

# DYNO<sup>®</sup>

## Dyno Nobel

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**digishot<sup>®</sup> plus.4G**

### **REDUCE OVERALL COSTS AND INCREASE PRODUCTIVITY WITH DIGISHOT PLUS 4G** *Dyno Nobel's Game-Changing Electronic Initiation System*

SALT LAKE CITY, UT—*Dyno Nobel*, a global leader in commercial explosives, recently launched DigiShot Plus 4G electronic initiation system, the newest and most sophisticated addition to the Dyno Nobel electronic line. This system, developed by Dyno Nobel's joint venture partner DetNet<sup>®</sup>, is designed to help reduce overall costs and increase productivity by reducing blasting delays and introducing programming speeds seven times faster than existing systems.

Electronic initiation first started coming to market in the 1980s, and today the technology is widely used and accepted. Using digital communication between an electronic blasting device and detonators, the technology delivers tangible value with benefits ranging from improved blasting efficiency to enhanced safety.

"Our system offers remarkable capabilities designed to prevent blast delays and speed up blast deployment safely," says Sandy Tavelli, Dyno Nobel Global Product Manager.

The DigiShot Plus 4G System features a fast and simple deployment method, an automatic check to ensure the correct number of detonators per channel, energy monitoring right up to the point of blasting, and automatic detection and testing of detonators.

This system has two robust downline wires with two deployment methods designed to improve safety by reducing time spent on the bench. The wire and detonator are packaged as coils or with spools giving customers quick deployment options. Along with deployment options there are three types of wires available: standard, deep hole and XTM (extreme conditions) making sure the customer's needs are met.

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Groundbreaking Performance

The DigiShot Plus 4G Detonator contains the new 4G chip and is fully programmable with fifteen times more memory for storing and tracking unique identification numbers, GPS coordinates, and time and date of blasting.

The Commander is a multi-purpose device functioning as an all-in-one bench box, repeater and the blast box for surface applications. There are four channels on each Commander that can initiate up to 400 detonators, giving total capacity of 1,600 detonators per Commander, and up to 10 Commanders can be used on a bench initiating up to 16,000 detonators. This connection also allows for fast and simple tagging and testing because the Commander is in constant communication with the detonator and the CE4 Tagger. The CE4 Tagger gives the firing command with encrypted BlastCards.

The CE4 Tagger is a one-of-a-kind handheld tool that can write the delay time to the detonator during tagging and allows the user to wirelessly control the blast. It not only aids in detonator troubleshooting, it is also able to record the GPS location of the detonator. What's more, it tests leakage, troubleshoots the bench, can test up to 400 detonators at a time, and has excellent battery management technology.

Finally, the system offers a tablet as an optional control instrument to connect wirelessly to the Commander. Featuring a full-colour graphic user interface, information is bigger and more readable. Additional benefits include the ability to download the full detonator list and access the full blast design with a helicopter view and blast plan simulation. Password-protected BlastCards are also available to both wirelessly interact with the Commander and store encrypted blast commands and RF (remote firing) settings.

For underground application, DigiShot Plus 4G is compatible with Dyno Nobel's BlastWeb underground networking system. BlastWeb has been revolutionary in underground mining with a sophisticated software system that monitors up to 24 Blast Control Units connected to the centralized blasting network 24/7. This provides the ability to report network status to the user on surface through real time monitoring of the installed network.

"BlastWeb has become the solution of choice for underground mines that are serious about safety and looking for an electronic detonator-based centralized blasting system that is easy to use, maintain and expand as the mine's production requirements expand," says Campbell Robertson, Dyno Nobel Underground Advanced Products Application Manager.

Top benefits of DigiShot Plus 4G include improved blasting efficiency, lower vibration levels, improved excavation profiles and wall stability, as well as increased loader productivity and enhanced safety. Dyno Nobel continues to deliver groundbreaking performance through practical innovation to solve the customer's pain points of today.

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About Dyno Nobel:

*Dyno Nobel* is a subsidiary of Incitec Pivot Limited ABN 42 004 080 264 (ASX:IPL). Dyno Nobel has customers in the mining, quarry, construction, pipeline and geophysical exploration industries. The company operates in Australia, Canada, the United States, Africa, Indonesia, Mexico, South America, Papua New Guinea and Turkey. Dyno Nobel manufactures a full line of commercial explosives, including ammonium nitrate, bulk explosives, packaged emulsions, dynamite, detonators (electric, nonelectric and electronic), cast boosters, and detonating cord, as well as surface and underground loading systems and Portable Modular Emulsion Plants. The company also offers services, including blast design, shot loading, shot service, vibration control, airblast, flyrock and NOx reduction, through DynoConsult, a specialist consulting division of Dyno Nobel. Please visit [www.dynonobel.com](http://www.dynonobel.com) for more information.

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