



### *Flush-Mounted Spider (500 Ton)*

The flush-mounted spider (FMS) is a casing spider that allows lowering of the casing connection to a safer, more efficient 3-ft (1-m) working height. The FMS consists of two hinged body halves, top-mounted lifting lugs, slip assemblies, and top/bottom guides. The FMS fits into standard 37 1/2-in. National, Emsco, and Oilwell rotary tables. The design uses slip assemblies and guides from 4 1/2- to 14-in. OD.

#### *Applications*

- Casing operations from 4 1/2- to 14-in. OD where appropriate rotary is available

#### *Features, Advantages and Benefits*

- Hydraulic connections and lubrication points are located on top, saving time by allowing quick hydraulic connection and easy maintenance while the FMS is mounted in the rotary.
- Sturdy top cover enhances the safety of personnel working around the wellbore throughout casing operations.
- Spider eliminates the need for scaffolding and work platforms during casing operations, thereby increasing workspace and safety on the rig floor.
- Slip power-down feature allows the FMS to absorb up to 35,000 ft-lb (47,450 N•m) of tong torque reaction, eliminating the need to use cumbersome manual backup tongs until the string weight is sufficient and increasing safety and efficiency.
- Hinged body design allows the FMS to be removed from the rotary table when the casing string is suspended in the elevator.
- Top/bottom guides and hydraulic power-down feature preload the slip setting and center casing in the rotary for improved efficiency.
- Unit can be operated with an air or hydraulic power unit or with rig hydraulic power, providing versatility for several applications.

