

VERTICAL TUBULAR HANDLING MOUSEHOLES

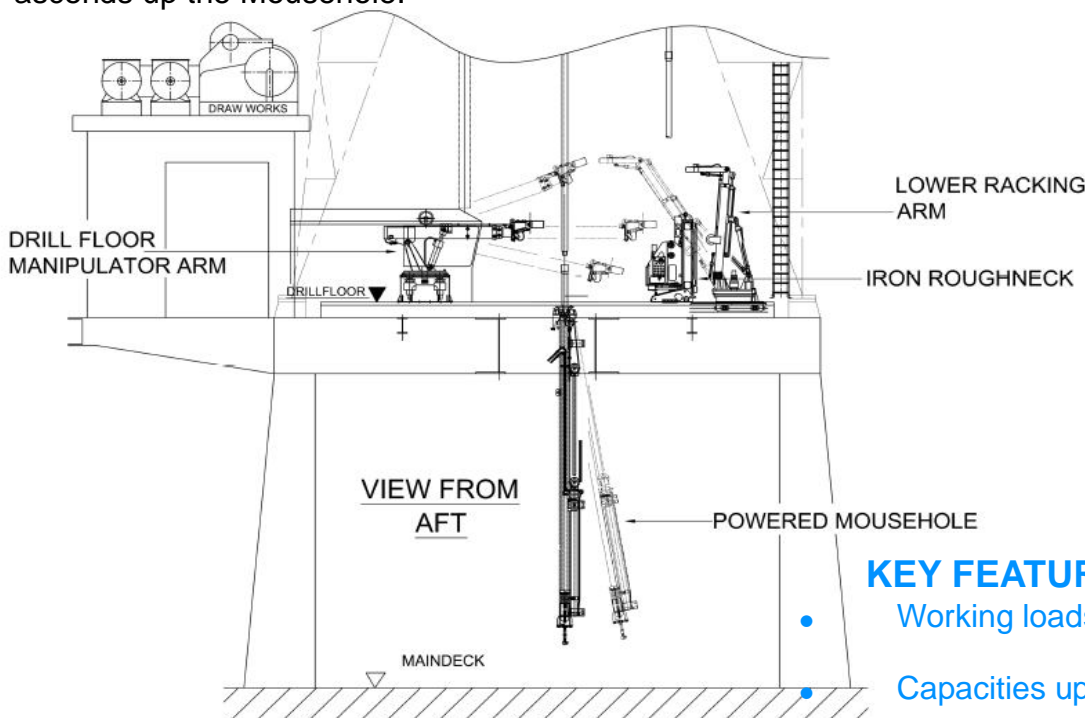


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The Mousehole is a receptacle and handling device for various Tubulars used in drilling operations and operates in conjunction with other drill floor equipment, for the making up/break out of Stands away from well-centre (typically Triples for racking back). It is mounted vertically beneath the drill floor to enable Tubulars to be positioned beneath drill floor level, presenting the tool joint at the elevation of the roughneck / tongs.

Of Tubular construction, the Mousehole incorporates a moveable plug called the Rabbit, which can be raised or lowered vertically within the Mousehole, to position the inserted Tubular to the required height during make up or break out operations.

The Rabbit is raised and lowered by a wire rope and sheave arrangement powered by a hydraulic cylinder, mounted externally on the Mousehole. As the cylinder rod extends the Rabbit descends down the Mousehole. As the cylinder rod retracts the Rabbit ascends up the Mousehole.



KEY FEATURES

- Working loads up to 10,000 kgs.
- Capacities up to 9½" drill collar.
- Lengths to suit stand building capability / main deck headroom.
- Rabbit travel to suit stand building sequence.
- Rabbit incorporates dropped pipe shock-absorber.



DESIGNED & CONSTRUCTED
TO OPERATE IN SAFE AREAS



VERTICAL TUBULAR HANDLING FINGERBOARDS



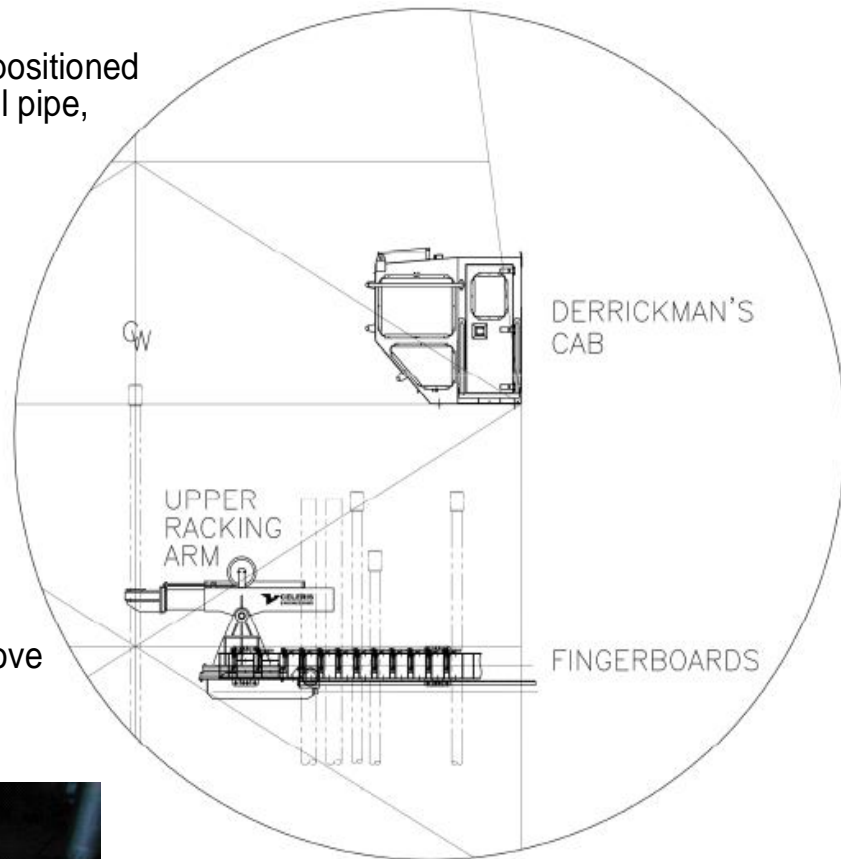
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The Fingerboards consist of a series of fingers positioned over the setback area within which stands of drill pipe, drill collar and tubing are 'racked back' and restrained from horizontal movement.

On each of the finger rows, a series of pneumatically operated latches are arranged in order to retain each stand independently and safely.

Fingerboard sequences are operated in conjunction with the vertical pipe-handling system, ensuring safely captured stands throughout the handling sequence.

The fingerboards are typically operated from a derrickman's cab situated high in the derrick above the fingerboards, thus requiring no manual intervention by a derrickman.



KEY FEATURES

- Pneumatically operated.
- Control options available.
- Can be retro-fitted to suit existing setbacks.
- Fail-to-safe closing latches. (Sprung closed, powered open)
- Capacities to suit for varying tubulars.

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