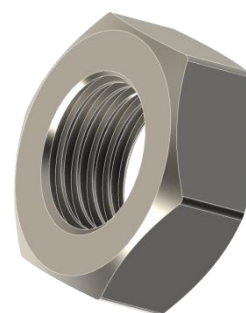
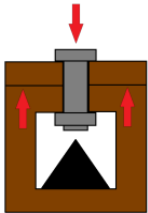
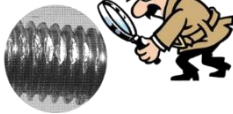




Tensioner Nut vs. Hex Nut



Tensioner Nut	vs.	Hex Nut
Only hand tools are required for any size tensioner nut.	Tooling 	Above 1" in or M24 Diameter, Hex nuts require expensive and potentially dangerous high energy tooling.
Requirement of space for tensioner bolt joint is less. So it will help to reduction in tooling size, reduction in handling size, material cost etc.	Design 	Tooling requirements can cause problem with space restriction, awkward locations.
Allows for higher preloads on the same size bolt due to pure tension. Added elasticity help to increase fatigue life of bolted joints.	Preloads 	As size increases, the required torque increases by a power of three. it is difficult to achieve proper preload levels. Torsional stresses reduce use of material strength.
There is only small hand tighten tool required for installation so safety is higher. There will be no safety hazards from hydraulic pressure, heavy lifting, large tool, socket break etc.	Safety 	Injuries to fingers, hand, back, and face can occur when using common bolting methods.
Using air tools & multiple workers can results in time and labour savings.	Installation Times 	Set-up time plus actual tightening for common bolting methods used with hex nuts usually result in longer installation times compared to NMTG tensioner Nut
Removal process is easy so that it will help to reduce down-time with compare to standard bolting system.	Removal Process 	Above 1" in or M24 Diameter, Hex nut removal process is very tuff due to expensive and potentially dangerous high energy tolling required.
Even tightening in pure tension method eliminates thread galling that commonly occurs with direct torque method.	Thread Galling 	Threads slide during tightening, thus galling and stud seizure are common.
Tensioner bolt joint will never come loose in service. So it will help to reduce downtime.	Downtime 	Removal process in Hex bolt is difficult because of jamming issue after long time. So downtime will be higher.