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CONCRETE CUTTER



Journal of the
DRILLING & SAWING ASSOCIATION

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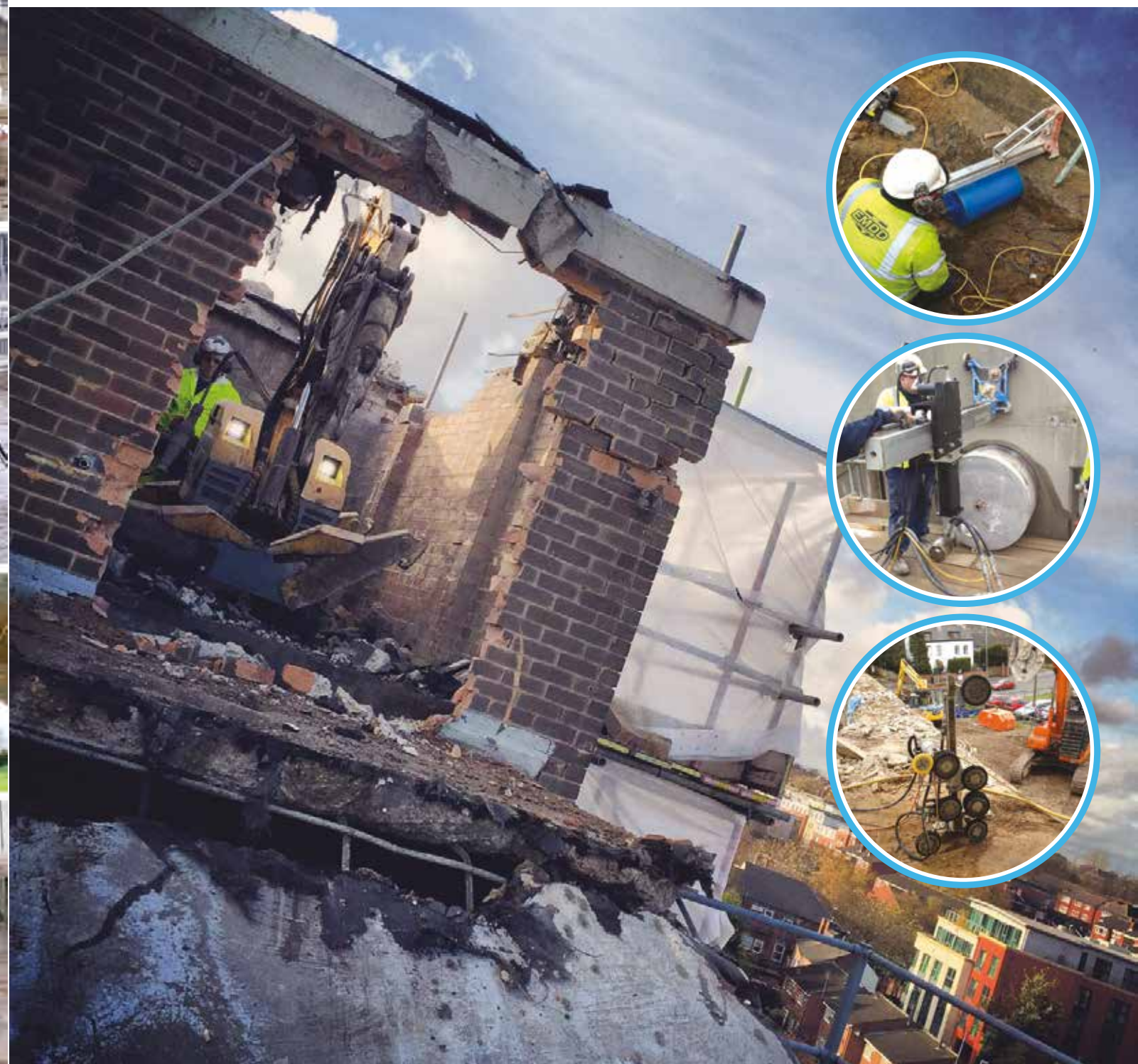
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Zircon MetalliScanner® MT 6 Solves Rebar Dilemma

Zircon® first assisted the construction crew building the Devil's Slide Tunnel on the scenic California's Pacific Coast Highway 1, U.S.A. on January 31, 2011.

The crew tasked to install the ventilation system used the Zircon MetalliScanner® MT 6 metal detector to locate rebar in the ceilings of the mechanical rooms. Because the environment consisted of multiple layers of large 1 in. rebar spaced in very small 6 in. grid patterns (effectively a steel wall with concrete filler), the challenge was being able to locate a hole where the crew could install fasteners and, ultimately, avoid the rebar.

Reaching out to whom they considered the experts, Zircon provided training to the crew on how to use the MT 6 with the focus on finding areas with no rebar quickly, by manually recalibrating the tool over the smallest metal indications. This approach worked extremely well such that when Zircon returned 13 months later, the installation systems were successfully installed in the 10 mechanical rooms that connect the two tunnels. Their confirmed success rate in avoiding rebar utilizing this training method was over 99%.

Additional work to install 32 overhead jet-powered ventilation fans (16 in each tunnel) was also required in the main section of the tunnels necessitating the installation of special fasteners 4.5 in. deep into the concrete. This, again, required the installer to avoid the rebar. Feedback from site personnel who used the MT 6 was that the metal locator allowed them to operate with a high degree of confidence that they would miss the rebar when drilling into the concrete.



Ten mechanical rooms connect north and south bound tunnels.



The use of the Zircon dedicated metal finder is particularly essential since CalTrans, the state agency responsible for highway, bridge, and rail transportation planning, construction, and maintenance mandates workers must scan before penetrating concrete in attempts to avoid rebar. The accuracy and flexibility of the Zircon MetalliScanner® MT 6, paired with the ability to not be limited to a single plane horizontal scanning motion as found with other products, saves significant time and money by supporting safety mandates, deadlines, and budget requirements to be met.

