dissenting eyebrows have been raised at plans to extract 140,000 m3 of stone from a site approximately 3 m from the cliff face. By using planning permission granted in 1951 in response to the need for stone for repairs to damaged stone buildings bombed during the Second World War it has been suggested that this will go against the Isle of Portland's Stautus as an Unesco World Heritage Site. Both environmental and safety concerns have been expressed. But again is this a knee-jerk response based on the way quarries worked when the planning permission was originally given? Are people aware of the extensive environmental impact studies that need to be taken, the restoration work that will be carried out, the provision of facilities for the public and that the World Heritage Coast will not be quarried? What effort have those arguing against this move made to understand the technology involved in the project?

Do the general public still think of quarrying the way it used to be? Are they aware of how quarrying is carried out today, the legislative controls and the state of the art technology and the restoration projects?

It is good and right that industry's are not allowed free reign to do as they please in the cause of development and there certainly needs to be public examination of what they do. But these projects need to be judged on the facts rather than the reputations of the industry and people must be cognisant of current technology, practice and controls in the industry when debating these issues.

There's no doubt that quarrying, like the nuclear industry and airports, has changed for the better. That's essential because society will continue to want development; we cannot halt it but we can control. This is something the quarry industry is clearly taking on board and is the sensible way ahead.

Ross Matthews - Editor

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HUB™
MATERIALS HANDLING | RECYCLING | QUARRYING

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In 2009 Crusher Manganese Steels Limited celebrates its 20th Year of trading and is using this opportunity to re-brand with a new corporate image to help further enhance its growing worldwide reputation and stature of the business.

Incorporating Cepcor a long standing competitor that was acquired in 2005 and Goodwin Barsby an Original Equipment Manufacturer of Crushing & Screening plant since 1871, the existing logo and corporate image was a basic collective and often confusing mix and match of pre merger logos.

The new logo is visually simple but strong incorporating a striking blue that will be used to identify all their aftermarket parts.

In addition to the new logo two new websites will be re-launched in the coming weeks www.cmscepcor.com and www.goodwinbarsby.com with new the corporate image officially being launched at the upcoming Hillhead 2009 Exhibition.

EUROPE'S LARGEST

Since modest beginnings in 1989 Crusher Manganese Steels Limited has grown into Europe's largest aftermarket supplier of quality Crushing, Screening & Asphalt Plant Spares & Service supplying Worldwide to the Quarrying, Mining, Demolition and Recycling Industries.

Figures obtained from Companies House demonstrate its stock holding in the UK is in excess of the sum of all of its UK aftermarket competitors.

Based in Coalville, Leicestershire, which is located close to the motorway network and within easy reach of International Airports, the company's facilities offer complete aftermarket support including the Head Office, Parts Distribution Center, Crusher Repair & Service Center and the Goodwin Barsby Works.

QUALITY ASSURED

The varying range of quality available for aftermarket spares is vast and in a commercially driven market, combined with volatile operating costs and severe budget constraints placed on plant and quarry managers; commodity wear and spare parts are unfortunately often only measured by the initial quoted price, rather than their true life cost with an often expensive learning curve for the customer.

CMS Cepcor has made the conscious decision not compromise the quality and integrity of its parts by reducing the initial cost at manufacturing source by means of lower material specification or reduced cast weight, which ultimately increases the life cost to the customer.

CMS Cepcor replacement parts have full traceability within their quality system and are designed and manufactured considering the original equipment manufacturers' specification producing high performance with cost effective operating costs. The additional reassurance of the company's own trained engineers to fit the parts if required with full technical backup provides maximum customer support.

CMS Cepcor opts to work with only a small number of partner companies for the manufacture of its replacement parts. Potential manufacturing partners are assessed against a specific criteria, which covers all areas of their business focusing on quality, reliability, performance and their commitment to continually re-invest and improve. CMS Cepcor replacement parts are manufactured to their own engineering drawings and material specifications.

CMS Cepcor also offers a premium range of manganese steel castings, the metallurgy has been developed in partnership with its foundry partners and is a solution annealed, water quenched austenitic manganese steel that has been developed from the original Hadfield's manganese steel specifications, although its variation is claimed to provide unequalled toughness with good resistance to abrasion, which improves as the steel work hardens in operation.

In independent trials in both Mining and Aggregate production the CMS Cepcor Premium manganese steel achieves and often exceeds the performance of the

GOODWIN BARSBY
LEICESTER, ENGLAND

equivalent Original Equipment Manufacturer castings, therefore offering an overall cost saving to the operator.

CMS Cepcor has also heavily invested in new technology in order to set the standard for aftermarket quality assurance, reverse engineering and metallurgy resulting in continual and rapid growth of our product range especially for those parts normally only associated with the OEMs

THE PEOPLE

CMS-Cepcor has become a name synonymous with customer service as the supply of spares parts and associated services is its core business and all its staff appreciate the production pressures their customers face.

The company's knowledgeable staff are experts in Crushing, Screening and Asphalt Plants with many previously being employed by some of the most highly regarded Original Equipment Manufacturers.

CRUSHER REPAIRS

All Crusher repairs are completed in accordance with original factory tolerances by its own trained engineers under the guidance of its Technical department.

The company's dedicated Crusher Repair Center is equipped with specialist tooling and has 50 tonne overhead craneage.

Its standard procedure involves stripping the crusher to component form, cleaning and then inspecting to manufacturing drawings to asses for re-use, repair or replacement with new. At this point a full written report and quotation is issued to the customer ensuring an informed decision can be made on the scope of work to be authorised. On completion of Crusher and Screen repairs the machines are test run in their workshop and monitored for vibration and operating temperature.

GOODWIN BARSBY
LEICESTER, ENGLAND

Following the completion of the acquisition by CMS from Metso Minerals in 2006 the Goodwin Barsby product range was back in private hands again after over 20 years.

Since the acquisition the spares business for classic Goodwin plant has continually increased due to their primary commitment to spares and service.

As CMS Cepcor is the only aftermarket supplier that also incorporates one of the most reputable and long standing Original Equipment Manufacturers, its appreciation of original factory tolerances and material specifications are second to none.

The current product range includes the new Goodwin Barsby Mark 5 range of Single Toggle Crushers as well as new Mark 5 Granulators, Vitex Vibrating Screens and Rotary Dryer Drums.

Please visit www.goodwinbarsby.com for further information.

THE DIFFERENCE

Whilst CMS Cepcor is Europe's largest aftermarket supplier, it remains at essence a family run business with traditional values committed to investment in employees, suppliers and customers alike.

It is its mission statement to supply the highest quality parts, professionalism, integrity and uncompromising commitment to continual improvement with the ultimate mission of achieving complete customer satisfaction.

cms cepcor

We look forward to hearing from you!

The Genuine Alternative – Setting the Standard

Sharp decline of concrete and aggregates volumes in third quarter confirms depth of construction recession

Sales volume of aggregates and ready mixed concrete declined very sharply in the third quarter of 2008, according to the Quarry Products Association's Quarterly Construction Material Trends for July-September 2008. Compared with the third quarter of 2007, sales volumes of ready mixed concrete fell by 21%, sand and gravel aggregates by 17%, crushed rock by 15% and asphalt by 2%.

The use of ready mixed concrete and aggregates are often weighted towards the earlier stages of construction projects, therefore the unprecedented declines reflect not just the problems in the housing markets, but also the lack of new work elsewhere in construction, notably in the commercial and industrial sectors.

The smaller fall in asphalt volumes is from a historically low level of demand, and reflects a tailing off of demand from major contracts and continuing funding shortages for local authority highways work.

The accelerating decline in demand seen in the third quarter indicates that for 2008 the rate of annual decline of aggregates and concrete volumes will be similar to the 1991 recession – but the fundamental difference in this comparison is that the early 1990s recession followed historically high volumes in the late 1980s, but the current market decline is from much more modest volume base.

There will be further significant declines in aggregates and concrete markets in 2009 as the downturn in construction output worsens, and a significant decline in asphalt demand is also anticipated given the small number of major roads contracts in progress and inadequate local highways funding.

Haith Industrial moves into new group HQ

Haith Industrial has recently moved all of its operations to its group site at Armthorpe, near Doncaster. Originally based at Carlton-in-Lindrick, near Worksop the company has moved into a brand new 1400 m^2 state-of-the-art building featuring a new office block and workshop.

The new building has allowed the group to fully integrate all of its business on to one site. It will provide improved facilities for the assembly, welding and metal fabrication departments and includes two new 5 ton workshop cranes and two new CNC plasma cutters. All spares have also been integrated within one stores and a three fold increase in yard space has also been provided.

www.hub-4.com/directory/373

Yorkshire drives new road recycling scheme

Gas pipeline company National Grid and Sheffield City Council have led a team in developing a new scheme that will see spoil from road works recycled and reused.

National Grid, the UK's largest utility company, and the city council have brought together other local authorities and utilities in an agreement to take spoil from road works to specialist recycling facilities across Yorkshire, where it can be treated and then returned to excavation sites.

The ultimate goal is to achieve a target of 0% of excavated material taken to landfill and 0% use of new materials to restore road surfaces following work.

All members of the Yorkshire Highways Authorities and Utilities Committee (YHAUC) have now signed up to the new framework agreement. This covers training in the use of recycled materials, process and quality control, auditing and testing.

Jon Butterworth, National Grid director of operations, Gas Distribution said: "Every year in the UK, utilities use millions of tonnes of limestone and granite for road reconstruction and take a similar amount to landfill, but we are running out of landfill space.

"We have already significantly reduced the volume of spoil we send to landfill and with Sheffield City Council and other YHAUC members, we are pledging to get this to zero.

"This is all about the power of action. National Grid is committed to tackling climate change and taking action to re-use and recycle materials where we can."

Len Sayles, National Grid's YHAUC member said: "The new plants will deliver the National Grid aim of zero to landfill plus zero purchase of new aggregate materials. We are fast running out of space at landfill sites and reducing the amount of new material we quarry will have a positive effect on our natural environment.

If we can do this in Yorkshire then we should be able to persuade the rest of the UK to follow suit – we are on the case."

Vernon Silcock, Sheffield City Council's YHAUC member said: *"This will allow commercial organisations to process materials excavated from Yorkshire roads and make a product that can be put back in the same excavation up to tarmac level. This will benefit both the Highway Authorities and the utilities.*

"All the Highway Authorities in Yorkshire have signed onto the agreement which sets minimum standards and covers training, quality control, audit and review."

HeidelbergCement mourns for Dr. Adolf Merckle

Dr Adolf Merkle, 74, founder and head of the conglomerate that includes Heidelberg Cement, and one of Germany's wealthiest men, took his own life on January 5th. Heidelberg, which took over Hanson in 2007, also controls Castle Cement, recycling company SRM and Minerals Resource Management.

Creditors closed in on Dr Merkle's empire after it had suffered from a chain of factors including the current economic conditions, combined with losing out when betting on a VW share fall after which it emerged Porsche had cornered three quarters of VW's stock, which sent share prices soaring.

In an official announcement, Heidelberg said: *"It is with great shock that we have learned about the death of Dr. Adolf Merckle. As a shareholder and member of the Supervisory Board he had very close ties with our company for many decades. Dr. Merckle actively accompanied and marked the dynamic development of HeidelbergCement from a medium sized southern German cement company to one on of the world's largest building materials producers. We owe him a lot of respect and thanks. Our deepest sympathies go to his family."*

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Waste Processing Solutions, (WPS) the new company created by the Finlay Group has signed a deal to distribute the Carmac Waste Handling Systems - including their trommels and LSUs pictured - in England and Wales.

WPS appointed By Carmac

Dave Statham, a director of Waste Processing Solutions.

Waste Processing Solutions (WPS), the new company created by the Finlay Group to cater specifically for the recycling market, has secured a distribution agreement with Carmac Waste Handling Systems.

The range of machinery designed by Carmac for the recycling and efficient handling of a range of materials - including construction, demolition, commercial, industrial and municipal waste - will now be solely distributed by WPS across England and Wales.

WPS cites the fast growing demand for efficient, cost effective waste recycling solutions as the reason it has moved into the market.

David Statham, a director of WPS, which has its headquarters in Stafford, said: *"Carmac's level of expertise in the recycling market, combined with our own ability to deliver high levels of service and support in England and Wales, makes for a good partnership."*

Carmac, which has developed substantial business in Northern Ireland and the Republic of Ireland, is focusing on expanding its business in the United Kingdom, as well as other parts of Europe and further afield.

Declan McNally, managing director of Carmac, which is based in County Tyrone, said: *"The deal with WPS is key to our expansion into the UK."*

www.hub-4.com/directory/152

Asphalt market beginning to show worrying signs of decline

Since August 2008, volumes in the asphalt market have begun to tail off. Current trends suggest that the asphalt market in 2009 could be lower (than the previous year) by around 6%. This is one of the conclusions of the annual survey of the market and market shares of asphalt companies, published by the leading research consultancy in the industry, BDS Marketing Research.

Although the Government has identified support for the infrastructure sector as one way to help the economy, the paucity of road schemes currently being let, suggests to BDS that the market will go lower next year. While limited volumes of asphalt are used in housing, the rapid fall in this sector started the decline. Demand from industrial and commercial schemes is also now tailing off, giving further concern for asphalt suppliers.

Although the asphalt market has not suffered to the same extent as aggregates and ready mixed concrete, asphalt companies are represented in all three markets in the vast majority of cases. Suppliers are having to assess the viability of their operations across all three sectors. Already, one of the leading asphalt producers (Hanson) has announced the likely closure of six plants. BDS expects other companies to follow suit.

In its report, BDS estimates the outputs of all asphalt plants in the country. This enables the company to estimate market shares for each supplier on a county, regional and national level. This is the only published source of such information and has been made available after six months research of the industry. BDS estimates that Tarmac continues as the largest asphalt company, with a share of over 27%. Aggregate Industries is the second largest supplier, followed by Hanson, CEMEX and Lafarge. The top five companies are estimated to have over 80% of the market, with the top 10 having around 90% of the market.

Whilst there have been no major acquisitions in the asphalt market recently, BDS has identified around 10 plants that have either opened, closed or been acquired. This excludes the development of United Asphalt, which entered the market through the acquisition of two plants. BDS has also listed six current planning applications for new plants. However, in the current trading climate, it is uncertain how many of these will be developed

www.hub-4.com/directory/106

New leasing finance option for equipment purchase

With 90% of FTSE 100 companies now using leasing, it's not surprising that over 30% of all capital equipment purchased in the UK is now leased.

Canning Conveyor has launched a lease option on conveyor equipment and installation that, it says, offers advantages to any prospective purchaser of this equipment. The company offers a fixed rental agreement paid quarterly in advance, subject to approval, based on a 3 year rental agreement:

Canning identifies the benefits of leasing as being tax efficient, it preserves working capital, it's a fixed cost, it is easier to upgrade/add on at a later date, if required and on expiry of the lease and on receipt of all payment due the customer has the option to purchase the equipment for a nominal fee.

Canning Conveyor says its leasing facilities are dedicated to the equipment concerned so no other form of security is normally required. Furthermore, it adds, the leasing facilities will not affect current borrowing capabilities.

www.hub-4.com/directory/1715

Val Ledden has been appointed as Volvo MD

Val Ledden became managing director of Volvo Construction Equipment on 17 November. Previously sales director and deputy MD, Val takes over from Rob Dicker who has been appointed as senior vice president – finance and chief financial officer for the Volvo Construction Equipment Group in Brussels. He has 20 years' experience at Volvo Construction Equipment within Customer Support, Compact Equipment, Used Equipment and General Purpose Production Equipment.

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Sustainable development update

The QPA has published its fourth Sustainable Development Report, providing data up to 2007. The data coverage in the report is equivalent to 76% of UK aggregate sales and identifies key sustainability trends including:

- Reportable injuries amongst QPA members have declined by 75% between 1999 and 2007
- Sector carbon emissions averaged 6kg CO2 per tonne of output, ranging from 3.98 kg CO2 for the production of sand gravel to 26.8 kg CO2 for the production of asphalt. The aggregates sector accounted for 0.61% of UK carbon dioxide emissions (including both operations and transport)
- The share of recycled and secondary aggregate of the total GB aggregates market was 25% in 2007, the highest share anywhere in Europe
- 35 million tonnes of aggregates (16% of the GB primary aggregates total) were delivered by non road modes of transport - 15 million tonnes by rail and 20 million tonnes by ship and barge
- Average road delivery distances for aggregates, asphalt and ready-mixed concrete were 35 km, 28 km, and 8.3 km respectively, highlighting the generally local nature of supply
- Only 0.12% of the UK land area was being quarried in 2007, and the area of land restored was higher than the areas of land prepared for quarrying
- 307 liaison groups between quarries and local communities were recorded

QPA director general, Simon van der Byl, commented: *"Although the industry is having to deal with very difficult market conditions which will continue in 2009, QPA members remain committed to being open and transparent about their sustainability performance. We understand the challenges associated with government's strategy for Sustainable Construction and want to ensure that our materials are accepted as responsibly sourced and contribute to higher standards of living and improving quality of lives for people in the UK."*

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Major new voluntary agreement to halve waste to Landfill

WRAP (Waste & Resources Action Programme) has launched a major new voluntary agreement for the UK construction industry to halve the amount of waste it sends to landfill by 2012. Major clients and contractors, including the Berkeley Group, Bovis Lend Lease, Laing O'Rourke, Stanhope, Defence Estates, SEGRO, and Willmott Dixon have already signed up. This agreement comes at a time when the economic argument for waste reduction is growing in resonance.

