

# World Mining Equipment

June 2003 Vol 27 No.5

www.wme.com



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International Partner Journal



Sydney 9-12 September 2003





**I CAN SEE CLEARLY:** Caterpillar's G-Series loaders benefit from good visibility, thanks to simulation technology designs even before the machines were built

nacy and reliability in a very portable package. Featuring the latest Bluetooth technology, the GS20 offers cable-free operation and wireless accessories such as a real-time correction system. With options for beacon and satellite differential sources, the system offers sub-metre accuracy in real-time and can achieve centimetre accuracy by using post-processing techniques. NavCom Technology (part of John Deere) says its RT-series of high-performance Real Time Kinematic dual frequency GPS receivers are supported by Carlson's SurvCE and Tsunami field collection data packages. According to NavCom, its RTK GPS sensors provide the highest level of accuracy and response from dual-frequency GPS receivers. By integrating these with the Carlson data collection software, customers have a more versatile tool to meet on-site requirements.

California-based Thales Navigation also says it is offering a high-performance, dual-frequency RTK GPS package and that its Z-Xtreme system is proving its worth in a number of mapping applications. Using this rival centimetre-level positioning system is reducing the time required for mapping projects in a number of applications and Thales is confident that its technology can provide major cost benefits to mining customers.

There is a wide array of new software around and for an even bigger range of applications. The latest version of the Delpat rockdrilling and blasting analysis software from Dogus Construction is said to be versatile, comprehensive and user-

friendly. The firm claims this advanced, Windows-based program can be learned in minutes using its menus and command buttons, allowing flexible exporting of inputs/outputs, as well as importing of input data files. Graphs are generated automatically for report outputs and data filtering and the program eliminates the need for complex blast calculations. Using Delpat can minimise design time and maximise rock blast cost-effectiveness and the program comes with support for no less than seven languages, English, French, German, Italian, Portuguese, Spanish and Turkish, as well as support for any currency. Major features include rock fragmentation prediction, blast designer, drill cost analysis, delay analyst in holes, pattern designer, project organisation, drill & blast report database, data-result comparison and daily control forms. Other features include a choice of measurement types, the ability to show geometrical hole and pattern views in 2D or 3D and fast comparison of input and output files. Free upgrades for one year and six months technical support also come as part of the package.

One of the biggest players in the mining software sector, Gemcom Software International, is now offering its GEMS package in an improved 5.03 version. This comes with some 70 upgrades over the 5.0 system, such as faster volumetrics, more robust solid and surface clipping tools and improved solid and surface creation. However, the firm says that an even higher performance 5.1 program is coming soon. Improvements for GEMS 5.1 will include a

Sandvik Rock Processing says its intelligent ASR Hydrocone crusher regulation system will maximise product quality and operating efficiency, whilst minimising downtime. This system provides information on a crusher's operating condition from a colour touch monitor, can be adapted to match the application and features an advanced sensor to measure the pressure at which the crusher operates. Other features include simplified calibration and sufficient capacity for up to 20 different crushing programs.

Starting rockdrilling operations more efficiently with software. Gemcom's Command 920, Command 930 and Command 940 systems can reduce inefficiency as they allow weighbridge management, as well as management. With the Windows-based software, users can offer high versatility access capabilities. Command 910 weighing instrument cost-effective, reliable features including serial ports and on the 930 and 940.

better underground operation, the use of grade elements, a BC block cave function in the drillhole case. In addition, the coming soon too efficient data processing application of core application, as well as. Data capture with most data on a single form. Other improved reporting, stockpile and cut revised bench graphs improved graph to

**In-sight**  
Visualisation system forward with the system by California Panoram Tecl already well proven