The first vehicles to travel through the newly finished tunnels occurred on March 26, 2013.

Jet fans to move airflow through tunnels.

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Diamond and water – a perfect combination

A contractor's experience in providing expertise in both diamond cutting and hydro demolition techniques proved invaluable in a recent project.

Hydro Pumps Ltd was appointed by main contractor Volkerstevin to upgrade a jetty in Portsmouth. The main structure comprised five sections all adjoined together to make one very long jetty. Two of the sections were built in the 1920s with a further one added in the 1950s, which were then joined together with two sections built in the 1970s.



The project involved three main phases. Firstly, the complete removal of the 1920s section using a combination of wire sawing, floor sawing and hydro demolition. Secondly, the strengthening of the 1970s section using wire sawing, floor sawing, core drilling and hydro demolition techniques. And finally using a track saw to chase the underside of 1970s section for the installation of cathodic protection. The work was split into two phases on both the 1970s and 1920s sections. Each involved the requirement to separate the jetty from the quay wall by wire sawing, track and floor sawing and stitch drilling as well as drilling core holes for the lifting chains and strops and employing hydro demolition to expose the rebar for reconstruction.

All coring works were carried out using Hilti DD 350 single-phase rigs and DD500 3 phase rigs. Core diameters ranged from 60 mm for wire insertion holes, 100 -150 mm for stitch drilling and lifting holes and 300 - 450 mm for 3-D survey holes and vibration monitors. Depth of cores ranged from 350 mm – 800 mm. In total some 700 plus holes have been cored to date using core bits supplied from Tyrolit and Diaquip.

Floor sawing was carried out using Tyrolit 3 phase electric floor saws with Tyrolit and Diaquip floor saw blades. Some 300 plus linear metres were cut at an average depth of up to 250 mm. Wire sawing of the quay wall, separation between phases and block removal was done using Tyrolit WX14 and WX15 high frequency wire saws along with the Edil 600 high frequency quarry saw. Tyrolit, Diaquip and Dimu supplied wire used for cutting. Some 400 linear metres of concrete has been cut to date through 600 – 1000 mm depth of concrete. This has allowed blocks from 4 – 14.5 tons to be lifted out.

Track saw chasing to the underside of the jetty employed Tyrolit high frequency WX15 and WS12-17 track saws, with blades supplied by Tyrolit with 6 mm wide segments. Some 3000 linear metres have been completed to date, 6 mm wide to a depth of 40 mm.

Hydro demolition was used where the rebar was required to tie into new concrete using couplers to enable reconstruction of the jetty deck

The concrete specification in the two sections was very different. The 1920s concrete had the old type of round rebar up to 1 inch in diameter, the concrete itself being fairly soft but very abrasive on the diamonds and bond. The 1970s concrete had a modern standard rebar 16 – 32 mm diameter with flint aggregate. This was much harder and required a different diamond and bond.

Due to the jetty being open to the harbour entrance and being tidal during some of the works, the weather did cause a few problems when the temperature dropped and the high winds came in causing small time delays. This was overcome with a few extra shifts to bring the works back on schedule. Due to the works being over water, selection of the equipment meant that all diamond cutting was carried out using only electrical fed equipment. No hydraulic units were used in case of leakage.

Some 500 tons of material have been removed to date on phase 1 of the works, which were completed on schedule and within budget. There was complete co-ordination between all those trades involved working together on this large project. Phase 2 is about to commence shortly, continuing with further diamond cutting works.

Hydro Pumps was established in 2001 initially to carry out hydro demolition and worked alongside sub contract diamond specialists. Around 2004 it was decided that bringing this element of the works into the company would prove beneficial to main contractors, as they would be able to deal with a single subcontractor who would have a mutual understanding of both techniques. The company has continued to carry out all diamond cutting works in house ever since, and became a member of the DSA in 2008.

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A big lift

A team of experts from D-Drill's South Wales office has helped to remove a 4.4 tonne concrete block during major works at Pembroke power station.

D-Drill was called in by main contractors Woodenbale 2000 Ltd, who were awarded the contract to open an existing sealed chamber at the cooling water pump house on the Pembroke power station.

With no access points, a block of concrete – 1650 mm in diameter – was to be removed to create the opening.

The sealed chamber was covered by pre-cast concrete lids, with stitch anchors and lifting eyes set in place with epoxy resin to stabilise the concrete during the drilling stages.

Tests were carried out to ensure the anchors and eyes would be able to withstand the full weight of the concrete section being removed and once, they 'passed', it was hooked up to an overhead gantry crane to support it.

That meant the D-Drill technicians could then carry out the stitch drilling utilising two WEKA DK 22 coring rigs during the process.

Gary Robinson – who worked with Richard Robb of D-Drill's South Wales office on the project, said: "We were delighted to work with Woodenbale 2000 on the project at Pembroke power station.

"We worked together to devise a solution to remove the 4.4 tonne concrete section and it proved to be a successful effort. The work to remove the section took five days. Once all of the 100 mm diameter holes had been drilled, it was lifted away by the crane."

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The Husqvarna DXR 140 keeps contract on schedule

When contracted to remove the front entrance, staircases, landings and walls of a concrete framed building Truecut Diamond Drilling Ltd chose to use the DXR 140. It's power to weight ratio and compact size made it a 'no brainer', states Managing Director, Colin Walker. Truecut specialise in various tasks contained within the diamond drilling and sawing industry and have built a reputation for providing a professional, reliable and prompt service. One such undertaking involved them sub-contracting on a project in Guildford where the main contractor was implementing a new layout on a concrete framed building. To suit the new building layout, their client wanted the front entrance of the building, 1st floor transfer slab and next 3 floor slabs removed back to the lift shafts, the stair case and landings removed, one complete wall removed to all floors with the other stair shear wall needing to be cut back.



