



AR60PH PANEL INSTALLER WITH AR1740 GIRAFFE WORK PLATFORM

Innovation Description:

The AR60PH Panel Installer is a machine jointly designed and developed by Arva Industries Inc. and McCourt Obayashi JV for the erection of massive ceiling modules during Boston's \$14-billion Central Artery/Tunnel project (Boston's Big Dig). Each 12x40-ft ceiling module weighs in at 30,000 lbs. and is comprised of five pre-cast concrete panels joined by structural steel supports. The modules serve as the tunnels ceiling finish as well as the air exhaust plenum.

Where and when it originated, has been used, and is expected to be used in the future:

Fred Smith and Vern Eck entrepreneurs and top executives of Arva Industries Incorporated located in St. Thomas, Ontario, Canada, consistently generates quality in developing new construction equipment, while recognizing cost and safety concerns. When approached by Paul E. Buco, project manager for McCourt Obayashi JV, Boston with the need to finish over three miles of Interstate tunnel. Their requirements for the ability to build the ceiling modules in the tunnel, then self-load, haul and erect in place was currently being completed utilizing a low-bed trailer with hydraulic jacks which was yielding production rates of three modules per shift. Utilizing AR60PH Panel Installer production increased from the average shift installation of 3 modules per shift to There was nothing in the market to meet the needs of McCourt Obayashi JV, Boston but within two weeks of talking to Arva Industries Inc. officials they had a functional design and a finished product in nine months.

Why it is innovative:

Currently MPEV is one of few specially designed high-speed backhoe/loader systems in the world and the only one presently built in North America.

What it changed or replaced:

This is a unique product which gives our troops abroad/domestically the tools required to keep them safe while serving us so bravely. This is a one of a kind product which will stand alone for its capabilities for quite some time now and in the future.

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