

Prototype Tool Report

CoilTools JetAge rotary jetting tool is a next generation, thru-tubing jetting / cleaning tool currently in the later stages of qualification testing. The latest prototype design is currently being manufactured for the final stage of advanced testing to determine operating specification and parameters with the aim of having a production tool available for customer testing or field trial by summer 2021.

The tool has been designed to aid wellbore cleaning by providing high impact, 360 degree jetting coverage for the removal of a variety of downhole restrictions and debris including sand, scale, wax, paraffin, etc.

Rotation is provided by means of an all-metal power section which means that tool rotation is completely independent of jet nozzle configuration and pressure drop, providing the operator with greater flexibility and the potential to reduce circulating pressures, and hence increase flow rate. There are no complicated hydraulic calculations required to set-up the tool. Tool rotation can also be adjusted to suit operating requirements. The all-metal power section is compatible with a variety of fluids including acid, nitrogen or other gasses.

Another key design feature was to minimise the use of elastomeric seals for improved reliability and extended operating times. The tool is completely pressure balanced meaning that downhole hydrostatic pressure has no adverse effect on performance.

Redress of the tool is also quick and simple and can be easily performed in the field with no special tooling required.

Key Features and Benefits

- Variable rotation speed
- All-metal power section
- Quick & simple field redress
- Compatible with most fluids including acid & nitrogen
- No complicated hydraulic program required for set-up
- Rotating head can be configured to customer requirements

