



177.7mm to 508mm

*World Leaders in Tubular  
Finishing Technologies*

# COUPLING STARTER & SCREW-ON MACHINE

MODEL

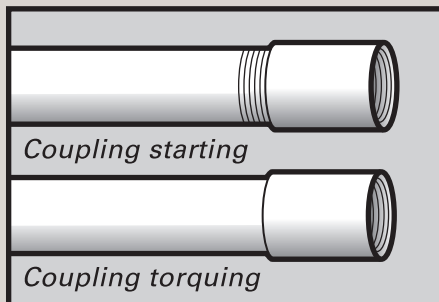
## CST20/CSO20

177.7mm to 508mm\*  
7" to 20"

\*Nominal Pipe Size



CST20/CSO20



*Tooling designed in accordance  
with product specifications.*



Park-Ohio  
Company

[www.pmc-colinet.com](http://www.pmc-colinet.com)

## Designed for API & Premium Connections

- Automatically Applies 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



MODEL  
**CST20/CSO20**  
TECHNICAL  
SPECIFICATIONS

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**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 - 680 N-m max. (500 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: 150 kW (200 hp)
- Make-Up Torque: 35,000 N-m (25,800 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: 4100mm x 4200mm
- Total Weight: 18,000 kg (40,360 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, LCSG and BCSG 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

CST20/CSO20

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