

Did you know?



From factory...
Element Six cutters are the only ones designed and manufactured in-house from end-to-end. We have advanced manufacturing sites around the world, including a tungsten carbide facility in Burghaun, Germany.



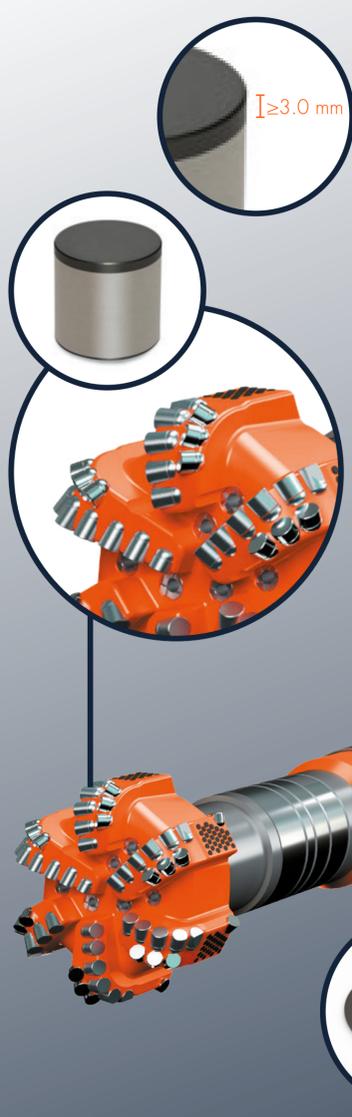
...to field

Our dedicated Oil & Gas team work closely with customers to understand how our products behave in the field. Extensive laboratory application tests and in-field performance analysis give us an industry leading understanding of the relationship between tool performance, materials micro-structure and design.

The first company capable of providing commercially successful cutters with PCD table thicknesses >3.0 mm

Element Six is a market leading diamond cutter manufacturer and provides thick diamond tables >3.0 mm (0.12"), delivering a combination of highest abrasion and impact resistance properties in single cutter structure.

Our erosion and corrosion-resistant substrates eliminate material loss in harsh drilling environments.



Our synthetic diamond thermal detectors withstand hostile environments

The downhole drilling environment is extremely harsh. Temperatures often exceed the limits for conventional materials (150 – 200 °C) and fluids used during drilling can be abrasive and corrosive. We have the ability to engineer detectors which can stand up to these tough environments.

Synthetic diamond solutions increase the life of critical components

With our capability to manufacture PCD disks up to 74 mm in diameter, we can provide unique, customer-specific solutions like PCD rotors and stators.

Conventional tungsten carbide products eventually wear, leading to costly repairs and maintenance. Synthetic diamond solutions increase the life of these critical components, reducing the overall cost of ownership.

The toughest drilling conditions demand the hardest material

Element Six can provide an extensive range of synthetic diamond solutions such as shaped diamond cutters, chisel and gage inserts and synthetic diamond grit.

PDC cutters
PDC premium, assured and gage cutters



Shaped diamond inserts



Carbide inserts



Diamond inserts



Grits
Premium coated and uncoated synthetic diamond grit

