



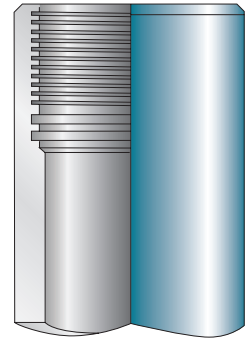
A MILL-OUT SUB

PRODUCT 20-056

The A Mill-Out Sub is run below permanent Seal Bore Packers to allow sufficient inside diameter to accommodate the mandrel and catch of most common packer milling tools.

Standard length is 1.8m (6 ft.). Some packer models may require a mill-out adapter to attach the mill-out sub to the packer.

The A Mill-Out Sub is manufactured from alloy steel and heat treated to a hardness of 18-22 HRC. Other materials are available upon advance order.



A SEAL BORE EXTENSION

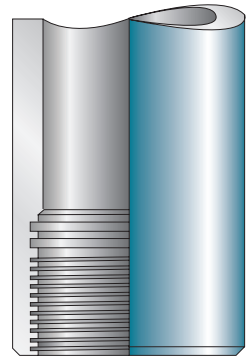
PRODUCT 20-055

The A Seal Bore Extension is used to provide an additional sealing bore when a long seal assembly is run to accommodate tubing movement and has the same honed I.D. as the packer.

The Seal Bore Extension will attach directly to an A Mill-Out Sub. If no Mill-Out Sub is used, a packer to seal bore adapter may be required.

A Seal Bore Extensions are available in 10 ft. length as standard, with longer or shorter lengths available when ordered in advance. Two or more Seal Bore Extensions may be coupled together using a Seal Bore Extension Coupling.

Seal Bore Extensions are made from alloy steel and heat treated to a hardness of 19-22 HRD. Other materials are available when ordered in advance.



TUBING ADAPTERS

Several different types of tubing adapters are available for Seal Bore Packer system components, along with most common API and Premium tubing connections.

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|---------------------------------------|----------------|
| Packer to Mill Out Adapter | Product 20-054 |
| Seal Bore Coupling | Product 20-060 |
| Seal Bore Extension to Tubing Adapter | Product 20-061 |
| Mill-Out Sub to Tubing Adapter | Product 20-063 |
| Packer to Tubing Adapter | Product 20-200 |
| Seal Assembly to Tubing Adapter | Product 20-099 |

