

The TopTorque™ Precision Reactionless Bolting System uses reaction-tip bolts and counterrotating drivers to internally react the torque applied to a nut and bolt. This increases the safety and efficiency of using powered torque wrenches by removing the requirement for a reaction arm. The Reaction Driver is for tightening & loosening TopTorque Assemblies (bolt/nut/washer) and the Release Driver is for releasing Segnuts. ENGENTUS has partnered with NORBAR AUSTRALIA to provide TopTorque Battery Powered Tools and Drivers.

SAFETY BENEFITS

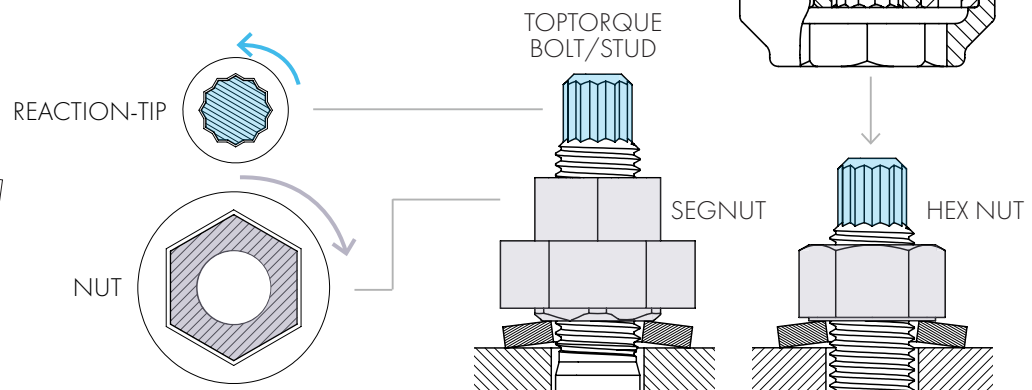
- Eliminates hand crush & pinch hazards from reaction arms.
- Eliminates uncontrolled movement of tool from reaction arm slipping off reaction points.
- Eliminates Hand Arm Vibration Syndrome (HAVS) — no impact tightening.
- Eliminates Noise Induced Hearing Loss (NIHL) — no hearing protection is required.
- Eliminates slips & trips — battery operated.
- Enables single side tightening after bolt is in place — no need to hold the bolt head.
- Better tool ergonomics — supports its own weight while applying torque.
- No oxy cutting during fastener removal (SEG system).

ENGINEERING BENEFITS

- Reliability: Prevent Joint failures by ensuring the correct tension is applied to every joint. Tool calibration occurs at Norbar NATA accredited labs and the fastener assemblies are batch tested to determine their torque-tension relationship (K-Value).
- Accountability: Record the date, time and torque of every tightening operation for quality assurance and control. Torque settings can also be preprogrammed and locked.

SYSTEMS

1. HEX: Fastener assembly is supplied with a conventional hex nut. This system is to be used in applications where fastener seizure is not a problem, and only requires the Reaction Driver.
2. SEG: Fastener assembly is supplied with a Segnut. Ensures safe, reactionless **installation and removal**. A Release Driver is used to release Segnuts with the TopTorque Power Tool.



NO REACTION ARM



NO RATTLE GUN



NO OXY (SEGNUT)



RELIABILITY & ACCOUNTABILITY