The construction sector currently wastes £1.5 billion in unused materials – those which are over-ordered during the construction process – and sends some 25 million tonnes of waste to landfill every year. Both the Strategy for Sustainable Construction and the Strategic Forum's Construction Commitments have been instrumental in setting targets.

Welcoming the agreement, environment minister Jane Kennedy said: *"This agreement sends a clear message to the construction supply chain: it is time to stop the waste. These initiatives outline clear targets for waste reduction. Today WRAP offers the whole construction industry a robust and structured framework to help deliver these targets."*

Liz Goodwin, chief executive of WRAP stressed the opportunity that waste reduction presents in the current economic climate: *"Waste by its very definition is a missed opportunity. Indeed, the true cost of waste is over 10 times higher than the cost of disposal, once the value of the wasted materials is taken into account."*

"The time, now, more than ever is ripe for change," she said. "And change will happen through collective action from the whole of the construction supply chain, including – crucially – construction clients."

The construction industry as a whole has already made significant progress on waste reduction to date but WRAP is keen to stress further opportunities for action.

Construction Minister Ian Pearson said: *"There are sound environmental, corporate and financial reasons for committing to halve construction waste to landfill, but more needs to be done if the industry is to succeed in collectively halving its waste to landfill by the 2012 benchmark. The construction industry creates one third of all waste produced in the UK and today's launch offers the sector the opportunity to lead the way for other sectors of UK business to follow."*

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CEMEX launches book on climate change

A new book, A Climate for Life, has been launched by global building materials provider CEMEX and biodiversity partnership body Conservation International. The book, which has also been developed in association with the International League of Conservation Photographers, sets out to challenge the way people think about climate change.

As part of its sustainability efforts, CEMEX has since 1993 published an annual book with leading not-for-profit organisations to support fundraising programmes and highlight key conservation issues.

Using a combination of science and photography, A Climate for Life examines the impact of climate change on biodiversity and focuses on the most important challenges currently facing life on earth. More than 30 scientists have contributed to this year's book, including eminent Harvard biologist E.O. Wilson. It also features more than 175 images from leading photographers, such as Frans Lanting, James Balog and Joel Sartore.

As one of the world's leading provider of building materials, CEMEX is committed to sustainable development across the business. Since its arrival to the UK in 2005, the company has continued to build on existing initiatives, including emissions reduction schemes, such as alternative fuels permits and usage, noise and dust abatement technology and restoration and conservation partnerships with local communities and charities, such as Butterfly Conservation and Wildlife Trusts. For more information about the book, visit www.aclimateforlife.com

www.hub-4.com/directory/6953

Raymond Brown Group president (centre), with (left to right) – Kelvin White, Steve Cole, Ron Isaac, Steve Clasby and Mark Isaac.

Raymond Brown scoops prestigious award

Raymond Brown Minerals & Recycling director Mark Isaac receives the Business of the Year Award from KPMG's Phil Cotton.

Raymond Brown Minerals & Recycling is celebrating scooping the prestigious 'KPMG Company of the Year Award'.

The division, which forms part of Ringwood-based Raymond Brown Group, won the award at the 2008 Hampshire Business Awards, which were held at The National Motor Museum at Beaulieu.

Phil Cotton, partner at KPMG's south coast office, said: *"Raymond Brown Minerals & Recycling stood out as the winner for its clear commercial strategy and business practices which have the added benefit of enhancing and protecting Hampshire's environment."*

Nursling-based Raymond Brown Minerals & Recycling delivers sustainable solutions to divert material from landfill and leads the way with its 'first of a kind' aggregate recycling plant – a £1.4 million cutting-edge facility that has already diverted some 55,000 tonnes of material from landfill this year.

It has also pioneered new technology by taking Incinerator Bottom Ash (IBA) from the county's three Energy Recovery Facilities and processing it into a substitute aggregate (as featured in HUB-4), which can be used for a variety of purposes, such as road building. The cutting-edge facility is set to produce up to 75,000 tonnes of aggregate per annum – further reducing the amount of material sent to landfill.

Kelvin White, managing director of the Raymond Brown Group, said: *"I am delighted that our commitment to the industry has been recognised by the Hampshire Business Awards. This is a fantastic achievement for us and testament to the hard work and dedication of a great team of people."*

Raymond Brown Minerals & Recycling division is only 12 months old – the strategic amalgamation of four diverse and competing businesses from within the Group which had evolved over the preceding 10 years. The four companies had grown out of Raymond Brown Group's construction and civil engineering operations to support niche activity and specialist companies.

"The new company structure has achieved the results we hoped for and more," added Kelvin. *"The new clarity of operation has enabled us in just 12 months to outstrip the previous year's combined performance by 472% with the staff team increasing from 114 to 140 in the same period to support the expansion in activity."*

www.hub-4.com/directory/6828

Aggregates Levy Judgment Holes Eco Tax Below Waterline

The European Court of Justice, (ECJ), has overturned the 13 September 2006 decision of the Court of First Instance, (CFI), that the 2002 Aggregates Levy, (AGL), imposed by the UK Government was lawful and did not constitute State Aid. The ECJ has sent the case back to the CFI for it to reconsider. BAA Director Robert Durward commented:

"It is noteworthy that the European Court of Justice has agreed with the BAA on every fundamental point. This makes it very unlikely that the Levy will survive in its present form."

The judgment was in line with the earlier opinion of Advocate General (AG) Mengozzi, of the European Court of Justice, who recommended that the CFI judgment - upholding the legality of the UK's Aggregates Levy under EU subsidy law - should be quashed.

In reaching his conclusion, the Advocate General criticised several aspects of the CFI's reasoning:

- He agreed with the BAA argument that the CFI was wrong to conclude that the AGL's purported environmental justification somehow exempted it from EU subsidy rules. The AG made it clear that governments do not have carte blanche to implement an unfair and illogical tax under the guise of environmental policy.
- He found that the CFI tried to paper over cracks in the original Decision – approving the AGL – and that they further misconstrued the basis on which that Decision was taken in a mistaken effort to justify its conclusion.
- Finally, and most significantly, the advocate general found that the CFI failed to carry out a comprehensive review of the legal basis of the original EC Decision to approve the Levy. He went on to say that such an error impugned the very basis of the CFI's ruling and "could undermine the entire assessment of the merits of the [Commission's] decision".

Robert Durward of the BAA said: *"It would appear that the CFI will now have little option but to declare that the Levy, as it stands, constitutes illegal State Aid and must be modified or scrapped. However, for the Levy to comply with Article 87(1) EC it would have to be extended - retrospectively - to all currently exempt minerals such as coal, slate and china clay."*

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Whatley Quarry cleans up its scalpings

After one year of continuous use a scalpings washing plant installed at Hanson UK's Whatley Quarry continues to successfully extract clean aggregate from scalpings for onward sale, as Ross Matthews saw on a visit to the site just before Christmas.

Nestled amidst the Somerset countryside on the eastern Mendip Hills, just outside Frome, Hanson's Whatley Quarry - one of the largest quarries in the UK - produces on average 70,000 tonnes of Carboniferous Limestone a week. The rail-linked quarry, which supplies markets across southern England, operates on a five day production basis starting 6am and normally running until midnight.

Around 16% of face material coming through the quarry's main crushing plant ends up as scalpings and the perpetually increasing scalpings pile was causing a problem at the quarry because production would be halted while this material was removed, which of course led to double handling.

Hanson wanted a system that could wash the scalpings to extract clean aggregate so it would not merely keep the scalpings pile under control but also provide product for onward sale.

In the autumn, new plant was installed at the quarry for this purpose and today the system continues to provide a solution that has proved itself to be successful not only in achieving Whatley Quarry's requirements but also in working reliably on an arduous, double shift basis.The system processes up to 220 tph of scalpings (up to 1500 tonnes a day) to produce a 4 mm washed sand; the popular 30-5 mm aggregate that goes straight to concrete plants almost as soon as it's produced; 20-5 mm, which has found a big market in the Stratford City and Olympics developments in London and also 40-20 mm oversized material that can either be sold for sub-base material but is more often put back through the plant to screen it down to the smaller sizes. ▶

Hanson tasked Centristic to design and build the scalpings washing plant at Whatley and the company acted as main contractor on the project, which saw the system being integrated to the site's existing plant. SP Services carried out the erection while the electrics were designed and installed by Tucker EMS, with the control system produced by Batching & Blending.

Installation of the plant was completed at the end of September 2007 and it has operated for much of the time since then on double shift – operating on almost a 24/7 basis - successfully recovering clean stone and sand from the quarry's scalpings.

Kevin, who works with the system at Whatley, took Hub-4 on a guided tour of the plant. It all kicks off when scalpings enter the system from the stockpile via a tunnel. A single 950 x 1500 mm outlet in the tunnel roof provides ample room for this. In fact the generous aperture size has meant that a pair of air cannons usually installed to prevent bridging of the, often sticky, material at the opening have not been required.

The feeder is a Sandvik hydraulically powered (15 kW) reciprocating unit (1.3 m wide x 2.5 m long) feeding at between 160 and 220 tph onto the feed conveyor (800 wide x 128 m long) that threads its way through the existing plant to the site of the new washing section. The feed rate is varied according to how dirty the material is. There can be as much as 15% of dirt in the scalpings, so the effluent treatment plant is rated at 30 tph

The scalpings are sent through two screens and a screw. The two screens are Hewitt Robins units with Tema polyurethane modular decks and high pressure sprays; the first is an inclined double deck (1600 x 4800 mm) (7.5 kW) with a top relieving deck and bottom deck separating at 4 mm. This removes most of the fines before the scalpings are washed vigorously in a Coarse Material Screw Washer (CMSW). The machine chosen for this job is a single screw (44" diameter x 20 ft long) manufactured in the USA by McLanahan, and Whatley Quarry has found it to be very effective in breaking down the fairly soluble clay content in the scalpings. Once through the CMSW the remaining fines are extracted on the second screen, which also separates at 10 mm and 20 mm. This screen (1800 x 4200 mm double deck) (11 kW) operates at a 3 degree incline to maximise the dewatering action on the clean stone products.

It's important that the amount of water adhering to the aggregates is minimised, because the system can add them back into the main flow of stone going to the final screens. A significant amount of moisture in the stone would compromise the efficiency of the fine decks in the Grading Section. A series of motorised flap doors can be set to divert the 4 x 10 and the 10 x 20 products (or both) onto a final conveyor, which discharges into a surge bin over the main feed conveyor to the Grading Section. This flat bottomed bin has a drainage system to expel any free water before a Skako vibrating feeder regulates the recycled flow in proportion to the up to 900 tph main feed to the final screens.

When the products are not being recycled, they are conveyed to 1000 tonne stockpiles in concrete-walled bays next to a similarly sized sand stockpile bay. In addition to producing clean aggregates the plant achieves two other major successes: efficient production of a highly saleable 4 mm single grade of coarse sand; plus the effective handling of the waste fines.

The Sand Plant from Linatex (see panel story) extracts the minus 75 micron fines in two stages with two cyclone circuits (2 x 22 kW pumps) and dewaters the product on a VD12 screen (2 x 4 kW). It is rated at 100 tph, and includes a large effluent tank at ground level, and a pump to handle the 500 m3/hr of dirty water. The 45 kW effluent pump delivers to the Effluent Treatment Plant.

Effluent Treatment

Wash water and silt emanating from the aggregate washing and sand system is treated by the Effluent Treatment System, supplied to Whatley Quarry by Haith, which provides high quality treated water that can be used by the system and produces de-hydrated silt that can be transported and handled more easily than wet silt.

Designed to meet Whatley Quarry's specific requirements the plant can tolerate variances in the influent yet remain easy to operate. A silt or slurry buffer tank receives and stores the silt from the thickener at a rate dictated by the washing process. Standing between the 13 m diameter Thickener and Filter Presses it buffers the silt volumes generated during the latter part of the pressing cycle when the feed to the press is dramatically reduced. While these small variances can be accommodated in the Thickener, larger silt volumes cannot without the likelihood of a blockage. The inclusion of a buffer tank increases the system's flexibility and robustness by allowing the clarification process to proceed even when the press is on a routine or enforced maintenance outage.

The Thickener rakes are driven by a hydraulic system that suspends the rakes. Such a set-up means submerged bearings and bushes are not needed. The fully automatic Overhead Beam Filter Presses incorporates an automatic cloth washer system, which negates periodical manual washing. Effluent emanating from the washing plant is pumped to the Sieved Bend mounted above the feed launder to the Thickener. The Sieve Bend is fitted with a 3mm aperture wedge wire deck, which removes particles in excess 1.5 mm. Any grits removed are captured and held in a hopper at the base of the screen deck. An effluent delivery pump feeding the Thickener delivers the pre-prepared flocculent solution stored in a multi-compartment powder system equipped with a 75 kg storage hopper. Once charged with flocculent powder the system makes up flocculent to pre-set solution strength on demand. The multi-compartment system prevents shortcutting and so ensures all product is fully matures before use improving.

Flocculent is required to achieve solids liquid separation within the thickener giving rise to a thickened slurry underflow being discharged at the base of the cone shaped vessel and clear supernatant being discharged over the weir plates fixed to the inner face of the peripheral gallery on top of the thickener. The thickener internal rake system runs continually and maximises solids compaction by releasing the entrained layers of water that may be trapped in the sludge blanket. It also ensures that the compacted solids are directed towards the cone outlet and underflow pump suction.

Clarified water flows by gravity into a new clean water storage tank fitted with two pumps - one to provide treated water for the automatic cloth washing system on the Filter Press and the other a process pump to return treated water back to the aggregate washing plant (Supplied by others).

The thickened underflow is extracted from the Clarifier via two centrifugal pumps, each one sized for the operating silt yield. Operating in duty/assist the second pump is called to run if yields greater than the design 30 tph are being delivered to the thickener. Each pump delivers the silt via dedicated pipes into the buffer tank. The control system links these pumps via a pressure transducer within the thickener drive to continually monitoring the torque / load on the rake system, which is an indication of the silt density. Pre-set limits on this control allow silt of a predictable, consistent specific gravity to be discharged into the balance tank automatically. ▶

Level probes on the buffer tank prevent overfilling and also provide dry run protection for the press feed pumps. From the buffer tank two Filter Press feed pumps operating on a command from the press PLC deliver to the feed ports of two Filter Presses and be constantly monitored by inline pressure switches. On reaching a pre-set line pressure the pumps stop and the presses enter its automatic sequence for opening and discharging the cakes using an overhead beam plate shifting device.

Once the cake has been completely discharged, the presses close and another pressing cycle automatically restarts. All filtrate from the press is discharged by gravity into the treated water tank. Dirty water generated when the cloth washing system is in operation flows to a wash water tank fitted with a transfer pump, which will pump it to the Thickener feed launder. The silt cake discharged from the press falls by gravity into a three-sided concrete bund below. The cake changes all the time, depending on how the material comes out of the quarry though more often than not it's emitted as nice solid cake. However the quarry has yet to find a use for this material.

From the control room, Chris keeps a sharp eye on the plant. From here he is responsible for monitoring the system on the computer graphical interface and can adjust throughput rates at key parts of the system as required.

"The washing plant has been very successful." Martin Symons, production manager at Whatley Quarry told Hub-4: *"It produces a good product that is selling well and is helping us reduce waste. The scalpings pile would otherwise continue to grow and the only way to deal with it is to bury it. We now keep up with the scalpings being produced from the quarry."*

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The Linatex Sand Processing and Screen Dewatering System was designed to wash and dewater the -6.3 mm sand fraction so as to reduce the silt content to around 4% in the final product. As with all Linatex sand processing systems, abrasive resistant rubber linings were fitted to all major equipment such as pumps, cyclones and hoses as standard to provide superior operational efficiency and increased wear resistance than conventional rubber.

With an average sand and silt content in the raw feed of approx 45%, Linatex supplied a system to treat up to a maximum 100 tph of -6.3 mm associated with 250 m3/hr of water. As the average passing 63 micron was 27% a pre-wash was required to remove the excess silt before final processing with the sand plant.

