COUPLING STARTER & SCREW-ON MACHINE

MODEL CST07/CS007
48.3mm to 177.7mm*
1.9” to 7”
*Nominal Pipe Size

Designed for API & Premium Connections

- Automatically Applies Tubing and Casing Couplings
- Controls and Measures Torque, Turns, Stand-Off, “J” Dimension and Shoulder Torque/Turns for Premium Connections
- Displays and Stores Final Values & Graphical Profiles on Operator Interface Terminal (OIT)
- PC Based Windows® Operating System & Data Logger

Tooling designed in accordance with product specifications.

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CST07/CSO07

TECHNICAL SPECIFICATIONS

COUPLING STARTER:
- Spindle Speed, Feed and Torque are Independently Controlled
- Floating Spindle Prevents Misalignment of Coupling to Pipe
- Hydraulically Actuated Gripper Head
- Hydraulically Actuated Pipe Chuck with Adjustable Clamping Pressure
- Automatic Coupling Length Measurement
- End of Cycle Options
  - By Torque - 550 N-m max. (400 ft-lbs) max.
  - By Coupling Displacement
- Automatic Measurement and Recording of Preliminary “J” Dimension
- Coupling Loading Chute for Automatic Operation
- Automatic Coupling Greaser with Air Transfer Pump and Flow Measurement

COUPLING SCREW-ON:
- Spindle Speed: Variable
- Spindle Motor power: 75 kW (100 hp)
- Make-Up Torque: 20,000 N-m (14,500 ft-lbs)
- Self Centering Pipe Chuck
- Hydraulically Actuated Pipe Chuck with Adjustable Clamping Pressure
- Hydraulically Actuated Coupling Chuck with Adjustable Clamping Pressure
- Automatic Measurement and Documentation of Torque/Turns/Stand-Off “J” and Shoulder Torque
  (Premium Connections)

COUPLING STARTER/SCREW-ON:
- PC-Based Windows® Operating System with Ethernet Connection
- Passive Network Communication with Host Computer
- Overall Dimensions: 3525mm x 2850mm
- Total Weight: 13,000 kg (28,600 lbs)

STANDARD FEATURES:
- Operator Interface Terminal (OIT) with PC
- Motor Control Center (MCC with PLC)
- Hydraulic Power Unit (HPU)
- Tooling for API product
- Pre-programmed Make-up Software for TBG, CSG, LCGS and BCGS Product
- Operator Programmable for All Products
- On-Board Operator and Maintenance Manual at Operator Station
- Self Diagnostics Programmed into Machine Control Logic
- Walking Beam Transfer Table

OPTIONS:
- Torque Calibration gauge
- Sub-Base Completely Piped and Wired for Machines and Transfer Table
- Tooling and Programming for Premium Connections
- 50,000 N-m (35,000 ft-lbs) Torque Capability for Premium Connections