

Case Study



KEY BENEFITS



2.5X

Speed of a traditional pilot hole clamp



0


Minutes wasted thanks to (2) battery packs




5,000

Holes drilled with minimal wear and tear

 Encore Fire Protection

 Full service fire protection

 Northeast, USA
(NY, NJ, MA, CT, RI, ME, NH)

AT A GLANCE



Encore Fire Protection was given the opportunity to test out the SnapDrill on a large project to help determine the efficacy of the drill. The team is happy with this highly innovative tool, and has pulled some key insights from the project.

PROJECT INFO



SnapDrill



500,000 sq. ft. warehouse



ESFR Sprinkler System w/ 3" Schedule 10 steel branch lines

KEY OBSERVATIONS



TOTAL HOLES PER DAY

1

When staged, two technicians can expect to perform 250 holes per day. This includes cleaning the edge, installing a 3x1 mech tee and neatly stacking the pipe lengths.

BATTERY USAGE

2

With (2) battery packs included and each pack lasting an hour, there was zero downtime switching between an active battery and one on the charger.

HOLE SAW REPLACEMENT

3

Though our hole saw was still cutting effectively after 700 holes, SnapDrill suggested switching the saw after 400 holes - this would reduce stress and with low cost, replacement was an easy decision.

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ADDITIONAL NOTES



- **Battery attachment:** Periodically, the battery begins to wiggle off the drill after going through 40-50 holes. We monitored this problem, and it was determined that the battery needs to be reseated occasionally. No other problems were noted, and the issue was very intermittent.
- **Drive Shaft:** One drive shaft snapped after approximately 1,600 holes. Cause was not clear at first. After conversating with Martin @ SnapDrill, it was determined that we were leveraging the feed nut too quick and aggressively. Slightly slowing down on exercising the feed nut corrected this issue.
- A second and third drive shaft was warped and ended up in a corkscrew pattern and stuck in the drill. Part of this was due to being too aggressive with the feed nut. Our other hypothesis was that we had used a few of the hole saw bits past the 400-hole mark. This was causing the driveshaft to work much harder than originally designed to. Replacement hole saw bits are reasonably priced for the tool, so it wasn't much of a concern to swap out at ~400 holes.
- The repairs and replacement of the parts on the drill were very straightforward and easy. Driveshaft replacements are a breeze, and the cost is very reasonable for a wear and tear item.
- It would be our recommendation that the drill kit comes with a pair of pliers to be able to remove the snap retainer to replace the driveshaft.
- The tool is extremely quick to learn and provides little wear and tear on the body of the technicians. The drill auto feeding the bit takes the stress away of having to generate your own leverage to push the bit through.
- Thanks to the configuration of the claw mechanism and the body of the SnapDrill, it does a fantastic job of containing the steel shavings coming off the pipe. There is no debris being launched into the working area around you while making your penetrations.