The feed of –6.3 mm material and 250 m3/hr of water is flumed down to the centre of a 3658 mm dia feed regulating sump. From the base of the sump a 200/150 Linapump IIIr draws the slurry and feeds a Linatex 624 Hydrocyclone. With the combination of the feed regulating sump weir and the operation of the Hydrocyclone the vast majority of the unwanted silt is extracted via these overflows to waste.

The underflow from the Hydrocyclone is directed to a further 3048 mm dia feed regulating sump where an additional 163 m3/hr of clean water is introduced to make up the losses from the pre-wash. From the base of the sump a 150/125 Linapump IIIr draws the slurry and feeds a Linatex HK150 Separator. With the combination of the sump weir and the operation of the sand separator the remaining unwanted silt is extracted via these overflows to waste.

The separator with its underflow discharge regulator and overflow syphon arrangement produces a constant underflow density irrespective of changes in feed solids concentration (unlike conventional cyclones). The separator discharges on to the surface of a Linatex VD12 dewatering screen to remove the free moisture so that the sand is able to be stockpiled by the use of a conveyor. The underflow from the screen is re-circulated back into the system to ensure no loss of useful material

The overflows from the pre-wash sump, Hydrocyclone, sand plant sump and Separator containing the unwanted silt are all directed to an effluent collecting sump. From here a 250/200 Linapump IIIr draws the effluent and feeds the Haith Effluent Treatment Plant.

Major C&D waste recycling plant for Nick Brookes Group

One of the leading recycling companies in the North West of England has recently demonstrated an ongoing commitment to continuous improvement by installing a new state of the art washing plant. The Nick Brookes Group, based in Cheshire is now running a 120 ton per hour C&D waste recycling plant.

The Nick Brookes Group is one of the most prominent recycling companies in the region and have decades of experience in the waste, recycling and demolition sectors counting several leading house builders and local authorities among their customers. Their extensive recycling operation opened at its current location in 2005 and processes the full range of materials including metals, wood, paper & cardboard, green waste, plastics and construction and demolition waste material.

The new washing plant from CDE was purchased to improve the handling of the construction and demolition waste material that is received at the site, which can be found just off the A51 near Nantwich.

"We made the decision to install the CDE plant as we wanted to improve the quality of the final products we were able to produce from the construction and demolition waste that we take in" explains Nick.

Essential Experience

Over the last 10 years CDE's network of plants has expanded as demand for recycled aggregates continues to grow.

"In the last number of years we have installed a large number of aggregate recycling plants throughout the country," explains CDE's general manager in the UK, Terry Ashby. *"Nick Brookes plant is one of four that we have completed since the beginning of the year and there are currently another three projects in progress."*

As with any construction and demolition waste recycling plant, the primary consideration in the design stage is the highly variable feed material. This problem is further accentuated by the fact that unlike a traditional quarry operation, there is not ready availability of the feed material for testing. With this in mind, the selection of a supplier with extensive experience in this sector was something that Nick Brookes was very keen to ensure.

The construction and demolition waste recycling plants installed by CDE operate a tried and tested model that has been used extensively over the last number of years. However, one of the main advantages of the CDE plant is the high level of customisation involved on each installation.

The processing system

The installation at Nick Brookes Group site starts with an integrated hopper and conveyor at the beginning of the processing operation, which feeds the first of several screens from CDE's ProGrade range that can be found on this project. In addition there is a RotoMax logwasher and an EvoWash sand plant. This plant also includes a full water treatment phase with an AquaCycle Thickener and Overhead Beam Filter Press, ensuring that the plant produces no waste material at all. The filter cakes produced by the press can be used as landfill capping or canal lining, thus massively reducing the environmental impact of the operation. This is an element of the plant that Nick Brookes was determined to incorporate as the company has built a reputation for leading the way in the recycling market in recent years.

"Since we opened our new facility in 2005, we have worked very hard to ensure that the maximum amount of material that we take in is recovered for use in some shape or form" explains Nick. "At present our recovery rate sits at around 90%. This puts us right at the head of the industry and we are determined to further improve this."

The full plant at Nick Brookes site is a very compact operation and the inclusion of a full water treatment phase was essential given the location in an industrial area. The feed material is loaded into CDE's specially designed recycling hopper with its integrated 22 m feed conveyor. The focus on efficiency begins at the very outset of the CDE plant with the hopper and conveyor integration. The integrated belt feeder mechanism within the hopper ensures the transfer of material to the 22 m conveyor occurs as efficiently as possible by minimising spillage. There are also skirting rubbers around the entire base of the hopper, again minimising spillage.

Transfer Point Technology

"All the transfer points between individual pieces of equipment are carefully considered and we design to ensure that all individual components integrate together in the most efficient way possible" explains Brian McCullough, CDE's design manager. *"The ultimate result of this is a plant that delivers the highest possible volume of high quality material."* ▶

MENTOR moves in to Extractives

As the UK's leading training provider of all types of materials handling and workplace transport equipment, Mentor Training have continued their expansion into the extractives and minerals processing industries and now offer a wide range of accredited courses for plant.

Mentor FLT Training Limited
Burley Close,
Turnoaks Business Park,
Chesterfield.
S40 2UB
Tel: 01246 555222

Mentor's move into Extractives

Mentor became involved with the quarry industry following requests from existing customers who had been impressed by the training services provided for operators of fork lifts, cranes, tele-handlers, access platforms etc. Richard Shore, Managing Director of Mentor says "These same companies urged Mentor to develop equivalent quality training programmes, customer service support and professionalism for the larger items of plant used within the quarrying sector. We conducted extensive research into the requirements of the main operators in the quarrying industry and felt it was a good fit with our other areas of expertise and confirmed that we could provide the level of service that they wanted and needed. A separate 'Mentor Extractives' division has now been created within the company led by experienced industry professionals and the early results have been hugely encouraging" Heading up the Mentor Extractives division is Product Manager Steve Parfitt, a former Foster Yeoman employee.

EMP Accredited

Following their expansion Mentor became the first training organisation to be successfully accredited by EMP Awarding Body Ltd. to provide plant training in the extractive and mineral processing industry.

EMP, who are well known in the extractive and mineral processing industries as the awarding body for NVQ and SVQ work-related competence-based qualifications. Roseanne Hayward, General Manager of EMP says "that we are looking forward to continue working with Mentor to increase the portfolio of industry-recognised accredited training programmes and qualifications in the full knowledge that these will meet the needs of employers and recognise individuals achievements through the new Qualifications & Credit Framework.

All Mentor training courses for plant are for Wheeled Loaders, Excavators, Dumpers, Skid Steers and Tele Handler lift trucks are all mapped to EMP-NVQs which means any individual taking the operator training course is automatically contributing to their NVQ at the same time.

A look to the future

Further training courses for their extractives division have recently been developed. Courses for Agricultural Tractor, Dozer, Compactor and 180° Excavator with Backhoe have been mapped to EMP accreditation, with an additional module being tagged onto the excavator courses for the use of Quick Hitches.

Mentors aim is to work with extractives companies to ensure that their operators benefit from fully accredited and quality training courses that are available in other industry sectors with a view to becoming the leading provider of plant operator training.

Their future in the extractives industry relies on the site managers and key decision makers for operator training being able to identify that proper training makes sense; it saves lives, time and money.

Employee Profile

Name:
Steve Parfitt
Position:
Product Manager

Steve has been involved in the quarrying industry for over 20 years having joined Foster Yeoman straight from school in 1986. During his 20 years with Foster Yeoman, Steve progressed from trainee quarryman through plant operations and NVQ assessing/auditing to be the company Training Coordinator.

Steve joined Mentor in April 2007 to head up the then newly formed Extractives Sector as Product Manager. *"The past 19 months have been a fascinating experience"* says Steve *"we have developed the courses to the highest professionalism I have ever seen, we became the first training company to become accredited by EMP and we have gained some exciting new training contacts"*.

Having worked for a large quarrying business, Steve believes he knows what is wanted from a training provider and is determined to make sure that Mentor provides that level of service. The aim - to become the leading plant training provider in the sector within 3 years.

MENTOR

The 22 m feed conveyor has an overband magnet fitted to remove any ferrous material from the feed. The next stage in the process sees the introduction of one of CDE's ProGrade rinsing screens. The specific model on this project is a two-deck 4 x 1.5 m screen. The –5 mm material is removed at this point and sent to the EvoWash sand plant for further treatment. Meanwhile, the +5 mm material is sent to the RotoMax log washer. This machine has developed a reputation for its ability to effectively clean very dirty or clay bound material in traditional quarry operations. The model used on this recycling project is their RX150 model, which has been specifically designed for recycling operations.

"There are some differences between the Rotomax that we will supply to traditional quarry operations and that which we specify on a recycling project" explains Brian McCullough. "This is a result of the need to remove organic materials such as wood, plastic and polystyrene from C&D waste – something that you would not usually encounter in a quarrying operation."

All of the organic material in the C&D waste feed is floated off the rear of the Rotomax to a trash screen, and is then discharged into a bay. Likewise, any remaining –5 mm material flows to the EvoWash sand plant while the +5 mm material is discharged from the Rotomax onto another ProGrade dewatering screen.

The next stage in the process sees the introduction of a non-ferrous separator prior to the +5 mm material being sent to a final sizing screen. The non-ferrous separator discharges the material into a skip and the remaining aggregates are sent to another of CDE's ProGrade range – the particular model used here is a two-deck 5 x 1.5 m screen. This screen has a split bottom deck and produces 4 products - +40 mm, +20 mm, +10 mm and 5-10 mm.

The EvoWash sand plant on this project is a dual sand model, producing both a fine and coarse sand.

Full water treatment

Following the sand washing phase of the project the waste water from the sand plant is then sent to an AquaCycle A400 thickener for the first phase of the water treatment process. Upon entry into the Thickener the material is mixed with a small amount of flocculent prepared in the integrated Polyelectrolyte Dosing Station. The material then enters into the Thickener tank were it quickly begins to form a thick sludge and settle to the bottom of the tank. The clean water overflows the top of the tank and is sent to an AquaStore tank for re-circulation around the system. Meanwhile a set of rakes rotate along the bottom of the tank moving the sludge into the centre and preventing the sludge from setting. The rakes also send information about the amount of resistance back to the central PLC control panel, which automatically starts and stops the main sludge pump when required. The thickened sludge is then sent to a buffer tank for further treatment by the GHT Filter Press.

The Overhead Beam Filter Press is a heavy duty machine specifically designed for the quarrying industry successfully eliminating the problems associated with commonly found side-bar designs. The GHT is capable of 24 hour unmanned operation and is famed for the dry, easily handled waste it produces without having to use any additional chemical or flocculent.

"We are finding an increasing number of our projects in both the traditional quarrying and recycling sectors are incorporating filter presses," says Enda Ivanoff, CDE's sales director. *"This is undoubtedly a result of an increasing focus on reducing the environmental impact of washing operations and is something that we expect to continue in the coming months and years."*

Certified Sand and Aggregates

The specification of a recycling plant that can deliver certified sand and aggregates is essential if the industry is to continue to prosper. This remains a strong growth area within the UK industry as a result of the growing demand for recycled products. However, if this demand is to continue to grow, it is essential that all who work in the industry take heed of the recent warnings delivered by WRAP concerning so called 'recycling' operations currently produce material that does not comply with the required specifications for use.

"As further research is conducted into the various properties and performance characteristics of recycled sand and aggregates, the list of potential applications is consistently growing" says Brian McCullough. "If demand for this type of material is to continue to grow it is essential that the recycling plants specified are capable of producing the material to the required specification. As with natural sand and aggregates, certain standards need to be met and our plants are designed to ensure that the final products meet and exceed these standards"

The UK industry is a world leader in terms of the quantity of recycled materials that are produced and there is strong evidence that there is plenty of growth yet to be enjoyed. A continued focus on the delivery of high performance plants such as those offered by CDE will ensure that the industry continues to develop into a major force.

"Our recycling plants have evolved considerably over the 10 years that we have been working in this area" concludes Enda Ivanoff. *"We pride ourselves on this culture of continuous improvement and can assure all our customers that we will continue to develop our expertise to ensure performance remains at an optimum level"*

Plant provides high quality sand

Enda Ivanoff, CDE's sales director who retains extensive involvement in all of the company's product development initiatives reveals that there are number of design features of the EvoWash range which offer tangible benefits for CDE's customers. The first of these is ensuring the achievement of consistently accurate silt cut points at 63 micron.

"There are numerous plants out there that will claim to be able to cut at 63 micron, but the problem that we have relayed to us on a regular basis from our customers is that while this may happen sometimes, it is very difficult to find a system that will consistently deliver these results" explains Enda. *"We can and do achieve these results with the EvoWash system – have a look at the testimonials section of our web site and you will see many comments from some of industries leading players on how we have solved precisely this problem."*

In addition to the accurate cut points offered by the EvoWash system, Enda and Brian then list a whole host of further features of the EvoWash sand plant which they believe are responsible for the success of the plant in recent years. They go on to mention the dewatering capability, which produces material at approximately 12% moisture content, making it ready for market straight from the belts. The use of high performance components is also given as a major reason for success.

"We know that our customers are trying to ensure their plant is operational for as close to 100% of the time as possible" says Brian McCullough. *"We aim to help them to achieve this through a focus on increasing wear resistance and minimising maintenance time."*

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Family run waste recovery specialist gains new recycling plant

Family-run independent waste recovery specialists, FD Todd & Sons, has replaced its elderly but faithful recycling and sorting plant with a new state-of-the-art system sourced from Blue Group. The new plant has been specified and built using a combination of compatible processing and conveying machinery from Blue, which cannot only handle the increased and varied volumes currently being processed but also ensures that projected additional recycling requirements can be easily accommodated in the future. The new installation also has the considerable extra benefit of being designed so that it provides the capacity to batch-run waste using separate individual components of the plant as required.

A long and successful partnership with Blue Group ensured that FD Todd had no second thoughts as to whom they should turn for the provision and installation of a modern and efficient recycling plant. FD Todd has been a long-standing customer of Blue for many years and, indeed, added two Powerscreen Powershredder 1800 mobile shredders from this leading distributor late last year, one of which forms an integral shredding and volume reduction part of the new plant.

FD Todd operates three waste recovery plants in North Yorkshire - York, Thirsk and Knapton near Malton, where the company also operates a non-hazardous landfill. Richard Todd and his younger brother Peter are managing director and project director respectively and are the fourth generation of the family to run the business, which started 107 years ago. Now Todd is one of the largest independent waste treatment specialists in Yorkshire, running a large fleet of skip and trade waste trucks, roll-on-off vehicles, compactors, crushing, screening, shredding, washing and recycling plants.

Collecting from a broad customer base throughout the area, FD Todd processes and recycles some 100,000 tonnes of industrial, municipal, commercial and demolition waste every year, including the recovery of paper, card, plastic glass, timber, compostable waste and dirty plastics through an in house washing system. The company still has a quarrying operation at Knapton, which produces a range of aggregates and stone for road construction, building, concrete production and civil engineering.

"Processing and recycling waste is our core business," says Richard Todd. *"We specialise in front-end recycling through to final disposal, extracting and reclaiming the maximum weight and value from co-mingled wastes. From the two main separate waste streams that we handle, construction and commercial, we draw off the recyclable fractions and thereafter shred the residual wastes for weigh and volume reduction. Our new recycling plant has been chosen after detailed consultation with the engineers at Blue and, we feel, represents good value from tried and tested systems. We visited a number of reference sites"*, continued Mr Todd, *"were impressed with what we saw and, significantly, found that our colleagues from Blue fully understood our processing requirements, showing a real expertise in providing a solution to fulfil our needs from inception to commissioning"*

The new recycling plant is comprised of a number of compatible processing and materials handling modules. A series of free-standing feed, transfer and discharge conveyors provide the essential linked materials flows for processing equipment, the picking station and stockpiling of varied waste sizes and volumes, including fines. Features such as full skirting, impact bars, feedboots with full impact sections and overband magnets for tramp metal removal are included where necessary throughout the conveyors array.

The primary screener in the recycling system is a Kiverco 1040 Trommel. A heavy-duty model, the fully enclosed rotating screening drum is 13 m in length and 3.3 m in diameter, fitted with 50% 40 mm punch plate and 50% 180 mm punch plate. The drum speed is infinitely variable with a heavy-duty four-wheel electric drive.

The Kiverco Picking Station is fully enclosed with heating and lighting for operatives' comfort and security. Six bays and twelve drop chutes are positioned either side of the 1.5 m wide and 3.3 m long infinitely variable speed conveyor. An overband magnet is included for further safe removal of ferrous metals.

