

## PARVEEN PACKER MILLING TOOL

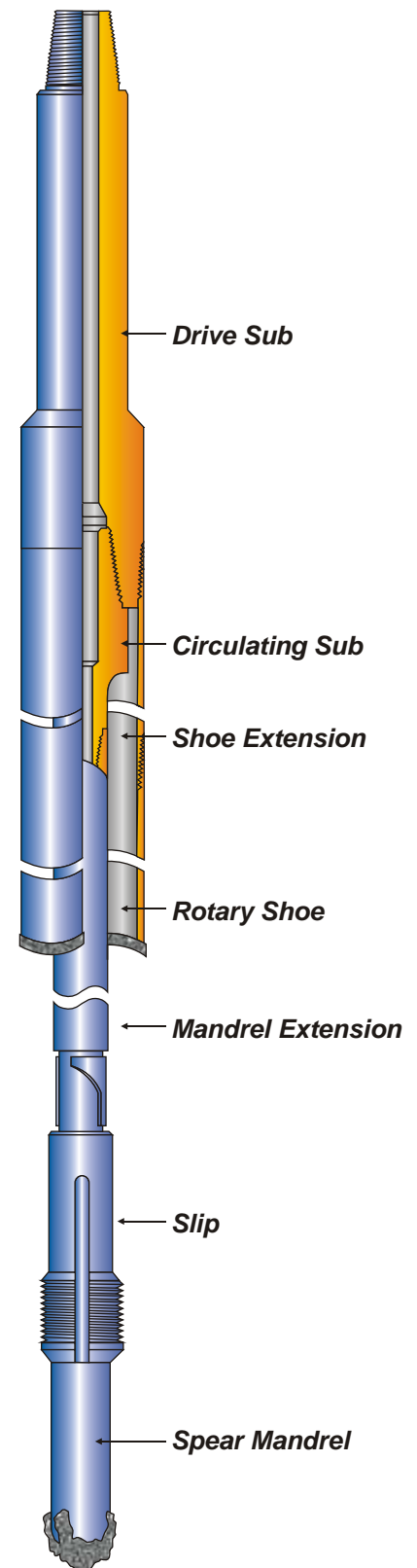
### General Description

The PARVEEN PRS Packer Milling Tools (Packer Retriever) is an internally engaging fishing tool designed for the retrieving of production packers. With its accessory components (Stinger, Bushing and Mill Shoe) it passes through the bore of the packer, mills the packer slips loose and pulls the packer after it has been milled over, all in one trip. A Packer Retriever is assembled with the proper size slip to engage the bottom of a specific bore packer, and made up on the lower end of sufficiently long stinger (extension) to permit the Retriever to be lowered completely through the packer during the milling operation. The Bushing is provided with a box connection at its lower end to attach the Stinger, also a pin connection at the lower end for attaching Mill Shoe, and a pin or box connection at its upper end for connection to the run-in or fishing string.

### Operation

Make up a complete PARVEEN PRS Packer Milling Tools consisting of Retriever, Stinger, Bushing and Mill Shoe. Make sure that the tool is compatible with Casing and Packer sizes and will permit proper and safe operations of the milling and retrieving operations.

Lower the fishing string until the Mill Shoe contacts the slips of the packer. Milling operations may begin until drill off conditions are established. Generally, light drill loads should be used to start to enable the shoe to cut the thin bevel upper parts of most packers away until full mill shoe face contact is established. Additional weight may be added to establish optimum conditions. Rotary Speeds must be established that are sufficient with a given weight, to burn or abrade the carbide particle matrix away to expose the successive new cutting edges of carbide particles. When this condition is established the Mill Shoe will cut almost any metal with maximum efficiency. Start circulation and right-hand rotation to mill away the slips and seating element of packer. When the packer begins to slide down the hole, stop rotation, raise the fishing string to engage Packer Retriever with packer and then pull the assembly and fish from the hole. The best condition of removal for most makes of full bore production packers is to mill up the upper slips and approx. half of the packing element before retrieval is attempted.





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### **To Release the Retriever**

For any of several reasons, it may be required to release the Retriever from the packer. Release of the Retriever is accomplished by elevating the fishing string until weight is indicated. Lower the fishing string about three to four inches. Rotate the string right hand and slowly elevate the string to withdraw the Retriever from the packer.

Confirm the following:

- 1) That the Retriever is assembled with the correct size slip for the packer to be caught.
- 2) That the Stringer is sufficiently long to permit the Retriever to pass completely through the packer.
- 3) That the Bushing and Mill Shoe are the correct size for the casing specifications.

Make up complete assembly to the fishing string. (Scrapers or drift tools should be run prior to running the Milling Tool to depth. The casing in which the packer is to be removed should be washed clean to the packer top and a fluid and pump equipment must be selected that will clean the mill shoe and remove all cuttings from the hole as the packer is mill-up) Lower the Retriever in to the hole on the fishing string and pass it through the packer. The Retriever must clear the packer bore and be in a free position below the packer before milling or rotating of the string. If there are restrictions below the packer such as perforated nipples, landing subs or tail pipe, extensions must be used to position the packer retriever well below these points so that the rotation of the string will not foul the Packer Retriever.

Now, raise the fishing string slowly and carefully until it takes weight. This ensures that the Retriever will engage the packer seat.

### **Maintenance**

To guard against mis-runs and to prolong the life of the PARVEEN PRS Packer Retriever it should be completely disassembled, thoroughly cleaned, lubricated and reassembled before storing. Exterior surfaces may be either painted or lubricated to prevent rust and deterioration.