

El ITC comienza a instalar el sistema cerámico urbano de drenaje sostenible a través del proyecto LIFE CERSUDS

Se han iniciado las obras en la calle St. Vicent de Benicàssim (Castellón) en las que el Instituto de Tecnología Cerámica (ITC), como entidad coordinadora, desarrolla a través del proyecto europeo **LIFE CERSUDS** un demostrador de Sistema Urbano de Drenaje Sostenible.

LIFE CERSUDS pretende mejorar la capacidad de adaptación de las ciudades al cambio climático y promover el uso de infraestructuras verdes en el desarrollo urbano.

El sistema posee la capacidad de almacenar el agua de lluvia que podrá ser reutilizada como agua de riego para el mantenimiento del espacio público. “*LIFE CERSUDS permitirá el desarrollo y validación del sistema cerámico de pavimento permeable basado en baldosas cerámicas con bajo valor comercial, que podrá reducir notablemente la escorrentía superficial*”, afirma **Javier Mira**, investigador principal del ITC en este proyecto.

“*Además vamos a desarrollar anteproyectos similares para los municipios de Aveiro (Portugal) y Fiorano (Italia), países participantes en el consorcio LIFE CERSUDS, para potenciar en esas ciudades la replicabilidad del demostrador.*”

El sistema LIFE CERSUDS consiste en un pavimento urbano permeable formado por baldosas cerámicas de bajo valor comercial existentes en stock. Cada módulo está formado por siete cintas obtenidas a partir del corte de baldosas cerámicas. El demostrador de Benicàssim consiste en la reurbanización del tramo de la calle Torre de St. Vicent, comprendido entre las calles Mossén Elies y Tramontana, en un área de intervención que ocupa 3.200 m².

LIFE CERSUDS está cofinanciado, en un 60%, por la Comisión Europea a través del Programa LIFE 2014-2020 de Medio Ambiente y Acción por el Clima de la Unión Europea con referencia LIFE15 CCA/ES/000091.

Además del ITC participan la Universitat Politècnica de València (UPV) a través del Instituto de Ingeniería del Agua y Medio Ambiente (IIAMA); el Ayuntamiento de Benicàssim, el Centro Cerámico di Bologna (CCB-Italia), CHM Obras e Infraestructuras, S.A., Centro Tecnológico da Cerâmica e do Vidro (CTCV-Portugal) y la empresa Trencadís de Sempre, S.L. ◆

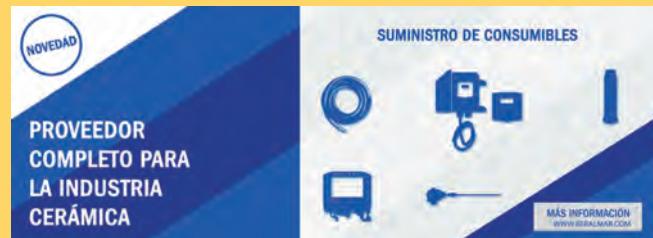


Beralmar: mejoras en el suministro de recambios y consumibles

Beralmar acaba de poner en marcha un **proyecto para suministrar repuestos y consumibles de una manera cómoda y sencilla**. La propuesta de valor de adquirir repuestos y consumibles a través de esta firma se basa en poder disfrutar de unos plazos de entrega y unos precios más ventajosos con relación al mercado.

De momento la cartera de productos se basa en varios componentes de quemadores, termopares, sensores de presión, convertidores de señal, etc., y se irá ampliando sucesivamente. La página web de la empresa también se actualizará en breve para facilitar información de los productos y para agilizar la gestión de compra. Los interesados en recibir cotizaciones de repuestos y consumibles pueden comunicarse con

Beralmar mediante el e-mail **consumables@beralmar.com**. Este proyecto se enmarca en el ideal de acercar **Beralmar** a convertirse en un proveedor total de la industria cerámica estructural. ◆