Tight space and long reach

One particular restriction was the very tight staircase, this was no problem for the DXR 140, with its compact design and a width of only 77cm it can access many working locations. Its 360 degree arm and reach of 4.4m meant that Truecut were able to reach the top of the walls even whilst working on the very tight staircase.

With no noise restrictions the operator was able to use the full potential of the machines power and SB 152 hammer. Truecut were initially behind schedule due to lost time waiting for crash decks to be struck and cleared, however the breaking force of the DXR 140 enabled them to claw back some time and finish on time as planned.

Operative Mr Jamie Love who was using the DXR 140 and has a lot of experience with alternative machines of a similar size, was impressed by the DXR 140's punching power. Colin adds 'Over the 6 weeks the machine did not miss a beat and we have been pleased with its performance.'

6 weeks, 4 floor walls, beams and staircases demolished with ease thanks to the DXR 140.

Aftersales support from Husqvarna

Following completion of the job, Truecut's robot was dropped off at the Husqvarna Service Centre in Maidstone for a full service, which was completed in a few days, meaning their machine was ready for its next challenge. Husqvarna have 3 service centres in the UK each with experienced technicians that are always at your service. They provide aftersales support, servicing and training on all Husqvarna equipment.





One thing leads to another ...

What started as a call to a diamond cutting company to carry out 2 test cores to establish the depth of an unwanted piece of concrete foundation, evolved into some 6 months on site showcasing the complete repertoire of its concrete removal works.

Working for one of its demolition customers, East Midlands Diamond Drilling (EMDD) was initially asked to attend site to carry out a relevantly simple operation - drill two test cores on a concrete foundation that had been discovered as part of the bulk earth works. These showed that the concrete was located directly over a tunnel on the main train line into Birmingham's New Street station, which meant that traditional demolition breaking could not be used due to Network Rail stipulations on vibrations close to existing structures.

The first element of the works involved diamond floor sawing of the 300 mm thick slab, to allow the contractors to carry out its removal. As part of this visit EMDD was also employed to carry out track sawing to cut back old retaining walls located over the line of the train tunnel.

As the earthworks progressed after the initial visit to site, more and more hidden structures were exposed, all located over the sensitive train tunnel and all needing EMDD's expertise in diamond cutting to allow removal ahead of the placement of the new structure, whilst also working to the confines of the vibration stipulations.

The hidden structures once finally exposed were found to be up to 5 m high and 400 mm thick retaining walls, extending to 1 m in thickness at the base to foundation point. Through discussions with the company's management team and the contractors a combination of diamond wire sawing and concrete bursting was agreed to ensure all the reinforced concrete that needed to be removed could be done in such a way as to comply with the Network Rail vibration requirements. Working alongside the earthworks team, the 5 m high retaining walls were wire sawn into 1 m sections allowing them to be lifted out from the sensitive site area and broken up for disposal on another part of the site.

As the retaining walls were removed, further wire sawing techniques were employed to cut the foundation toe into pieces that could then be lifted and broken up in another area of site.

Once all of the retaining structures had been removed, another foundation structure was exposed, which was 17 m long, 3 m wide and 2 m deep, and would also require removal to facilitate the new works. It was decided given the site constraints that this section of concrete would be progressively core drilled and burst out, given its depth and location in relation to the train tunnel.

Once the concrete cutting works for the earthworks had been completed, EMDD was given further works to enable the new structure to tie-in to the retained sections of RC frames at the adjoining boundaries. Track sawing and brokking was employed to cut back previously broken slab edges to allow new works to tie in as specified by the structural engineers. Floor sawing and brokking was also carried out to form a new access staircase opening.



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Cutting it both ways

One of Ireland's most eminent sculptors has employed diamond cutting techniques alongside his more traditional methods to produce a magnificent monument to one of the country's greatest sports teams.

The Wrafters were monumental stone carvers of considerable repute in Tullamore, County Offaly in Ireland from the 1800's onwards. Barry Wrafter, from Ennis, County Clare, is now the only descendant still practicing stone carving. From an old master he learnt the traditional way of carving with a chisel and mallet, squaring rough stone and carving letters, a process that is still the same since the time of the Egyptians. However, with the coming of age of modern methods for cutting stone, Barry became intrigued with the very latest diamond cutting and drilling methods and how these methods would work for him.

When Barry won a national competition to produce a prestigious statue made to honour the Kilkenny hurling team, the most famous and successful in Irish history, this was his chance to try something never been done before. The statue, to be a prominent feature of Kilkenny itself, was to be the subject of a television program with worldwide media attention.

Kilkenny Limestone Quarries in Paulstown took over a year to find a suitable stone without any cracks in it. The stone was 4 m high by 1.7 m wide with a depth of 1.5 m and weighed a massive 20 tons. A specialist heavy lifting company in Scotland was required to extract it, with the use of a 20 tone forklift and a 120 ton crane, the stone was moved from the quarry to Barry's workshop in Dublin and with great difficulty was positioned upright.

Barry wanted to carve the statue using conventional diamond drilling and cutting equipment, a technique never been done before. With only very limited experience of diamond drilling, Barry needed the support of a diamond tool supplier with the best equipment and technical know how and on recommendation he decided to contact JKS UK Ltd.

Barry and Darren Aaron, Managing Director of JKS UK Ltd, discussed at length the best method to carve the statue and what equipment was needed. On JKS's recommendation, it was eventually decided to use a Weka DK17, a Diacom Profi mini drill rig, a vacuum pump, a vacuum plate, a Diacom Profi maxi drill rig, a Weka DK32, a hydraulic solid saw, a hydraulic ringsaw and a range of extension bars complete with JKS granite ZW specification diamond cores ranging from small diameter crowns 22 mm and 32 mm to 150 mm diameter cores in various lengths up to 750 mm.