The Nihot SDS single drum separator and Windshifter WS-S provide an additional facility for secondary and tertiary separation. The Nihot SDS uses controlled air to separate waste input into two fractions – heavy and light, passing on the lighter materials to the Windshifter for further separation.

Comprised of a combination of recirculation fan, a separation section with a rotating drum and a connecting expansion chamber, the SDS single drum separator can process varied waste streams, including those with high moisture content and large fraction sizes such as plastics or foils. The Windshifter WS-S also uses a controlled air principle for greater separation of the light fractions and this is also equipped with dust filtration.

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Walking excavator passes screen test

A Dorset-based specialist contractor is helping to remediate a brook in Derbyshire using, perhaps, the most unusual equipment combination currently working anywhere in the UK. Alaska is using a 10 tonne walking excavator equipped with a Dig A Screener R600 to help remove silt from a water course contaminated after a land slip at the end of last year.

Based in Wareham, Dorset, Alaska is using a combination of a Batemag walking excavator and an R600 Dig A Screener rotating screening bucket to tackle a tricky remediation contract on a Derbyshire brook that ultimately feeds into the River Derwent.

At the end of 2007, a land slippage caused the failure of a dam sealing the clean water lagoon at a local mine. The resultant wall of water crashed through the adjoining village of Stoney Middleton and raised the water level in Stoney Brook by over a metre. To make matters worse, the lagoon contained a high level of tailings from the mine workings that contaminated the stream bed with silt. Ordinarily this would have been washed away naturally, but this material swamped the gravel fish breeding beds to such an extent that the flow of water has been insufficient to move it. As a result the silt has now compacted and 'armoured' the gravel, rendering it useless for breeding.

In a contract overseen by the Environment Agency, Alaska was called upon to remove the silt and clean and replace the gravel at various locations along a 3 km stretch of Stoney Brook. It was originally estimated that the project would require the removal of approximately 100 tonnes of silt but Alaska has already extracted more than 1,000 tonnes and isn't finished yet.

The relatively remote location of the brook, coupled with the need to safeguard the integrity of the banks of the brook forced Alaska to take a somewhat unusual approach to its equipment selection process. *"Environmentally, this is an extremely sensitive project. We are restoring the breeding grounds for fish whilst also protecting the banks of the brook which is home to a large population of water voles,"* says Alaska's Mike Worth. *"The walking excavator is able to climb over the banks without damaging them and can also wade into the brook itself and work freely in water that is up to two metres deep in places."* According to Worth, the combination of the excavator and the Dig A Screener R600 has proved perfect for the remediation work. *"The screen is used as a normal bucket on selected areas. The loaded bucket is then rotated over the waste skip to remove the heavier silt before being immersed in the water filled-skip to remove the finer silt. The cleaned gravel is then replaced in the river bed,"* he says. *"The reclaimed material is returned to the mine where over 90 percent of the material to date has been processed and reclaimed."*

"We've been extremely pleased with the R600 screening bucket; it has enabled Alaska to revitalise the river bed and bring this part of the river back to life. The Environment Agency has also been impressed with its performance and the comparison before and after is nothing short of remarkable." Mike Worth concludes. *"The 4 mm screen is just right for removing the silt and retaining the gravel. I'm not sure how we would have tackled this project without the R600. And it must be working because the whole area is now awash with kingfishers."*

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Largest material recycling facility in the UK

Bollegraaf UK has built for Greenstar the largest co-mingled material recycling facility of the UK in Aldridge. The plant has been fully operational since April 2008.

Since the UK government "buckled" down to the European legislation of waste handling, the growth of recycling plants in England got a lift. Co-mingled collection of recyclables is an effective and environmental friendly way to recycle. It saves transport and energy costs and due to the unique technology and equipment of Bollegraaf Recycling Machinery the purity rate of the recyclables are in excess of 96%. The project is able to handle 250,000 tonnes per annum. The plant processes both mixed and sorted dry recyclables, including all forms of paper and cardboard, plastic and glass bottles, steel and aluminium cans and wood.

The large capacity this installation can handle makes the Greenstar project stand out. Thereby the recovery of the paper is exceptionally clean. Consequently the return of investment for Greenstar is higher. The cleanness of the paper is due to the Starscreens, from Lubo Systems, used instead of a drum/ rotoscreens. Through this system the paper will not be mixed up with the other recycables as it is with a drum / rotoscreen. The manual work in this plant is reduced to a minimum, which saves a lot of running costs.

www.hub-4.com/directory/6175

SE Davis increases its recycling capabilities

SE Davis & Son is a family owned and operated business that has been located at its 16 acre site in Astwood Bank, Worcestershire for the last 70 years.

There are several distinct, but complimentary operations within the business. In addition to offering the widest range of landscaping materials in the area the company also hires out heavy earth moving plant - with operators or as self-drive; and offers crushing and screening services to the quarrying and demolition industries.

The company's involvement in recycling has recently taken another step forward with the development of a mobile aggregate washing system. This mobile system does not rely on a constant supply of clean water for washing, or the need for vast settlement lagoons in which to dispose of the used water.

Instead, the plant incorporates a water recycling unit that allows full recycling of the water in the system. This increases the proportion of re-usable products that are produced, and is fully mobile allowing materials processing on clients' sites.

Linatex has provided the technology to allow the new system to accommodate two very different duties: to treat the solids and reduce the silt (-75micron) content.

The duty requirements accommodate surface dressing – 8 tph of solids associated with 100 gpm of water and granite dust and 50 tph of solids associated with 300 gpm of water. With dry SG of solids 2.6 and all -4 mm material with approximately 10% passing 75 micron with approximately 180 gpm of overflow water is fed to the water treatment unit.

The waste surface dressing material, which is fed into the system is a very aggressive, course and angular material. To provide superior operational efficiency and wear life Linatex abrasion resistant linings were installed throughout the system, including the pumps, hose and cyclones.

The process is fairly simple; operating at 80 tph waste material is delivered into the hopper of a mobile 20 x 5 2-deck rinsing screen. From this screen 10-4 and 20-10 material is fed to separate stockpiles. The remainder of the washed material is then gravity fed to a Linatex tank and then pumped to the Linatex G4 Hydrocyclone and fed over a dewatering screen, which supplies sand to stockpile. Dirty water is then pumped into the stirrer tank and dealt with by the mobile centrifuge. Clean water back from the centrifuge is then delivered to the water storage tank.

Linatex supplied two G4 Hydrocyclones, model GEN250 and GEN375 with support mounted over the dewatering screen and 80 mm and 150 mm overflow pipework to the collecting tank.

A collecting tank complete with two outlets to suit pumps with 50 mm and 150 mm suction pipework to the pumps. Final elements included two Linapump models 50/50 and150/125 with 50 mm and 125 mm feed pipework to the cyclones.

Paul Davis, director, at SE Davis says: *"The equipment is very reliable and the plant is performing exactly as required."*

The new mobile aggregate washing plant is proving very popular for the recycling of road chippings by local authorities and their contractors with the unit recently employed as far as Norfolk.

www.hub-4.com/directory/507

Increased productivity and safety at construction waste recycler

Increased productivity and safety at construction waste recycler

Mick Dann Excavations, based in Leicester, has chosen the Geith Claw Auto-lock Quick Hitch from Doosan Infracore International Attachments (formerly Ingersoll Rand Attachments) instead of semi-automatic hitches on new 14 tonne and 20 tonne Doosan excavators supplied by Tag Plant Sales. Based in Whittlesey near Peterborough, Tag Plant Sales is responsible for sales and servicing of the Doosan excavator and wheeled loader range in Northamptonshire, Leicestershire, Cambridgeshire, South Lincolnshire and part of Bedfordshire.

The change to the Geith automatic hitch is in advance of major industry moves to ban semi-automatic hitches. This is in response to a Health & Safety Executive (HSE) initiative following several fatalities caused by the incorrect use of safety pin semi-automatic hitches. As a result, leading manufacturers have agreed to not supply semi-automatic hitches on new excavators sold into the UK market from 1 October 2008.

Managing director Mick Dann says: *"The Geith hitch is a proven product – we wouldn't be using it on our machines if it wasn't well tested in the field. From the safety point of view, the removal of pins is a continuous problem on semi-automatic hitches and I welcome the move to outlaw their use for increased safety."*

The two new machines at Mick Dann Excavations are part of a fleet of five Doosan excavators and a Doosan Mega 400 loading shovel run by the company. The equipment is used to load construction debris from sites throughout Leicestershire into the company's screening and crushing equipment, which processes it for sale through builders merchants. Open for the last four years, the 6 acre processing centre in the middle of Leicester is the only one in the area.

As well as increased safety, Mick Dann believes there are many more advantages offered by the Geith hitch in terms of productivity. *"The Geith system is so easy to use for changing attachments and it speeds up the process and frees up personnel. We have to change buckets to breakers regularly to clear blockages in the crusher, where the breaker is used to drive the material down. So one operator can take a ditching bucket and breaker and change between attachments to do both secondary breaking on concrete debris and then load it into the crushers and screeners - one machine can do everything which is a big productivity gain."*

Whilst costs have been rising steadily for the last three years, the price of the products produced by Dann Excavations is virtually unchanged, so the company's philosophy is to change its cost structure to fit the market situation.

Over the last 12 months, the company has switched from large shovels to smaller, more compact and fuel efficient Doosan excavators and in the process, has halved its fuel bill. After 20 years in the business, Mick Dann knows that fuel efficiency and productivity gains such as those offered by the Geith hitch all add up. The latest investments in the new excavators and new screens demonstrate the company's confidence in the future.

The operations at the Leicester processing site are complemented by the company's role outside the centre as a sub-contractor for removing waste and debris from construction sites. Mick and his team have carried out contracts as far afield as St Ives in Cornwall and these are normally turnkey in nature combining demolition with removal/recycling of the debris from the site.

The Claw Auto-lock Quick Hitch has been developed by Geith to meet safety regulations demanded by different countries and organisations around the world as an alternative to semi-automatic hitches. For new excavators, the HSE is proposing that powered couplers have an automatic device such as that in the Geith Claw system, that prevents the attachment from falling off in the event of a loss of hydraulic pressure. There must also be an indicator as offered by the Geith system, which is viewable from inside the cab, to show the device is secure.

The Claw offers a range of attachment interchange across different machine models of any coupler on the market. Its unique patented safety features include a positively activated pin-lock ensuring safe release of attachments and providing advantages over gravity operated systems where dirt and corrosion cause jamming and malfunction. It is also highly operator friendly – Auto-lock is fully visible from the cab and its status is impossible to misinterpret. The hydraulic circuit incorporates two independent in-line check valves and is also backed up by Geith's patented over centring pin retaining clasp, which together prevent the accidental release of an attachment in the event of a loss of hydraulic pressure.

The quick hitch is manufactured using Extra High Strength (EHS) and Abrasion Resistant (AR) steels for maximum abrasion resistance and durability and to ISO 9002 standards. High strength materials and cast steel components are used throughout the coupler structure. This minimises weight and maximises the operational life cycle even in the toughest applications.

www.hub-4.com/directory/8394

Washing On The Move

A four component sand and gravel processing system supplied by APS, the specialist washing arm of the Finlay Group, is gearing up to relocate from its present location at Tarmac Milfield to a brand new Tarmac site in Northumberland.

For almost three months, the mobile system, comprising a Terex Finlay 390 feed conveyor, APS 300 high capacity triple deck sand and gravel Screening unit, Finlay 200 Hydrasander and Trio 4432 twin fine material washer - all supplied by APS - has been in position at Tarmac Milfield's Quarry.

Now, as Tarmac prepares to cease production at Milfield after almost 40 years and commence extensive restoration works, the APS system is being relocated to its new quarry at nearby Lanton. Milfield has provided sand and gravel for an area stretching down to Newcastle-upon-Tyne and Teeside, up to Edinburgh.

The APS system complements Tarmac's strong sustainability credentials at the site, located in the Cheviot Hills. Its low profile, compact aspect creates minimal visual impact and the unit is engineered to reduce sound, in an area where the early phases of restoration have already been recognised as outstanding, attracting a rich wildlife including teals, swans and hundreds of mallards.

The site won an *'Excellence in Restoration'* award in 2003 from the Quarry Products Association in recognition of its work.

Charlie Nairn, a director of Finlay Group, says: *"The system has worked well at Milfield. Since its introduction, production has increased by more than double and the unit produces 300 tph, working to produce four different product sizes. The oversize material is fed via a transfer conveyor to a jaw crusher and reintroduced back into the plant. For the move to Lanton, two of the major components can be fully road towed by articulated vehicles and two others taken by low loader, so the relocation is easy and uses minimal resources. In the past, as a company, our main focus has been inclined decks. However, technology has moved on*

and flat decks now allow more control and greater variable vibration for higher production tonnages – and more accurate screening. Ireland has really embraced the change to flat screens. England and Wales are now catching up. Projects such as Milfield demonstrate their ability to deliver high levels of efficiency and productivity, in tune with the surrounding environment."

Dave Phillips, site manager at Tarmac Milfield, says: *"The APS unit has been very effective. Productivity has been increased, noise reduced and the system is simple and easy to use. Importantly, the entire system is not obtrusive to the surrounding landscape."*

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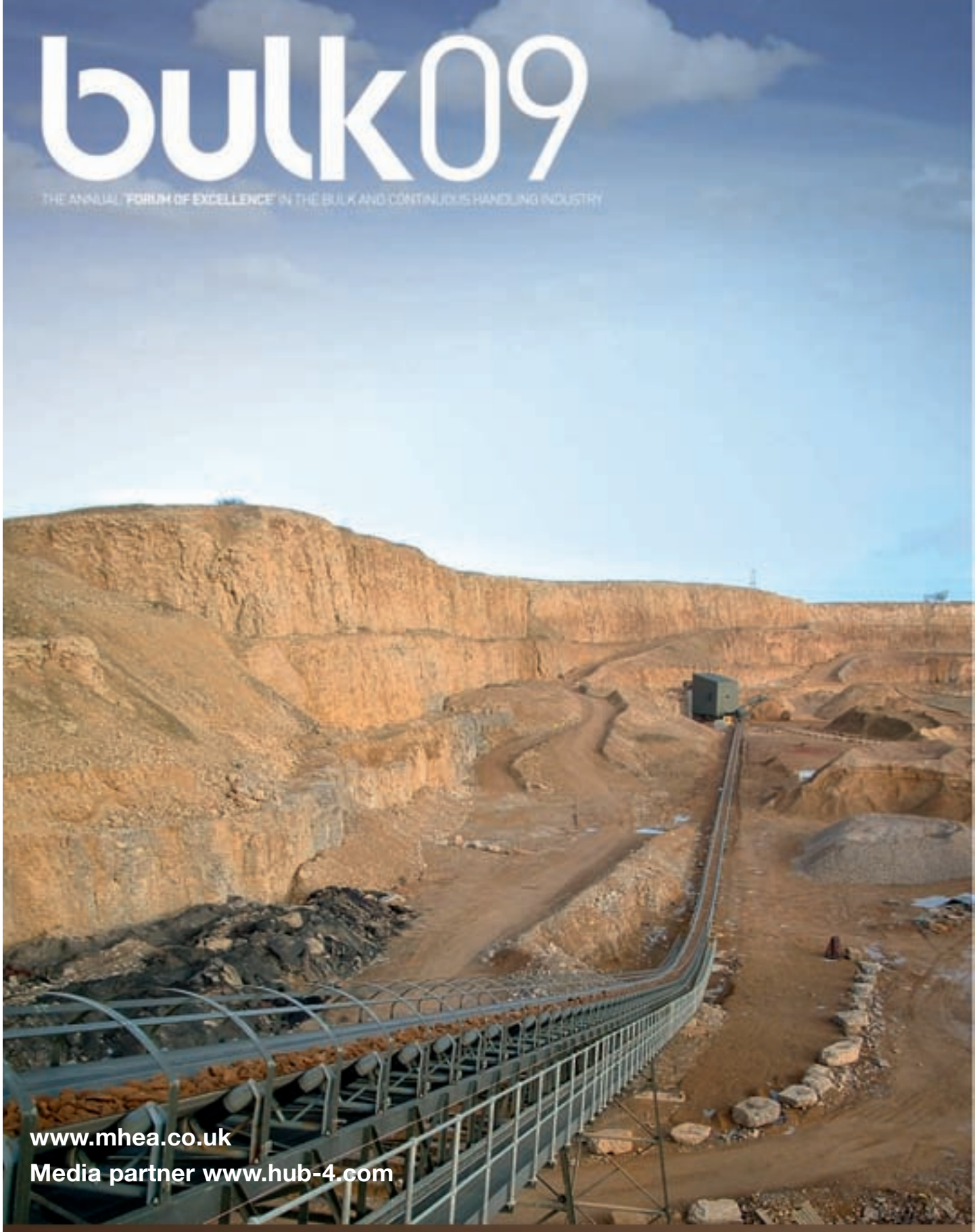

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Third dumper boosts excavation rates in German quarries

Herhof Basalt- und Diabas Werke GmbH has added new Terex TA40 to its fleet of dumpers working in the company's two quarries located on the spurs of the Westerwald mountain range in Hesse. The articulated dump truck, the third Terex articulated truck in the company's fleet, was delivered by dealership Atlas Rhein-Main directly at the Ley quarry, where the company focuses on basalt extraction. In the neighbouring Blickerwald quarry, the company mainly extracts diabase. In 2008, the total combined production of both locations increased to approximately one million tonnes, of which 350,000 were basalt and 650,000 were diabase.

