

Element Six showcases synthetic diamond capabilities at Bauma 2019

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Element Six brings live wear test demonstration to construction and mining event

Element Six, a world leader in supermaterials and part of the De Beers Group, is excited to announce that it will be showcasing a live wear test at the Bauma exhibition, which begins today in Munich. Using a grinding machine, Element Six will demonstrate the difference in wear rate between polycrystalline diamond (PCD) and tungsten carbide, to showcase the extreme properties of synthetic diamond and the areas in which it can outperform tungsten carbide. The test will highlight the potential of PCD as a material to enhance the performance of tools and machines in the construction and mining industries.

The findings from the test will echo Bauma's own key messages this year around efficiency and sustainability, by proving the ability to significantly improve the performance and safety of machinery. Synthetic diamond tools can exceed standard tungsten carbide tool life by 40 times for applications such as road milling, reducing downtime, fuel consumption and machining time, while improving quality and surface finish.

Speaking at Bauma, Markus Bening, Global Sales Director, Road, Mining & Wear Parts at Element Six, said: "Based on our experience developing synthetic diamond tools for road milling and roof bolting applications, we see huge opportunities for OEMs and toolmakers in construction and mining. Feedback from end-users in Sweden, where synthetic diamond is today's standard for road milling jobs, has consistently shown that the benefits can be game-changing in terms of increased machining speeds and productivity.

"As companies look to embrace forward-thinking concepts like smart drilling and smart mining, longer-lasting tools are at the forefront of their minds. At our booth, we'll be demonstrating how synthetic diamond and tungsten carbide tools can deliver incredible results in industries seeking the best performance." The Element Six booth is located in Hall C3, Booth 536. Attendees are invited to drop by to explore the opportunities available with synthetic diamond and tungsten carbide in construction and mining. Element Six is an expert in wear solutions, offering a range of manufacturing solutions designed around customer challenges. With in-house production capabilities in Germany to develop the highest quality synthetic

diamond and tungsten carbide materials, Element Six manages the end-to-end process to deliver successful results for customers, from concept to finished product.

Source: Element Six