

Client: Toray
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logue video output and termination and temperature readout for the provided temperature sensor that monitors internal camera housing temperature during operation. Ethernet or optical fibre outputs are also available as options.

Furnace Camera HD Systems can be configured with a variety of lens options, including zoom capability. Accessories include an automatic retract system that pulls the camera back on loss of cooling, preventing over-temperature damage and a monitoring station to provide a local point of connection and status monitoring of coolant flow, purge air pressure and electrical connections.

Reader Reply No.81

Iron ore market intelligence

CRU has introduced an enhanced 'Iron Ore Market Service' and unveiled its 'Iron Ore Long-Term Outlook'. These two services, which can be subscribed to individually or together, provide clients with a comprehensive examination of the iron ore industry's medium-term and long-term outlooks.

The established Iron Ore Market service has been improved to provide rigorous analysis and forecasts for iron ore fines, lump, pellet and pellet feed through the next five years, together with CRU's 10 year views. The service has been upgraded to provide four fully updated reports per year (one per quarter), as well as updated price forecasts for the four quarters ahead every month online (beginning in October). A 12 month subscription costs £11,550.



The Iron Ore Long-Term Outlook service will analyse in detail the industry's long term future to 2035. Forecasts for supply, demand and prices for all major countries and regions are complemented by in-depth analysis of all key issues. Also provided are data breakdowns for over 250 key projects

in Australia, Brazil, Africa, India and China, with detailed Project Profiles for a selection of the most influential to long-run supply. Subscribers receive the main report in hard copy and online, with all Project Profiles and supporting data online in Excel. A 12 month subscription is priced at £9870.

Reader Reply No.82

Molten metal splash protection fabric



Toray Textiles Europe Ltd

Recently introduced by Toray Textiles Europe Ltd is an innovative heat- and flame-resistant fabric with good durability, offering enhanced protection against large and small molten metal splashes. ThermGuard Molten Repel is a high performance, durable fabric that has been developed for workers in foundries and in large, heavy industrial manufacturing plants where the processes of smelting, casting, welding, cutting and grinding are common. Because of the combined technology of Teflon and metaaramid, the fabric provides non-stick and heat and flame resistance properties. Molten metal splashes are simply repelled from the surface rather than sticking, providing exceptional levels of 'shedding' and durability.



ThermGuard Molten Repel is a high performance, durable fabric, providing protection against large and small molten metal splashes.

The fabric has been developed in collaboration with users to ensure quality and comfort are coupled with the performance requirements of ISO 11612:2008 – (A1, A2, B2, C2, D3 & E3) and ISO 11611:2007 – Class 2. It also conforms to EN ISO 6530:2005

for chemical splash protection and add and alkali liquid penetration and meets the requirements of EN 61482-1-2:2007 – Class 2, protecting against the thermal hazards of an electric arc.

Reader Reply No.83

Electric motor fault detection

AnomAlert, the latest addition to GE's Bentley Nevada condition monitoring product line uses motor voltage and current spectral analysis to provide predictive maintenance information for three-phase AC electric motors. Without the need for conventional monitoring sensors, the device will detect mechanical and electrical anomalies in motor and machine train operation. Detailed information is presented by the standard one or System 1 software, which provides users with an early warning of mechanical and electrical anomalies, recommendations for maintenance actions and a range of diagnostic analysis tools to verify and correct problems.



Typical faults that can be identified include insulation breakdown, electrical supply problems, internal electrical problems, mechanical looseness, imbalance, misalignment and bearing deterioration. The modelling supports multi-operational modes of the motor, enabling process or load induced anomalies to be categorised and identified correctly. AnomAlert also provides a wide range of electrical parameter measurements, including real and reactive power, allowing energy consumption assessments and operational efficiency to be quantified.

There is no need for long cable runs or for separate sensors to be fitted to the motor or load. Monitoring data is presented in reports with no need for skilled analysts. Diagnostic information can also be integrated with plant maintenance systems. The combination of anomaly detection and modelling and the System 1 suite of diagnostic tools enables this solution to deliver high confidence alarms, with good supporting evidence available to the analyst.

Reader Reply No.84

Portable gas detection

Designed for ease of use and maximum protection against hazardous working conditions, Linde Gases' G-TECTA range of portable gas detection instruments is available in single and multi-gas versions. All models are manufactured in bright red with a reflective label design to deliver high visibility when worn, ensuring compliance and safety. The multi-gas detectors, which can be configured to detect up to 26 different gases, also have upward facing visual displays, providing the user with enhanced at-a-glance awareness of gas levels. Additionally, all detectors are equipped with alarm systems and a vibration action so the user is also given audible and physical warnings of potentially noxious gases or oxygen displacement.

G-TECTA sensor technology ensures reliability and high quality gas readings by providing immediate warning indicators in the case of a sensor functionality issue. The range is certified to meet all global safety standards including IECEx, ATEX, UL and CSA intrinsically safe approvals and international performance safety standards.

Reader Reply No.85

Product identification

York, UK-based Logopak International has introduced a laser-based print-and-apply labelling machine, providing high durability for tough environments such as steelmaking. The laser replaces conventional thermal transfer printers employed in print-and-apply labelling and allows steel substrates to be indelibly printed with a unique code. Large labels, up to A3, can also be provided economically via a lens system.



Logopak laser print-and-apply labelling machine.

Installed on a Logopak 110 label applicator in place of a thermal printer, the Logomatic laser is a compact 20W industrial unit, measuring 79mm x 106mm x 408mm and is able to print high resolution graphics, bar codes and text.

Reader Reply No.86