"The new Terex dumper is simply perfect for making these higher excavation rates a reality," says company director Ralf Hofmann.

One of the main tasks of the dump trucks is to haul material in both quarries. Thanks to the TA40's payload of 38 tonnes and a headed capacity of 23.3 m3, a total of over 170,000 m3 will have been moved by the end of 2008.

The company added the TA40 having operated two TA30 models. Ralf Hofmann had the following to say: *"Our vehicles have to run continuously and perform demanding operations day after day, regardless of the conditions."*

With the addition of the TA40, the company can now remove excavated material even quicker, and the excavation rates for the valuable rock have improved as a result. The Terex dumpers also bring the mined material to the crusher installation, where basalt and diabase are crushed and sized to the desired grain size then loaded and shipped to their respective customers. The machines are helping Herhof Basalt- und Diabas Werke GmbH to reach daily delivery capacities of up to 4,000 tonnes.

Rockwool's Roermond plant, which is located in the Netherlands, is one of the company's main customers when it comes to extracted basalt material. This material is used at the plant in order to manufacture insulating materials, geotextiles for greenhouses, and fibres for asbestos-free brake linings.

The diabase rock obtained from the Blickerwald quarry is used mainly as a high-quality aggregate for asphalt surfacing and in concrete factories.

www.hub-4.com/directory/817

Magherally Quarry in Northern Ireland replaces asphalt screen

Owned and operated by Gibson Brothers Magherally quarry is located at Banbridge in County Down. Operating an on-site asphalt plant the company contacted Finedoor with a view to replacing an aged asphalt screen located within a Titan 200 asphalt plant.

Following discussions and subsequent site survey Finedoor received an order for a 5 x1.8 m three and a half deck asphalt screen.

The new screen was manufactured from 10 mm thick rigid side plates with heavy-duty bolted in deck frames. Inclined to 12 degrees the screen features two self aligning spherical roller bearings and was supplied with a pumped oil lubrication system. This system maintains a constant oil temperature of approximately 60° passing through the bearings and is directly linked to the plant PLC.

Fitted with full width camber, side clamp screen decks and coil springs mounting to isolate vibration the screen also has removable imbalance weights. An alloy steel shaft operating at 960 rpm provides reliability and strength.

Screen drive comprises of 18.5 kW motor complete with drive pulley, vee-belt drive complete with drive guard and a spring loaded motor base all mounted on a new sub frame.

Installation and commissioning was carried out to an agreed schedule over the summer holiday period to limit production downtime.

Justin Gerring, quarry manager of Gibson Brothers comments: *"The change over went very smoothly, with the Finedoor team of experienced fitters working together to overcome any unforeseen problems. After a few minor adjustments and tweaking of the lubrication oil system, the screen is doing its job well and I look forward to many years of service from the machine."*

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Gear shift

High-reliability gearboxes and bearings cut conveyor maintenance and energy costs at aggregates quarry

When Corcoran Concrete decided to invest in a new stone chip plant, it specified that the conveyors must come fitted with Dodge ISN bearings and Torque-Arm II speed reducers.

Dodge ISN bearings have helped to increase reliability by around three-fold.

Tapered bushing on Dodge Torque-Arm II shaft-mounted speed reducers makes disassembly and reassembly quick and predictable.

Conveyor uptime has increased dramatically at Corcoran Concrete's quarry in County Mayo, following a switch to Dodge-brand gearboxes and bearings from Baldor. Drive components last 300% longer on conveyors while the efficient helical gearing has reduced power consumption.

The decision was made following trials on conveyors in the sand production area of the quarry. Here, bearings were failing as often as three times a year, and the gearboxes typically lasted only 12 months. In some cases, a bearing failure also meant changing the gearbox as well, as it had to be removed by force — sustaining damage in the process. In these cases, the material costs were dwarfed by the day's downtime needed for the repair.

Corcoran Concrete discussed the problem with local power transmission distributor, Central Bearing Supplies, who suggested replacing the Plummer block bearings that came with the original conveyor equipment with Dodge ISN components. The main feature of interest was the ISN bearing's combined triple-lip and flinger sealing system, which is very effective against contaminants such as sand and stone dust. A further advantage of the bearing is its provision as a shaft-ready bearing with an adapter mounting system that allows installation in typically 15 minutes.

As bearing failures occurred in the sand production and washing plant, Corcoran Concrete replaced them with ISN types, and saw reliability increase by around three-fold. When a gearbox also went down, Central Bearing Supplies suggested it try a Dodge Torque-Arm II shaft-mounted speed reducer, primarily because of its tapered bushing system, which makes disassembly and reassembly a quick and predictable task.

Reliability improved again. So, when Corcoran Concrete recently decided to invest in a new 300 tph plant for stone chip production, it specified that the conveyors must come fitted with Dodge ISN bearings and Torque-Arm II speed reducers. The new plant uses Trio aggregate machinery, which is integrated together with custom structures and conveyor sections designed and manufactured by Gortavoy Plant.

Corcoran Concrete's maintenance manager, Ian Duffy, notes: *"This is a competitive business and reliability of production is a critical concern — to make sure our clients' construction projects run smoothly. The sealing integrity built into these Dodge parts has made a significant difference for us. And when parts do eventually fail, we have the fallback position of predictable repair times through designed-for-maintainability features."* ▶

Corcoran Concrete's Dodge ISN bearings and Torque-Arm II speed reducers.

A further spin-off benefit for Corcoran Concrete is the Torque-Arm II speed reducer's use of two-stage helical gearing. This provides energy efficiency in the 96% range, minimising energy consumption. The difference became clear when Ian Duffy decided to make a comparison between old and new conveyors using an ammeter. Drives on the older conveyor systems tend to draw currents of around 70-75A. The new conveyors in the stone chip area with their Dodge helical gearboxes draw around 40A. Although this evaluation exercise was not performed under closely controlled conditions, the obvious efficiency of the new automation made it clear that the energy savings would give a fast payback on the investment. These benefits are further amplified for Corcoran Concrete because they already draw almost the

Dodge ISN bearings have helped to increase reliability by around three-fold.

maximum capacity of the electricity supply to the quarry, and extending this would incur a substantial charge to improve the infrastructure.

"Dodge bearings and gearboxes have a formidable durability record on the most aggressive processes," says Mike McGrath of Central Bearing Supplies. *"Compared with the components often fitted on quarry conveyors, they can often increase operating lifetimes substantially as this quarry application demonstrates."*

Gortavoy Plant, a Northern Ireland company specialising in application-specific automation solutions for quarries, designed the handling automation for the new stone processing area.

To aid the reliability and maintainability of the 17-section conveyor system it produced for Corcoran Concrete, just two sizes of Dodge gearbox and two sizes of ISN bearing have been used throughout the conveyor system, by allowing for good margins of performance above the nominal ratings. This feature aids the robustness of the system, and additionally allows Corcoran Concrete to maintain a spares holding on the site to deal quickly with any unforeseeable problems.

www.hub-4.com/directory/7125

Tarmac goes mobile

A Lokotrain provided by Metso Minerals and comprising an LT140 track-mounted mobile crusher, a pair of Lokolink mobile conveyors and several field conveyors is helping Tarmac Quarry Products convert from a static to a mobile crushing operation at its Barrasford Quarry in Northumberland. The Lokotrain, which has helped reduce manpower and replaced a pair of static crushers and a rigid dumptruck haulage fleet at the huge 135 hectare site, has required considerable interaction between Tarmac and engineers from both Metso Minerals and from its parent company in Finland.

Located on land owned by the Duke of Northumberland, Barrasford Quarry boasts reserves of around 45 million tonnes. It has been in active service since 1880 and today produces around 500,000 tonnes/year of which around 85% is quartz dolorite (whinstone) that is used in Tarmac road products. This hard, abrasive rock is the material that forms the Great Whin Sill upon which Hadrian's Wall is built. The remaining 15% is blue limestone that is used for aggregates. The quarry is 20 m deep, and there are plans to lower the base still further to around 35 m, which is unusual as most other local deposits lie at a depth of between 13-15 m. Material is won by blasting which takes place every three weeks, each blast freeing around 30,000 tonnes. There is very little environmental impact with regard to noise and dust as the quarry has no immediate neighbours. However, the site is monitored and water suppression is used at the face.

Mobility benefits

Quarry manager Ed Dixon reports that the 110 tonne LT140 track-mounted mobile crusher was purchased to replace a pair of static jaws that had clocked up more than 30 years service at the site.

"We bought the LT140 in December 2006 to replace a pair of ageing static jaws and it worked for eight months as a stand-alone machine," Dixon says. *"But, having experienced the benefits of mobility, we knew that we could achieve even greater levels of productivity, safety and cost-savings by making the entire operation mobile with the purchase of the Lokolink conveyors." In a single step, the arrival of the Lokolink conveyors effectively replaced a pair of Cat 771 off-highway trucks and reduced the need for manpower at the face.*

But the move to mobility was not without its challenges. The floor of the quarry slopes at over 10 degrees (East to West) to allow for the working of the beds, a fact that required some additional input from Metso engineers both from the UK and from Finland. "This set-up was the first of its kind in Europe on such a significant slope so the chief designer and engineers from Finland supervised the installation. Even then, there were some initial issues with manoeuvrability," Dixon explains. "At first, it was taking more than three hours to get the crusher and the links just right. Now it takes a maximum of half an hour, which is just as well as we're moving the entire train every other day. We are very pleased with the set-up of the machines. Metso took a lot of trouble to ensure this installation was right. As a result the crushers work far more efficiently and flexibly than ever before, and we're regularly exceeding productivity levels of 400 tonnes/hour."

Minimising Impact

There is an ongoing bio-diversity programme to restore the land to its natural state and Tarmac has even consulted world-famous botanist David Bellamy to safeguard the future of the site. Ed Dixon reports that when the quarry is exhausted it will be allowed to flood naturally, and there are long-term plans to restore the site to natural

Whinstone grassland. Indeed, this process began in 1996 and a large expanse of the Western edge of the site has been filled, graded and replanted."

Until then, Tarmac is using some unusual methods to reduce the visual impact of its quarry operations. *"Part of the planning application to bring the LT140 on site involved minimising the visual environmental impact, so the crusher and the links were all painted a drab green colour. It took a lot of convincing the local population that the army weren't involved in some secret enterprise on the site,"* Ed Dixon concludes. *"But drab colour aside, I can't fault the Lokotrain or the support provided by Metso. The mobile plant is far more productive than our original static machines and Metso worked tirelessly to ensure that the installation fully satisfied our very specific needs."*

www.hub-4.com/directory/560

New dynamic weighing system for Hanson Theale operation

Precia-Molen UK Ltd has recently supplied a new dynamic bulk weighing system for the Hanson Aggregates rail distribution depot at Theale near Reading, Berkshire.

Specialising in industrial weighing, Precia-Molen UK Ltd offer both static and dynamic systems within the minerals, cement, waste and agricultural industries and has an enviable reputation for innovation and quality at the forefront of weighing technology.

Hanson, part of the HeidelbergCement Group is one of the largest suppliers of heavy building materials to the construction industry. It produces aggregates (crushed rock, sand and gravel) ready mixed and precast concrete, asphalt and cement-related materials and a range of building products including concrete pipes, concrete pavers, tiles and clay bricks.

The Theale site consists of reception sidings and a distribution depot, which accepts materials from Hanson's rail-linked quarry in Somerset and its materials handling facility at Dagenham in Essex. The site specifically provides marine-dredged sand via Dagenham for the ready-mixed concrete plant at Theale, and limestone from Somerset for asphalt manufacture.

The products are transported by Mendip Rail, a joint venture freight business owned by Hanson and Aggregate Industries. Previously loads were weighed prior to dispatch from the supplying quarry or depot by a dynamic rail weighing system that had not been calibrated for a considerable time.

This was a major concern for Hanson Aggregates, not only for monitoring import tonnages, but also more importantly for compliance within Heath and Safety and Ministry of Transport legislation.

Precia-Molen was subsequently approached by the Hanson management team and tasked to supply a cost effective, accurate and reliable solution to record and monitor tonnage imports via rail.

Offering a tailored solution Precia-Molen replaced a single belt idler station with a dual load cell FX belt weigher that could handle the vast throughput of aggregates at speed. Initially estimated at 450 tph the throughput tonnage rose to 900 tph after installation.

The solution involved recording the dimensions of the idler rollers along with the speed and distance between each idler station prior to the FX belt weigher being shipped to site.

The Precia-Molen FX scale is unique in its ability to view the current speed of the belt, which is an essential vital element when there is only a fixed period window to discharge, as the belt speed can be increased to suit the flow of products. Other systems currently available can only work on a fixed speed belt and actual tonnage throughput cannot be viewed until after the event.

The FX scale was connected to a ROL 460 weight/speed indicator that contains a number of unique features including speed, tonnages passed over the structure, global tonnage review and trends for throughput monitoring.

On completing the very simple installation and set-up, a static calibration was carried out alongside a dynamic check against speed and weight with a difference of 120kg recorded on an 1800kg load (in favour of the recipient).

The installation of the FX scale has now eliminated the process inaccuracies and provided a highly accurate and compliant instrument that is an essential tool for Hanson in the processing of the bulk commodities.

www.hub-4.com/directory/683

Going underground

Cleveland Potash has recently installed a Skako Comessa heavy duty vibrating feeder to handle mined potash & salt deposits at 600-900 tph with variable feed control.

This is the third feeder Skako has supplied, with the first installed in 2002 and the second installed a year later. Since initial installation the three feeders have processed in excess of ten million tonnes.

Cleveland Potash is part of ICL Fertilizers, one of the world's leading suppliers of potash and salt products for agricultural and industrial applications. The potash is generally used as a plant fertiliser, and the salt is used to de-ice our winter roads.

The mining operation is located on the coast near Saltburn, Cleveland, and is one of the deepest in Europe. With tunnels located almost one mile underground and stretching for approximately six miles inland and seven miles under the sea the geological and operational environment for machinery is extremely challenging.

Cleveland Potash required a robust, low maintenance unit with simple operating and control requirements. The Skako unit was selected and since the first feeder was installed six years ago, their continued trouble free performance has matched high expectations.

Each feeder was custom designed to fit the existing transfer point, with a tray size 1.6 m wide x 4.5 m long requiring only the minimum of structural and fabrication alterations. The main feature of the heavy duty feeder is its robustness coupled with low and easy maintenance requirements. It has a stress free construction, whereby all fabricated members are compression fitted and hydraulically bolted together, thus eliminating any weld stresses. The main cross members supporting the replaceable landing-deck wear plates are designed as standard to allow for material to be vertically fed from a 5 metre height, with special rubber supports absorbing the shock loadings.

During the last six years of continuous and trouble-free feeder operation, the only significant replacement parts have been normal wearing consumable items, such as the 20 mm thick hardened steel trough liner plates.

Tommy Theaker, mine services engineer, says: *"I am very happy with the performance and the reliability of the Skako feeders. From the very first start-up each feeder has run as expected."*

www.hub-4.com/directory/778

Day Group's Tolworth site bags its own rail aggregate discharge system

Twin bagging lines installed in the spring served by a rail discharge system are helping Day Group achieve growth in the bagged aggregates sector, reports. Ross Matthews.

The market for bagged aggregate is being affected by the current economic situation according to day Group. However, many builders' merchants, driven by the demands of their customers, have significantly increased their stocks of bagged compared to loose aggregates. In addition, the current cost of road haulage combined with the continually growing problems of traffic congestion, means transporting aggregates for bagging from quarries wherever possible by rail makes good economic sense, particularly if the discharge method is efficient.

Hub-4's first ever issue featured the new rail discharge system at Day Group's, site in the south London commuter town of Purley. The supplier of primary and recycled aggregates for the construction and landscaping industry used the experience it gained from that site when installing a similar system in Tolworth in south west London during the spring of 2008,. The Tolworth site was established about ten years ago as a strategic fit between its sites at Purley and Brentford to provide comprehensive coverage of the south east region. Ten people at Tolworth, a figure likely to increase to 14 to handle new business, keep the site operating between 7am to 5pm on weekdays and just to 1pm on Saturday.

