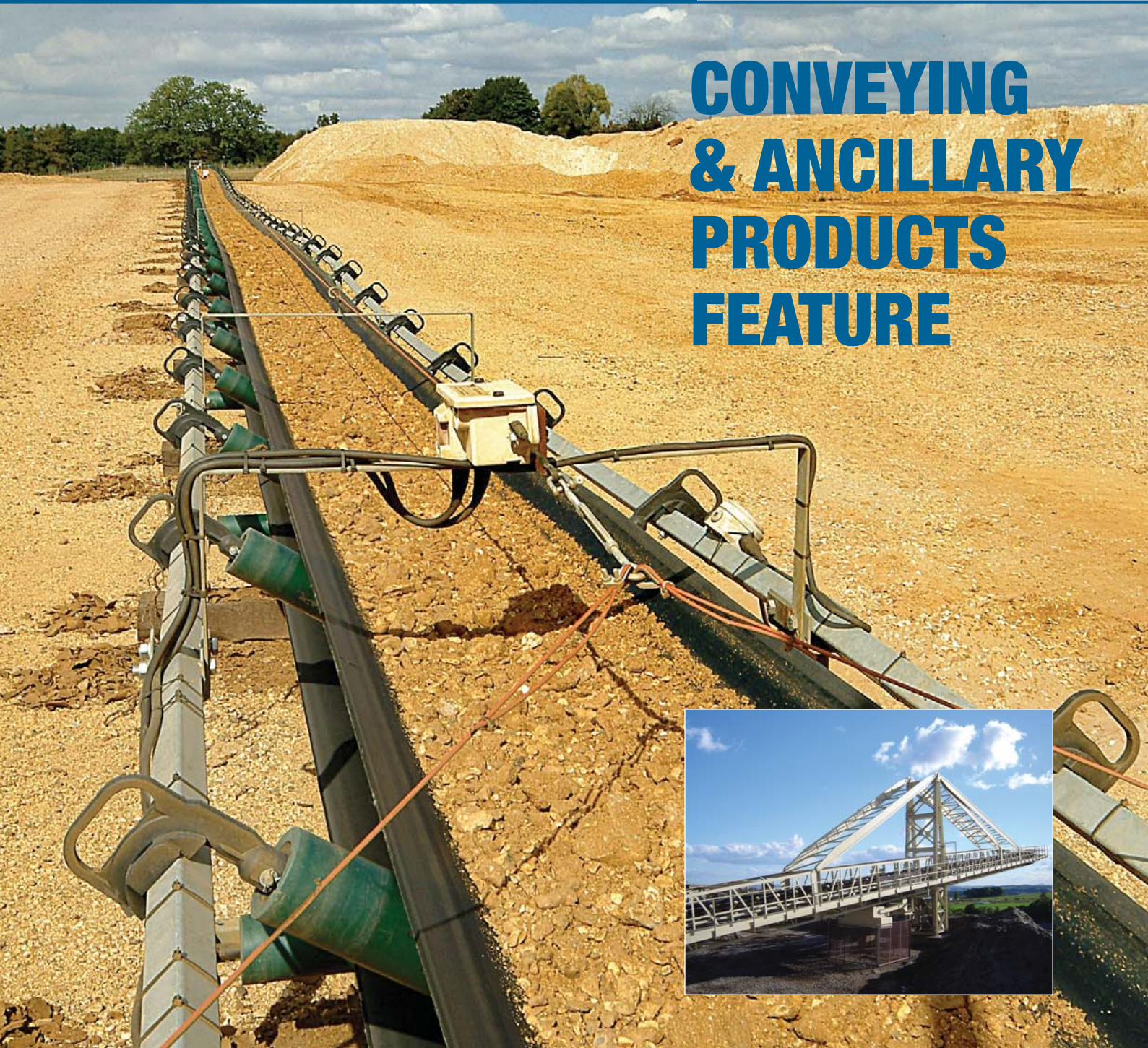


Product News

HUB3TM
MATERIALS HANDLING | RECYCLING | QUARRYING

**September
2008**

CONVEYING & ANCILLARY PRODUCTS FEATURE



For more information or to book an advertisement in the next feature
please contact: Linda Rainbow - 0845 680 0024

Linda.rainbow@hub-4.com

www.hub-4.com

Beaufort Conveyors

Beaufort Conveyors has been manufacturing their unique range of modular conveyor systems for over 20 years. Originally based in Bristol, they moved to their present larger premises in Swansea five years ago.

Their Easikit® trough belt conveyor has become a staple piece of equipment for a multitude of applications across the UK. The versatility, flexibility and reliability of these conveyors have become bywords throughout industry. Standard belt widths of 300, 450, 600, 900 and 1200 are available from stock; a recently introduced 1500mm wide conveyor is also available but currently only built to order.

As the range of conveyors is modular, the overall length of conveyor can be varied to suit the application simply by adding, or subtracting, one or more of the intermediate sections and the appropriate amount of belt which can be clip jointed. A variety of rubber belting including Plain, Chevron, Cleated and Nitrile can be specified.

