

ASSEMBLY TOOL CASE STUDY

CORDLESS SMART TOOLS IN PLASTIC EXTRUSION

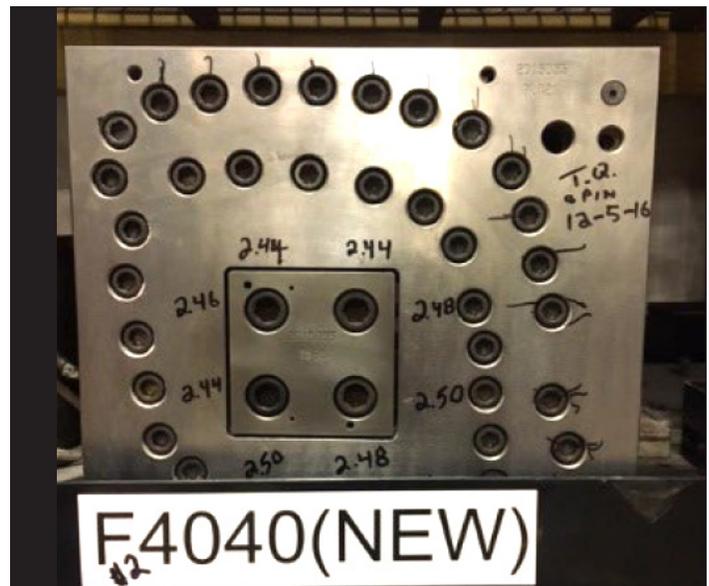
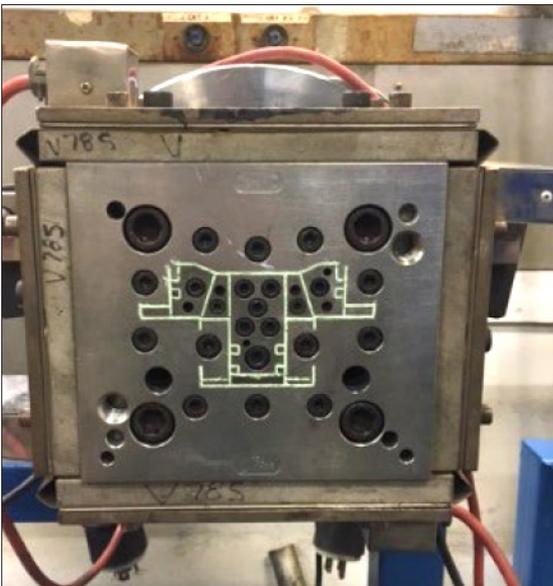
SAFETY AND ACCURACY IN DIE MOLD FASTENING

The Ingersoll Rand® QX Series of precision fastening tools offer simple, flexible and capable solutions for safety-critical assembly applications. The tools maximize throughput with customizable torque and angle configurations and ensure repeatable accuracy.

For manufacturers in plastic extrusion, precise bolting is especially beneficial to keep workers safe, as well as to meet daily productivity needs.

THE CHALLENGE

In a plastic extrusion facility, manufacturers face the challenge of installing numerous die packs, or molds that shape the plastic, daily – by hand. For example, in vinyl fencing, there is a plastic post between each section that holds the fence together. These posts were manufactured using large heavy die packs. Fastening bolts inconsistently on these packs can lead to an uneven end-product generating waste.



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On large, heavy die molds, the bolt count can be daunting, and every mold needs hands-on fastening and high, consistent torque to ensure quality throughput and the utmost safety of the worker. Utilizing a click wrench for hand fastening high torques can lead to injury or repetitive motion damage to the operator's shoulder which is costly for a company. For safe and efficient die mold assembly, manufacturers need smart tools that deliver ample torque consistently.



THE SOLUTION

Manufacturers in plastic extrusion can count on the Ingersoll Rand QX Series™ Cordless Torque Multiplier to apply repeatable torque to bolts, reduce possibility of human error and keep manufacturers safe as they work. For torque-critical bolts on die packs, the tool delivers consistent power that operators can validate visually on the back of the tool to ensure they're getting the torque they need for every batch of bolts. The tool beeps when the batch is complete so the operator will know when the job is done. With customizable torque and angle rotation, the QX Multiplier adjusts configurations as it goes to avoid tightening the same bolt twice or stripping the bolt. This also rids the need to utilize a hand click wrench.

When manufacturers have multiple packs to complete in a day, they need tools that optimize throughput and minimize muscle fatigue and risk of injuries. Cordless smart tools with an ergonomic grip are the ideal solution to keep plastic extrusion facilities working smarter, not harder.



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