Barry built a water trap to collect all the slurry and erected scaffolding around the stone. He then drew a grid on the stone and the outline of his figures. Using the drill rigs and motors, fixed only by the vacuum plate, Barry stitch-drilled around the outline of his figures. Because of all the different angles involved, Barry had to modify his forklift to mount the drilling rigs where the vacuum system



could not be positioned and use the longer cores and extensions.

The drilling took many months, the depth of each cut had to be precisely measured, one wrong hole and Barry could drill into a leg or head in the figure. There was absolutely no room for error. The slurry would run down the stone into the water trap and then be pumped away.

After the outline of the figures had been stitch drilled, Barry used the hydraulic solid saw, using JKS ZLS and Multicut blades and the ringsaw. With lots of advice from JKS UK Ltd, he perfected his technique and made great progress. One of the biggest problems was the slurry spraying all over his workshop. So Barry enclosed the whole of the scaffolding in plastic sheeting to keep the slurry in. Once Barry had cut the figures out completely using the diamond tools he then went back to more traditional methods to add detail and texture to the stone.

In total, the statue took 3 years to sculpt and was officially unveiled in May this year at its permanent location, Canal Square in the centre of Kilkenny City.

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DSA launch affiliated CSCS card scheme

The Construction Leadership Council (CLC) agreed that industry should use a one card system which will be the Construction Skills Certification Scheme. The industry, including trade associations, contractors, clients, and government should specify and promote card schemes carrying the CSCS logo with no equivalents accepted.

Build UK supports the CLC decision and its members have agreed to consistently implement its requirements which are set out in this standard.

The CLC decision and card schemes carrying the CSCS logo both relate to construction occupations only. It is recognised that due to the diverse nature of construction projects

It is a requirement under the Construction (Design and Management) Regulations 2015 (CDM 2015) for those undertaking activities on site to have the skills, knowledge, training and experience to carry out the work they will be employed to do in a way that secures the health and safety of themselves and others.

Nationally recognised qualifications (such as National Vocational Qualifications (NVQs) and Scottish Vocational Qualifications (SVQs)) can provide contractors with assurance that the holder has the skills, knowledge, training and experience to carry out the task(s) for which they are appointed.

Card schemes that do not carry the CSCS logo will not be recognised as core occupations and, from 1 January 2017, will only be accepted as supplementary to a card carrying the CSCS logo.

As a member of Build UK we support the CLC decision and its members have agreed to consistently implement its requirements.

We as the trade body for our industry have long been a supporter of CSCS and have our suite of qualifications within drilling & sawing including non-diamond tools such as Bursters, crushers and remote-controlled breaker/crusher plant. In 2013 we introduced in partnership with the demolition federation the Construction Plant Certification Scheme for remote-controlled pedestrian 360 crusher/breaker plant testing. However, the scheme has not been recognised or requested on-site, hence users haven't come forward for testing.

In response to this, the association completed the strict audit criteria of CLC and agreed a contract with CSCS on an affiliated card scheme which will be adopted by industry to meet the one-card system. For further information, contact the Drilling & Sawing Association.



Banksy artwork saved for the future

Diamond cutting is being used for more and more unusual projects such as this recent job in London where a mural by the world renowned artist, Banksy, needed to be removed and stored for future reinstalment.

Kent-based Truecut Diamond Drilling Ltd was contacted by its supplier, EC Hopkins, regarding a customer who wanted a Banksy cut out of the wall of its building and was looking to purchase a chain saw to do this himself. The company then gave its customer our details and contact was shortly made.

The Banksy in question, known as the Haring-Dog mural first appeared on the blank wall on the building in Bermondsey, London in 2010, and features a barking dog and a man in a hooded top. Plans for a seven-storey development at the site had recently been approved and rather than lose the Banksy, the owner wanted the Banksy removed and put into restoration and storage to go back into the new building for future generations to see.

Truecut was then requested by the client to cut out the Banksy and gave an initial price to cut out the whole of the wall and fix plywood to either side and lower the supported section onto pallets.

After a visit to site it turned out the client did not require "the full Monty" but just wanted the quickest and most cost effective option that could be supplied, as the render and artwork had some substantial cracks in it – these in fact Truecut had pointed out when suggesting its first option.

On closer inspection of the wall at another location it could be seen that it was a double layer of render and it would be possible to cut out a chase to the side of the artwork wide enough to get the ICS chain saw into and flush enough for the operative to cut the back of the render and face of the brickwork.

One of Truecut's senior supervisors, Graham Field, carried out the cutting works to the saw's maximum depth, which then allowed the client and his operatives to tease and wiggle out the cut and cracked sections to the nearest crack and carefully remove each piece to a vehicle for future placing together and restoration in a metal frame to go into the new building.

The works created quite a stir on social media with it even being reported as being stolen and the police turning up asking what we were doing. Fortunately, the client soon allayed those fears and the "boys in blue" allowed Truecut to complete its task unhindered within the day as quoted.

www.truecutdrilling.co.uk



SCOTLAND

Core Cut Ltd
Bankhead
Greendykes Road
Broxburn
West Lothian
EH52 6PP
www.corecut.co.uk
finlay@corecut.co.uk
01506 854710
01506 853068

Core Drilling Specialists Ltd
Unit 9, Inchcross Industrial Estate
Bathgate
West Lothian
EH48 2HR
www.coredrilling.co.uk
admin@coredrilling.co.uk
01506 637840
01506 652910

CoreTec Drilling
63 Glasgow Road
Stirling
Scotland
FK7 0PA
www.coretodrilling.co.uk
coretodrilling@yahoo.co.uk
0800 068 3837

