

RUNNING TOOL FOR DEEP WATER

Abstract of the Disclosure

A running tool for use in handling control modules on a subsea production tree. The running tool is deployable on wire line and includes a column like body and a connector adapted for connection to the production tree. The running tool also includes a hoist system that is selectively positioned by a swiveling jib crane for handling the control modules. A replacement control module can be included with the running tool when the tool is deployed from above the sea surface. After the running tool connects to the production tree, the jib crane can position the hoist for attachment to and removal of an existing control module on the production tree. The hoist can then to attach to and install the replacement control module and can be further manipulated to retrieve the existing control module and stow it onto the body.

Figure 1