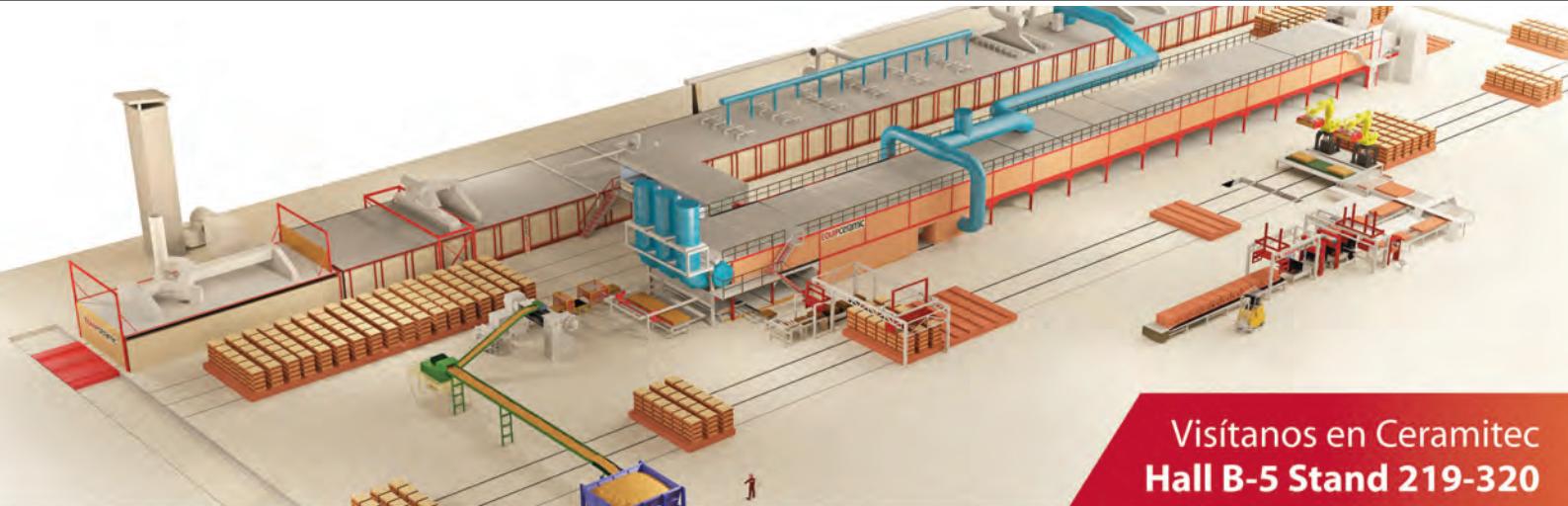


El ITC muestra a varios institutos tecnológicos de REDIT la implantación de la industria 4.0 en el azulejo con una visita a Colorker

El **Instituto de Tecnología Cerámica** (ITC) desarrolla en **Colorker, S.A.**, el proyecto **CEBRA-Ceramic Brain** cuyo objetivo es la transformación de una planta de fabricación cerámica tradicional hacia la implantación de la industria 4.0.

Dada la creciente importancia de este cambio que afecta a la práctica totalidad de los sectores productivos, una delegación de representantes de varios de los institutos que componen la **Red de Institutos Tecnológicos de la Comunidad Valenciana (REDIT)**, quiso visitar la planta de esta empresa fabricante de baldosas cerámicas para conocer *in situ* este proceso. Concretamente asistieron al encuentro representantes del Instituto Tecnológico Metalmecánico, del Mueble, la Madera, Embalaje y afines (AIDIMME), el Instituto Tecnológico del Juguete (AIJU), el Instituto Tecnológico Textil (AITEX), el Instituto Tecnológico de Biomecánica (IBV), el Instituto Tecnológico del Calzado y Conexas (INESCOP), el Instituto Tecnológico de la Energía (ITE), el Instituto Tecnológico del Embalaje, Transporte y

Logística (ITENE) y el Instituto Tecnológico de Informática (ITI), todos ellos acompañados en esta visita por el director de AICE-ITC, **Gustavo Mallol** y miembros de la directiva de Colorker.◆



Visítanos en Ceramitec
Hall B-5 Stand 219-320

EQUIPceramic
Detrás de un buen producto, hay un gran proyecto



Plantas de ladrillos
y tejas llaves en mano

CESCE y ASCER renuevan su convenio de colaboración de apoyo a la industria

CESCE y ASCER (Asociación Española de Fabricantes de Azulejos y Pavimentos Cerámicos) han firmado un convenio de colaboración para la organización de la XVII edición de los Premios Cerámica de Arquitectura e Interiorismo cuya convocatoria se lanzará en los próximos meses. El convenio se firmó coincidiendo con la entrega de los galardones de la XVI edición celebrada en Cevisama a principio de febrero y fue rubricada por **Susana Laínez**, jefe de Unidad de Relaciones Institucionales de CESCE; y por el presidente de ASCER, **Vicente Nomdádeu Lluesma**.

La finalidad de estos premios es difundir el uso de la cerámica española en obras de arquitectura e interiorismo realiza-

das tanto en España como fuera de ella, así como el reconocimiento de aquellos medios de comunicación nacionales e internacionales que desarrollen una labor de apoyo y difusión de los valores de la Cerámica de España. CESCE apoya, a través de su patrocinio, la categoría de Medio de Comunicación Internacional. En esta última edición de los Premios, el medio internacional premiado ha sido la revista india *The Tiles of India* recogió el galardón su editor jefe **Jignesh H. Trivedi**.

Además de acceder a los servicios habituales de CESCE, las empresas asociadas a ASCER podrán beneficiarse de una serie de servicios gracias a la colaboración institucional entre

Siti B&T consolidó en Cevisama su posición en Castellón

Siti B&T Group SpA, fabricante de sistemas completos para la industria cerámica es sin duda el líder del mercado y la elección del socio tecnológico para los productores del distrito de Castellón, uno de los más importantes distritos cerámicos del mundo.

Siti B&T Group participó Cevisama 2018 para consolidar su posición en el mercado y reafirmar la excelencia tecnológica de las soluciones que propone. Su éxito en España se basa en una extensa red y presencia local constante -la sucursal de **B&T Iberica** está operativa desde 1981- y ofrece un servicio 24/7 con más de 50 técnicos especializados, que se ajusta perfectamente a los requisitos actuales de los clientes.

La calidad y el servicio, por un lado, han permitido alcanzar un 90% la confianza con el cliente y, por otro, han permitido al Grupo ubicado en Formigine agregar nuevos nombres a su lista de clientes cada año. En 2017, por ejemplo, tres importantes productores españoles se acercaron a él por primera vez para desarrollar nuevos proyectos industriales. Los productos **Siti B&T** más populares en el mercado español son las prensas de alto tonelaje (como EVO 7608, en la foto, y EVO 6608) y los hornos **Titanium**, ideales para cocción de azulejos y sanitarios, que durante dos años seguidos han confirmado su récord sin precedentes de tener el menor consumo de energía entre todos los hornos del mercado.

La confirmación adicional ha venido del éxito de las máquinas de acabado de **Ancora**, lo que demuestra la capacidad del Grupo para crear un alto valor añadido a la estética del producto terminado. Junto con Ancora, las máquinas y servicios proporcionados por Projecta Engineering y Digital Design confirman la fuerte evolución de **Siti B&T**, que provee sistemas completos con amplia experiencia y excelencia tanto en la implantación de sistemas completos como en la ca-

pacidad de hacer propuestas sobre las características estéticas del producto terminado.