In addition to serving the neighbouring London Concrete plant with bulk aggregates, the Tolworth site sends out bagged aggregates from the bagging plant installed during the summer of 2007. Day gained an increased share of the bagging market as well as in bulk haulage for the builders' merchant trade when it bought CJ Burgess in 2005. It saw an opportunity to add value to Tolworth by providing bagging from the site and subsequently secured a significant contract with building product supplier Wolseley UK.

The bagging plant started producing in July 2007 and now also supplies several independents. Thanks particularly to important recent bagging contracts, Tolworth will be increasing the 70,000 tonnes of bagged aggregate it supplied in its first year. "We expect to be heading towards between 150,000-175,000 tonnes even in the current climate," says Michael Woodward, project manager for Day Group at Tolworth.

Having a more efficient means of receiving and unloading aggregate to facilitate this kind of throughput became an imperative for Tolworth, which was originally operating simply as a railhead where the aggregates were grab discharged from the wagons. So, the Rail Discharge System was built using DUO Manufacturing (LJH) as main contractor. ▶

Day ran the first train through the Rail Discharge System in the Tolworth Aggregate Depot during the first week of April 2008. Since then there has been an average of three trains a week delivering aggregate from Foster Yeoman's Torr Works quarry in Somerset and Bretts at Cliffe in Kent. With the anticipated increase in volumes, there will be up to five trains a week arriving at the depot.

"The Rail Discharge System gives us an efficient and environmentally convenient means of delivering aggregates and also provides a significant advantage in terms of serving our markets," says Michael.

Essentially similar to the systems operated at Day's other sites, the system has a number of differences to meet Tolworth's requirements. Located at the bottom of the Tolworth site - and adjacent to Tolworth mainline station - the Aggregate Depot itself is built on a slightly lower level to the rest of the yard and is smaller than the depot in Purley due to the space restrictions.

The discharge system is housed in composite clad building providing noise attenuation, which, at 8 m, is long enough to hold a wagon while it discharges.

Whereas the Purley system has two large hoppers beneath the discharge point from which two conveyors feed onto the main conveyor, at Tolworth the aggregate discharge drops onto a 1800 mm wide conveyor, which in turn drops onto a 1400 mm wide incline conveyor angled at 18.5 degrees and is equipped with a belt weigher.

Material is fed by this conveyor up to the main tripper conveyor (1400 mm wide) that travels along the top of the walls of the concrete stockpiling bays lined along the yard and then when the required bay for the aggregate is reached it transfers onto the carriage mounted cross conveyor (1400 mm wide), which deposits the aggregates in the bay. The conveyor feeds to both sides of the tripper and is counterweighted to balance the load on the tripper rails. Ultrasonic level sensors and a back up deflection probe prevents bays being overfilled.

Unlike Purley, there was not sufficient space to install a ground hopper with a conveyor feeding from it because with the height difference between the depot and the yard, the ground hoppers would have been at a very deep level, presenting too steep an angle for the conveyor to deliver to the main conveyor over the stockpile bays.

Although contrary to Purley, the Tolworth discharge system's design means that the conveyor system is not kept loaded whilst the train shunts between wagons, the time difference is not significant: the system still only takes about 1 hour 15 mins to discharge a whole 18 wagon train and requires just one person to operate.

"The system capacity is actually 1400 tph but, with shunting time, discharge is approximately 1200 tph," says Michael, adding: *"This solution not only fits the space restrictions at Tolworth but with fewer conveyors and equipment to maintain it is a more cost effective solution."*

From the computer control panel inside the building the operators can see the entire system operation on the graphical interface, including the bays for each of the aggregates: marine sharp washed sand; 10 and 20mm shingle; scalpings; type 1 limestone; 20 mm ballast and 4/20 limestone

Like the Purley site, although in a different configuration, Day can blend recycled aggregates from a refeed hopper with the primary aggregates being discharged.

"Depending on what we are discharging from the train and customer specific requirements we might want to blend recycled sharp sand, recycled glass sand or recycled sub-base material from our C&D plants," says Michael.

The recycled aggregates from the re-feed hopper can be introduced in blend ratios of between 5 and 40% using the control interface's main menu. The blending process is very efficient as the materials are mixed in three places along the aggregates journey from train to stockpile – first as it is being discharged, then at the transfer point onto the cross conveyor and finally when it comes off the end of the cross conveyor into the stockpile.

All in all the Rail Discharge System certainly fits Day's philosophy of using automation and environmental consideration.

"Another environmental benefit of the system is that from outside, you cannot hear the discharge from the trains, whereas previously, when grab discharging the operation was clearly audible." The depot is also extremely clean and orderly. *"We like to keep it that way."*

The bagging plant

Aggregate from the stockpiles in the yard at Tolworth is taken by shovel loaders to two bulk hoppers that serve the London Concrete plant and Day's four bagging lines - two bulk bag and two 25kg bag lines.

Staff inside the bagging plant will notify the shovel operator the type of aggregate that they need to bag allowing the operator to go to the bay holding the required aggregates and take the necessary amount to the bagging plant feed hopper. A digital display board informs shovel operators of the level of material in each of the four hoppers that supply each of the bagging lines installed in the spring of 2008 by Webster Griffin.

In terms of tonnages bagged in the plant – approximately 30% is sharp sand, 30% ballast and 30% soft sand. The other 10% made up with shingles and sub base.

One of the 25 kg bagging lines is a semi-automatic line where the operator mounts a pre-formed bag on the machine, which then fills and seals the bag before sending it via a roller conveyor to a robot for palletising. This semi-automatic machine fills nine 25 kg bags a minute.

The second 25 kg line employs a fully automatic *"form, fill and seal"* bagging machine, which can also print a description of the contents on the bag. A roll of film is fed through a series of rollers and automatically centres itself on the forming tube and the length of bag is then filled with aggregate. Day holds rolls of film with customer's print on it as well as plain film – the automated machine has three printing heads that can print on the bag's sides as well as front so when bags are palletised and stacked the contents can be easily identified. The machine then seals the top of lower bag and bottom of the filled bag and sends the filled bag on a roller conveyor to this line's own robot.

Why are the lines not both fully automatic? Well, the semi-automated bagging machine gives Day's bagging operation flexibility. *"It's not economic to buy large amounts of film for independent builders' merchants so we need the flexibility to bag for either a large client or the smaller independents."*

The two 25 kg bagging lines each have their own palletising robot. Originally just one robot was used then a second was bought to handle additional capacity. However using one robot meant it had to turn 180 degrees pick up a bag from the each of the two roller conveyors - one from the semi-automated bagging machine, the other from the automated unit - and stack it on the pallet. Adding the second robot to work in tandem means each robot now only needs turn 90 degrees and this speeds up the process considerably. Having two robots also helps keep operations moving if one requires maintenance.

It takes just 2.5 minutes in total for the automated line, and 5 minutes for the semi-automated line, to stack the fifty 25 kg bags on a pallet.

"The quality of stacking is very good," says Michael. *"We spent a lot of time getting that right so that we don't need to shrink wrap. The bags have a non-slip layer on the outside to create resistance when they sit on top of each other. This keeps the stack stable."*

Day is currently increasing its 1000 tonnes a week bagging plant throughput to 2000 tonnes a week and with the hope of additional business, it will increase this still further. This will close in on the system's current capacity so further investment may be required in the future if demand increases.

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The Best Show For Networking Business and Family

Mogensen delivers its 100th vibratory feeder

A supplier of vibratory feeders to the Micronizing Company UK for 20 years, Mogensen Raw Materials Handling has recently delivered its 100th machine to the company.

Micronizing was founded in 1971 by David Newton, the father of today's managing director, following upon his successful development of the concept of cooking cereals and other food grains by means of infra-red radiant energy. The idea of using infra-red energy in this way was not in itself new but the concept was revolutionised in practice by the use of a gas-fired ceramic panel as the infra-red heat source. The company's name is derived from the wavelength of the infra-red energy employed in the process, 1.8 – 3.4 microns. This energy form is extremely efficient at generating heat within suitably absorbent materials and works by causing constituent molecules to vibrate at frequencies in the range 80 – 170 megacycles per second. A surface temperature of 100°C is achieved in less than 45 seconds, and complete cooking takes place in the case of many food grains within 60 seconds. The process has the advantage of converting starches into more easily digestible forms of sugar without either damaging the proteins or significantly reducing the moisture content of the foodstuff. The result is that the nutritional value and flavour are enhanced to a greater degree than is achieved by other cooking processes.

Micronizing has supplied complete plants in over 45 different countries for processing cereals, pulses and oil seeds, including soya and cocoa beans, used in both animal feeds and consumer food products. Throughput capacities range from laboratory volumes up to 8 tph.

Mogensen supplied a range of vibratory feeder models with capacities up to 8000 kg/hr. The feeder is installed below the radiant energy source and ensures, by virtue of the its throwing action, that the food products are evenly cooked, ie, that the whole of the surface of each grain is gradually exposed to the infra-red heat, and that the products remain within the process long enough to achieve the desired degree of cooking but not long enough to incur an undesirable loss of moisture. The feeder drive frame is constructed of mild steel, whereas the conveying tray is of food quality stainless. The underside of the tray is thermally insulated to reduce heat transfer to the drive unit. The insulation also provides the benefit of some reduction in noise levels. All Mogensen feeders are powered by Invicta rotary electric vibrators coupled with inverters and variable speed controls.

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REMA TIP TOP INDUSTRY UK Limited
ONE NAME – ONE SOURCE – ONE SYSTEM

The Company

In January and April 2008 respectively, REMA TIP TOP INDUSTRY UK Limited made the significant acquisition of mill lining technicians 'WearTech Ltd' and conveyor belt specialists 'Ace Conveyor Equipment Ltd'. The deals signalled a major landmark for REMA TIP TOP INDUSTRY which has grown rapidly over the last two years. The company, post acquisition now employs over two hundred people, across head office sites in Leeds and Doncaster and throughout the multiple service depots and warehousing facilities based in all of the home nations including Ireland.

The additional technical expertise, customer base and sheer geographical network of the company now clearly enables the business to reach a different level within the domestic market. The span of the company is far greater than this however, as those who know the REMA TIP TOP organisation will recognise its global status through its international subsidiary companies, agencies and alliance partners in more than 170 countries. REMA TIP TOP and ultimately REMA TIP TOP GmBH is an organisation that forms a significant part of the Stahlgruber Group of companies with its headquarters based in Poing (Munich), Germany.

REMA TIP TOP INDUSTRY provides specialist expertise and the highest quality products for Wear Protection, Corrosion Protection and Conveyor Maintenance with each of these services being controlled by a dedicated team of industry professionals. As a total solution provider the company actively develops engineered solutions for mining and quarrying, materials handling, mineral processing and general industries.

Conveyor Maintenance

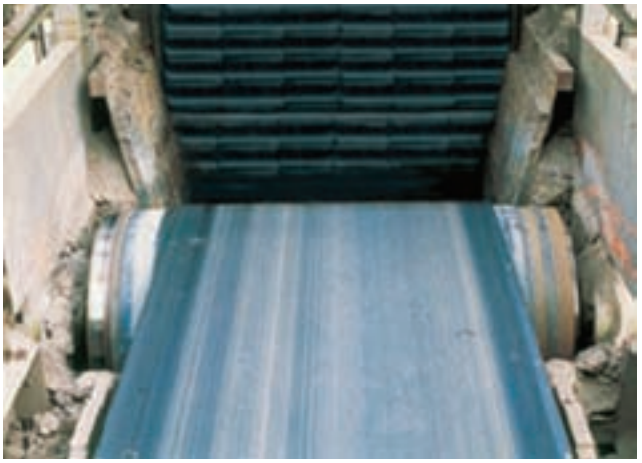
The team based at the 'REMA TIP TOP INDUSTRY UK' head office in Harworth, Doncaster - manage all aspects of conveyor maintenance. This ranges from the design, manufacture and installation of large conveyor projects to fully fledged maintenance contracts. In addition the supply of quality 'Belt' is complimented by pioneering innovation in the design and manufacture of conveyor accessories and vulcanising equipment. The superb Ace Sureflex Conveyor Belt and Spillage Control equipment developed by REMA TIP TOP INDUSTRY is one such example, and furthermore it is completely supported by a Total Conveyor Maintenance service which both enables improved plant reliability and fundamental reduction of operational costs.

The product range includes:

REMAGRIP pulley laggings and REMASLEEVE idler sleeves for all kind of applications

REMACLEAN belt cleaning systems and scrapers

REMASKIRT skirting and sealing systems for belt conveyors



Other leading products include hot and cold repair materials, hot and cold splicing products and vulcanising and bonding systems.

REMA TIP TOP INDUSTRY recognise that the future of conveyor maintenance management relies on ever more structured service level agreements. As a company it has set out a straightforward format to describe the concepts of available levels of service in further detail. This comprehensive bank of information is used as a template when setting up specific contracts to ensure that all issues are covered and that customer expectations can be achieved and indeed exceeded.

The REMA TIP TOP INDUSTRY service engineers have gained a significant number of years experience working with belt conveyors, and several of the industry's leading specialists in conveyor engineering, belt technology and conveyor design are employed within the company. Many customers have come to rely on this level of expertise and welcome the regular inspection services scheduled through a contract or programme to assess the condition of conveyor components and avoid potential breakdowns. Many of these assignments are scheduled to coincide with shutdown periods.

The service is available as a full technical survey, where detailed information about each component is captured and documented for future reference. This information is held on the database with a copy for the customer to refer to when components require changing or upgrading. Alongside this a detailed condition survey is conducted to assess the serviceability of each component, and issue a comprehensive report illustrating recommendations for action. A full conveyor safety review is also available that highlights any issues that may need future attention.

Training

REMA TIP TOP INDUSTRY provides training services founded on a quality ethos and over thirty years of experience.

A comprehensive range of training solutions are offered enabling customers to develop and train all their personnel, giving them the skills, knowledge and competence to take its business forward.

Training courses are designed specifically to assist managers in pursuit of developing their workforce competence to ensure they meet success in fulfilling "HSC Quarry Regulations 1999 - Regulation 9 Training & Competence". The aim of the professional trainers within the organisation is to use a combination of virtual presentations and first hand experience to inspire and engage learners in competency assessed safety training. Training which ensures workers can continuously improve their safety performance to achieve the levels of competence required to meet all of a companies safety targets.

All of the safety training courses are based on National Occupational and British Standards, NVQ Standards and Industry Codes of Best Practice. Practical overviews are provided to the standards and support delegates as they learn to implement them in the workplace. ▶

Service 24/7

Service is the cornerstone of everything behind the operation at REMA TIP TOP INDUSTRY. The company believes that from the very beginning, customer expectations have been achieved by the delivery of reliable and efficient site services to minimise plant downtime and keep plant and specifically 'conveyors' running efficiently. A specialist 24 hour call out service pioneered by the company also means that assistance and backup is available 365 days a year when the unpredictable or worst happens.

The company's strict emphasis on first class service is absolutely guaranteed – and this is maintained by constant review of training/application methods and monitoring customer requirements – As industry changes it is necessary that the service business constantly under-goes review to enable the company to adapt to the ever changing needs and requirements of the customer. The drivers for this change are numerous - New legislation is introduced continuously, Client companies are using technology and sharing best practice to increase plant efficiency and our social culture is changing together with corporate responsibilities to the environment and personnel. As the market leader in conveyor and associated plant services, these changes are fully embraced through a steady shift from straightforward reactive service to a considered, planned approach to a proactive maintenance regime.

REMA TIP TOP INDUSTRY are now the UK's only national provider of conveyor services and it has built and acquired an unrivalled network of service depots across the UK. Furthermore, it has established service subsidiaries and partners throughout Europe, USA, Africa and the Far East.

