



AUTO-HPU™ A.I. Joint Make-Up

Features and Benefits

Innovative Connection Technology

Meet OCTG manufacturer's specifications each and every time. Cheetah's intelligent AUTO-HPU™ controls rpm, turns, torque, and shift points for any power tong at the power source level. Eliminate human error and dependency on after-the-fact joint analysis.

Operator:

- achieve consistent high-quality well construction
- complete wells efficiently and safely
- reduce overall construction time and cost

OCTG Manufacturers:

- make-up every connection to specification
- ensure premium connections are made without operator error.

TRS Companies:

- Differentiate service capabilities with Cheetah's intelligent technology
- operate efficiently, cost-effectively, and accurately

Field Technicians:

- AUTO-HPU™ simplifies power tong operation
- easy to operate, easy to train, and safe to use

1. Auto make-up of connections

- A) speed control in high and low gear
- B) shift point control during make-up
- C) improved torque control for final make-up

2. Connection make-up to specification everytime without:

- A) human error
- B) cross threading damage

3. Compatibility

- A) use any power tong with Alltorque control system
- B) compact and lightweight
- C) easy to use
- D) easy to train

4. Customer Support

- A) 24/7 globally
- B) training on demand

5. Intigration with Torque Turn System

- A) real time connection analysis:
 1. final torque
 2. shoulder torque
 3. shoulder slope
 4. delta turns
 5. minimum turns
- B) user friendly software interface with field proven AllTorque control system

Outrun the competition with Cheetah 



Cheetah's AUTO-HPU™ consistently and correctly controls the OCTG specs for: rpm, turns, and torque.

Speed Control

Controlled rpm at the connection start reduces the potential for cross-threading. Excessive rpm is the #1 source of connection make-up issues:

- Buttress connections, relying on position/turns, are often made-up too fast resulting in over-torquing.
- Premium connections, made-up with constant speed in low and high gear, will result in correct and clearly defined shoulder points, mitigating galling and thread damage.

Acceptance of connections is significantly improved with clearer and more consistent graphical display and data analysis.

Torque Control

Controlled flow at the power source reduces the potential for cross-threading, over-torquing, and other anomalies.

- Spiking torque values due to slipping dies, backups or equipment failure can result in damaged or crossed connections.
- The ability to differentiate between low and high gear, speed and torque is critical in preventing cross threading damage.

Acceptance of connections is significantly improved with clearer and more consistent graphical display and data analysis.

Safety and Environment

Automated emergency shut-offs manage high temperature and performance limits, with standard E-STOP buttons on the rig floor.

The smaller hydraulic fluid reservoir in combination with an over-sized cooling system reduces start-up time and improves extreme temperature performance. The built-in skid containment prevents leaks or spills.

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