Hand Tool Technological Breakthrough Decreases Turnover Times and FOD

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Unintended Tool Disconnects

- Occur daily
- Waste time
- Damage expensive equipment
- Injure personnel
- Cause fatigue and frustration
- Stop missions

A New Technology for Connecting Hand Tools

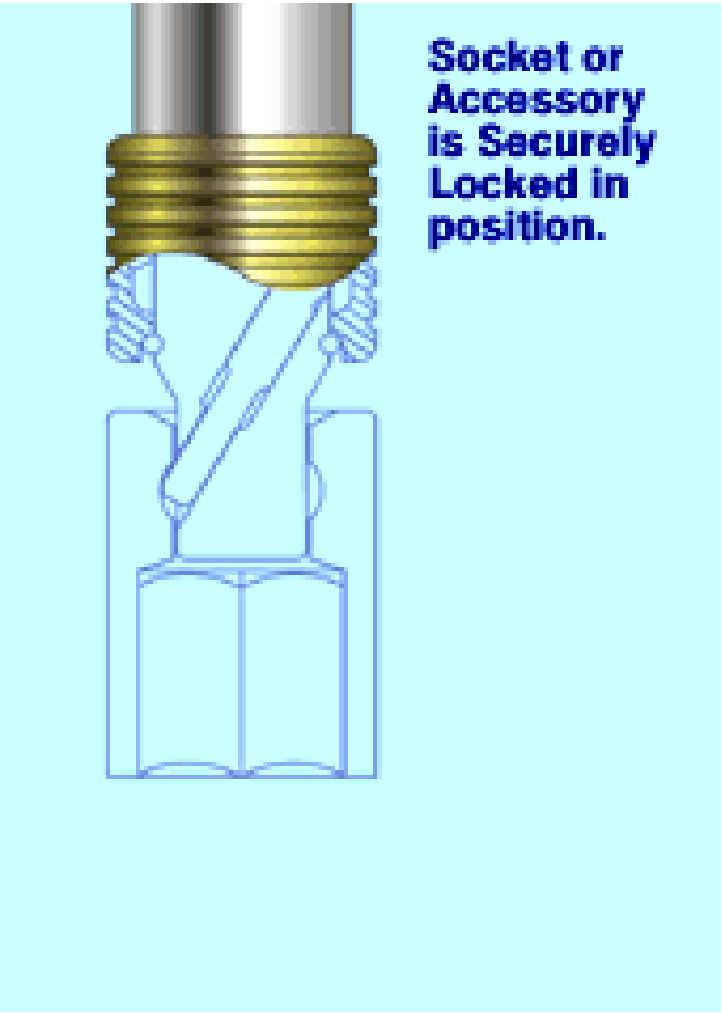
- The current use is a spring loaded ball retention system - nearly 100 years old
- Tape, solder, reinforce to compensate but the retention system is inherently flawed
- A next generation connecting technology has been designed specifically to eliminate unintended disconnects
- Design is universal for all drive tools

A New Technology for Connecting Hand Tools (p. 2)

- Keeps every tool locked from the mechanics hand to the work
- Locks with a simple push on
- Retention technology incorporates quick release mechanism
- Technology increases speed of tool changes

How It Works

The male end of every drive tool contains an autolocking mechanism enabled by a spring-actuated diagonal steel pin which becomes wedged immovably against the solid wall within the detent of another tool or socket.



How It Works (p. 2)

The greater the force to pull apart the connection, the tighter (and thus, stronger) the lock becomes, eliminating all tools coming apart when in use.

Benefits

1. Costly dropped or stuck sockets and tool disconnects are eliminated.

- Per mechanic:

6 minutes per day

1/2 hour per week

25 hours per year

Benefits

- Per Service Branch:

  Air Force has 74,000 mechanics

  = 1,850,000 man hours saved

How many mechanics in Army, Navy, Marines, Coast Guard, National Guard?

Benefits

2. Elimination of tool disconnects decreases the risk of a FOD event from tool usage.

- Ability to lock at every connection means a custom tool can be created for any job in seconds:

3. Hard to reach bolts and screws are made easy.
4. Body strain is reduced.

Benefits

5. Quick releasing and staying together are no longer mutually exclusive, increasing speed of use.

6. The bottom line is jobs take less time. Turnover time is reduced, productivity is increased and morale is boosted.