

Alstom uses KM Tools SmartLine Jigs for construction of trains for new Cairo Monorail

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KM Tools has designed and manufactured multiple SmartLine Jigs to enable the efficient assembly of Alstom INNOVIA™ monorail 300 trains for export to the Cairo Monorail project.

The new Cairo Monorail is a landmark project for Egypt and a key component of its commitment to lower carbon emissions. Alstom led a consortium of three companies that signed a \$4.5 billion contract with Egypt's National Authority for Tunnels to design, construct, operate and maintain the new monorail¹. The project includes a 34-mile (54 km) line between the New Administrative City with East Cairo as well as a 26-mile (42 km) stretch between 6th of October City and Giza. Opening is expected in 2023².

Running the routes will be 70 automated Alstom INNOVIA™ monorail 300 trains with four cars each³. These are being built at Alstom's famous Litchurch Lane facility in Derby, which has been producing rolling stock since the 19th century. Recently, the facility benefitted from upgrades to its production line, which included the installation of multiple SmartLine Jigs designed and manufactured by Staffordshire-based KM Tools.

Neil Harrison, Sales Manager at KM Tools, expands: "We have developed a close working relationship with Alstom, which has been a driving force in our technical involvement at Derby. We have designed, manufactured and installed a multitude

of SmartLine Jigs to the company's specification for the Litchurch Lane facility, which assist in the welding and assembly of Aventra trains. We have also manufactured the erection and water test rigs for all Aventra production lines at Derby."

This June, the first unit for the Cairo Monorail was completed and ready for delivery, an occasion marked by the visit of UK International Trade Secretary, Rt. Hon Liz Truss MP, to the Litchurch Lane facility⁴.

Adrian Degg, Group Engineering Director at KM Tools, comments. "As part of our technical collaboration with Alstom at Litchurch Lane, we provide 24/7 on-site maintenance support for the welding, underframe and roofing jigs which operate around-the-clock. This ensures that we can provide a turnkey service for Alstom to support their large-scale rail manufacturing projects."

"We are delighted with the progress on this landmark project for Egypt. Thanks to great teamwork and dedication, we have shipped the first INNOVIA™ monorail unit earlier than expected. We are committed to meeting our customers' expectations and pursuing our long-term partnership with Egypt's National Authorities of Tunnels. We strive to provide the country with state-of-the-art mobility solutions," said Andrew DeLeone, President, Alstom Africa, Middle East & Central Asia⁵.

Mark Brickhill, CEO at KM Tools, concluded: "We are thrilled to be part of this significant, multi-national project that has both economic and environmental benefits. Our extensive experience in the rail sector has been invaluable in meeting Alstom's production line requirements. It is exciting to be supporting a real domestic manufacturing success story."



¹ <https://www.railway-technology.com/projects/cairo-monorail>

² <https://www.railway-technology.com/projects/cairo-monorail>

³ <https://www.railway-technology.com/projects/cairo-monorail>

⁴ <https://www.mtdmfg.com/news/first-derby-built-cairo-monorail-trains-exported-to-egypt/>

⁵ <https://www.mtdmfg.com/news/first-derby-built-cairo-monorail-trains-exported-to-egypt/>

Image captions:



Image 1: Alstom uses KM Tools SmartLine Jigs for construction of trains for new Cairo Monorail



Image 2: Alstom uses KM Tools SmartLine Jigs for construction of trains for new Cairo Monorail



Image 3: Alstom uses KM Tools SmartLine Jigs for construction of trains for new Cairo Monorail



Image 4: Alstom uses KM Tools SmartLine Jigs for construction of trains for new Cairo Monorail



Image 5: Alstom uses KM Tools SmartLine Jigs for construction of trains for new Cairo Monorail

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About KM Tools Ltd

KM Tools Ltd (KMT) specialises in manufacturing, maintaining and renewing specialised machines used for the manufacture of automotive components, with a specialist focus on emission control (Exhaust, CAT & DPF) product manufacture. It also specialises in providing precision assembly-line jigs and machines for the rail industry.

Its machines are used by leading brand manufacturers building parts for the OE market and the automotive aftermarket across the globe. Our manufacturing and service centre is based in a purpose built facility the Midlands from which it manufactures, services and rebuilds and supports hundreds of individual machines.

KMT can service, support and re-manufacture most machines from any original manufacturer, including one-off custom designs. It also develops tooling and workholding solutions such as bespoke automated, or semi-automated mandrels, jig and fixturing systems.

Press contact:

KM Tools Ltd.

Ian Matthews

Tel.: + 44 (0) 1538 758 946

enquiries@kmt.tools

PR agency:

DMA Europa

Jake Lacey-Watts

Progress House, Great Western Avenue, Worcester,
WR5 1AQ, UK

Tel.: +44 (0) 1905 917477

jake@dmaeuropa.com

news.dmaeuropa.com