El Grupo tuvo dos stands en Cevisama (Siti B&T Group y Digital Design) y exhibió varias soluciones tecnológicas, incluyendo la máquina **Dry Squaring Speed** equipada con semihusillos automáticos, producidos por **Ancora** y **Evo Dry Fix**, la primera impresora digital que combina tecnología de chorro de tinta bajo demanda con tecnología de aplicación seca producida por *Projecta Engineering* y la gama de quemadores eficientes del Grupo. También se creó un área de galería para la exhibición que consistía en 16 grandes losas de cerámica hechas por completo en el Centro de Tecnología Siti B&T en la línea **Formigine by Supera** utilizando la tecnología STS™ (Structure & Thickness for Slabs), que permite la realización de alto espesor (losas de gran formato hasta 3.000x1.000 mm con espesores de entre 5 y 30 mm) y la profundidad de la estructura (relieves de hasta 4 mm en losas con un espesor de 5 ÷ 18 mm y relieves de hasta 6 mm en las hojas con un espesor de 19 ÷ 30 mm). ♦



ambas entidades, como por ejemplo, la organización de jornadas o sesiones informativas sobre gestión integral del riesgo comercial, financiación y mercados y control eficaz del riesgo a la exportación (riesgo país). También se elaborará un informe anual financiero del sector. Por otro lado, ASCER trasladará a CESCE anualmente el listado de países donde las empresas del sector encuentran más dificultades para asegurar operaciones y CESCE tratará de mejorar y buscar soluciones sectoriales. También se elaborarán estudios de mercado para la búsqueda de clientes rentables.

CESCE, empresa especializada en la cobertura del riesgo de crédito, es la primera empresa aseguradora de su sector que ha desarrollado un conjunto de herramientas para la gestión integral del riesgo comercial, que pone a disposición de sus clientes instrumentos para mejorar la gestión del riesgo en cartera y para identificar clientes potenciales, con criterios de solvencia.

La industria azulejera, a través de ASCER, puso en marcha estos premios para destacar la calidad de los productos cerámicos en la arquitectura y el interiorismo. Estos premios celebran en 2018 su XVII edición y los proyectos ganadores son obras de gran prestigio arquitectónico. ♦



Siti B&T consolidated its position in Castellón at Cevisama

Siti B&T Group S.p.A., a manufacturer of complete systems for the worldwide ceramics industry is undoubtedly the market leader and the choice of technological partner for producers in the Castellón district in Spain, one of the most important ceramics districts in the world.

Siti B&T Group took part in the Cevisama 2018 trade fair to consolidate its market position and to reaffirm the technological excellence of the solutions it proposes. The success of **Siti B&T** in Spain is based on an extensive network and a constant local presence—the B&T Iberica branch has been operative since 1981—and provides a 24/7 service with over 50 specialized technicians, which is perfectly in line with current customer requirements.

Quality and service, on one hand, have made it possible to achieve 90% customer loyalty and on the other have allowed the Formigine based Group to add new names to its list of customers each year. During 2017, for example, three major Spanish producers approached **Siti B&T** for the first time with the aim of developing new industrial projects.

The most popular **Siti B&T** products in the Spanish market are high tonnage presses (such as the EVO 7608 –pictured- and EVO 6608) and Titanium kilns—ideal for firing both tiles and sanitary ware—which for two years in a row have confirmed their unrivalled record for having the lowest energy consumption among all the kilns on the market.

Further confirmation has come from the outstanding success of the Ancora finishing machines, demonstrating the Group's ability to create high added value to the aesthetics of the finished product. Together with **Ancora**, the machines and services provided by *Projecta Engineering* and *Digital Design* confirm the strong evolution of **Siti B&T**, which is the leading complete system provider with extensive expertise and excellence both in terms of the implementation of complete systems and the capability to make

proposals regarding the aesthetic characteristics of the finished product.

The Group had two stands at Cevisama (Siti B&T Group and Digital Design) and exhibited various technological solutions, including the **Dry Squaring Speed** machine fitted with semi-automatic spindles, produced by **Ancora** and the **Evo Dry Fix**, the first digital printer that combines drop-on-demand inkjet technology with dry application technology produced by *Projecta Engineering*, and the Group's range of efficient burners. A gallery area was also created for the exhibition consisting of 16 large ceramic slabs made entirely at the Siti B&T Technology Centre in **Formigine** by a **Supera** line using the exclusive STSTM (Structure & Thickness for Slabs) technology. This allows large thicknesses to be produced (large slabs up to 3,000x1,000 mm having a thickness of between 5 and 30 mm) and consequently a deep surface texture (reliefs of up to 4 mm on slabs with a thickness of 5 to 18 mm and reliefs of up to 6 mm on slabs with a thickness of 19 to 30 mm).



Sacmi at ceramitec

Sacmi will take part at ceramitec to exhibit its wide range of proposals for the production of powder metal items, refractories, technical ceramics, sanitaryware, tableware and tiles. Prior to the event, on 9th April, there will be the special **TEAM Day**, the international technical symposium organised by TEAM by Sacmi (Technology and Experience for Advanced Ceramics). Since 2007 the latter has brought together all the machine/process design and development skills of Laeis, Riedhammer, Sama, Alpha Ceramics, Gaiotto and Sacmi Imola, related to technical ceramics and other fields. A broad range of topics will be covered, with a Team Day that goes hand in hand with the Munich fair.