GT Diamond Drilling Services
26 Fairfield Road
Dundee
Scotland
DD3 8HR
sales@gtdiamonddrilling.com
www.gtdiamonddrilling.com
01382 813399
01382 813388

Holemasters Scotland Ltd
114 Main Street
Chapelhall
Airdrie
ML6 8SB
jim@holemasters-scotland.co.uk
www.holemasters-scotland.co.uk
0845 467 1500
0845 467 1700

Lochwynd Ltd
Lonmay Place
Panorama Business Village
Porterfield Road
Queenslie
Glasgow
G33 4ER
sales@lochwynd.com
www.lochwynd.com
0141 781 4477
0141 781 4724

WALES

Celtest Ltd
Trefelin
Llandegai
Bangor
Gwynedd
LL57 4LH
Jason@celtest.com
www.celtest.com
01248 355269
01248 360400

NORTH

A19 Drilling Ltd
Penine Avenue
North Tees Industrial Estate
Stockton-on-Tees
TS18 2RJ
a19.drilling@btconnect.com
www.a19drilling.co.uk
01642 619171
01642 613712

Accurate Drilling Ltd
Workshop 1
Innovation Centre
Vienna Court
Kirkleatham Business Park
Cleveland
TS10 5SH
email@accurate-drilling.co.uk
www.accurate-drilling.co.uk
01642 594600
01642 597600

Allied Infrastructure Management Ltd
Unit A6 Walter Leigh Way
Moss Industrial Estate
St Helens Road
Leigh
Lancashire
WN7 3PT
ian.jones@allied-drilling.co.uk
www.alliedinfrastructure.co.uk
01942 673066
01942 679066

Barton Drilling Ltd
Contex Works
Station Road
Latchford
Warrington
Cheshire
WA4 1LB
bartondrilling@talk21.com
www.bartondrilling.co.uk
01925 653354
01925 230151

Complete Diamond Drilling Services Ltd
Unit 9F Gothenburg Way
Sutton Fields Industrial Estate
Hull
East Yorkshire
HU7 0YG
peter@complethireservices.co.uk
www.completdiamonddrilling.co.uk
01482878889
014828776777

Concrete Drilling Services Ltd
Unit 4
Waters Meeting Britannia Way
Bolton
BL2 2HH
info@concretedrillingservices.co.uk
www.concretedrillingservices.co.uk
01204 382398
01204 380625

Demon Drillers Ltd Contractor
11 Earls Park North
Team Valley Trading Estate
Gateshead
Tyne & Wear
NE11 0RQ
enquiries@demondrillers.com
www.demondrillers.com
01914822272
01914822278

Drill Direct
29 Craven Court
Winwick Quay
Warrington
WA2 8QU
info@drilldirect.com
www.drilldirect.com
01925471003

Geo Structural Ltd
Drumbreck Farm
Eastfield Road
Caldercruix
ML6 7RP
se@geo-structural.co.uk
www.geo-structural.co.uk
01236 843 009

Gnat UK Ltd
Unit 5 Jackson Court
Olympic Way
Richmond
North Yorkshire
DL10 4FD
office@gnatuk.com
www.gnatuk.com
01748 826046
01748 826056

Hi-Tec Diamond Drilling Ltd.
Units 9 & 10, Courtyard No. 2
Maple Estates
Wentworth Road
Mapplewell
Barnsley
S75 6DT
rwilde_hitec@btinternet.com
www.hitecdiadrill.co.uk
01226 388553
01226 388553

Holemasters Demtech Ltd
Unit 1
Bracewell Avenue
Poulton -Le-Fylde
Lancashire
FY6 8JF
david.bailie@holemasters.co.uk
www.holemasters.co.uk
01527 63623
01527 61422

National Drilling Services
Unit 4 123a Gorton Road
Reddish
Stockport
SK5 6EE
info@national-drilling.co.uk
www.national-drilling.co.uk
0161 443 2822
0161 443 2421

Nuvia Ltd
Site 5 Compound
10 Sellafield Ltd
Seascale Cumbria
Cumbria
CA20 1PG
barbara.jackson@nuvia.co.uk
www.nuvia.co.uk
01946 593968

Oxley Diamond Drilling Ltd
2 Coronation Terrace
Baldon Colliery
Tyne & Wear
NE35 9HW
enquiries@oxleydiamonddrilling.co.uk
www.oxleydiamonddrilling.co.uk
07426800754
01915362845

Precision Drilling 2000 Ltd
Wyke Street
Hedon Road
Hull
East Yorkshire
HU9 1PA
info@precisiondrilling.co.uk
www.precisiondrilling.co.uk
01482 586585
01482 223864

Sawcon Plant Ltd
Knoll Street Industrial Park
Salford
Manchester
M7 2BL
info@sawcon.co.uk
www.sawcon.co.uk
0161 792 2827
0161 792 2800

MIDLANDS

3D Concrete Cutting Ltd
28 Long Meadow Road
Lickey End
Bromsgrove
Worcester
B60 1GD
3dconcretecutting@live.co.uk

Access Drilling Services Ltd
5 Lantern View
New Mills
High Peak
Derbyshire
SK22 3EE
enquiries@accessdrilling.co.uk
www.accessdrilling.co.uk
01663 743201
01663 745551

Adtrak LLP
3 Chapel Quarter
Nottingham
NG1 6HQ
paul.dodsworth@adtrak.co.uk
www.adtrak.co.uk
01159598900

BHIB Insurance Brokers

AGM House
3 Barton Close
Grove Park
Enderby
Leicestershire
LE19 1SJ
enquiries@bhbinsurance.co.uk
www.bhbinsurance.co.uk
01858 434422
01858 411911

Coleman & Company Specialist Cutting Services

Shady Lane
Great Barr
Birmingham
B44 9ER
gareth.rowe@colemanspecialistcutting.co.uk
www.colemanspecialistcutting.co.uk
0121 325 2575
0121 325 2576

