



## Babcock Wire

### Variable Tension Accumulator

The variable tension accumulator is used to control both the wire tension and the spooler speed. The accumulator is positioned between the annealer and the spooler in a rod breakdown line.

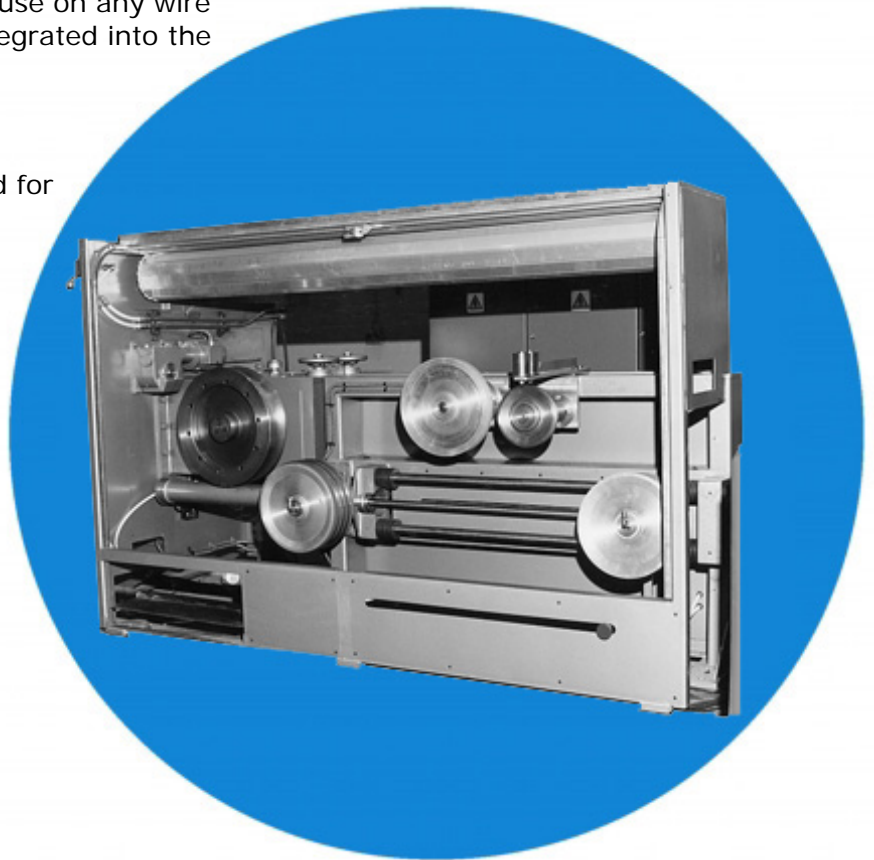
The accumulator can be vertical or horizontal in operation. In either case the machinery comprises a set of fixed and a set of moving sheaves around which the wire is threaded. The moving sheaves are mounted on slides and tension is applied to the wire by a pneumatic cylinder acting on the moving sheave bank. Varying the cylinder air pressure sets the desired wire tension. During operation the wire tension remains constant.

The position of the moving sheaves is detected electronically and this is used to control the spool speed. Where a twin spooler with automatic spool change is used, the accumulator is necessary to maintain an even tension at changeover.

A length and line speed measuring wheel is incorporated into the design for use in the spooler control. The accumulator is provided with interlocked access guards.

The design can be adapted for use on any wire drawing spooler and can be integrated into the annealer or the capstan guard.

The sheaves are dynamically balanced and made from hard coated aluminium and designed for the high production speeds of intermediate and rod type wire drawing machines.



Horizontal Variable Tension Accumulator

#### Disclaimer

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