At Ceramitec, on a stand covering almost 700 m² at the entrance to hall B6, the Sacmi Powder Metal Division will be displaying an upgraded version of its **MPH200**, a fully automatic hydraulic press that has been extremely successful since its presentation at Ceramitec 2015 thanks to unparalleled performance, low energy consumption and extremely user-friendly PM press programming (API).

In addition, visitors will have the opportunity to learn about the latest products Sacmi now offers the market, such as the **MPH800**, the largest press in the range, and see the highlights of the many innovations in the pipeline for 2018, starting with two new press models (MPH080 and MPH120) and a truly revolutionary solution for helical gears. Great attention will be given to Industry 4.0 solutions such as predictive maintenance, process optimization, tracking and measurement, all elements grouped under the umbrella of H.E.R.E., the Sacmi software suite that allows equipment, department and complete plant monitoring and management.

Sacmi will also display the new **DHD 708-8**, a digital decoration machine for tableware, complete with a plate inspection system to guarantee maximum print quality. Sacmi continues to develop solutions for decorating both fired and unfired plates, and samples of products made using different techniques will also be on show.

Moreover, as a leading force in the **flat-extruded ceramic industry**, Sacmi will present the latest opportunities for the manufacture, laying and handling of extruded products. This segment is, in general, enjoying growing demand, both in Europe and on emerging markets, for high quality, complex products. This trend matches the Sacmi philosophy perfectly, as the latter focuses on providing plants with advanced technology to all markets by way of the Group's far-reaching sales organisation, capable of offering finely targeted real-time service anywhere in the world, from initial plant design to the fast, efficient supply of spare parts.

Sama, the leading provider of machines and complete plants to the tableware and technical ceramic industries, offers extrusion-type solutions for insulators and honeycombs, plastic shaping units, isostatic pressing, high pressure casting, machines for surface grinding, polishing and glazing plus factory automation solutions. Sama is a valued partner of the entire

ceramic industry, providing high performance via the newly created Sama f.i.t. Feasibility, Innovation and Training centre. Customers will be invited, during ceramitec, to the Sama f.i.t. Open Day to illustrate the enhanced service and modernised tool shop. Many machines will be in operation and the centre will show the newly developed HCM 050 pressure casting line for the automatic casting of handles.

Visitors to Ceramitec 2018 will be in for a treat as Sama is showcasing an array of new solutions. There will be the latest-generation Isostatic Pressing Typ PHO 700 with an increased closing force of up to 700 tons and a quick-change tool system. Higher force, innovation and an energy saving system to provide more opportunities for design, flexibility and economy. In short: more service for the customer.

Laeis, whose name stands worldwide for efficient, highly developed and cutting-edge pressing technology, will present the HPF V 1000 high-performance press – one type of the last generation of the Laeis HPF presses, which continue to define the state of technology for the production of shaped refractory products and various other applications. Some highlights of the HPF V series are the new control panel with optimized, user-friendly and intuitive operation and an electronic and hydraulic system which guarantees higher press speed and reduced energy cost per ton of pressed material.

Finally, at Ceramitec 2018, **Riedhammer** will present its profound know-how in high product quality, efficiency and energy-saving innovations. With its experience of more than 90 years and rapid adaptation to changing market requirements, Riedhammer can offer advanced and reliable technical solutions for all thermal processes, which guarantee an excellent finished product quality: outstanding quality combined with high energy saving and constant innovation. ♦



Stefano Baraldi - the new General Manager of Siti B&T Group

Stefano Baraldi is the new General Manager of **Siti B&T Group S.p.A.**, a manufacturer of complete systems for the worldwide ceramics industry and listed on the AIM Italia stock market (Ticker: SITI).

Baraldi has a degree in Physics and many years of experience as a Product Manager, Operations Manager, Sales & Marketing Manager. He has also held the position of General Manager in well-known companies, including local businesses such as WAMGROUP S.p.A. His previous experience in industrial sectors different to the one of our company will enable him to bring energy, motivation and an improvement in business processes to the Group, which has always developed new technologies and placed research and innovation at the centre of the company mission.

The objective of the new General Manager, who will report directly to the CEO **Fabio Tarozzi**, will be give a greater impetus to the growth of **Siti B&T Group** in the markets of interest, reinforcing its capability as a **provider of complete systems and a**

leading technology partner for all ceramic tile and sanitaryware manufacturers.

All this confirms the company guidelines: **R&I, the sustainable use of energy resources and international development.**

Technologically advanced solutions for every stage of the manufacturing process enable the Group to make products that have a significantly **higher aesthetic value** in the best possible way. This is achieved by the exclusive graphic design capabilities provided by **Digital Design**, the best digital decoration technologies from **Projecta Engineering** and the surface finishing technology of **Ancora**.

It is the only global complete system provider that has proven proprietary expertise and experience throughout the entire production chain (from the process to the final product). **Siti B&T Group S.p.A.** offers its customers support for creating and producing products that combine technical excellence with the "beauty factor", which increasingly influences the choice of the final customer and is therefore the primary lever of competitiveness. ♦



Morte explora las posibilidades de la industria 4.0

Morte siempre se ha caracterizado por su carácter innovador, ya que lleva años apostando por mantener una actitud abierta, consistente en estar atentos a las novedades existentes en su entorno con el objetivo de desarrollar acciones que puedan generar mejoras en todas las áreas de la empresa.

Por este motivo, durante 2017 decidió participar en el programa **Activa Industria 4.0**, cuyo objetivo es impulsar la **transformación digital** de la industria española.

Como paso previo a la participación en dicho programa, realizó un autodiagnóstico, utilizando la herramienta **HADA** (Herramienta de la Autoevaluación Digital Avanzada) que valora los siguientes aspectos:

- ◆ Estrategia de mercado y negocio
- ◆ Procesos
- ◆ Organización y personas

◆ Infraestructuras

◆ Productos y servicios.

