A new definition of thread testing:

► Test nutrunner with changeable thread gauges and advanced DSM measuring technique.

The use of thread gauges ensures that your internal and external threads are checked precisely.

The integration of a DSM test nutrunner in combination with intelligent measurement technology opens up a new dimension in thread testing. This enables not only automated and stable test sequences, but also comprehensive documentation of the entire process.

Thanks to the modularity of our test nutrunner and control system, its equipment can be flexibly adapted to the respective requirements. Whether it's the nutrunner itself, the low-backlash output adapted to it, an attachable position sensor or the execution of the thread gauge – our testing system enables efficient inspection of all threads in your production process.

► Example sequence of a thread test:

The nutrunner is moved via a feed unit until the thread plug gauge rests on the thread. Then it continues to feed the nutrunner until the stop reaches the reference surface and the output is compressed.



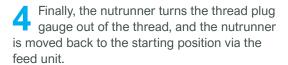
2 In the first test stage, the nutrunner is rotated against the turn-in direction. Thereby, a stroke measurement is used to detect the jump from the thread entry to the first thread turn in order to detect the start of the thread.



In the next step, the nutrunner turns the thread plug gauge into the thread in the turn-in direction. This can include checking the thread through different procedures such as friction coefficient testing or depth measurement.



→ For additional information, please see page 2





▶ Every step of the testing process is precisely controlled, monitored and evaluated by our control system. The results and graphic data of the thread test are documented and are available for further analyses.

(A) Nutrunner DS 34 series

Servo motor, gear unit with precision gear wheel bearing, digital torque sensor and absolute angle encoder, illuminated field for status display



(B) Low-backlash spring output

30 mm or 50 mm spring deflection, optional with adjustable spring force, with angle compensation

(C) Position sensor module

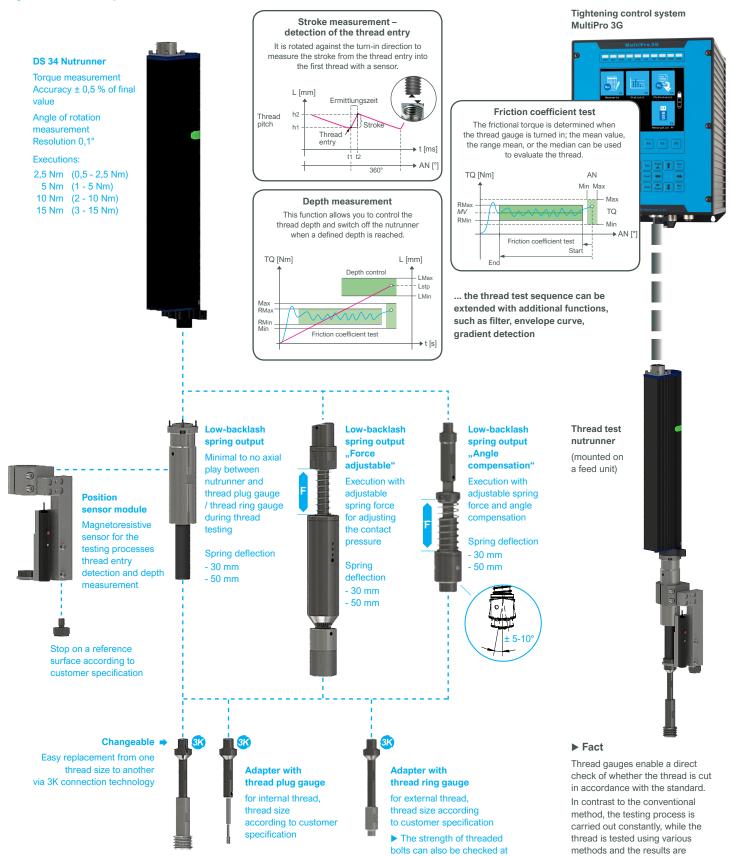
Magnetic field sensor for detecting the start of the thread and for depth measurement, assembly kit, optional with stop for easy positioning on the reference surface



Changeable adapters with a thread plug gauge or thread ring gauge for different thread sizes



Thread testing nutrunner design, equipment variants, system concept



the same time!



documented.