

Extrudakerb Wire Saw

Pioneering H&S and efficiency improvements through technical innovation.

Extrudakerb has, once again, revolutionised the concrete cutting world with the introduction of an automated concrete slot drain cutting machine that utilises diamond wire, designated the Extrudakerb Wire Saw.

The Extrudakerb slip formed concrete slot drain requires sections to be removed to allow outfall chambers to be installed. These outfalls can be as frequent as 30 linear metre intervals.

Historically, these sections have been cut with hydraulic chainsaws manually held by the operator. This carries a risk to the operator and limits the time that can be spent cutting, because of the potential for hand-arm vibration.

Even though this is an acceptable method of cutting concrete, Extrudakerb knew that by challenging the present, the future could be better.

Using in-house design engineers, Extrudakerb created a bespoke piece of equipment specifically tailored to the application, allowing optimum results in performance, safety and quality.

Extrudakerb launched the Extrudakerb Wire Saw on the (KIER) M6 Junction 16-19 scheme at the end of 2017.



Mk 1 Development Wire Saw

“ The advantages are huge - cutting time has been reduced almost by a half and the automated process means that concrete cutting can be continuous, unlike comparable manual operations such as concrete chain sawing. **”**



The first cut on the M6 Scheme

The client's senior Health and Safety Team approved the equipment after a live demonstration that left one onlooker commenting:

“I wish every contractor would bring such levels of excellence to site.”

The initial project and subsequent ongoing demand for the equipment is supported by Dymatec UK, whose technical expertise in abrasives provides class-leading diamond wire for use within the Wire Saw.

Jeremy Newton, Managing Director of Dymatec, said: ***“This bespoke new system developed by Extrudakerb and Dymatec is a breakthrough in concrete slot drain cutting with significant potential to transform the industry.***

“Dymatec is delighted to be working with Extrudakerb on an ongoing basis and we look forward to further developing the system and improving efficiencies in concrete slot drain cutting.”

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The new Extrudakerb Wire Saw was proven at the M6 Junction 16-19 site and this test became a benchmark introduction to concrete slot drain cutting. The pilot machine was joined by a second unit, followed by a third in March 2018.

The second and third Wire Saws have undergone further enhancements using lessons learned from the first prototype unit. These include ergonomic improvements which enable operators to use the equipment even more productively.

The benefits recorded by the site crews and technical support have exceeded all expectations across the board and this new concept offers many innovative dynamics to the concrete cutting world including:



The first cut with Mk 2 Wire Saw



- Quality = Zero defects/recuts.
- Environmental = 76% reduction in water usage.
- Transport = 20% reduction in vehicle movements.
- Safety = 100% reduction of operator in use activity.
- Operator = 100% reduction of manual handling, HAV's, PPI.

There are also benefits to operator and public safety as the Extrudakerb Wire Saw is virtually dust free during cutting and produces minimal noise compared to more traditional concrete cutting techniques.

This is a huge achievement for the Extrudakerb Group and its continuing drive to eliminate all manual concrete cutting from site operations.

The M6 scheme will require more than 2,000 cuts over the 44,000m of slip form concrete slot drain.

Stephen Lee, Group Lean Manager for Extrudakerb said: ***“The level of innovation achieved by the technical teams of Extrudakerb and Dymatec has given the concrete cutting world a better quality, and more efficient, option that ensures the safety of people undertaking the process. This effort will continue as we strive for market-leading excellence.”***



Slip form concrete slot drain



For more information and to book a demonstration of the new Extrudakerb Wire Saw, call Extrudakerb on T: +44 (0) 1709 862 076 or E: sales@extrudakerb.com