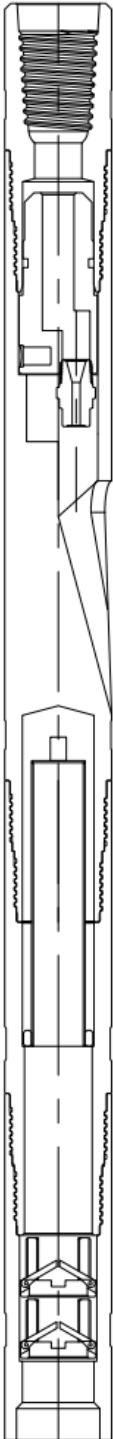




Venturi Jet Junk Basket



The Venturi Jet Junk Basket is used to remove debris from a well bore. The tool acts as a vacuum cleaner sucking debris from the well bore into the debris chamber where the cages keep the debris from falling back into the well bore, and the debris screen stops the debris and prevents it from clogging the space between the nozzle and Venturi tube.

The removal of the debris from the well bore is achieved by pumping fluid, gas, or a combination of both down the inside of the work string to the Venturi Jet Junk Basket. When the fluid reaches the tool, the fluid exits the nozzle and creates a vacuum around the outside of the nozzle by transferring the energy from the fluid being circulated to the fluid in the Venturi tube. This also creates a vacuum at the bottom of the cage housing sucking the debris into the debris chamber.

The debris chamber may be enlarged by adding debris chamber extensions, which are basically washpipe pup joints. The nozzles can be replaced allowing multiple combinations of flow rate and pressure differential. The tool can be used with a mud motor. The cage housing may also be dressed with tungsten carbide for usage in milling and washover operations.