El resultado alcanzado ha determinado que el nivel de madurez digital de Morte es de 'competente', lo que indica que es una empresa en desarrollo que se caracteriza por:

◆ Incorporar iniciativas de Industria 4.0 en su estrategia

◆ Hacer inversiones de Industria 4.0 en varias áreas

◆ Recoger algunos datos de forma automática, con una explotación limitada

◆ Realizar intercambio de información intraempresa que se está comenzando a integrar con proveedores y clientes.

Este resultado le ha permitido participar en el programa, cuyo objetivo principal es identificar el **potencial de mejora tecnológica** de cada empresa proporcionándole los siguientes beneficios:

◆ **Asesoramiento empresarial** para mejorar la competitividad mediante un itinerario de apoyo personalizado.

◆ **Diagnóstico de la situación real de la empresa** para conocer sus capacidades en el ámbito de la Industria 4.0.

◆ Elaboración de un **plan de acción**, con el fin de identificar, definir y priorizar las acciones de mejora y transformación en el ámbito de la Industria 4.0. ♦



Beralmar en ceramitec 2018: soluciones competitivas

Beralmar aprovechará la próxima ceramitec 2018 para presentar los desarrollos más recientes que ha creado su departamento de I+D, especialmente en el campo de las energías alternativas para la cerámica estructural. Con 54 años de experiencia continua y crecimiento constante, la empresa ofrece soluciones competitivas en cada una de sus líneas de negocio:

- Ingeniería de proyectos: plantas completas, hornos y secaderos.

- Equipos: mecanismos y combustión.

Todos los equipos y proyectos están diseñados y fabricados por **Beralmar** en su sede de Terrassa (Barcelona).

La firma se caracteriza por su adaptabilidad a la hora de suministrar la tecnología adecuada en cada contexto. En este sentido, acumula experiencia con las siguientes tecnologías:

- Soluciones de combustión para todo tipo de combustibles tanto para el proceso de secado y la cocción: gas natural, gas de síntesis, biogás, fuel-oil, petróleo crudo, gasoil, carbón mineral, coque de petróleo, biomasa, etc.
- Todo tipo de secaderos: si bien la mayoría de ingenierías se especializan en uno o dos tipos de secaderos, Beralmar ha suministrado casi todo tipo de soluciones de secado: secaderos semicontinuos, secaderos rápidos, secaderos de cámaras, secaderos de plataforma y secaderos de apilado directo.
- Hornos túnel de alto rendimiento. Hornos verdaderamente herméticos para un bajo consumo, alta productividad por volumen y la más alta calidad de cocción.
- Gama completa de soluciones de manipulación para corte y carga, descarga y configuración, desmontaje y embalaje. Sus mecanismos se caracterizan por su robustez, fiabilidad y calidad.

• Control: Beralmar desarrolla los equipos más completos de control y gestión de procesos para una total automatización de la producción. Gracias a su acceso remoto vía internet, Beralmar también ofrece un servicio de supervisión en tiempo real.

Esta amplia experiencia le permite proponer las soluciones más competitivas en cada caso, sin ningún tipo de limitaciones propias.

La maquinaria de Beralmar se ha instalado en más de 50 países de todo el mundo. En los últimos 20 años ha suministrado más de 40 hornos y 40 secaderos en 5 continentes.

Beralmar actualmente está ocupada suministrando 5 plantas completas: 3 en Asia Central, 1 en Malasia y 1 en Marruecos. Otro campo de especialización de **Beralmar** es la mejora de procesos. Los conocimientos de su equipo técnico en el desarrollo, aplicación y regulación de equipos para hornos y secaderos les permite ofrecer servicios de asesoría técnica para la mejora de procesos en líneas de producción existentes. Finalmente, **Beralmar** ha iniciado recientemente un servicio de suministro de recambios y consumibles en condiciones muy ventajosas.

La firma espera compartir todo esto con los visitantes en Munich (Alemania) entre el 10 y el 13 de abril, concretamente en el stand 115/216 del Hall B5.

Beralmar at ceramitec 2018: competitive solutions

Beralmar will take advantage of the next ceramitec 2018 exhibition to present the most recent developments that its R&D Department has created, especially in the field of alternative energies for the heavy

IMI Europe announces 2018 inkjet collaboration and learning events

IMI Europe announces new events for 2018, aimed at facilitating collaboration and learning across the inkjet industry worldwide. With a change of location to Frankfurt for its spring technical Inkjet Development Conference, and a new India event, the scene is set for a full programme of events supporting digital printing development.

- Inkjet Development Conference 2018: 17-18 April (Frankfurt, Germany). Advances in digital printing solutions. The IMI Europe Inkjet Development Conference is a two-day technical conference devoted to digital printing solution development. It is aimed at inkjet development chemists and engineers across applications including packaging, textiles, graphics, industrial and functional printing. The conference is ideal for those wishing to understand the latest developments in materials, techniques and products across the industry.

- Inkjet Summer School 2018: 11-15 June (Ghent, Belgium). The IMI Europe Inkjet Summer School is the ideal way to learn more about key aspects of inkjet technology, from the

basics through to advanced courses on inks, printheads and applications. The Inkjet Summer School offers selection of high quality 1.5 day technical courses on topics of interest within inkjet printing, presented by experts in their field, including the world-famous Inkjet Academy.