The Easikit® can be supplied in a static, fixed form or as a Mobile or Radial with undercarriage. The undercarriage is fitted with a hydraulic ram which enables the conveyor to have a variable discharge height. In addition, the Radial has an electrically powered motor on the undercarriage to give a 30° arc – essential when stockpiling. The Mobile and Radial are only available with the 600 to 1500 range of conveyors.



Beaufort also manufacture Easibelt®, a range of flat bed material handling conveyors and Eastrak™ gravity roller track.

Whatever your handling requirements, Beaufort will be more than happy to help and advise.

Beaufort Conveyors E: sales@beaufortconveyors.com

Tel: +44(0)1792 310080



www.hub-4.com/directory/7453



Not just another Belt Cleaner company!

Founded in 1944 Martin Engineering is the leading global supplier of systems to make the conveying of bulk materials cleaner, safer, and more productive. The large portfolio of products on offer range from simple Belt Cleaners through to complete Conveyors and Advanced 'Dust Free' Transfer Points.

Recently a new Research and Development Center has been opened and features a three-conveyor system that can carry material in a continuous loop.

This recirculating conveyor system is the key feature in the Process Simulation Area at the company's new Center for Bulk Materials Handling Innovation (CFI). The process simulation "loop" is composed of three belt conveyors arranged in a triangle to carry material from one conveyor to the next in a continuous, recirculating stream.

"This recirculating conveyor system will let Martin Engineering product engineers and material scientists test product prototypes and the handling characteristics of real bulk material cargoes on full-scale material handling equipment," said R. Todd Swinderman, Martin Engineering's Chief Technology Officer. "We will be able to work with the specific materials of a customer to develop solutions to their unique material handling problems."

Two of the conveyors are 750 mm wide; the long leg of the triangle is 1200 mm wide.

One of the conveyors is an airsupported belt conveyor; the other two incorporate conventional idlers.

The recirculating belt conveyor system, combines with the CFI's industry-leading material testing and component analysis laboratories to position Martin Engineering to make bulk material handling cleaner, safer, and more productive throughout the world.

The Center for Innovation is housed at Martin Engineering's world headquarters in Illinois (USA). From here the centre works locally with its bases throughout the world.

The UK market is served from its Nottingham base, and from here it can supply, install, service, train and consult customers who have specific requirements in conveying materials.

'Foundations 3 The Practical Resource for Total Dust and Material Control' is the backbone of how the company applies its knowledge and experience in bulk material conveying. This Hardback book is available to all, and provides an invaluable resource on solving problems and sharing best practice ideas with conveyors. A copy can be obtained by contacting Martin Engineering at the UK office.

Martin Engineering Ltd Tel: +44 (0)115 946 4746 E.mail info@martin-eng.co.uk



www.hub-4.com/directory/534

Polyurethane wear resistant items to the quarrying industry.



Scandura, a division of PPL Polyurethane Products Ltd., has been an established supplier of polyurethane wear resistant items to the quarrying industry for over 40 years. Amongst the items produced are a range of conveyor belt scraper blades to fit most proprietary units, starting with the simple polyurethane strip, to moulded elements, some with bonded-in metal reinforcement.

Skirting is also available, soft enough to not cause belt damage but hard enough to withstand the rigors of containment. Available in a thickness to suit the application, in lengths up to 3 metre (longer possible)

Also in the conveyor range are dual hardness, moulded impact bars, mounted in a frame, these allow the belt to slide easily, without suffering the problems of rollers bending, bearings damage on impact etc. They help cut wear on belts and reduce spillage at feed points.

We offer a roller coating service to extend the life of troughing and return rollers and a re-lining service in polyurethane or rubber with diamond/chevron cut profile for drive drums.

Why not contact PPL for a solution to your wear problems on conveyors, screen surfaces, cyclones, pump linings, rollers, chutes, hoppers etc.

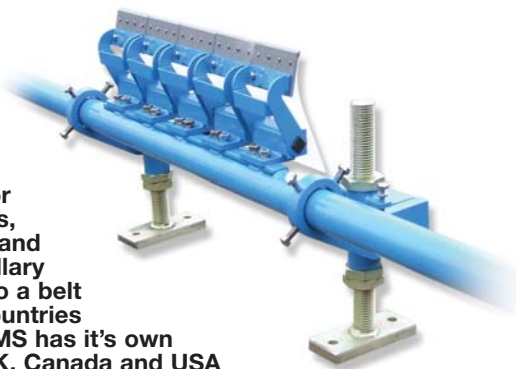
Polyurethane Products Ltd. Tel: 01777 712500
E: sales@poly-products.co.uk



www.hub-4.com/directory/7129

About BMS Belt Cleaners

BMS Belt Cleaners is one of the leading suppliers of conveyor belt primary scrapers, secondary scrapers and 'V' ploughs and ancillary equipment relating to a belt conveyor in many countries around the world. BMS has its own companies in the U.K, Canada and USA and worldwide distribution throughout Europe, Far East, Czech Republic, Slovakia, Russia and East and West Africa.



