

# RRU

## Ripper Reamer

### Ultra Durable Hole Opening Technology for your most Difficult and Demanding Applications

**Description:** The heavy set PDC cutter blocks are designed to ensure hole opening and back reamer in the most demanding offshore application.

**Application:** The Ripper Reamer is designed to be run in high cost well bores where durability and reliability are critical to meet the well bore objectives.

#### Features and Benefits

- ❑ Reliable hydro mechanical system activates by pushing the cutter block up and out against the formation ensuring full hole opening.
- ❑ The system deactivates when pumping is stopped resulting in the spring loaded drive mandrel pushing the cutter block down into the tool body for a positive full cutter block retraction.
- ❑ The fixed main body nozzle configuration allows easy nozzle selection for operators and optimized drilling hydraulic performance.
- ❑ Activation mechanism is reliable and effective giving a clear indication tool has activated.
- ❑ The Ripper Reamer cutter blocks provide the operator with large rugged PDC cutters for both down reaming and back reaming operations.



*The Ripper Reamer offers unique features while maintaining a strong rigid design*

**High Value - High Performance  
Less Cost per Stage**



Calgary  
400, 707 – 7<sup>th</sup> Ave. S.W.  
Calgary AB T2P 3H6  
403-984-3274

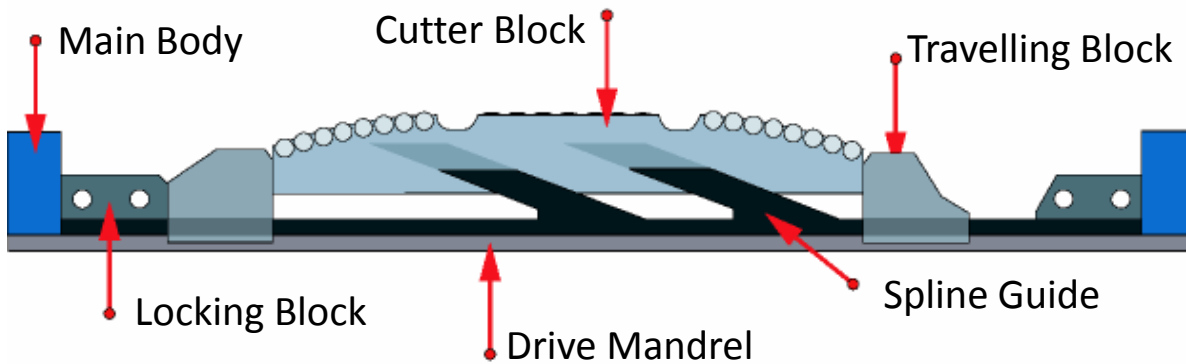
Edmonton  
9551-56 Avenue  
Edmonton, AB, T6E 0B2  
780-463-4648

[www.csioiltools.com](http://www.csioiltools.com)  
Patent Pending

# RIPPER *Reamer*

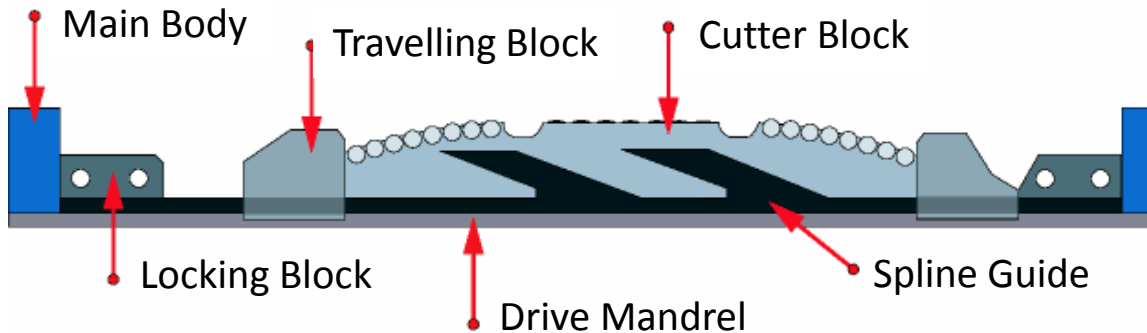
## Cutter Block Assembly

*Activated Position*



## Cutter Block Assembly

*Deactivated Position*



**High Value - High Performance**  
**Less Cost per Stage**



Calgary  
2210, 777 – 8<sup>th</sup> Ave. S.W.  
Calgary AB T2P 3H6  
403-984-3274

Edmonton  
9551-56 Avenue  
Edmonton, AB, T6E 0B2  
780-463-4648

[www.csioiltools.com](http://www.csioiltools.com)  
Patent Pending