- Inkjet Printing India 2018: 4-5 October (Mumbai, India). This is a new event for 2018 in partnership with CNT Expositions and Services (formerly known as Inkjet Forum India), who currently organise the well-known Digital Textile Symposium, produce the Digital Textile Journal and comprehensive understanding of the Indian inkjet industry. The event will comprise a one-day conference programme, focused on key topics in the industry in India followed by a single day technical workshop on inkjet ink development, manufacturing and other technical aspects.

"We are excited to return to India for a new conference event with CNT. We look forward to a successful partnership and building a new event and community around the inkjet industry

clay industry. With 54 years of continuous experience and constant growth, today the company offers competitive solutions in each of its business lines:

- Project engineering: complete plants, kilns and dryers.
- Equipment: handling and combustion.

All the equipment and projects are designed and manufactured by Beralmar at its headquarters in Terrassa (Barcelona, Spain).

Beralmar's expertise is characterized by its adaptability when it comes to supplying the right technology to every context. In this regard

Beralmar accumulates experience with the following technologies:

- Combustion solutions for all type of fuels and for both the drying and firing processes: natural gas, synthesis gas, biogas, heavy-oil, crude oil, diesel, mineral coals, petroleum coke, biomass, etc.
- All type of dryers: while most engineering companies specialize in one or two types of dryers, the company has supplied nearly all type of dryers: tunnel dryers (semi-continuous), fast dryers, chamber dryers, platform dryers and direct-setting dryers.
- High performance tunnel kilns. Truly air-tight kilns for low consumption, high productivity per volume and the highest firing quality.
- Complete range of handling solutions for cutting and loading, unloading and setting, dehacking and packaging. The mechanisms manufactured by Beralmar are characterized by their robustness, reliability and quality.
- Control: Beralmar develops the most complete process control and management equipment for total production automation. Thanks to its remote access via internet, Beralmar also offers a real-time monitoring and customer support service.

This broad experience allows Beralmar to propose the most competitive solutions in each case, without any limitations of its own.

Their machinery has been installed in more than 50 countries around

the world. In the last 20 years the company has supplied more than 40 kilns and 40 dryers in 5 continents.

They are currently busy supplying 5 complete plants: 3 in Central Asia, 1 in Malaysia, and 1 in Morocco.

Another field of specialization of **Beralmar** is in process improvement. The know-how of Beralmar's technical team in the development, application and regulation of equipment for dryers and kilns allows us to offer technical advisory services to improve processes in existing production lines.

Finally, **Beralmar** has recently started a supply service for spare parts and consumables under very advantageous conditions.

They look forward to share all of this with visitors in Munich (Germany) between the 10th and 13th of April, to be precise at booth no. 115/216 in Hall B5. ◆



in the subcontinent," said Tim Phillips, Managing Director IMI Europe. Aditya Chandavarkar, Co-Founder, CNT, concurred, adding "we are looking forward to working with IMI Europe on this new event, combining our resources to create something new and valuable for the Indian market."

- Digital Print Europe 2018. IMI Europe will also be holding its strategic Digital Print Europe Event Conference in autumn 2018 at a date and location to be confirmed. This appointment will build on last year's well-regarded event, featuring

industry leaders discussing the latest business and technology trends in the inkjet industry.

IMI Europe facilitates collaboration and learning within the community of inkjet technology developers and users for digital printing and deposition applications. They organise high quality conferences and courses in Europe and Asia aimed at strategic & commercial executives and technical developers in the digital printing industry. Their sister company IMI Inc organises similar events in the USA. ◆



Frankfurt.



Ghent.



Mumbai.

New Eirich mixer taken into operation at Vishay Electronic GmbH

Eirich mixers have been used in many preparation processes in the technical ceramics industry for decades, and thanks to their underlying design and system layout, these mixers can perform mixing, granulating, coating, kneading and dispersing. In addition, a quality of disintegration is attained that cannot normally be reached by other systems. Vishay was impressed by the advantages that this technology has to offer and decided to install an Eirich mixing granulator.

Vishay Electronic GmbH is part of Vishay Intertechnology Inc. The global high-tech company with production sites in 17 countries is one of the leading manufacturers of active and passive electronic components. In 1987, Vishay took over the company Draloric in Selb (Germany). Today, Vishay Draloric is one of the trade names for MELF (metal electrode leadless faces) resistors and ceramic capacitors.

Just like in all other product classes of technical ceramics, the preparation process also plays a pivotal role when it comes to ceramics for electronics

applications. The requirements in terms of the mixing results are high – the aim is to achieve the most uniform possible distribution of all components. This is the only way to ensure that, later on, every component offers exactly the properties assigned to it by the specification. This was already the reason why the predecessor companies of Vishay Electronic chose to use the best available preparation technology and manufacture with **Eirich** mixers.

Technological advancements have led to numerous innovations, both in ceramics for electronics applications and in machine engineering and plant construction. This is why, after repeated test series at the Eirich test center in Hardheim, Vishay Electronic decided to install a new Eirich mixer. As is typical for mixers for technical ceramics, all parts that come into contact with product are made of stainless steel. A frequency inverter allows the mixer to run in different speed ranges. The mixer, which was taken into operation in November 2017, enables Vishay Electronic to continue producing high quality components.

Mixers with a size below 150 l are normally large enough for applications in technical ceramics. However, it is often important for the manufacturers that these mixers are not only able to mix, but that they can also perform granulating, coating, kneading or dispersing. With the **Eirich** technology, it has been possible to combine several preparation steps in a single unit. Mixers in sizes ranging from laboratory to production scales are available at the **Eirich** test center so that this can be tested. The process engineers from Eirich can perform tests with customer materials here and at many other of the company's sites. ♦



Siti B&T Group: Strong growth in turnover in 2017 (+27% over 2016) for the subsidiary company Ancora S.p.a.