Since 1994, BMS Belt Cleaners has supplied conveyor belt scrapers supported by professional and technical back-up to the bulk handling and mineral extractive industries including quarrying, in mining; copper, zinc, gold, diamond etc, cement, fertiliser, power stations, agricultural, as well as fine and delicate material such as powders, vegetable oils, tobacco. BMS also provide product to original equipment manufacturers (OEM's) and include in the package free scraper selection, Cad drawing for all products and full technical support both at the drawing stage and prior to commissioning the plant. BMS also offer on line product support plus service contracts to ensure that customers retain the long-term performance of BMS products.

The BMS Belt Cleaners 'E' range of metal-bladed scrapers are an improved design based on the original 'paint scraper principle' which has a 20 year track record for efficient belt cleaning recovering even the last 1/10mm of carry-back material from the belt cover maximizing conveyor belt uptime, productivity, safety and lower cost of scraper ownership.

BMS offers three versions of their belt scraper for light, medium and heavy-duty applications, there is also a stainless steel option ideally suited for industries where high standards of hygiene and frequent wash-downs are essential, such as food processing, confectionary, plastics and pharmaceuticals.

BMS Belt Cleaners works closely with every customer to provide practical solutions to their cleaning problems in order to achieve long-term savings whilst realising that combating carry-back is a constant problem for the management (Managers/Engineers) of a bulk material handling plant.

For more information on our products and services please contact us on: BMS Belt Cleaners Ltd
Tel: +44 (0) 01325 483 916 Email: sales@bms-cleaners.com



www.hub-4.com/directory/9039



Specialised Belting Supplies have relocated.

In order to enable the company to accommodate the requirements that their increased level of business for their range of sidewall belting has brought, SBS has recently completed the move to their new 30,000 ft² premises, overcoming the considerable task of transferring all the manufacturing equipment in a short time period, whilst maintaining a heavy production schedule.

A significant additional investment has followed with new equipment to aid manufacture, consisting of full factory length 40 tonne overhead cranes, automated preparation machinery including fully computerised belt and profile roughening equipment, as well as increased bonding and pressing capacity.

It is believed that SBS has now probably one of the best production facilities at least in Europe, for the manufacture of their trademarked S-WALL sidewall conveyor belt, and these new and larger capacities will enable the company to react to their clients needs, with even the largest belts being produced on short delivery times with in excess of 80% of the company's production being exported.

Further equipment is planned to allow the company to enter into other areas of fabricated belt assembly.

Also, additional services are now provided, including conveyor maintenance, primarily in the East Anglian area with a 24hr x 7 days fully compliant site vulcanising and repair capability, as well as general belt distribution throughout the UK market."

For further information please contact SBS Ltd Tel: 01842 754392 E-mail: sales@sbsbelting.com



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Engineered Solutions for Materials Handling



- Elevators
- Conveyors
 - Belt
 - Chain
 - Screw
 - Airglide
 - Scraper
- Push Floors
- Vibro-feeders & screens
- Buildings & transfer towers
- Structural & support steelwork
- Material batch dosing & weighing
- Storage silos & supply equipment
- Gantries, access walkway & stair steelwork
- Inspection, separation, crushing & mixing



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www.robson.co.uk

**From Sheffield providing the world with
Material Handling Solutions.**

Total Conveyor Confidence



Design, manufacture, installation, commissioning
 Engineering & bulk materials handling
 Single roller to complete handling systems
 Quarry plant and equipment
 Cannoflex belting
 Vulcanising and fasteners
 Conveyor components
 Troughing idlers, return and replacement rollers



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Home of the SuperDrive™

Hosch (GB) Ltd

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 Surrey KT14 6AN England

Tel: +44 (0) 1932 344443
Fax: +44 (0) 1932 344775

E-mail: sales@westweigh.com

www.westweigh.com



Helen knew her cleaning days were numbered when she heard about Martin

Martin Engineering is a world leader in cleaning belts on conveyors. Use their technology to make your plant more productive.

- Effective Carryback Removal
- One-Pin Blade Replacement
- Long Service Life
- Increase safety



QC[®] #2 Secondary Cleaner

Do Your Start Up Sirens Annoy Your Neighbours?

White-Sound Solves Noise Nuisance Problems.

The biggest cause of complaint from residents living near mines is often noise nuisance, with the biggest offenders being tonal reversing alarms and conveyor start up alarms. Both devices are essential safety requirements, but how can safety be achieved without disturbing the peace of local communities?

Memphis Stone and Gravel Company is an aggregate supplier to West Tennessee and North Mississippi. Established in 1910 the company processes about five million tons of raw material each year. Until recently, there were few options for noise source reduction, then the aggregate supplier discovered Brigade Electronic's white sound reversing alarms (bbs-tek). The alarms, now considered to be the safest on the market are an effective way of reducing noise nuisance and are even approved by the Noise Abatement Society in the UK and the bbs-tek is the only alarm approved for use in NY on construction vehicles, in all areas of the city. In 2005 Memphis Stone and Gravel Company ran an aggressive campaign to retrofit much of its mobile equipment with broadband directional backup alarms.