Wear Protection

Everywhere where raw materials, aggregates, semi-finished products and waste are conveyed and processed, wear, caking, impact and abrasion cause damage to unprotected plant components. REMA TIP TOP INDUSTRY ensures, through its products and extensive know-how, that such valuable heavy-duty equipment continues to work correctly, and significantly increase the service life of equipment. REMA TIP TOP INDUSTRY offers a comprehensive range of materials for a wide range of different applications:

REMALINE rubber linings

REMAMILL components made of special rubber - Mill linings

HDL Plates heavy duty rubber (Truck Body Linings)

REMASCREEN Screen media

REMALOX ceramic linings with rubber base

REMATHAN polyurethane linings with rubber base

REMAFLON polytetraflourethylene linings with rubber base

REMALEN polyethylene linings with rubber base

REMAPIPE rubber tubes for pipe linings

REMASTEEL rubber plates with metal backing

Moulded products made of special rubber

Corrosion Protection

REMA TIP TOP INDUSTRY utilises its extensive experience and long-term laboratory tests to select the right materials for every kind of operating conditions, in order to make the respective protection system fully effective. The corrosion protection systems made of both rubber and chemical based epoxy have been used successfully all around the world for many years. In the recent past, effective development has been undertaken which has resulted in the of production on a comprehensive range of quality coating systems. The product range includes:

CHEMOLINE soft rubber linings

CHEMONIT hard rubber linings

REMACOAT single and two component polyurethane coatings

COROFLAKE vinylester coatings

TIP TOP LINING polyester coatings

TOPLINE epoxide coating

Bonding Systems and Specialist Tools

To compliment the vast range of materials that REMA TIP TOP provide, the company is also reputed for its superb range of TIP TOP manufactured bonding systems and specialist tools. REMA TIP TOP INDUSTRY bonding systems have proven to be first class in every different climate in the world together with the appropriate hardeners, primers and solutions. They have also been approved for use underground and fulfil the most stringent requirements set by the health and safety authorities. REMA TIP TOP INDUSTRY also offers environment-friendly CFC-free bonding systems for bonding rubber to rubber, rubber to fabric, fabric to fabric and rubber to metal.

REMA TIP TOP INDUSTRY also has a complete range of tools, not just for conveyor belt splices and repairs but also for the processing of REMA TIP TOP INDUSTRY products for corrosion and wear protection.

For further information related to this article please contact Simon Drohan or Don Marshall at REMA TIP TOP INDUSTRY UK Limited on 0870 143 1600.

Alternatively you can write to:

REMA TIP TOP INDUSTRY UK Limited

Plumtree Industrial Estate

Harworth, Doncaster, DN11 8EW

www.hub-4.com/directory/16

Mobile Equipment Product News

Powerscreen Powershredder reduce's landfill costs

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BG Europa supplies mobile pulse jet fabric filter to Swaziland

As a family owned business BG Europa (UK) Ltd (BGE) provide their customers with quality equipment, offering low operational costs and long life expectancy at competitive prices. The importance placed on in house engineering expertise allows BGE to bespoke all equipment to exactly match customers requirements.

Recently BGE has supplied a SF4 - four module mobile pulse jet fabric filter to AG Thomas PTY of Manzini, Swaziland. This unit will operate with their CEI Nomad plant and initially be used for a road project in Botswana.

When compared to reverse air filters SF Pulsejet Fabric Filters offer both performance advantages and the prospect of greater life. The design of the SF series pulsejet fabric filter allows larger areas of filtering cloth to be installed when compared with a reverse air type filter of the same dimensions.

The pulsejet fabric filter performs bag cleaning whilst the bags are on line, therefore all the cloth area is available for filtration at all times in comparison to the reverse air filter which shuts off up to 10% of the cloth area at any time to perform bag cleaning.

Pulsejet bag cleaning also allows heavier more efficient filter cloth to be used, 500g/mÇ compared to 400g/mÇ normally used in reverse air type fabric filters.

Additionally, the pulsejet bag cleaning process does not introduce large quantities of cold damp atmospheric air into the baghouse which cools collected air, often requiring reverse air type filters to be insulated and resulting in accelerated internal corrosion and bag blinding.

The BG Europa SF filter uses a pulse of compressed air to generate a shock wave which cleans the filter bag. The compressed air manifold is housed and protected within the filter body; it can be easily accessed from the filter top by removal of full-length lift off covers. The pulse control solenoid valves, which precisely distribute air through the cleaning cycle, are fitted to the top of the manifold for ease of maintenance.

An electronic pulse controller is installed within a dust tight enclosure mounted at the filter top to allow fine adjustment of cleaning pulse duration and frequency. Bag cleaning is controlled by a differential pressure monitor which initiates cleaning only when required to suit operating conditions. Ensuring operating and energy efficiency are key factors incorporated into the design of the SF filter series.

The unit supplied to AG Thomas PTY is fitted with a dummy module and diffuser to control air intake and protect bags from impact damage by large dust particles. The diffuser reduces air speed upon entry into the dummy module causing larger dust particles to be removed from the air stream. The air is evenly diffused across the fabric filter ensure optimum cleaning efficiency.

Fabricated from 5mm mild steel plate the filter top section houses 270 Nomex type (500 g/m^2) filter bags. The bags have snap ring collars securing them into the 5mm thick plenum plate providing an air tight seal. The 270 bag cages are zinc coated to offer extended life and incorporate an integral venture for improved cleaning efficiency.

Both the bags and cages are factory installed to provide a total cloth area of 243m^2.

Accessed by the rear mounted ladder the filter top is enclosed by handrails which fold to reduce transport height. Access to the bags and cages is provided through full width easily removed top covers.

A Compair V11 rotary vane compressor installed on the chassis provides cleaning air via a 1m^3 air receiver. The fines collecting hopper fabricated from 5mm steel houses the triple collecting screws and single cross discharge screw. Each is driven by 3.0 kW bevel helical gear unit offering high output efficiency and operating torque.

Remotely operated by a linear actuator the damper assembly is installed within the baghouse clean air exhaust ducting to allow control of the air available to the drying drum. The backward laminar exhaust fan is driven by a 45 kW electric motor and provides 19000 cfm (12 ins WG @ 20ºC) when running at 1590 rpm.

Offering a completely mobile solution the exhaust stack is of a hinged design for transport and is fabricated from 5mm thick mild steel. The filter unit is mounted within a heavy duty steel chassis with fifth wheel coupling and landing legs for quick truck release and has a travelling width of 3.5m, total length of 10.3m and a travelling height of 4.3m. Running gear comprises a single axle with twin 11R x 22.50 tyres ensuring towing stability, a pneumatic two line braking system with universal couplings and anti-lock function.

Airbag suspension completes the specification ensuring smooth passage and aids site installation by allowing the unit to be settled onto the jacklegs. Each leg is supplied with a large footpad which is transported on the chassis. The footpads allow the unit to be sited on level compacted ground omitting the requirement for concrete foundations and making the filter suitable for operation in remote locations.

Further Information:
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Email: sales@bgeuropa.co.uk
Web: www.bgeuropa.co.uk

www.hub-4.com/directory/114

Case secures £1m wheeled loader deal

Case has just completed a £1m deal for eight wheeled loaders through its north-west of England dealer Dennis Barnfield's which have been delivered to Lancashire plant hirer Ruttle Plant Hire.

The deal covers seven 213hp 821E models with a lift capacity of 9,164kg and one 183hp 721E machine with a lift capacity of 6,823kg. The new loaders have been put to work straightaway by Ruttle on a long term contract supplying both the machines and full service backup to a local waste recycling company.

The machines will be used throughout Merseyside and West Lancashire to sort through domestic waste brought in by bin lorries. Once sorted into material that can and can't be recycled, the loaders then transfer the remaining waste into high sided articulated lorries to be taken to landfill sites in Wales.

Not only does this sorting remove the inefficient use of local bin lorries to make the longer journey themselves, it also dictated the nature of the machines required to do the job. "The lorries are as high as can go on the roads which means they have 16 foot high sides," explained company director Gareth Ruttle.

As a result, the eight new machines have all been fitted with long reach, high tip arms to allow them to load into the lorries. At the same time, the high volume, low density material that is handled has required the provision of large buckets – 4.5m^3 or 5m^3.

The harsh working environment and the intensity of the work undertaken – the machines can be used on a 24 hour basis – have generated other specific requirements. The specification of the new machines includes solid-filled tyres, all-over body protection, window grilles, a hydraulic quick hitch to fit standard

buckets if required and an upgraded air filter. The machines also feature a reversing camera and radar system, as well as a variable audio reversing beacon, that adjusts the volume of its warning siren according to ambient noise levels.

All eight machines were supplied by Carnforth-based Barnfield's, and it was Barnfield's that fitted the machines' rear guard frames. "We fitted them in such a way that they protected the machine but could be opened for access to the engine for servicing and maintenance and could be unbolted once the contract is completed so they're easier to sell on," said sales director Malcolm Mackay.

The whole process from confirming the contract-hire deal to the provision of machines on site took only 12 weeks. The tight timetable has not been a barrier to success, however. "Touch wood, we've had very few problems so far. The customer previously ran Volvo's and JCB but the operators like the Case machines a lot more," said Ruttle.

In fact, the company is now looking to expand its contract hire operation, especially into the waste sector. "You can spend £2m on kit for plant hire now and have it sitting in your yard in a month's time. Contract hire is guaranteed work so you can calculate your revenues with more certainty," he added.

For information:Ruttle Plant Ltd T: 01257 266511sales@ruttle.co.uk

www.hub-4.com/directory/2130

Powerscreen Pegson Equipment team up with Arthur's Skips

Powerscreen Pegson Equipment Ltd based in Alfreton, Derbyshire are pleased to team up with Arthur's Skips in helping the environment. Arthur Skips from Sheffield have recently purchased a Powerscreen Powershredder 1800 and are making sure that less waste goes to landfill and knew it was time to make savings on there landfill tip charges.

When James Hartley the Managing Director of Arthur's Skips had seen the Powerscreen Powershredder 1800 working and seen what as coming out at the final process from his picking station, he called it a "no brainer" and that the "Powershredder would save £1000's on tipping fees". James then went on to say "Due to a successful year in 2008 we decided to invest heavily in new equipment and after plenty of shopping around came to the decision that Powerscreen Pegson Equipment Ltd was the company to work with".

Since putting in the waste recycling system, MD'S Arthur and James Hartley are both very happy with there company's recent purchase of the Powerscreen Powershredder 1800 and wish they had have purchased it sooner.

Arthur Skips are based at Needsend Lane in Sheffield which is only 2 miles from the city centre and are the leading recycling specialist in the South Yorkshire area.

They operate a large fleet of skip and roll-on-off vehicles and have over 1500 skips ranging from 4 – 40 tons.

With the Powerscreen Powershredder 1800 now working, it compliments well with the Powerscreen Trommel and 4 Bay picking station which makes sure Arthur Skips now recycles up to 95% of their waste.

The Powershredder 1800 features a number of different tools and shaft configurations for the efficient and high volume reduction of household, industrial, building and green waste, timber, plastics and logging/sawmill waste. Producing a consistent and uniform material sizing, the machine has a low dust and noise emission levels and has a small "footprint" for its high throughput - and the crawler undercarriage makes it highly mobile and agile on site.

Automatic and fixed reverse shafts have low wear-and-tear, a long shredding life and low maintenance, produce optimum processing of the widest possible range of materials. A generously proportioned low feed-in tipping hopper allows the shredder to be fed by conveyor, excavator and grab or loading shovel.

The Powershredder is also fitted with an overband magnet on the discharge conveyor which pulls out all the metal.

Completing the specification is a hydraulically folding 1400mm wide discharge conveyor with chevron belting with a height of 4 metres for good stockpiling capacity. Material off this conveyor is loaded directly into tippers or direct feed into a secondary separating processor such as the Powerscreen Trommel also running at Arthur Skips.

The Powerscreen Powershredder is definitely the way forward to reduce landfill costs, which can only be good for the environment.

Powerscreen Pegson Equipment Ltd 01773 608288

www.powerscreenpegson.com

Arthur's Skips :0114 2762425

www.arthursskips.co.uk

www.hub-4.com/directory/2893

New Machine Updates from Tesab

New for 2009 will be an upgrade on the 10570 Jaw crusher. Increased clearance under the Jaw will give that all important output and eliminate costly downtime on demolition jobs. Also a hydraulically adjustable lower/raise product conveyor will allow for fine adjustment whatever the application. Combined with dirt conveyor, hydraulic release, hydraulic adjust, speed sensors and jaw overfill eye as standard make the Tesab 700 jaw the complete package for quarry and demolition work.

Also Tesab continue to add to the options we offer which in turn give added value to the customer. Now available is a recirculating conveyor option on the popular 623 model of impact crusher. The 1012T impactor is also offered now with the option of a pre-screen. Tesab continue to offer the customisation of its range to suit individual requirements.

We can also offer our full range of mobile impact crushers in an electric version. This provides a cost effective solution to clients with spare capacity on an existing power plant. It is also worth consideration not least for its economical performance but also for its zero noise pollution and low maintenance.

Tesab Engineering Ltd T: 028 82 252781
sales@tesab.com www.tesab.com

www.hub-4.com/directory/819

MQ ROCK BUSTERS

McQuaid Engineering Ltd has over 10 years experience in the design and manufacture of their range of MQ attachments for the mining, quarrying, recycling and construction industries.

Their main product is their range of internationally renowned hydraulic Rock Breaker Boom Systems, designed to fit ALL makes and models of mobile crusher as well as all types of primary crusher for the purpose of eliminating blockage/bridging problems on the crusher.

The MQ Mobile Boom range consists of 8 models with horizontal reach of 1.9m to 5.4m, catering for a large variety of different sizes of mobile crusher and mounting conditions. Also as a general rule the boom systems are powered by the mobile crushers own hydraulic system, therefore eliminating the need in most cases for a separate power supply.

By design the boom systems are built to withstand the destructive nature of their intended application and are therefore manufactured with the use of components that exceed design requirements therefore ensuring the boom a long service life and minimum maintenance requirements

Their experienced design engineers provide compact mounting solutions enabling the dimensions of the mobile boom to remain on the crusher during transport thus eliminating down-time on site for assembly and disassembly. To date their mobile booms have been successfully installed onto a wide range of mobile crushers worldwide including Kleemann, Terex-Finlay, Terex-Pegson, Extec, Metso/Nordberg, Fintec, Hartl-Crushtek, Hartl-Powercrusher, Parker, Tesab, Gipo and Continentail Nord and they are the preferred suppliers to mobile crusher manufacturers such as Kleemann, Terex-Finlay and Terex-Pegson.

The range of pedestal booms have also been installed by industry leading quarry firms such as Tarmac, Climax, Lafarge, Aggregate Industries, CEMEX etc.

A comprehensive After Sales Support Service is provided for all customers worldwide. Their dedicated customer service engineers can provide technical advice and solutions to problems, partnered with fast and efficient spare parts delivery.

They also offer a range of attachments for the recycling, rail and construction industries which include a range of excavator mounted Demolition, Scrap, Rail and Waste Handling grabs and a range of Mechanical & Hydraulic Block grabs.

For further information please contact McQuaid Engineering Ltd Tel: +44 (0)28877 49869 Email: info@mcquaidengineering or you can visit www.mcquaidengineering.com

www.hub-4.com/directory/2369

Local Company Provide Mixing Solution for Roller Compacted Concrete in Mexico

Rapid International Ltd, based in N. Ireland, have provided CEMEX with a solution for mixing vast amounts of Roller Compacted Concrete (RCC) at a dam which they are building close to Uruapan, Mexico. This solution comes in the form of their newest mobile unit, the Rapidmix 600 C, which allows them to mix up to 600 tonnes of concrete per hour.

CEMEX, one of the world's leading concrete suppliers, is increasingly utilising this cost effective and durable concrete which is also becoming more common in the construction of dams and paving in recent years.

RCC has the same properties as conventional concrete: cement; water; and aggregates. However, it is a drier mix and is compacted by vibratory rollers. It has the strength and performance of regular concrete yet it is as economical and as simple to use as asphalt.

Becoming more popular in the UK due to its cost-effective and durable benefits, RCC is being used for, ports, bulk material storage, car parks and access roads. Labour costs are cut as the method of construction is a lot quicker and it requires no forms, finishing or surface texturing.

At the Mexican dam, using the plant's efficient hydraulic system, the Rapidmix 600 C was easily transformed from travel mode to a fully operational plant within hours.

The continuous mobile plant is capable of mixing up to 600 tonnes of concrete per hour. This is achieved through the mixing plant's adjustable feed rates for the aggregate, cement and water systems. The control panel on the Rapidmix 600^{0}C incorporates the most up-to-date technology, allowing the operator to store, edit and retrieve up to 30 recipes for the proportioning of different materials.

Once the mixing is complete through the in-built, twin shaft pugmill mixer, it is transported by the outloading conveyor onto a conveyor system which delivers the material to the dam. Material is then levelled and rolled.

Compaction begins immediately after placement which is how the concrete attains its level of smoothness, density, surface texture and strength. This stage continues until the density requirements are met. The final stage is curing where moisture is applied, allowing hydration of the concrete, thus causing it to harden and strengthen.

The Rapidmix 600 C is suitable for many different projects including, environmental soil contamination applications, soil stabilisation, mine back fill, bentonite land fill sealing, and road sub base. The Rapidmix has also been used in numerous mixing applications in the United States and Canada.

The Rapid International design team is constantly engaged in research and development work to improve and extend the company's diverse range of products including Planetary Mixers, Pan Mixers and the Rapid Jetwash System. They pride themselves on their Pan and Planetary Mixer range, constantly striving to develop and improve these standard products.

