

CASE STUDY

QDM-150W ELITE COREDRILL MOTOR



OVERVIEW

The Company:	TASC Fire, Air & Accoustic
Project:	St Elphin's Park
Location:	Matlock, Derbyshire
Employees:	20+
Industry:	Passive Fire Solutions involving Concrete Drilling Drilling & Sawing
Customers for:	10 years
Website:	www.tascfire.co.uk

Diamond Coredrill Machinery Project

TASC Fire, Air & Acoustic Sealing Ltd are a leading passive fire solutions company and a fully accredited member of the FIRAS third party installers scheme established through Warrington Fire Research.

As a FIRAS registered contractor they specialise in the specification, recommendation and installation of high quality passive fire protection systems for which they are able to issue certificates of conformity upon job completion. FIRAS is the only recognised independent accreditation body for fire protection installers. It is a part of the building regulations Approved Document B, that third party accredited installers are used when providing fire protection to buildings.

THE CHALLENGE

As part of a multi million pound development, TASC were commissioned by Balfour Beatty to provide passive fire solutions at St Elphin's Park retirement village, which included precision drilling, cutting and chasing of stone, reinforced concrete and masonry. TASC used innovative diamond drilling techniques to accommodate the passive fire system throughout.

Set within 14-acres of landscaped grounds, located within the Derbyshire Dales and on the border of the Peak District National Park, with Matlock and Bakewell close by, the centrepiece building is St Elphin's House which started life as a private residence, becoming an exclusive spa in the 19th century, and latterly, a well-known girls' boarding school, St Elphin's Girls School. This Victorian schoolhouse has been restored stone by stone so that now it houses the Audley Club, with its luxury health club, fitness pool, Bistro Bar and the Orangery Restaurant.

Surrounding the Victorian grandeur of St Elphin's House, and built to echo the appeal of a traditional Derbyshire hamlet, are attractively designed retirement properties including apartments, cottages and mews cottages. Clearly the work undertaken had to be of a very high standard, with safety, noise, vibration and dust all being factored in line with the surroundings and existing building structure. Due to the tight deadlines, reliability of the equipment used was also a consideration in avoiding downtime.



THE SOLUTION



TASC used 14 Diaquip QDM-150's and 3 QDM-350's drill motors. In the past, TASC used the WEKA DK17 and DK32 Drill Motors, but had experienced reliability issues. For such a large scale and prestigious project TASC decided to take advantage of the QDM-150 and 350's superior speed, power and additional features such as the Intelligent Power Management System that the QDM-150 Elite offers, which worked well on reinforced concrete with rebar.

The project meant that little or no downtime was important. Each QDM-150 is backed by Diaquip's Max Uptime™ Service. Each QDM Drill Motor is backed up by 2 years warranty on all DO Machinery and 1 year on all drill rigs with a lifetime ownership guarantee for a next working day replacement loan drill.

THE RESULT

Diamond drilling is a process used mainly by the professional industrial and construction sectors and is widely regarded as the benchmark method for drilling holes. By using a powerful Drill motor with a diamond drill bit it is possible to drill thorough most materials, quickly, with less vibration, noise and dust.

The use of diamond drill bits makes cutting more accurate, and as a result carried out to a higher standard. Increased accuracy also means a reduced risk of inadvertently causing structural damage. As an added bonus, more accurate drilling means less debris is produced, which can help save both time and disposal costs.

"It is crucial that TASC use the best and most reliable equipment in the job that we do. We have found the QDM-150 and QDM-350 Drill Motors fast, reliable, powerful and very robust."

Darren Styring – TASC Fire Air & Acoustic Sealing Ltd.