The problem remained however, of the conveyor start up alarms, which sound similar to an emergency siren. Together with Brigade Electronics, the company completed a successful pilot project using the white sound alarms on its conveyor systems. Memphis Stone and Gravel now fit bbs-tek start up warning technology.

The directional nature of the white sound alarm accompanies the linear structure of the conveyors. Brigade developed an alarm with a 117 dB(A) rated output in order to optimize the distance along the conveyor line.

The white sound technology is much safer than conventional 'beeping' alarms because the sound is locatable, this makes it ideal for blind and partially sighted people who are still able to source the danger. Multi frequency sound provides a massive safety advantage for the hearing impaired, who may not be able to hear the narrow tones created by conventional alarms, but can usually pick up some sound created by the wide range of frequencies created by white sound.

The sound is localised to the danger area and is a huge safety advantage over conventional 'bleeping' alarms, whose sound is so pervasive that it can be heard well outside the danger area, with the result that people can become desensitised and ignore them. The unique 'ssh ssh' sound emitted is less irritating than the shrill sound of conventional alarms, therefore causing less of a nuisance to residents.

Brigade's white sound, warning start-up alarms can help overcome planning objections and eliminate noise complaints, whilst retaining a distinct and urgent sound to provide maximum safety protection for site workers.

Brigade Electronics plc Tel: +44 (0)1322 420300

E: sales@brigade-electronics.com

 www.hub-4.com/directory/5055

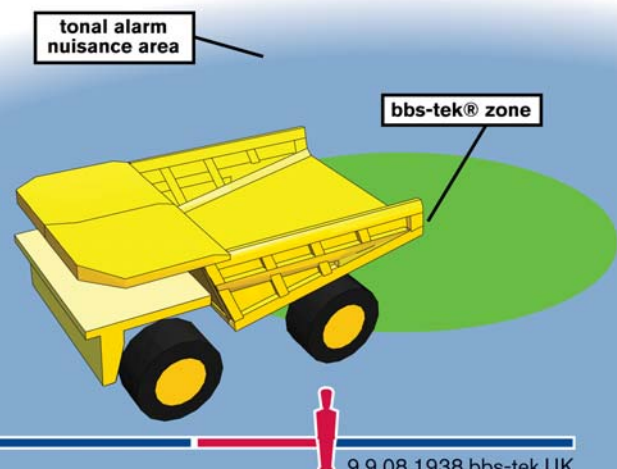
White-sound alarms - solve noise nuisance problems



By replacing traditional reversing, movement and start up alarms with bbs-tek® white sound (broadband sound) alarms you can eliminate noise complaints from neighbours and be safer! bbs-tek® alarms can

be 5dB quieter than tonal alarms and still provide the same alerting affect. In addition as broadband sound is directional and instantly locatable, they provide enhanced safety for all site workers and visitors.

As approved by



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www.brigade-electronics.com

9.9.08.1938.bbs-tek.UK

HOSCH - Belt Cleaning Solutions

HOSCH Carryback Measurement

A service by HOSCH for assessing the efficiency of belt cleaning systems

Belt conveyors tend to accumulate dirt on the return strand as a result of conveyed material sticking to the belt. As a result of cost pressure in the bulk handling industry, the number of conveyor maintenance staff is falling. Therefore the economic and safe operation of belt conveyors depends more and more on the efficiency of the belt cleaning systems.

HOSCH developed a simple and practical method for measuring the cleaning efficiency and economy of belt cleaners. This method allows:

- To easily measure and record the cleaning efficiency of belt cleaners,
- To analyse the measuring results on an IT-basis,
- To illustrate the results in the form of a profitability survey.

HOSCH Carryback Measurement

The measuring method consists of installation of a 120mm wide steel blade on the return strand of the belt, behind the existing belt cleaning system for a limited period of time. The removed material is collected in a container and weighed.

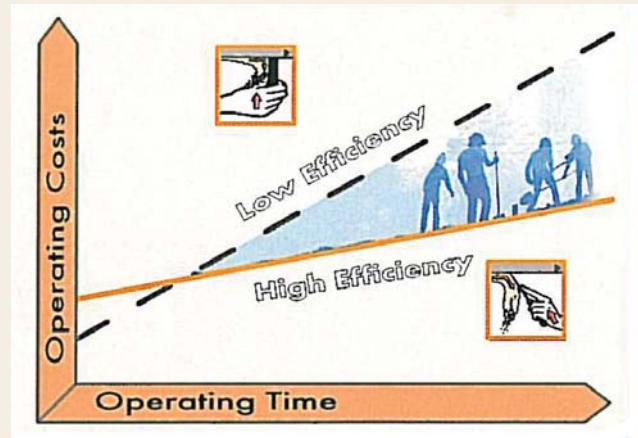
The comparison of several measurements carried out on different conveyors allows an assessment of the efficiency of the surveyed cleaners.