Crown Highways Limited

Unit 5
Queens Drive Industrial Estate
Chasetown
Burntwood
Staffordshire
WS7 4QF
steve.jones@crowncutting.co.uk
www.crowncutting.co.uk
01543 682329
01543 671622

D-Drill (Master Drillers) Ltd

Shilton Industrial Estate
Kiln Way
Shilton
Coventry
CV7 9QL
juliewhite@d-drill.co.uk
www.d-drill.co.uk
02476 612858
02476 615425

EMDD - Universal Diamond Drilling

Churchfield House
1 Lockwood Close
Top Valley
Nottingham
NG5 9JN
Dave.Swanwick@emdd.co.uk
www.emdd.co.uk
0115 967 9000
0115 967 4223

G & B Chasing & Drilling Ltd

HRS House
Garretts Green Lane
Birmingham
B33 0SJ
gbchasing@sky.com
0121 680 5003
01926 484208

Jointline Group

Airfield View
Camp Road
Witham St. Hughes
Lincoln
Lincolnshire
LN6 9TW
andrewgo@jointline-group.co.uk
www.jointline-group.co.uk
01522 868636
01522 868806

P C Richardson & Co. Ltd.

Courville House
34 Ellerbeck Court
Stokesley Industrial Park
Stokesley
North Yorkshire
TS9 5PT
geoff.ablett@pcrichardson.co.uk
www.pcrichardson.co.uk
01642 714791
01642 714387

Philmore Contracting Ltd

Unit 14
Twigden Barns
Brixworth Road
Creaton
Northants
NN6 8NN
info@philmore.co.uk
www.philmore.co.uk
01604 505902
01604 505756

WW Group

2 Oakberry Road
Lutherworth
Leicestershire
LE17 4PP
davewisby@wwgroup-insurance.com
www.wwgroup-insurance.com
01455 203377
01455 230543

SOUTH EAST**A J Willcock Holeformers Ltd**

Unit 2
Great Hidden Farm
Wantage Road
Eddington Hungerford
Berkshire
RG17 0PW
willcockholeformers@btconnect.com
www.willcockholeformers.co.uk
01488 686175
01488 683801

A Morris Diamond Drilling Ltd

1 Linden Avenue
Old Basing
Basingstoke
Hampshire
RG24 7HG
amorrisdiamonddrilling@hotmail.com
01256 476498

Acudrill Ltd

12 Meadway
London
SW20 9HY
jim@acudrill.co.uk
www.acudrill.co.uk
020 8540 5335
0208 542 5387

Baker Dougan Ltd.

Unit 4
Oyster Estate
Jackson Close
Farlington
Portsmouth
Hants
PO6 1QN
bakerdouganltd@talk21.com
02392 370777
02392 371777

Bardon Contracting

Thorney Mill Road
West Drayton
Middlesex
UB7 7EZ
archie.harris@aggregate.com
www.aggregate.com
01895 422861
01895 422871

BD Nuclear

Unit 5 Oyster Estate
Jackson Close
Farlington
Portsmouth
PO6 1QN
enquiries@bdnuclear.co.uk
www.bdnuclear.co.uk
0845 5210004
0845 5210003

Bill Batten Concrete Cutting Services

4 Cannon Road
Heathfield Ind Est
Newton Abbot
TQ12 6SG
rob@billbatten.co.uk
www.bbccc.co.uk
01626 201220

Britannia Cutting Services Ltd.

Britannia House
Courts Building
Lawson Road Darford
Kent
DA1 5BP
info@britcut.co.uk
www.britcut.co.uk
01322 221533
01322 220790

C. A. Drillers Ltd.

Dockers Field Farm
Pean Hill
Whitstable
Kent
CT5 3BJ
steve@cadrillers.com
www.cadrillers.com
01227 458883
01227 458884

Castle & Pryor

Elles House
4B Invincible Road Ind. Estate
Farnborough
Hampshire
GU14 7QU
info@castle-pryor.co.uk
www.castle-pryor.co.uk
01252 524080
01252 524090

Chiplime Construction Services Ltd

Chiplime House
Beddow Way
Aylesford Kent
ME20 7BT
info@chiplime.com
www.chiplime.com
01622 790001
01622 790002

Clifbreakers Ltd

Unit 16
Blackheath Business Estate
78B Blackheath Hill
Blackheath
London
SE10 8BA
frclifford@tiscali.co.uk
www.clifbreakers.co.uk
0208 6945700
05600 751875

Concrete Construction United Ltd

Borstal Court Farm
Burham Road
RochesterKent
ME1 3DH
ccultd2000@msn.com
www.ccultd.co.uk
01634 826960
01634 827025

Concrete Cutters Ltd Contractor

Unit 26 Ashford Industrial Estate
Shield Road
Ashford
Middlesex
TW15 1AU
chris.clay@concut.co.uk
www.concut.co.uk
01784621621
01764241885

Corehard Limited

4 Viewpoint Babbage Road
Stevenage
Hertfordshire
SG1 2EQ
info@corehard.com
www.corehard.com
01438 225102
01438 213721

Diacore Concrete Cutting Ltd

2 Witheygate Avenue
Staines
Middlesex
TW18 2RA
info@diacore.co.uk
www.diacore.co.uk
01784 456013
01784 465026

Diacutt Concrete Drilling Services Limited

8 The High Street
Colliers Wood
London
SW19 2AE
graham.fawcett@diacutt.com
www.diacutt.com
020 8540 0300
020 8542 9901

Diamond Drilling (UK) Ltd

215 Harley Shute Road
St Leonards on Sea
East Sussex
TN38 9JJ
Marting@Diamonddrillinguk.com
www.diamonddrillinguk.com
01424 720259

