18 July 2016

Construction of Hadrian X Commences

Fastbrick Robotics Limited (ASX.FBR) ("FBR" or "Fastbrick Robotics") is delighted to announce that it has commenced construction of the Hadrian X commercial prototype, following the success of the Hadrian 105 technology demonstrator.

The Hadrian X, previously codenamed the 109, is the next evolution in construction automation, with up to 1,000 standard brick equivalents per hour being delivered over a 30m boom from a single position on site. Unlike the Hadrian 105, the Hadrian X will be truck mounted for maximum mobility and minimal worksite footprint.

Commenting on the start of construction of the Hadrian X, Fastbrick CEO Mike Pivac said: "The commencement of construction of the Hadrian X is another significant milestone for a team that is breaking new ground every day. We are a frontier technology company, and we're one step closer to bringing fully automated, end-to-end 3D printing brick construction into the mainstream. We're very excited to be taking the world-first technology we proved with the Hadrian 105 demonstrator and manufacturing a state-of-the-art machine using the latest componentry."

As part of the development, FBR has filed patent applications covering several new technologies that will be incorporated into the Hadrian X. Once approved, these patents will add to the Company's already impressive IP catalogue.



Figure 1 – The Hadrian X will be a road-capable, truck mounted machine with a folding 30m boom

By utilising a construction adhesive rather than traditional mortar, the Hadrian X will maximise the speed of the build and the strength and thermal efficiency of the finished structure, while minimising the impact of weather conditions in the construction process. The Hadrian X is able to handle different brick sizes, and will complete all of the cutting, grinding, milling and routing of the bricks prior to laying, so that the structure is ready for first fixing immediately after the machine moves offsite.

Fastbrick's add-on for the widely used SOLIDWORKS™ 3D CAD software, called The Architectural Designer, or TAD, is a powerful tool that drives the capabilities of the Hadrian X. The accuracy achieved by the Hadrian X in building from a 3D CAD file will provide significant time and cost savings, by allowing other trades to manufacture components of the new structure in parallel with the bricklaying, rather than having to wait to measure the brickwork.

The Hadrian X will be constructed by FBR's specialist engineering team at its Perth workshop. The Company has already received significant commercial interest in the Hadrian X from major construction companies and machine manufacturers across the world.

Please see over the page for more concept images of the Hadrian X.

For more information, contact:

Fastbrick Robotics Limited
Mike Pivac
Chief Executive Officer
T: +61 8 9380 0240

Corporate Advisor - Cygnet Capital Pty Ltd
Darien Jagger
Director
T: +61 8 9226 5511

Investor Enquiries - Market Eye Pty Ltd
Kiel Chivers
Associate Director
T: +61 409 310 987

Media Enquiries - Market Eye Pty Ltd
Georgie Morell
Director Media & Communications
T: +61 438 007 383

About Fastbrick Robotics

Fastbrick Robotics has developed the world's latest innovative advancement in mobile robotic technology that will vastly improve the speed, accuracy and safety of the global brick construction industry. Fastbrick Robotics is finalizing the development of its prototype and will be working towards development of a commercial model for commercial use in 2017/2018.



Figure 2 - The Hadrian X in its compact, "road-capable" form. Brick pallets are loaded into the back of the truck and robotically de-hacked and loaded onto the conveyor



Figure 3 - Hadrian X's boom extending

FastBrick Robotics
ABN 58 090 000 276
23 Laurence Road, Walliston
Western Australia 6076
T +61 8 9380 0240
www.fbr.com.au



Figure 4 - Full extension of the Hadrian X's 30m boom, allowing it to 3D print a complete brick structure, course by course

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