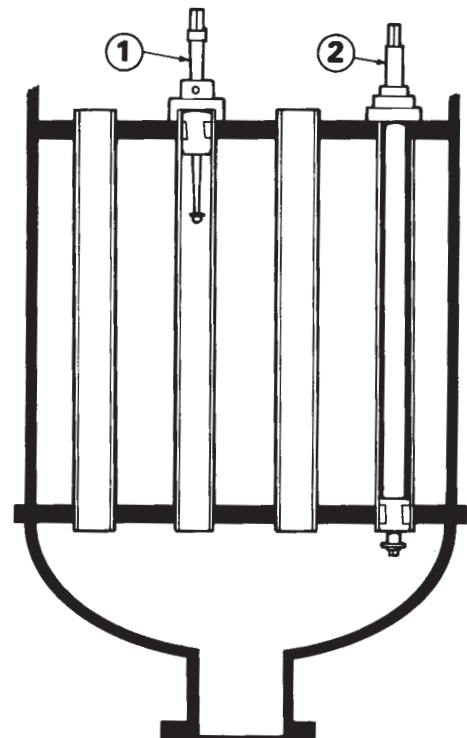


These are fixed rolling length special purpose tools which may be power or hand-driven; they are of the self feeding parallel-rolling type.

Clockwise rotation of the mandrel causes the tool to increase in diameter and thereby expand the tube to form the seal, whilst its rotation in an anticlockwise direction releases the tool when the expansion is completed.



When ordering please give precise details of the vessel in which the expander is to be used, quoting size and length of tube, distance over tube plates, tube plate thickness and any tube projection details. Ideally a drawing should be provided.



The diagram above illustrates: (1) an "SB" parallel rolling type expander to locate and seal the tube in the upper tube plate and (2) the long-body Sugar Refinery expander operated from the upper tube sheet area.