Analysis

The analysis of the measuring result is carried out on HOSCH's own programme, based on Microsoft Excel.

Starting from specific conveyor data, for example belt width, belt speed, operating time per day etc., the programme automatically calculates further installation data that is relevant for analysing the efficiency of the cleaning systems.

By extrapolating the results obtained by a carryback measurement and under consideration of the technical data of the conveyor belt, the quantity of material that enters the conveyor line can be estimated.



The calculated results are illustrated in graphics.

Analysis of the economy of belt cleaning

The analysis is based on the investment and operating costs - for example the costs for removing fallen material under the conveyor belt, costs for the purchase, the installation and the maintenance of the belts cleaners - calculated over an operating period of 3 years.

As a rule, the measuring process and the analysis of the results requires very little time and manpower. They are always carried out on site in close co-operation with the customer.

Ask our sales team!

Hosch (GB) Ltd
Tel: +44 (0)1642 751100 E: mail@hosch.co.uk

 www.hub-4.com/directory/406

Irelands Growing

Irelands – 'Conveyor Component Specialists' is expanding to service the UK & Ireland. The company has been trading as H. Ireland & Son for over 50 years but has recently changed ownership; resulting in substantial investment into the expansion of the conveyor specialists. One major investment has been the refurbishment of the company's office and manufacturing facilities at its head office in Ballynure, based 10 minutes outside of Belfast.

Irelands has created a new online presence to match with a brand new website. The website is designed to tailor Irelands' service to suit both existing and new customers. The company's products and services can be viewed on www.irelandsconveyors.com.

The company prides itself on its 50 years of experience and the valued relationships it has built with its customers. The wealth of technical knowledge has resulted in Irelands being equally well equipped to cater for both small locally owned operators as well as the major players in the engineering and quarry industries.

Irelands are keen not to simply dwell on their past achievements, instead they are benefiting from being able to adapt to industry challenges. The ability to service a company quickly is core to its adaptability; so it has established a depot in Galway. The Company has established a partnership with Galway based firm: Western Vulcanising, allowing Irelands to cover all conveyor belting needs throughout Ireland.

Irelands' attitude to quality is also reflected in the products it supplies. Tecniflex is Irelands own brand of premium grade belt which is manufactured in Germany to the highest quality standards. Irelands has also secured good relationships with its suppliers of component parts such as rollers and screening surfaces. This results in Irelands having a high quantity of stock allowing them to react to customer's needs quickly.

Irelands prides itself on being able to offer the right product, service and advice needed by each individual customer. The company is keen to attract new customers to maximise its potential and build Irelands' reputation as the leading conveyor belting and component supplier.

Further information:
Irelands Tel: +44 (0) 28 9335 2844 E: sales@irelandsconveyors.com

 www.hub-4.com/directory/9031





ToughFlex®

created to handle the toughest conveying applications

FEEL NO PAIN

TOUGHFLEX CONVEYOR BELT HAS BEEN CREATED TO HANDLE MATERIAL IN THE TOUGHEST STATIC & MOBILE CRUSHING AND RECYCLING APPLICATIONS.

In addition to superior cut and wear resistant covers, Smiley Monroe ToughFlex has reinforced fabric plies which resist cutting and puncturing-outlasting multiply belts.

Longer belt life combined with lower belt weight means reduced downtime, maintenance and energy costs - making Smiley Monroe ToughFlex the perfect all round solution for extreme conveying.



028 9267 3777

sales@smileymonroe.com
www.smileymonroe.com

ToughFlex stands up to the test

Smiley Monroe's new conveyor belt proves a hit in the toughest static & mobile crushing applications.

Smiley Monroe first introduced their new ToughFlex conveyor belt last year in Glenstone Quarry, Co. Tipperary, Ireland for a mobile crushing application. The machine, running at a speed of 600 RPM, outputs up to 3000 Tonnes per day of -150mm limestone. The material is 'thrown' onto the belt from a very short distance and the customer expected a belt that could withstand this level of impact. Smiley Monroe supplied and fitted a 24 metre long, 1200mm wide, 2 Ply ToughFlex belt with a tensile strength of 630 N/mm with superior cut resistant 8mm and 3mm covers.

After 120,000 tonnes, the customer was impressed with how well the belt was performing- the ToughFlex belt was in good condition, with minimal wear and a few punctures but no damage to the fabric. One year on, the customer was still extremely happy with the performance of his ToughFlex belt.

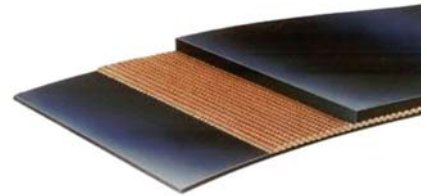
Longer belt life = reduced costs

Smiley Monroe's Managing Director, Vaughan Monroe, comments 'We developed ToughFlex as a response to our customers' need to reduce operating costs. Longer belt life means reduced downtime and maintenance costs, giving a substantially higher return on investment to the customer, particularly in applications where conventional heavy duty belts are no match for the harshest recycling materials such as steel rebar and concrete. In many applications, ToughFlex is a better alternative to belts with steel breaker layers, where its lower weight results in reduced energy costs.'