Excellent performance by **Ancora S.p.a.** (the company is 100% controlled by **Siti B&T Group S.p.A.**, a manufacturer of complete tile and sanitary plants, listed on the AIM Italia market), which, in 2017, generated a turnover amounting to EUR 32.4 million, increasing by more than 27.2% over the previous year. Net profit is also growing strongly at EUR 1.6 million (+43% over 2016), just like Ebitda, which reached EUR 4.1 million, equal to 12.8% of the turnover, with a growth in EUR 0.2 million over 2016.

The Italian market is performing well and is particularly focused on top-class technological solutions, for which Ancora has registered a sales percentage amounting to 45%. The technological solutions installed in the largest ceramic tile manufacturing companies in the Sassuolo area include complete finishing lines (lapping, cutting and rectification) for large-sized tiles and tiles of various thickness, as well as completely automated machines compliant with the 4.0 Industry requirements.

According to Mr. **Fabio Tarozzi**, CEO of Siti B&T Group: "These results show, yet again, the capacity of our Group to successfully implement Merger & Acquisition. When we acquired it in February 2015, Ancora was performing badly, but the company turnaround has been rapid thanks to the work of a young and motivated management team we have relied on since the very beginning."

In addition to Ancora's finishing technologies, Italian businesses -which produce the highest quality and most aesthetically beautiful ceramic tiles in the world- have also appreciated the whole offer of the companies belonging to our Group, the aim of which is to highlight the "beauty in ceramics". Projecta Engineering (especially with its EvoDRYFIX, the first digital printer to combine inkjet drop on demand and dry grits technologies) and Digital Design, a company leader in the design and realization of digital graphics for design surfaces, are two examples of it. ♦

System Ceramics, entre los ponentes de Qualicer 2018

En Castellón **System** estuvo entre los ponentes de los seminarios técnicos organizados por el congreso mundial Qualicer 2018, con un importante estudio realizado por el departamento de I+D de la división Ceramics. Para dicha ocasión, se presentó un informe titulado "Improvement of printing quality through satellites formation control".

El estudio se ocupa de investigar el control de la formación de la gota que sale de la boquilla del cabezal, con el fin de mejorar la calidad de impresión. El modelo se ha desarrollado y verificado experimentalmente en un sistema que reproduce con

fidelidad el proceso de impresión digital. Los resultados obtenidos por el estudio del caso permiten efectuar previsiones sobre rendimiento y eficacia del sistema de impresión, y aportan información sobre una posible fórmula ideal para las tintas.

El departamento de I+D de **System Ceramics** representa un importante polo tecnológico a escala mundial, en el cual se llevan a cabo estudios y tests de importancia estratégica, sin comparación.

El informe se presentó el 13 de febrero en el ámbito de la sesión C dedicada al **CeramicTileManufacture**. ◆

Large formats in India come dressed by BMR

BMR's made in Italy ceramic machinery technology has found in India a further important landing place to assert its technological know-how for the fine ceramic line, with special reference to the production of large formats.

In fact, at the end of March, the new system supplied to Lioli Ceramica, belonging to the Lexus Group, will be inaugurated in the Morbi-Gujarat plant. Lioli Ceramica has defined its own core business in the production of high quality porcelain stoneware, made with the latest cutting edge digital decoration in plates from 1,200x1,200 mm up to 1,600x3,200 mm. A choice of great vision that has already determined the affirmation of Indian products among the main ones on offer from the international ceramic sector.

To achieve high technical and aesthetic standards, Lioli Ceramica has chosen BMR's technology for the end of line, thus relying on a partner that has made innovation and attention to the customer their production must.

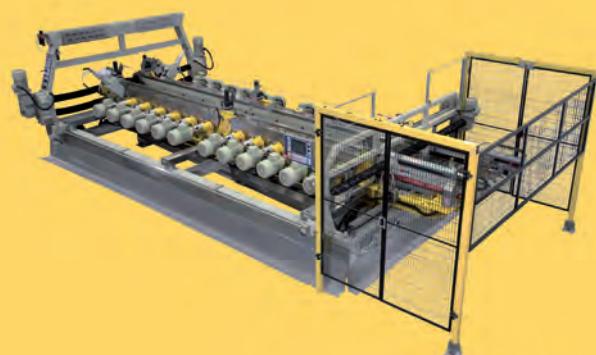
The system supplied by the ceramic machinery company from Scandiano (Reggio Emilia-Italy) consists of a lapping line, with 56 heads consisting of 2 modules with 20 heads with a swing bridge and 1 module with 16 heads and a fixed bridge. Added to it is the Supershine treatment line, BMR's technology for treatment which guarantees an increase of over 90 gloss in the brightness of the tile. With Supershine, lapping reaches very high levels, making the final product highly competitive, and for this reason Lioli Ceramica wanted to equip its plants with this solution, following the main trends for success in the European markets, Italy and Spain in particular.

To complete the system, the Indian company has adopted the

Top Squadra Dry technology with a latest generation dry cutting and squaring line for large formats.

Top Squadra Dry is the evolution of dry technology developed by BMR already in 2005 that allowed applying dry grinding not just to monoporous but also to porcelain stoneware, reaching formats and thicknesses of different sizes.

That of large size plates, available in several formats and thicknesses, is a trend that has found immense success in the most important international markets in recent years and BMR has faced it according to a development logic that was able to, first of all, take into account the whole production process. Lapping and squaring are at the base of the new productive impulse of the Indian ceramic industry and, with the supply of Lioli Ceramica, BMR has been able to assert the added value of a made in Italy technology able to satisfy the most peculiar requests in the field of finishes. ◆



La transformación digital de la industria cerámica



La transformación digital es actualmente uno de los temas principales en el desarrollo de la fabricación industrial. La digitalización abre nuevos campos de acción y posibilita nuevos servicios para el cliente.

