Why require multiple operators when you only need one? Terydon Introduces *Multiple Machine Monitoring (M3)*: The Optimum Experience for Fully Automated Tube Bundle Cleaning

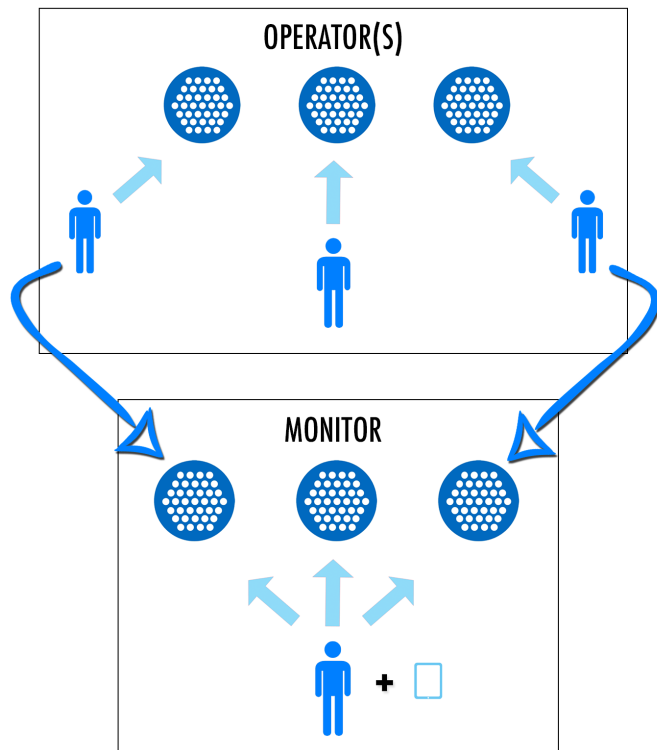Twice the production per worker? Well that sounds nice. And that is just the beginning.

Leading the surge into Full Automation, Terydon Incorporated continues to stay ahead of the curve by announcing *"Multiple Machine Monitoring"* (M3) as the latest advancement for Fully Automated Tube Bundle Cleaning.

In 2016, Terydon demonstrated their Fully Automated Tube Bundle Cleaning System, using their Lunch Box touch-screen tablet control as the platform's foundation. At the WJTA Expo Live Demonstration, Terydon showcased the operator - safely removed from the blast zone - beginning the cleaning process by selecting the "Start" button on the touch-screen. With that button held in place, the tablet pressured up the pump and began to automatically clean the tube bundle: feeding the flex lances in the length of the tube and retracting out, then successfully navigating to the next set of tubes to clean with the Terydon Smart Indexer. The Terydon Smart Indexer recognized when it reached the end of a row, and then accurately navigated to the next row to continue cleaning. The automated process continued until the tube bundle was 100% clean. Noting completion, the system automatically powered down. The demonstration displayed an entire system which eliminates any opportunity for human error and safely removes the operator from the blast zone by use of wireless control. It also showcased the removal of a pump operator, reducing the crew size by one person.

This year, Terydon is taking a tube bundle cleaning system to a level that has not been previously achieved, thus preserving their place as the leader of true Automation in the waterblasting industry. Building off of the Fully Automated Tube Bundle Cleaning demonstration from the year prior, Terydon now introduces their prototype: *Multiple Machine Monitoring* - the complete and simultaneous control of multiple Fully Automated Tube Bundle Cleaning Systems, from the hands of a single operator.

Terydon's approach is simple: while one tube bundle is being automatically cleaned by a lancing system, why not expand the working capabilities of the already involved operator? He is technically no longer an "operator" when using the *Multiple Machine Monitoring* tactic, as he no longer has to input commands to run the system. Rather, he may now be referred to as a "monitor", an overseer of the cleaning process as the tool performs its Fully Automated clean. So, as one system is up and running, the monitor can now set up another lancing system(s) on a different tube bundle and engage the next lancing system(s) into a Fully Automated Tube Bundle clean. By the monitor managing the cleaning of numerous tube bundles through a single touch-screen tablet, the need for another operator(s) is eliminated while the cleaning potential of a single worker is multiplied.

Applying M3 Technology, the operator can multiply his work production by monitoring multiple Fully Automated Tube Bundle Cleaning processes all from a single touch-screen tablet.

The *Multiple Machine Monitoring* prototype, or M3 for short, is showcased on Peinemann Flex Lancing systems equipped with the Peinemann Retro-Fit Kit, which adapts Terydon's Smart Indexing Technology to the Peinemann Flex Frame X/Y Indexer. This indexing unit, paired with the Terydon Lunch Box Wireless Control, allows both systems to be monitored wirelessly and safely outside of the Blast Zone, distanced far enough to eliminate the need of a slicker suit. The Retro-Fit Kit and Lunch Box setup, which has currently been on the market for 3 years, is upgraded through a Software Upgrade on the touch-screen tablet; upon M3's projected release, every previously issued Peinemann Retro-Fit Kit can be upgraded.