

PRODUCTS & SERVICES

Industrial Mining Solutions

DOCKPRO Southern Africa supplies turnkey flotation solutions, such as pump platforms, pen stock access walkways and pontoons to the mining industry. The company's systems are modular, easy to transport, easy to assemble and easy to reconfigure or expand. The cubes are constructed from virgin high-density polyethylene resin using a highly advanced mould design, developed in Canada, which produces a highly durable and rigid cube, providing stability and strength to cope with high traffic volumes. They are resistant to impact, to the adverse effects of water and the sun, and a wide range of chemicals. The main safety features are dock stability and a high load capacity of 68 kg per cube or 272 kg/m².

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Mining Simulators



THOROUGHTEC Simulation will demonstrate its engineering prowess in advanced heavy equipment mining simulation at the Asia Pacific International Mining Exhibition (Aimex) in Sydney, in August. Visitors will be able to test drive some of ThoroughTec's best-sell-

ing and new-generation advanced machines. The simulator cabs on show will demonstrate Cybermine's ability to simulate complex surface and underground mining equipment accurately and to extremely high levels of fidelity. ThoroughTec's mining simulators encompass all aspects of both surface and underground mining operations for hard and soft rock and are capable of replicating a mine's entire working fleet from load and haul through to complex production and ancillary equipment.

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Financial Intelligence

FUTURESENSE has developed a financial intelligence solution for diversified mining group African Rainbow Minerals (ARM). The Oracle Hyperion Strategic Finance (HSF) solution will provide vital financial information and the ability to compare various development projects currently in progress at ARM, as the group seeks to expand its operations. Until recently, business analysis was conducted with the support of independent financial models; however, this was a time consuming and error-prone process. The complexity of the models is considerable and encompasses business rules and variables such as income tax, royalties, carbon tax, funding and valuation calculations. However, Futuresense says

that, with considerable groundwork invested in the models, it takes only days to apply a suitable model to any new operation to evaluate its financial and comparative feasibility. Further, the company notes that the HSF delivers rapid scenario simulations and sensitivities across all business units, while providing the ability to quickly view. It improves executive decision-making.

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Super Terrain Tyres



MICHELIN's new X-Super Terrain+ tyre provides "exceptional" traction that will benefit articulated and rigid-frame dump trucks that operate in difficult conditions, such as quarries and mines. The tyre's durability, traction and manoeuvrability in such working conditions are crucial. The Michelin X-Super Terrain+ delivers enhanced safety owing to its reinforced sidewalls. The tyre also features a lateral scuff rib. Michelin states that the new tyre also leads to improved profitability, owing to its improved resistance to cuts and scrapes and its more

durable casing, which, combined with a more resistant tread compound, increases the tyre's longevity. The Michelin X-Super Terrain+ integrates C² technology, which consists of a new-generation casing that reduces heat build-up on the shoulders when the tyre is in use, thereby increasing tyre life, owing to the use of thicker, corrosion-resistant cables.

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Floodlights

HELLA Australia will unveil its new HypaLume light-emitting diode (LED) floodlight at the Asia Pacific International Mining Exhibition (Aimex) in Sydney, in August. The lights are suitable for both direct current and alternating current applications and have been designed to withstand demanding outdoor and industrial requirements. Producing more than 20 000 lumens by using 56 high-power colour-matched LEDs, coupled with three specialised optical distributions, the Hella HypaLume consumes far less power compared with conventional industrial lighting.

It uses 240 W at 24 V of direct current, translating to a luminous efficiency of close to 100 lumens per watt, which means it provides similar light levels to a 400 W metal halide light fitting.

The unit's driver board and housing have been specially designed to use advanced thermal management, which draws heat

away from the LEDs to ensure a long operating life.

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Fire Retardant Clothing



WORKWEAR Group will showcase a new range of fire retardant (FR) workwear that offers mine, oil, gas and electrical workers protection from arc flash, flash fire and heat stress, at the Asia Pacific International Mining Exhibition (Aimex) in Sydney, in August. The Hard Yakka Protect garments feature Tecgen Select inherent FR fabric technology. The range includes high visibility shirts, coveralls and pants. While cotton-based workwear could ignite and continue burning during an arc flash or flash fire, Hard Yakka Protect garments are self-extinguishing. The company says independent laboratory testing found that the Hard Yakka Protect shirts were, on average, 25% lighter and the pants 14% lighter than competitive FR fabric garments.

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