For further information on Rapid International products and the Rapidmix 600 C visit our website www.rapidinternational.com or please do not hesitate to contact us by post, e-mail, telephone or fax. E: info@rapidinternational.com
T: +44 (0) 2838840671

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info@rapidinternational.com - www.rapidinternational.com

RAPID
INTERNATIONAL LTD

Smulders Waste Technology - Mobile Picking Stations

Smulders Waste Technology b.v can offer two versions of their Mobile Picking Stations, 2 and 3 bay units are available for sale or hire.

SWT Mobile Picking Stations have been designed to be easily set-up and operational, providing an efficient platform to enable the safe separation of products from within your waste stream.

A large feed hopper with Impact bars positioned underneath ensures that a variety of waste types can be handled efficiently using either a conveyor or machine feed method.

The main conveyor is 1200mm wide and driven by a variable speed hydraulic motor enabling you to control the depth of material flow past the operators. The incline section is high-sided to reduce material spillage while the horizontal section runs on a low-friction surface enabling safe removal of products by the operators.

The conveyor is driven by a diesel\hydraulic powerpack incorporating a silent-pack design to minimise the impact of noise while being operated.

Access is provided by heavy-duty retractable steps each side of the conveyor leading to solid floor walkways enabling a safe and comfortable platform for the operators to work from. Each of the picking stations comprises a drop chute with a large opening and a pull wire emergency-stop system above the conveyor belt. There is also a canvas cover stretched over a steel framework to provide protection from the weather on the picking section.

The design enables up to three 35-yard skips to be positioned underneath with the final product falling off the end of the conveyor. The Plant is supported on heavy-duty legs while in its operational position. There is the facility to incorporate an overband type magnet after the last picking station and before the discharge of the conveyor.

For further information please contact us on 07703066111 or info@wastetechnology.co.uk

www.hub-4.com/directory/2654

New player in Crushing, Screening and Recycling support.

If you operate recycling or quarrying equipment then you will be only too aware of the costs involved in maintaining your fleet in efficient order.

Buying from original manufacturers can not only be a costly option but is also no guarantee of attentive service. Additionally, buying from spurious sources is often unreliable as well as being a risk on quality.

There could be a third way-SCG.

SCG (Spares & Consumables Group) is a relatively new company offering both the price advantages of non manufacturer sourced parts and the reliability of high quality procurement.

The directors of SCG, Stephen Grieve and Paul Thorne have both worked for dealers of high profile manufacturers within the industry during their careers, as well as being heavily involved in the used equipment and hire industries.

The desire is to combine their experiences to provide a more understanding and pro-active view towards supporting customers in maintaining their processing machinery.

And things have started well: Stephen Grieve says *"We have been pleasantly surprised by the customer base we have attracted. We are dealing with a lot of high-end quarrying and recycling customers who previously would only have dealt with main dealers. These customers have given us great feed -back which seems to be based on the quality of our goods and not just our pricing"*

Small wonder when you consider that SCG has excellent relations with so many primary component manufacturers-114 which is increasing daily!

"Stephen's knowledge on the supply side allows us to service our customers' requirements well. Once we have a customer on board they tend to be very loyal. I believe it's because we don't claim to be anything we aren't and we appraise the quality of what we supply objectively" Paul Thorne.

With parts for many leading brands in stock and locations in Scotland and North Yorkshire so far, the company is also due to exhibit at Hillhead 2009.

So the next time you need a bearing or a roller or a screen mesh or even a shredder tooth maybe you can call someone new. Maybe it will be SCG.

www.hub-4.com/directory/10151

PRF Rockbreaker Boom Systems

PRF ENGINEERING was established in 1987 to design, develop and manufacture special purpose equipment, originally for the quarrying and mining industries.

One of the main products to evolve has been Rockbreaker Boom systems, *"Peckers"* for use in secondary breaking of rock in various types of crushing plants.

The problem of oversize material blocking primary crushers is very common and PRF has gained wide experience in the design of different types of Boom Systems to combat the problem.

Attention to detail and robustness of design are the essential features required to provide a unit capable of performing reliably in these very tough applications.

The philosophy has been to produce systems tailored to suit individual crushing plants, an approach designed to deliver a targeted solution to the specific problems of each installation.

This means that PRF do not offer a standard range of Booms, in terms of reach and geometry, but are able to produce customized proposals based on a brief site visit, or on general details and requirements supplied.

Boom systems are produced to suit all types of fixed and mobile crushing plants. All are equipped with 360 degree slew and joystick remote control, allowing operation from any distance using television monitor.
PRF Engineering T: 0114 235 2563
prf@sky.com

www.hub-4.com/directory/2086

Extec Screen Clears Waste Wood

A Hereford-based demolition company is utilising an Extec S-5 track mounted mobile screen to process around 100,000 tonnes of waste wood to make way for a new power station. Haywood Demolition is using the 29 tonne unit to spearhead a fast-track, 22-week site clearance contract.

Haywood Demolition is using an Extec S-5 track-mounted mobile screen to spearhead the segregation and processing of around 100,000 tonnes of waste wood for Pontrilas Timber in Hereford. Comprising some 51,000 m^3 of material and including 15,000 tonnes of concrete, the material is being cleared to make way for a new and much-needed power station, which will supply the needs of Pontrilas Timber and enable the company to sell any surplus back to the National Grid.

Site Clearance

Haywood Demolition Limited was formed in 2000 and has grown quickly. Today, the company employs 47 people and operates an impressive and young equipment fleet including excavators from 21 tonnes to the jewel in the company crown, a 68 tonne high reach machine. The company is also a long-term Extec customer and currently operates C-10 and C-12 crushers and an E-7 screen. Pontrilas Timber, meanwhile, can trace its history back to 1947. The company's operation covers a 9.7 hectare area and incorporates a pair of sawmills, two hardwood kilns and five computer-controlled softwood kilns. Together, the two companies are pooling their resources to tackle a site clearance project that will clear the way for the new power station.

The site clearance project is scheduled to last for 22 weeks and Haywood Demolition spent the first two weeks of this trialling some equipment alternatives. *"One of the key equipment challenges here is segregating wet waste,"* explains Haywood director Ian Musto. *"The material has accumulated over the past 30 years and comprises a large degree of wet and rotted wood waste and chippings but it is also mixed with concrete, metals and waste aggregates."*

Awesome Machine

According to Ian, the company had tried a number of screening alternatives, but he was immediately impressed at the Extec S-5's ability to segregate the cloying wet waste. *"Until we tried the S-5, we had nothing that would effectively separate the waste without clogging the screens. Even now we have one man on site to clean and blast down the screen decks at the work breaks, to ensure material cleanliness,"* Ian adds. *"We've enjoyed a long relationship with Extec but when they suggested the S-5 for a job that had thwarted every other machine tried, I was sceptical at first. But when I saw what it had screened after just two days, I was shocked and amazed to see how much of the waste pile it had cleared."*

Ian reports that the segregation process is now so efficient that it is now generating a series of valuable resources. *"At present, we're taking the clay and soil out of the mix, then the compost and top soil in varying grades. The remaining material can be washed for aggregate, the concrete crushed and used as sub-base and the metal reclaimed and recycled,"* Ian Musto concludes. *"The Extec S-5 has been the only machine up to the job. The double-deck screener is so effective at removing the fines that they can be used as top soil straight away. This is an awesome piece of kit and certainly one that is staying on site until the job is done"*

For further information, please contact:

Extec Screens & Crushers Ltd. Tel: +44 (0) 1283 21 21 21
E-mail: info@extec.eu Website: www.extec.eu

Fintec Crushing & Screening Ltd. Tel: +44 (0)28 8556 7799
E-mail: sales@fintec.com Website: www.fintec.com

www.hub-4.com/directory/296

Robust, Reliable, and Simple Picking Stations = Increase Business Profitability.

Recently exhibited at the RWM show last September the latest version of the 4-6 bay mobile picking station designed and manufactured by DUO Manufacturing (LJH) has attracted a lot of interest in recent months.

Recently upgraded to include hydraulically operated access steps the picking station has comprehensive mobility features for highway movement or more simple features for site movement. Robustness, reliability, and simplicity are key factors in the design of our picking belts and the basis of all company designs.

A large feed hopper, low friction impact bars, inclined conveyor section with high sided steel skirts, a horizontal picking platform with optional canvas cover and a 2.6m clearance height, all mounted on a substantial structural steel framework. Self contained Kubota low noise power pack providing hydraulic variable speed drive and hydraulically adjustable front legs.

Add to this the fundamental inherent user friendliness and safety features and you have a waste sorting system which can significantly improve the manual recovery of recyclable material from mixed dry waste, and INCREASE BUSINESS PROFITABILITY.

All materials used are of the highest quality and components have a high service factor to ensure long life if properly maintained. The machine is fully guarded to BS 7300.

Recent developments have seen the company complete a waste sorting system for Ace Liftaway Ltd at Romsey. The installation will process C & D, skip and household waste and includes a trommel screen, picking station, magnet and blower.

The company also manufacture a range of trommel screens which has recently been developed. The current range offers a 2.4 metres diameter model and is available in either 3 bay/4 bay or 6 bay. This range has now been extended to include a 3 metre diameter model.

The DUO range of trommels offer a reduction in weight being sent to landfill and incorporate excellent engineering and high dependability with very little operating cost.

DUO Manufacturing (LJH) is a division of DUO (Europe) plc which provides the Aggregate, Recycling and Material Handling Industries with a comprehensive package of complete processing solutions including specific industrial applications for; waste transfer stations, quarrying, sugar beet, metal recycling, roads, port handling and waste paper.

DUO Manufacturing (LJH) offers R&D facilities utilising the latest CAD technology enabling it to provide development facilities for other companies supplying to the mineral extraction and recycling industries. This has proved highly beneficial by improving their knowledge and efficiency, and establishing a reputation for high quality workmanship, solid rugged design, and quick delivery.

DUO Manufacturing (LJH) offer an eclectic range of services, from turnkey projects, contract manufacturing, and design services, to the supply of screening and waste sorting products.

DUO Manufacturing (LJH) Tel: 01373 836451

Email: sales@ljhgroup.co.uk

Web: www.duomanufacturing.com

www.hub-4.com/directory/513

Gipo Mobile Crushing and Screening Plant

Supplied by Aggregate Processing and Recycling Ltd of Tamworth, GIPO machines are designed for Primary, Secondary and Recycling applications.
They will process natural stone, building rubble, asphalt/pavement break-up, blast furnace slag, reinforced concrete breakup and coal.

GIPO is a market leader in processing systems. Since the first GIPO machine around 20 years ago, mobile crushing is once again gaining importance. This is mainly due to two reasons:

- The material processed previously by fixed processing plants in quarries and gravel pits, is now being done increasingly by mobile crushers. The machine is on-site when it is actually needed.
- The recycling and immediate recycling of exploded and demolished material in construction projects make mobile crushers the most efficient and economical solutions in building material management. Gravel deposits are spared; expensive storage and transportation are avoided.

As Swiss pioneer in this area, the continued development of components and machine types is a vital contribution. GIPOCOMBI is one of the newest acquisitions. The combination of crusher and screen in one machine brings space, environmental and cost advantages. GIPO plants are being used in the whole of Europe. They offer high quality components, diesel-hydraulic actuation concept and proven longevity, and we are constantly updating our machines, incorporating new technical innovations.
The GIPO range includes the following models:

GIPOREC

The GIPO range includes a high performance, heavy-duty tracked impact crusher with a range of 200 -750 tonnes per hour. The GIPO impact crushers have two impact walls and have infinitely variable adjustment of the rotor speed which simplifies the processing of the feed material. The proven fully hydraulic actuation concept enables the machine to handle reinforced concrete, asphalt, building rubble, natural stone, coal and blast furnace slag.

GIPOKOMBI

The mobile GIPO crushing and screening plant is a heavy duty, highly efficient machine of compact design, with a production range or 100 - 750tph. With a fully mobile combination there are crucial cost benefits for the purchaser, effective transportation, fuel consumption and the overall impact on the environment; this compact machine requires less space on site, and allows many classified end products to be produced simultaneously.

GIPOBAC

GIPO jaw crushers are heavy duty, compact, mobile tracked crusher units with a production range of 100-400tph. These machines are suitable for recycling building materials and crushing stone.

GIPOSCREEN

GIPO mobile tracked high capacity screens range from 3.5m/1.5m to 6.0m/1.5m 3 deck, providing multi-product production and can be used autonomously or easily combined with a crusher. They combine optimum accessibility with ease of maintenance.

GIPOGIGA

The basic models GIPOREC R 100 and GIPOREC R 131 types can be extended with a single-deck screening unit. With this upgraded impact crusher the end product can be screened off to produce a suitable end granule.
The hallmark of this new type of plant is its high degree of flexibility, whereby the basic model of the impact crusher can be extended as the customer desires, and can be operated and transported with or without the screen. This brings cost benefits with the investment, as well as the fuel consumption and environmental impact.
Further information:

Aggregate Processing & Recycling Ltd
Tel +44 (0)1827 260290 Email: geoff@apr.org.uk
Web: www.agg-pro.com

www.hub-4.com/directory/33

The new Sennebogen Green Line Material Handlers are in stock now.

With the "'Green Line" series, Sennebogen has designed and developed a completely new generation of material handling machines.

The material handling machines are not modifications of series-production earthmoving excavators. They have been designed to focus uncompromisingly on material handling. The result: Powerful rugged machines that are proving extremely worthwhile wherever it comes to handling, unloading, sorting or even breaking up of materials, general cargo and bulk material of any kind.

The new 825M and 830M - D series lead through innovation and offers high performance, coupled with cost effectiveness. Extremely versatile and powerful machines these state of the art material handlers are available from UK and Ireland Sennebogen distributor – Hassells of Stoke on Trent who can offer either flexible lease or purchase deals on all the range of Sennebogen Green Line Material Handlers.

The new 825M and 830M are from Sennebogen's strong Green Line range with operating weights from 22t – 270t and are used throughout the Waste & Recycling, Metals, Timber, Sand & Gravel and Shipping industries.

Featuring a strong dynamic swing drive for fast working cycles the machines have a completely redesigned upper structure and undercarriage which incorporates the latest HD axle technology.

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Port & Quarry Supplies

Port & Quarry Supplies have been supplying used equipment for over fifty years initially starting as Alan R Davies, which then became 'Plantfinder' and its famous magazine which many people still remember, and eventually Port & Quarry Supplies as we know it today.

PQS were also the very first agent for Powerscreen in the UK in the late 1960's - early 1970's. Recently PQS has now moved its operation to the historic 'Sheepbridge' site in Chesterfield, Derbyshire - famous for once manufacturing crushers, screens and complete plants.

Over the years the company has assembled a valuable archive of manufacturers' brochures from the 1940's to present day; these provide a very interesting insight into crushers and screens over the last 60 years. These are an invaluable source of information when quoting items of plant as they contain capacities, specification, dimensions and weights for most makes of crushers and screens.

In the present economic climate second hand machines play a more significant role as cost is significantly lower than a new machine to a degree that most buyers would be able to purchase without finance. Currently good quality used plant is also priced lower as struggling companies, finance houses and liquidators 'off load' into the market.

PQS can offer finance to UK customers on many of their crushers or screens. There may be a credit crunch, but there is no reason you cannot up grade your plant or not afford to make the initial purchase.

Why not contact them now. More information: Port & Quarry Supplies Tel: 01530 414358 E: sales@pqs.uk.net W: www.pqs.uk.net sales@pqs.uk.net

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Redox windshifter goes upwardly mobile

The Redox Windshifter, proven and robust technology that forms a key part within a Redox Recycling Plant, has now sprouted Tracks to go walkabout. Recycling can now be carried out at source and on semi-hostile sites such as landfill and crushing plants.

The first self-propelled Redox Windshifters are now delivered and offer versatility in separating light material and contamination from heavy for a number of different waste streams.

The Redox Mobile Windshifter carries all the features of the static system to separate and clean aggregates, compost fractions, crushed materials, plastics and foils also for cleaning wood for biomass CHP. The machine incorporates air recirculation for energy efficiency and dust management. Many adjustable parameters ensure the best efficiency and separation selection.

Redox Windshifters are now also proving invaluable in SRF production, removing any remaining inerts and hard plastics from the residue prior to fine shredding.

Discuss your requirements with Simon Ingleby of Alfatek UK (07870 681321). ingleby@alfatek.karoo.co.uk

Go-faster stripes are optional.

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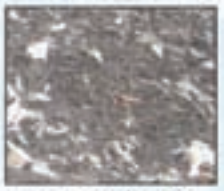
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How Deep is the Crisis and How fast is Recovery ?

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