Cannon Piling Increases Efficiency with Aarsleff's Endura-Line Auger Supplied by Aarsleff Plant & Fabrication

In the heart of central London, Cannon Piling was contracted to install a secant wall comprising both 400mm and 600mm diameter piles, drilled to depths of up to 26.0 metres below ground level (BGL). The ground conditions presented a typical sequence of made ground, sandy gravel, firm slightly sandy clay, a challenging environment for any piling operation.

Traditionally, Cannon Piling used standard flight augers requiring frequent hard facing to maintain cutting performance in abrasive ground. This meant a mobile welder was routinely present on site, typically for one full day each week, to apply wear protection. Not only did this come at a direct cost, but it also introduced indirect losses in productivity due to auger downtime and disruption to planned sequences of work.

To address this issue, Cannon Piling adopted an Endura-Line auger, supplied and manufactured by Aarsleff Plant & Fabrication. These augers are fitted with high-performance wear strips that are especially engineered to resist abrasion, reduce wear and eliminate the need for on-site hard facing.

The benefits of switching to the Endura-Line auger were immediately evident:

- **Zero Rework Required:** Over the course of the 8-week programme, the augers did not require any maintenance or hard facing – a significant change from the prior weekly routine.
- **Maximised Drilling Time:** With no interruptions for rework, the site team maintained continuous productivity, achieving over 4,000 linear metres of piling within the 8-week period
- **Reduced Downtime and Hidden Costs:** Without the need for mobile welding support, Cannon not only saved on direct costs, but also avoided the cascading inefficiencies of idle plant, re-sequencing work, and labour stand-downs.

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Working in a dense urban environment like central London brings a unique set of logistical and environmental constraints. Frequent deliveries, mobile welding units and support vehicles all contribute to traffic congestion, higher carbon emissions and additional disruption for local residents and businesses.

By eliminating the need for weekly welding visits and the associated support vehicles, the Endura-Line auger significantly reduced traffic movements to and from site. This not only lowered transport-related costs, but also supported Cannon Piling's sustainability commitments by helping to reduce the overall carbon footprint of the works.

Fewer vehicle movements also meant reduced noise, less disturbance for neighbours, and improved relations with surrounding commercial and residential properties — a crucial consideration when operating in tightly constrained, high-density areas.

Aarsleff's Endura-Line solution extends beyond drilling tools. The technology can be applied to virtually any item of plant or equipment that experiences accelerated wear, including buckets, cutting edges, hoppers and more.

Endura-Line is available exclusively in the UK and Europe through Aarsleff Plant & Fabrication, offering bespoke engineering support and tailored solutions designed to extend asset life and enhance operational efficiency across a wide range of applications.

"The Endura-Line auger has transformed how we manage tool wear. Not a single day was lost to reworking augers, meaning the team could stay on production continuously. It's a smarter, more efficient way of working."

— George Newton, Operations Manager, Cannon Piling

The use of the Endura-Line equipped auger, supplied by Aarsleff Plant & Fabrication, enabled Cannon Piling to maximise efficiency, reduce operating costs, and maintain high levels of productivity throughout a demanding piling project in central London.

With additional benefits in sustainability, reduced traffic movements, and lower environmental disruption, the Endura-Line solution not only enhanced project performance but also helped Cannon meet the growing expectations for cleaner, quieter, and more efficient construction practices in urban environments.

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