

# HIPPO® TURBINES

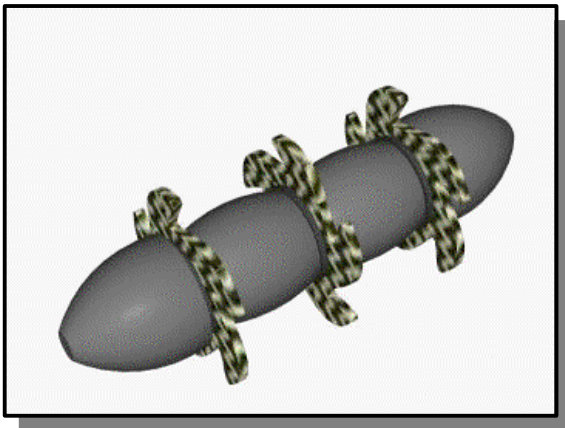
## Internal Cleaning for Coiled Tubing



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### Description

The Hippo® turbine is a patented device for the internal mechanical cleaning of coiled tubing. The Hippo is pumped through the coiled tubing to effectively remove rust and debris which is not otherwise removed by rubber or foam plugs.

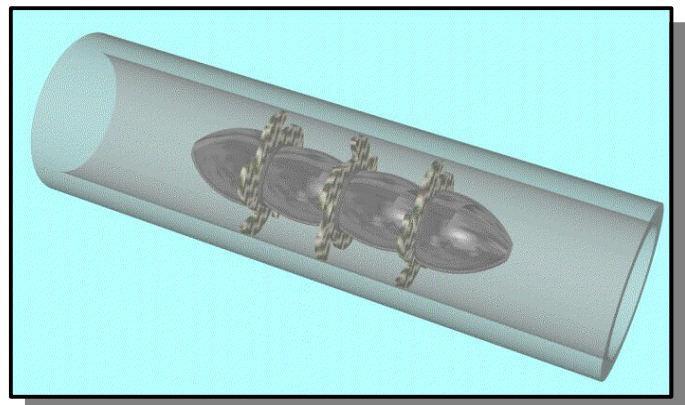


### Product

The Hippo consists of three turbine shaped blades mounted on a high strength body (See inset). The blades are manufactured from a kevlar carbon composite material, are robust yet flexible and do not damage the inside of the coiled tubing. There are two versions of Hippo namely the coarse cleaner and the final cleaner. See our website to download video and animation ([www.hamdeen.com](http://www.hamdeen.com)).

### Application

The application of Hippos is recommended as part of the routine pre-job maintenance however field application is also possible. As the Hippo is pumped through the coiled tubing it rotates and orbits within the pipe thereby dislodging debris from the internal wall. The by-pass feature within the Hippo allows the debris to be flushed ahead thereby permitting the Hippo to maintain its cleaning efficiency.



**Before and After Hippo Application**

### Advantages

- Avoids debris discharge from the coiled tubing into the wellbore
- Prevents accidental plugging of the BHA
- Application is performed as part of the routine pre-job preventative maintenance
- Reduces likelihood of pin-hole development and subsequent mechanical failure
- Environmentally friendly option to the use of pickling chemicals