

OWS Wellbore clean-up technology

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# RaptR™ Relockable Safety Swivel



A part of the **RaptR™ Liner Cleanup System** the **RaptR™ Relockable Safety Swivel** is a downhole safety device which prevents twist-off of the drill pipe due to over-torque which can be relocked when desired.

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## FEATURES

- External shear pins can easily be removed or added on site to achieve the desired over-torque shear rating
- Upper Bearing and Lower Bearing allow rotation in compression and tension
- Internal circulation system keeps the Lower and Upper bearings cooled and lubricated when in use
- Simple ball activated relocking method to relock the swivel during operations to allow full string rotation if required
- Compatible with other OWS ArmRdillo™ WellBore Clean-up tools

## BENEFITS

### Cost Savings

- Maximize chemical clean-up and displacement efficiency by allowing high speed rotation inside the production liner

### Increases Well Productivity

- A properly executed wellbore clean-up removes fine debris which can block screens and pore throats reducing well productivity

### Integrity

- Prevents accidentally twisting off lower string

### Reducing Non-Productive Time

- Prevents unnecessary fishing jobs

## APPLICATIONS:

- Pre-completion wellbore clean-up operations which include a production liner
- Drilling or milling with a tapered string to prevent accidental twist-off

## OPERATIONAL

- Determine the torque protection setting of the **RaptR™ Relockable Safety Swivel** and add or remove the shear screws at surface as required.
- In the event of excessive torque in the lower string below the **RaptR™ Relockable Safety Swivel** the shear pins will shear which activates the swivel.
- With the swivel activate the internal impeller system continuously flushes the bearings to keep them cooled and lubricated. The swivel works in both tension and compression.
- If desired the **RaptR™ Relockable Safety Swivel** can be re-locked by dropping an activation ball and pumping down to a ball seat. By applying pressure the spring-loaded locking mechanism is cocked. Increasing the pressure blows the ball seat to re-establish flow to the bit and relocks the swivel.



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