La digitalización ofrece formas innovadoras -de varias maneras- para más control, eficiencia y seguridad en los procesos de producción, también de la industria cerámica. Las tecnologías de la información y la comunicación actuales están creando soluciones que, mucho más allá del nivel anterior, facilitan a los operadores de forma inmediata información de una amplia gama de fuentes de datos. Y no importa en qué parte del mundo estén.

Con **KBIS**, Keller HCW GmbH presentará en Munich una nueva plataforma digital de información de manejo intuitivo, con la cual las enormes cantidades de datos de las diversas fuentes estarán disponibles para los usuarios de manera orientada a la demanda: Un servicio que alcanza dimensiones completamente nuevas.

Y con **KPES**, Keller HCW GmbH también introducirá el mundo digital en la industria cerámica. En tiempo real se podrá comparar la información del sitio de construcción con la información de la gestión del proyecto y hacerla transparente: Es la eficiencia en números, datos y hechos.

El stand de Keller en **Ceramitec** es el 309/410 del pabellón B5.

The digital transformation of the brick and tile industry

The digital transformation is currently one of the main topics in the development of industrial manufacturing. Digitization opens up new fields of action and makes new services possible for the customer. Also for the brick and tile industry, digitization offers innovative ways of making the production process more controlled, efficient and secure in various ways. Today's information and communication technology creates solutions that, far beyond the previous level, provide the operator with information from a wide range of data sources immediately and independently of the location.

With **KBIS**, Keller HCW GmbH will present in Munich a new digital information platform, with which the enormous amounts of data from the various sources will be made available to the user in a demand-oriented and intuitive manner. This is service in completely new dimensions.

With **KPES**, Keller HCW GmbH will also bring the digital world into the brick and tile industry: information from the construction site and information from project management will be compared and made transparent in real time. That's efficiency in numbers, data, facts.

Keller's booth at the **Ceramitec**: 309/410 in hall B5. ♦

KELLER
Creating Solutions

Máquinas, procesos de producción y fábricas completas para la industria cerámica estructural y tecnología de automatización, instrumentos de medición, control y regulación y tecnología plástica.

KELLER HCW GmbH

Carl-Keller-Str. 2-10

D-49479 Ibbenbüren-Laggenbeck (Alemania)

Tel. +49 5451-85-0 - Fax +49 5451-85-310

E-mail: info@keller.de - www.keller.de

Eriez Europe and Ecohog unite to clean-up the mobile eddy current market

Increasing maintenance costs and strict health and safety regulations faced by companies in the recycling and waste industry has resulted in a greater demand for more transportable separation equipment, which offers on-site flexibility and reduces risk hazards.

In response, **Eriez Europe** has collaborated with equipment manufacturer Ecohog based in Co. Tyrone, Northern Ireland to provide an innovative, adaptable and robust solution in order to meet customer demand, legislation and variable changes in the market place.

In 2015, Ecohog carried out systematic market research into Eddy Current Separation (ECS) units to combine with their mobile Hogmag unit to produce a mobile separation machine. With over 20 years' experience manufacturing ECS units delivering high performance rates; Eriez Europe was the ideal collaboration for providing the magnetic systems for the HogMag Metal Separation unit.

The HogMag unit incorporates an Eriez magnetic drum separator in order to remove ferrous metals such as iron and steel from all waste streams and prevent potential damage to downstream equipment. Additionally, the Eriez premium **RevX-E ST22 ECS unit**, which has been refined through Eriez' extensive research, development and material testing, offers unprecedented recovery of non-ferrous metals such as aluminium, copper and brass as small as 1-2 mm.

Gareth Meese, Sales Director at Eriez Europe commented: "Our collaboration with Ecohog has been highly rewarding, not only in terms of sale volumes and customer feedback but in recognising the diversity of ECS machines. Eriez Europe looks forward to continuing the successful collaboration with Ecohog and developing our products to meet the growing demands of the recycling market."

Tracey McNally, Managing Director at Ecohog commented, "Ecohog are delighted with our continued collaboration with Eriez Europe, in our view they are the market leader in terms of their magnetic separators, technical support and customer care. Our ongoing relationship has seen us provide Eriez eddy currents and other magnetic separators into a range of recycling applications globally including wood waste,

incinerator ash, landfill reclaim, MRF glass clean up and automotive frag. We have exciting plans for us both in terms of the development of a new mobile product for the scrap metal sector; this will build on the outstanding success of our THM ECS-2000 introduced to the market last year."

Eriez Magnetics is recognized as world authority in separation technologies. The company's magnetic lift and separation, metal detection, materials feeding, screening, conveying and controlling equipment have application in the process, metalworking, packaging, plastics, rubber, recycling, mining, aggregate and textile industries. Eriez manufactures and markets these products through 12 international facilities located on six continents. Eriez Europe Ltd. has its head office in Caerphilly, South Wales, UK. ♦



Reunión del Comité Técnico Europeo de expertos en materia de deslizamiento

El **Instituto de Tecnología Cerámica (ITC)** congregó el 15 de febrero a los más destacados expertos europeos en materia de resistencia al deslizamiento. La reunión del grupo de trabajo del **Comité Técnico Europeo CEN/TC339 AHG2** se llevó a cabo en las instalaciones del instituto ubicado en la **Universitat Jaume I (UJI)** de Castellón. Los miembros de dicho comité debatieron para avanzar en el desarrollo del método de ensayo con el péndulo de fricción, que se incluirá en la futura norma europea de ensayos de deslizamiento. ♦

