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Rockmore's Vector Rod system advances drilling


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Official US Release at MINExpo 2016

Rockmore International officially unveiled its new Vector Rod System to the North American market at the MINExpo 2016 exhibition in Las Vegas, NV, September 2016. Conceived to be a major breakthrough in improving performance and service life of extension drill tools in surface and

underground percussive drilling applications, the new line of



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drill tools promises tremendous advantages in productivity and reliability.

After several years of intense research and development followed up with monitored field tests in various ground conditions, Rockmore engineers developed a new thread design, XT, for the Vector Rod System. The new XT design incorporates revolutionary new guided cylindrical contact zones between the male and female thread joints. These guided surface features are located in the nose and rear of the thread connections and serve various benefits and improvements over traditional threads.

The XT thread profile is based on the traditional trapezoidal “T” thread design and is therefore compatible with industry standard thread types such as T38, T45 and T51. Thus, one can interchange and connect standard “T” style threaded components with the new XT thread, although the guiding advantages aforementioned would be neglected. For example, a T45 threaded bit or shank adapter can be connected to a XT45 threaded rod with full compatibility.

In order to achieve the full engineered benefits of the XT thread, however, one must consider the drill string as a system of connections between the shank adapter, rods, and the bit in extension drilling applications. Thus, the XT thread design employed in the Vector Rod System enables many performance and reliability benefits leading to major overall cost savings in the drilling cycle.

“We specifically targeted to increase thread service life while enhancing drilling performance in extension drilling applications,” says Pejman Eghdami, Executive Vice President of Rockmore International, in explaining the goal of developing the Vector Rod System. The dual cylindrical contact zones in the nose and rear of the XT threads significantly increase the lateral support between thread joints and stabilize the



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DSC Dredge, LLC, a world leader in customized dredging solutions, is hosting its 13th annual Dreducation® Class, taught by industry expert Charles Johnson, on Wednesday, May 17, from 8 a.m. to 5 p.m. in New Orleans, Louisiana. This class is industry-specific but not brand-specific, and is open to the general public. The class has been [...]

connections with more rigidity to provide better energy transfer. The enhanced thread support and geometry extends thread life and increases the overall component service life of the shank adapters, rods, and bits with XT threads that comprise the Vector Rod System.

Because the XT thread guide feature improves thread alignment, the impact duration when “rattling” rods, as required in uncoupling connections, is minimized. This leads to lower wasted energy transmission, cooler couplings on rods, and ultimately to longer rod life. Thread grease is also better retained on the thread pitches resulting from the new XT geometry, further increasing thread life in all XT components.

Another key advantage of this rod system over traditional threaded components is providing straighter holes and minimizing its deviation, so inherently critical in modern drill and blast techniques. The guided XT thread feature increases the rigidity and stability of the connections between the shank adapters, rods, and bits so significantly that overall rod bending is minimized and hole straightness improved. In fact, this improvement allows for larger and deeper blast holes to be achieved using existing rod diameters, but only by converting to XT threaded components. In underground mining long hole and production applications where up to thirty rod connections are common, hole deviation can be reduced substantially by using Vector Rods.

Mr. Eghdami comments that “As a major breakthrough for extension drilling systems, we have significantly improved drilling productivity and increased drill string lifetime by introducing new design features in the XT thread configuration. And just as important, the new XT design is fully reverse compatible with industry standard “T” style threads, enabling the Vector Rod System to be truly remarkable, yet a practical choice for premium drilling tools.”

The Vector Rod System is offered in multiple configurations of button bits, MF rods, and shank adapters. These drill string components are available in XT38, XT45, XT51 and XT60 thread types, designed to improve drilling productivity and reduce extension drilling operating costs in surface and underground percussive drilling.

Rockmore International is a global manufacturer of premium rock drilling tools serving the mining and construction percussive drilling sectors for over 65 years.

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