Diamond Edge Drilling Ltd

Hall Place
Penshurst Road
Leigh
Kent
TN11 8HH
01732 832223
01732 834442
office@diamondedgedrilling.co.uk
www.diamondedgedrilling.co.uk

Drilltec (East Anglia) Limited

Diamond House
Dencora Way
Sundon Park Road
Luton
Bedfordshire
LU3 3HP
alan@drilltec.co.uk
www.drilltec.co.uk
01582 564455
01582 847016

Elmcrest Diamond Drilling Ltd

4 Duncruevie Road
Lewisham London
SE13 6TE
office@elmcrest-diamond.co.uk
www.elmcrest-diamond.co.uk
020 8318 9923
020 8318 1034

Hampshire Chasing Ltd

12 Station Road North
Totton
Southampton
Hampshire
SO40 3AB
02380 871124
02380 663909
enquiries@hampshirechasing.co.uk
www.hampshirechasing.co.uk

Hawes Building Ltd

NewlandsLeives Road
Wilmington
East Sussex
BN26 5SG
sarra@hawesbuilding.co.uk
www.hawesbuilding.co.uk
01323483085

Hydro Pumps Ltd.

19 Highmead
Fareham
Hampshire
PO15 6BL
jeffhaigh@hydro-pumps.co.uk
www.hydro-pumps.co.uk
01329 823420
01329 823425

Invictacut Ltd.

Landway Farm
Basted Lane
Crouch
Sevenoaks
Kent
TN15 8PY
info@invictacut.co.uk
www.invictacut.co.uk
01732 884977
01732 887400

J Hare Diamond Drilling (Hitchin) Ltd.

5-7 Wallace Way
Hitchin
Hertfordshire
SG4 0SE
cheryl.hare@jhare.com
www.jhare.com
01462 433199
01462 420196

John F. Hunt Demolition Ltd.

Europa Park
Grays
Essex
RM20 4DB
michael.blizzard@johnfhunt.co.uk
www.johnfhunt.co.uk
01375 366748
01375 366769

Kilnbridge Construction Services Ltd.

McDermott House
Cody Road Business Centre
South Crescent
London
E16 4TL
office@kilnbridgegroup.com
www.kilnbridgegroup.com
0207 511 1888
0207 511 1114

KSS Diamond Drilling & Sawing Ltd.

Russell Gardens
Wickford
Essex
SS11 8BH
drilling@kssgroup.co.uk
www.kssgroup.co.uk
01268 578402
01268 561034

London Diamond Drilling Services Ltd

Unit 19
Newington Industrial Estate
87 Crampton Street
London
SE17 3AZ
courtney@iddgroup.co.uk
www.iddgroup.co.uk
02072773877

MB Diamond Drilling Ltd

Unit 7 Algrey Trading Estate
Cooks Way
Hitchin
Hertfordshire
SG4 0JA
jeff@mbdiamonddrilling.co.uk
www.mbdiamonddrilling.co.uk
01462 459991
01462 450540

Mohan Building Services Ltd

3A Manor Road
Gravesend
Kent
DA12 1AA
info@mohanbuildingservices.com
www.mohanbuildingservices.com
01474 323943
01474 567617

MTF Diamond Drilling & Controlled Demolition Ltd

Unit 15 Ramac Industrial Estate
Ramac Way
Charlton
London
SE7 7AX
mick@mtf-ddcd.com
www.m25contracting.com
02088582572
02088585465

Nick Building Contractors Ltd

Unit 4
May Avenue
Northfleet
Kent
DA11 8RU
jag@nbcltd.co.uk
www.nbcltd.co.uk
01474335689

Online Drilling

5 Park Parade
Gunnersbury Avenue
Acton
London
W3 9BD
admin@oltools.co.uk
www.oltools.co.uk
02088961222
02089922944

Paul Fold

33 Stonepound Road
Hassocks
West Sussex
BN6 8PP
paul.fold@btopenworld.com
www.pfdd.co.uk
01273 845237

Precision Cutting Ltd

Unit 2, Sunset Farm
Cross-in-Hand
Heathfield
East Sussex
TN21 0TX
info@precisioncutting.co.uk
www.precisioncutting.co.uk
01435 864666
01435 867888

Protech Construction (UK) Ltd.

14a Sidley Green
Bexhill on Sea
East Sussex
TN39 5AH
info@protech-construction.com
www.protech-construction.com
01424 215400
01424 734456

Robore Cuts Limited

Unit 16 Mitcham Industrial Estate
Streatham Road
Mitcham
Surrey
CR4 2AP
enquiries@robore.com
www.robore.com
020 8646 4466
020 8646 4046

Roskerry Building Services Ltd.

12 Grosvenor Gardens
Oakwood
London
N14 4TX
info@roskerry.co.uk
www.roskerry.co.uk
02083641563

Sealant & Construction Services Ltd

Nettice Barn
Boundary Farm
Framsden Stowmarket
Suffolk
IP14 6LH
julie@scsukltd.co.uk
www.scsukltd.co.uk
01728 860198

Speed Drill Ltd.

Units 17 & 18
Chingford Industrial Centre
Hall Lane
ChingfordLondon
E4 8DJ
speed-drill@btconnect.com
www.drilling-contractor.co.uk
020 8524 0004
020 8524 6778

Strata Coring Ltd.

