TUBULAR HANDLING EQUIPMENT

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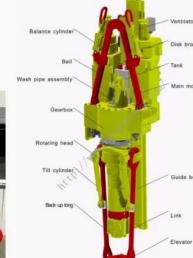
Equipment used to move, make and break connection, suspend tubular on the rig. These include the following:

1. Elevator Links	7. Safety Clamp
2. Elevator	8. Tongs
3. Lifting Subs	9. Kelly Spinner
4. Lifting Plug	10. Drillpipe Spinner
5. Tugger/Winch	11. Iron Roughneck
6. Slips	12. Bit Breaker

1. Elevator Links

Equipment attached onto the Traveling Block in order to suspend the Elevators.





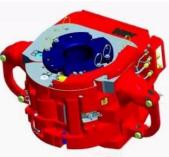






Clamps that grip a stand of casing, tubing, drill pipe or drill collars so that the stand or joint can be raised from or lowered into the hole opening of the rotary table.







<u>Slips</u>

Slips for hanging the string on rotary table: A, drill pipe suspended inside the rotary table; B, close-up of pipe-slips







Safety Clamp

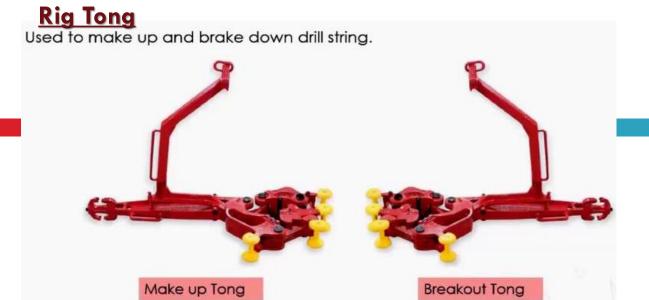
The are used on tubular above the slips to prevent dropping the string should the slips fail to hold.





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Used to make up and brake down drill string.





Drill pipe Spinner

A pneumatically operated device usually suspended on the rig floor used to make fast connections and spin off of drill pipes.





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Bit Breaker

A device that is placed on top of the rotary table to enable the bit to be made up to drill string.







Thanks!