Highest Wear Resistant Specifications

ToughFlex fulfils the highest international wear resistant specifications ISO 10247 Grade H and Din 22102 Grade X. The fabric plies are reinforced to resist cutting and puncturing and are protected by heavy duty cut and wear resistant top and bottom covers. In addition, Smiley Monroe ToughFlex performs well on small to medium size pulleys and has excellent troughability.

Available in widths up to 1600mm, ToughFlex can be spliced or mechanically jointed -offering the perfect all round solution for extreme conveying.



“ It's a solid belt with good thick covers which are up to the job. Typically we would expect to change our multiply belts 3 or 4 times in the same period that Smiley Monroe's ToughFlex belt and joint lasted.

Liam Ryan
Quarry Manager, Glenstone Quarry



For more information please contact:



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F. +44 (0) 28 9266 3666
E. sales@smileymonroe.com

www.smileymonroe.com

Quarrying operations have always been recognised as the testing ground for plant equipment. The no nonsense approach, the heavy loads and long hours certainly separates the men from the boys in the materials handling industry. Reliability and robust design is the defining rule, a rule in which Geo. Robson & Co (Conveyors) Ltd has engrained in to every product it produces.

For over one hundred years Robson has produced Materials Handling Conveyor Equipment design especially for the harsh environments of the quarrying operation. Robson know that tight production deadlines and tighter maintenance budgets mean downtime is not an option for the quarrying industry.

Geo. Robson & Co (Conveyors) Ltd has designed, built and installed robust, reliable bulk material handling conveyor equipment into quarrying operations around the globe. Bespoke designed conveyor systems suited to the material environment and climate of the operation. Multiple installations into quarrying industries such as: Oil, Cement, Chalk, Flint Potash, Gold, Coal, Gypsum, Iron Ore and Aggregates.

Modern 3 Dimensional computer aided design packages combined with traditional heavy engineering experience, Robson engineers design and build the conveyor systems for the robust operation needed and expected by the customer.

The Backbone of the Quarry

Belt conveyors are the backbone of any mining or quarrying operation. Systems that ensure the bulk movement of material in excess of 1000 Tonnes per hour are commonplace within the industry, with the carrying length of the conveyor system virtually unlimited, the system can convey material from the quarry to the processing plant without the need for heavy transport.

Combinations of conveyors Weighers, Crushers, Magnets and Screens ensure the end product is sized and free from tramp metal ready for the next process. The belt conveyor has the flexibility of design to accommodate inclines and declines, enabling the structure to follow hillsides or to bridge over obstacles.

21st Century Belt Technology

Heavy material ripping or damaging the belt, when loaded via bucket loader, used to be common occurrences, but the multi plied state of the art belt compounds and materials utilised by Robson ensure a rigid, durable belt less likely to stretch and give. The conveyors integral impact rollers and or boards ensure the impact of the material is cushioned, absorbing the shock protecting the belt.

Other options of loading belts include loading bunkers or chutes, which enhance the loading operation by softening the loads impact and with the added benefit of reducing dust clouds with dry materials.

Belt tension is critical to the conveyor. If the tension of the conveyor belt is not set correctly the belt will slip when under load, at start up or in wet conditions and certainly in the UK the wet conditions are a factor but Robson have experience not only with rain posing problems but also with humid conditions with installations in the Far East and South and Central America humidity showed to be just as bad as rain.

That's why Robson recommends ceramic lagged pulleys, as the extra grip achieved ensures a smooth start up and, the grooves on the ceramic pulley, similar to a car tyre, displace the water from the belt, giving optimum grip and conveying continuity without slip. Also the extra grip can compensate for slight differences in the belt tension.



At the Trough

Robson belt conveyors use carrying idlers that have maintenance free, sealed for life bearings. Used in groups of three for troughed conveyors, the idlers create a troughed shape to hold the material in place while conveyed. This method works well with either wet or dry materials.

The options of open or enclosed conveyors much depend upon the material that is quarried, rough wet spoil is normally open whereas dry dusty material is enclosed to protect from the elements. The covers themselves have many options depending upon use and environment. In some cases fully enclosed gantries are used incorporating walkways or maintenance access routes.

Critical conveyor components such as drive's and gearboxes within the system have to be reliable, with spares or replacements accessible worldwide. Robson chose the drives only from manufacturers with proven track records of reliability and with international names for the motors and gearboxes such as SEW, David Brown, ABB spares and service are just a phone call away, no matter where in the world. As for bearings; again recognisable names such as Cooper or SKF are used for their reputation for reliability and the worldwide availability.

Clocking Up the Air Miles

One of the everyday required items for Robson engineers is becoming their passport, with exports of conveyor systems booming, recent installations including: Egypt, Hong Kong and Saudi Arabia, shows that Robson's reputation for reliability is certainly reaching the global market.

