

## CASE STUDY

### DIAQUIP COREDRILLS

**FROG**  
DIAMOND DRILLING LIMITED

#### OVERVIEW

The Company:	Frog DDL
Project:	Rochester Cathedral
Location:	Kent, England
Employees:	20
Industry:	Diamond Drilling & Sawing
Customers for:	15 years
Website:	<a href="http://www.frogdiamonddrilling.co.uk">www.frogdiamonddrilling.co.uk</a>

#### Diamond Core drilling at historic Rochester Cathedral

Frog Diamond Drilling Limited have over 40 years experience working in a whole range of sectors from Police Stations, Hospitals, and Retirement Homes to Stadiums, Leisure Centres and Power Stations.

Frog work with some of the most recognised names in the construction industry such as Buxton, Interserve, ISG and Kier Group to name a few.

#### THE CHALLENGE

Kent's Rochester Cathedral has been in existence since 604 AD. Frog Diamond Drilling Limited needed a Diamond Core drilling solution for making a large number of varying sized holes through the Purbeck stone floor in order to accommodate a new lighting and ventilation system that was being installed as part of a multi-million pound refurbishment.

Clearly, as an important historic building there were strict restrictions on noise, vibration, dust and working within opening times. Therefore supplying the correct product to complete the project quickly but without loss of segments was important. In addition Purbeck Stone is prone to chipping easily.





## THE SOLUTION



Diaquip were invited to provide a solution as the structural engineer in charge of the project insisted that all work carried out on the building should be non-percussive in order to preserve the structural integrity of the cathedral. The only method that was approved was diamond core drilling since this gives the advantages of minimum vibration and noise and also reduces dust and debris. Diaquip recommended the Aero FW Core Drill to install the new lighting and ventilation system, cutting holes of up to 205mm Ø. This was a bespoke diameter; manufactured to order with segments designed to eliminate chipping on the Purbeck Stone.

## THE RESULT

The Diaquip Aero FW is a wet coredrill, which has had worldwide success, particularly in hard aggregate and stone.

It has a medium bond, with a large quantity of large diamonds and low friction golf ball design, which means that there is greater water coverage at the cutting edge because slurry is cleared out faster. For the Rochester Cathedral project this meant less friction, therefore low vibration, reduced noise, but a clean and fast cut, without chipping the Purbeck Stone.

**"We are always happy to choose Diaquip for our Diamond Coredrills; top products and service are matched by their experience and expertise in the industry. Diaquip truly know their stuff."**

Indi Poonia, Operations Director – Frog Diamond Drilling Limited..