

Tubular Running Services

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.



Weatherford International Ltd. 515 Post Oak Blvd., Suite 600 Houston, Texas 77027 USA Tel: 713-693-4000 www.weatherford.com

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