Same Reliable Components Different Products

A variation of the belt conveyor is the Tripper conveyor, which is used to evenly distribute granular materials evenly into warehouse facilities. An inclined conveyor elevates the granular material to the tripper conveyor, situated in the roof space of the warehouse. The train of the tripper conveyor runs on tracks the full length of the warehouse, feeding the conveyed material in to the bays or compartments below. Programming and switching allows the tripper to feed a certain area or length to suit warehousing needs.

Other belt conveyor products include loading and slewing conveyors, which are commonplace within the quarrying industry. Robson has manufactured these for many years, using the same proven components as the belt conveyors, and with export sales to Europe, the Middle East and Far East, the Slewing Conveyors design and reliability is proven beyond doubt.

The Job Lot

Robson has often been called upon to build not only the Conveyor System but to design and build the building or warehouse facilities in which it is housed. Often the main contractor on site, Robson is familiar with all CDM regulations, which is shown by their exemplary safety record.

Repeat business is commonplace at Robson and relationships with customers span decades in all industries. The expert team of in-house Project Managers and Project Engineers at Robson ensure the specification budget and deadlines are met.

Not just a one-trip pony

Robson has a team of dedicated Vibration technology engineers often designing systems that complement the belt conveyors, working in unison with the belt, or performing other processes on the same plant or site. Many standalone Vibration systems have been supplied to the quarrying industry for the Feeding, Dosing, and Measuring, Transferring, Screening, Scalping, Drying, Grading and De-watering of material.

Remote Control

Low maintenance is often the number one customer requirement, with systems purchased for installation in remote areas reliability is crucial. Vibratory Systems are often used in quarrying, as the robust design and lack of moving parts are well suited to the harsh environments. The application of screening and scalping is widely used throughout all types of quarrying and opencast mining.

Continuity and purity of product is key within the power generation and kiln feed operations these systems have significant uses for Vibratory Feeders and Screens. The screens ensure the correct sized filtered particle is fed to the furnace or kiln; regulated feeders ensure a continual dosed feed.

Size Does Matter

Especially useful in the aggregates and food industry, grading and sizing is a major use for the vibratory system and using a number of decreasing sized grids, the system can grade sizes, or separate the oversize / undersize of the product. The vibratory system enables chutes to divert the graded products either to reject for further processing.

Developing the Shakes

Robson's team of Vibro engineers developed Vibration products that meet the ATEX regulations for use in explosive atmospheres, mainly used in the dry foods industry but can be configured for use any production environment.

Other developments include a reversible Vibro feeder giving the options of central feed in with twin feed out at opposite ends of the trough, ideal for measuring and dosing.

No Screw loose here

Conveying material using Screw Conveyors gives options for a variety of uses. Variations in the flight design allow Screws conveyors to Convey, Mix, Feed or Elevate material, wet or dry.

Each Conveyor is bespoke to the customer's requirements giving Infinite choices for Size, Speed, Material or Application.

The type of material the screw is manufactured from depends upon the process and material being conveyed. Wet or foodstuffs normally are stainless steel while others are mild steel.

Using the same tried and tested motor and bearing manufacturers as the belt conveyors, the reliability of performance and robust construction of the Robson screw conveyors is guaranteed. Used in many industries, the screw conveyor's versatility and low maintenance are the key benefits.

A recent project undertaken by Robson was to reconfigure fifteen Screw Conveyors from three different plants to make up a single system in a new location. The screw conveyors originally supplied by Robson, some up to 10 years old, were brought back to the factory. The condition of the drives, bearings and screw were still very good and required little work to refurbish, which is a fitting tribute for a company that has produced conveyor systems and solutions for over one hundred years.

Geo Robson & Co (Conveyors) Ltd Tel: +44 (0) 114 2444221
E: info@robson.co.uk



The WestWeigh Belt Weighing system has always offered management reports in addition to the "standard" belt weigher features. However, earlier this year one major customer asked if we could extend the features to provide an economical Data Logging facility because due to the economic climate they wanted to analyse plant performance and productivity.

There are of course many data logging systems in the market but generally they are more suited to multi-channel input and custom software is required. For these reasons it has been expensive to apply the technology to small installations and difficult to send the data to other offices that do not have the required software.

WestWeigh have developed a system that will record a broad range of production data (Period Start/Stop Times and Dates, - Shift Totals and Grand Totals - Average Rates and Maximum Rates - Productive Hours Worked - Report Numbers etc.) and this is then written directly to a USB Flash Drive.

The "Flash Drive" can be inserted into the USB port of any P.C. running Microsoft Excel and the data can be transferred directly to a worksheet. Excel can then be used to analyse/manipulate the data in any form the user requires. If required, the finished report can simply be e-mailed to an Area Manager / Head Office etc. and no additional software is required to open (or work with) the document.

The Data Logger can be set up to record at pre-determined intervals via the internal real time clock, or a report can be generated manually by pushing a button.

Interest in this Belt Weighing / Data Logging System has been so strong that it has already been bought by four of the major quarrying groups in the U.K.. We have also supplied it to the Re-cycling industry, a large production company, a train loading facility and it has been exported to Ireland, The United Arab Emirates and Spain.