Unit B1 Belcon Industrial Estate
Geddings Road
Hoddesdon
EN11 0NT
info@stratacoring.co.uk
www.stratacoring.co.uk
01992467129
01494 447006

Technical Concrete Cutting Ltd

Greenlands House
Southbrook Road
West Ashling
Chichester
West Sussex
PO18 8DN
office@technicalconcretecutting.co.uk
www.technicalconcretecutting.co.uk
01243 572784
01243 576060

The Bush Hammering Co Ltd

26 Huntsmans Drive
Upminster
Essex
RM14 3YU
duncan@bushhammering.com
www.bushhammering.com
01708 227673
01708 223687

Truecut Diamond Drilling Ltd

Ovenden House
Wilcox Close
Aylesham Industrial Estate
Aylesham
Kent
CT3 3EP
colin@truecutdrilling.co.uk
www.truecutdrilling.co.uk
01304 843 069
01304 841 343

SOUTH WEST

24-7 Diamond Drilling + Diamond Sawing Services Ltd
Unit 20 Daneheath Business Park
Wentworth Road
Heathfield
Devon
TQ12 6TL
davidwhitbread@btconnect.com
www.24-7diamonddrilling.org
01626 853361
01626 833099

Dymacore Ltd
12 Meadow Halt
Ogwell
Devon
TQ12 2TG
info@dymacore.co.uk
www.dymacore.co.uk
01626200864

European Plant Services Ltd
8 Bakers Park
Cater Road
Bishopsworth
Bristol
BS13 7TT
info@epsdrilling.co.uk
www.epsdrilling.co.uk
01179 649777
01179 649888

Woodmace Limited
21-23 Willis Way
Poole
Dorset
BH15 3SS
post@woodmace.co.uk
www.woodmace.co.uk
01202 667785

SUPPLIERS

Hilti (Gt. Britain) Ltd.
1 Trafford Wharf Road
Trafford Park
Manchester
M17 1BY
tim.wilmes@hilti.com
www.hilti.co.uk
0844 815 6280
0800 886200

Applied Diamond (Products) Ltd.
Holly Farm Business Park
Honiley
Kenilworth
Warwickshire
CV8 1NP
grahame@applieddiamond.com
www.applieddiamond.com
01926 485185
01926 485186

JKS UK Ltd
Unit 10 St James Road
Corby
Northants
NN18 8AL
darren@jks-uk.com
www.yellowdrill.co.uk
01536262769
01536206016

Major Diamond Supplies Ltd
Unit 23
Rothersthorpe Crescent
Rothersthorpe Ave Trading Estate
Northampton
NN4 8JD
info@majordiamondsupplies.co.uk
www.majordiamondsupplies.co.uk
01604 767600
01604 767658

Tyrolit UK Ltd.
Eldon Close
Crick
Northants
NN6 7UD
Mike.Hetherington@tyrolit.com
www.tyrolit.com
01788 823738
01788 823089

Diamond Hire and Sales
Elies House
4B Invincible Road Industrial Estate
Farnborough
Hampshire
GU14 7QU
Richard@diamondhiresales.co.uk
www.diamondhiresales.co.uk
01252 524141
01252524141

Golz UK Ltd
Unit 5ASpringhead Enterprise Park
Springhead Road
Northfleet
Kent
DA11 8HB
denise.johnson@golz.co.uk
www.golz.co.uk
01474 321326
01474 321477

Hertfordshire Diamond Products Ltd.
Unit F, Gunnels Wood Park
Gunnels Wood Road
Stevenage
Herts
SG1 2BH
colin.greenall@hertsdiamondproducts.com
www.hertsdiamondproducts.com
01438 748758
01438 362060

Pentrunder UK Limited
Unit 19 Potts Marsh Industrial Estate
Eastbourne Road
Westham
Pevensey
East Sussex
BN24 5NH
graham@pentrunder.co.uk
www.pentrunder.co.uk
01323 871666
01323 871999

Premier Diamond Products Ltd.
Unit 21 Chislet Close
Lakesview Business Park
Hersden
Canterbury
Kent
CT3 4LB
Terry.webb@premierdiamondproducts.co.uk
www.premierdiamondproducts.co.uk
01227 711555
01227 710540

Pro-Point Equipment Ltd
Unit 1, 14 Peter Road
Lancing Industrial Estate
Lancing
West Sussex
BN15 8TH
sales@propointequipment.com
www.propointequipment.com
01903 763965
01903 750414

Rollins & Sons Ltd
1 Harlow Business Park
Harlow
CM19 5QF
andy.vaughan@rollins.co.uk
www.rollins.co.uk
01279401570

Husqvarna Construction Products
Unit 4 Pearce Way
Gloucester
Gloucestershire
GL2 5YD
sarah.lewis@husqvarnagroup.com
www.husqvarnacp.co.uk
0844 844 4570
0844 844 4568

Heger GmbH Excellent Diamond Tools Kaliring
1D-79423
Heitersheim
Germany
info@heger.com
www.heger.com
049 7634 5020
049 7634 502213

ICS Blount Europe rue Emile Francqui
51435 Mont-Saint-Guibert
Belgium
europe.marketing@icsbestway.com
www.icsbestway.com
+ 32 10 301251
+ 32 10 301259



NEW



Remote Controlled Demolition Plant CSCS Card

In affiliation with CSCS, the DSA are now able to offer a Remote Controlled Demolition Plant Card to Trainee's, Skilled Operatives and Fitters

Types of Cards and how to obtain



An operative must have an up-to-date Health, Safety and Environment Test and be registered for NVQ Level 2 Demolition Plant or Unit QCF224 Concrete Crushing and Breaking Operations. If your operative requires registering then please contact us for further information and we'll be happy to explain the routes available including On-site assessment, experienced worker and the Upskilling Training Program.



An operative must have an up-to-date Health, Safety and Environment Test and have achieved the NVQ Level 2 Demolition Plant Inc. Pedestrian Operated or Unit QCF224 Concrete Crushing and Breaking Operations

cards@drillandsaw.org.uk
0844 879 3452

All applications are to be made through the Drilling and Sawing Association. An operatives eligibility will be checked via the information provided on the application form. For more information or to obtain an application form please contact us.

REMOTE CONTROLLED PLANT CARDS



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