

TORQUE TURN SERVICES

SPI exclusively uses the AllTorque GEN II Torque Control System – pairing continuous torque, turns, and speed monitoring with a qualified representative who interprets each graph against OEM criteria and has the authority to stop an unacceptable makeup.



ALLTORQUE GEN II ON THE RIG FLOOR

30,000 Hz

SAMPLING FREQUENCY

±1%

TORQUE CONTROL

<0.1%

TURNS ACCURACY

40 Years

SECURE DATA STORAGE

24/7

TECHNICAL SUPPORT

WHY SPI TORQUE TURN

Exclusive AllTorque GEN II system

Rig-floor-ready modular hardware with robust load cells and load-cell calibration under 0.1%.

Encrypted, non-editable data

Data is encrypted at the first stage of measurement – field personnel cannot hide or edit recorded values.

Individual graphs + final report

Customizable PDF reporting with a graph for every monitored connection – makeup and breakout on request.

Qualified interpretation, on the spot

An SPI representative compares every graph with OEM criteria and can stop or reject an unacceptable makeup.

Live remote visibility

Authorized operators, running companies, and OEMs monitor live jobs through a controlled web portal.

Continuous cloud backup

Real-time cloud backup with automatic joint detection and continuous recording throughout the job.

**THE GRAPH IS A DECISION,
NOT JUST A RECORD**

A final torque number does not tell the full story. SPI monitors the entire makeup cycle in real time – and acts on it while the connection can still be broken out, inspected, corrected, and remade.

ALLTORQUE GEN II SPECIFICATIONS

SAMPLING FREQUENCY	30,000 Hz
RECORDING FREQUENCY	30–1,000 Hz
LOAD-CELL CALIBRATION	< 0.1%
TURNS ACCURACY	Typically < 0.1% of one tong turn
TORQUE CONTROL	±1% of optimum
ELECTRONIC RESPONSE	0.04 ms
DUMP-VALVE RESPONSE	Approx. 10–30 ms
POWER	110–220 VAC · lithium-ion battery backup
INTERFACE	Windows / Surface Pro · cloud-based software
DATA	Encrypted, non-editable · real-time cloud backup
DATA RETENTION	Secure storage published as 40 years

FIELD WORKFLOW

- 1 Review the tubular and connection specification, OEM running procedure, and acceptance limits.
- 2 Confirm tong, load cell, encoder, hardware, software setup, and calibration status.
- 3 Monitor torque, turns, speed, and connection behavior in real time; compare each graph with OEM criteria.
- 4 Stop or reject unacceptable makeups — break out, inspect, troubleshoot, correct, and remake as required.
- 5 Retain individual graphs and issue the final job report.

CLEAR ROLES

The tubular-running company supplies and operates the power tongs. SPI supplies and operates the monitoring system, interprets the data, and holds authority to stop the operation or reject a makeup. Complementary roles — clearer accountability.

WHAT IT DETECTS

- Over-torque, under-torque, incorrect turns or delta turns
- Abnormal shoulder behavior
- Excessive or inappropriate tong speed
- Misalignment or cross-threading indicators
- Contamination, damaged threads, or seal interference
- Unacceptable makeups before they are run into the well

PAIRS NATURALLY WITH

Thread Representative & Tubular Management · Laser Tally · Casing ID Caliper · Well Control Packages