Although the system was originally designed for static plants an IP65 protected device is now available for mobile applications and this has already been purchased by two leading manufacturers. For more information call:

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Magfern Recycling choose JCC Engcon Group for new recycling installation

Magfern Recycling recently purchased a new SPS8 4 bay static picking station from JCC Engcon Group for a new site in Derby.

The company had visited the JCC Engcon stand at Scotplant and had been impressed by the workmanship and quality of the mobile picking stations that were at the exhibition, and the knowledge and assistance that JCC Engcon were able to provide.

After detailed discussions, Magfern Recycling opted for a bespoke picking station that was designed in conjunction with the clients specific requirements and for maximum efficiency and flexibility.

Product is discharged onto the 12m heavy duty incline conveyor with chevron belting and impact section & large feed hopper which is then transferred to the picking station which has 3.5m high support frame and 3.2m wide bays for 40 yard skips. Access to the picking station is via the two access stairways on the side of the incline conveyor which are not only designed for safety but also for any maintenance works required on the incline conveyor. The picking station is covered with insulated cladding & rooflights and also comes with double glazed doors & windows for operator comfort. The 4 bay picking station has

three bays for commingled product and a split fourth bay for the internal ferrous overband magnet and also non-ferrous collection. The picking station is fully guarded to BS:7300, CE approved, and has a combination of pull wire and push button emergency stops. The conveyors are powered by heavy duty variable speed electric drive motors.

Magfern Recycling were delighted at the initial discussions with JCC Engcon Group and the ease of discussions their requirements. Each individual item was discussed at length and the appropriate design features incorporated. After the specification & design was agreed, JCC Engcon Group manufactured the picking station system within 4 weeks as per the timescale required by Magfern Recycling.

JCC Engcon manufacture a range of picking stations from the PT6 hooklift mobile picking table to the MPS4 fully mobile picking station to the STPS24 twin line static picking station for 24 operatives, with twin blowers & 4 ferrous overband magnets.


For further information:
John Craig Contracting Engcon Group
Tel: +44 (0) 1560 320320
e: admin@johncraigcontracting.com

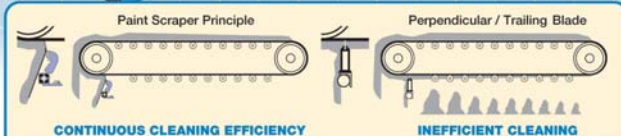


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A recent project for John A Woods Ltd in the south of Ireland involved the supply of a 150 tph sand and gravel washing plant. Processing 150 tph of 'as dug' material to produce a washed oversize, 20mm, 10mm and concrete sand the project included the supply of static feed and mobile stockpile conveyors.



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Kinegar Quarry increases production with a little help from Canning Conveyor.

Kinegar Quarries Ltd supplies bulk and bagged aggregates and is located on the east coast of the Scottish Borders supplying materials from Northumberland to Edinburgh and the Lothian's, and also throughout the Scottish Borders.

Recently they have upgraded their operations at their Glenfin hard rock quarry and installed a new cantilevered stockpile conveyor for their face operation.

Extracting material from the quarry benches and transporting to the process plant was originally performed by tipper trucks the new conveyor working in tandem with a Powerscreen Chieftain has considerably improved the production process.

Supplied by Canning Conveyor of Worksop, a new 900mm wide x 45m long troughed belt radial stockpile conveyor has been installed. Designed to accept 500 tph of -200mm aggregate from the discharge conveyor of the Powerscreen Chieftain the conveyor transports material horizontally for 20 metres to the edge of the cliff before cantilevering out for a further 25 metres and discharging to a conical stockpile below.

The conveyor is constructed with heavy duty lattice frame construction and is designed with a pivot point at the tail end and a powered slewing bogie 20 metres from the pivot. A fabricated trestle fitted to the wheel bogie extends up past the lattice frame with raker supports from the top of the trestle down to the gantry to support the cantilever.

The conveyor is driven by a 500mm diameter, 15kw ceramic lagged Canning 'SuperDrive'™ motorized drive drum and is also fitted with a 400mm diameter Rulmeca non drive drum.

The feed hopper was fabricated from 6mm mild steel complete with 20mm thick Linatex Linard lining on all sloping impact surfaces, a slewing drive is driven by a 3.0kW low speed high torque geared motor via chain and sprockets to one of the wheel shafts, fitted with two wheels these run on a radiused concrete beam.

Designed, detailed and manufactured by Canning Conveyor the installation has been a total success.

Arnot Findlay, Director, commented, "To resolve possible safety issues this installation has eliminated any possible risk of operators and maintenance personnel having to work over a 40 metre face. The new conveyor can be radialled in, ensuring that all necessary maintenance can be carried out at ground level. This is the first phase of our continuing upgrade for the production of high PSV stone at Glenfin Quarry and Canning have produced a working solution that will stand the test of time.

Further information: Canning Conveyor Co Ltd, Tel: 01909 486166 Email: sales@canningconveyor.co.uk



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