

APPLICATION BULLETIN

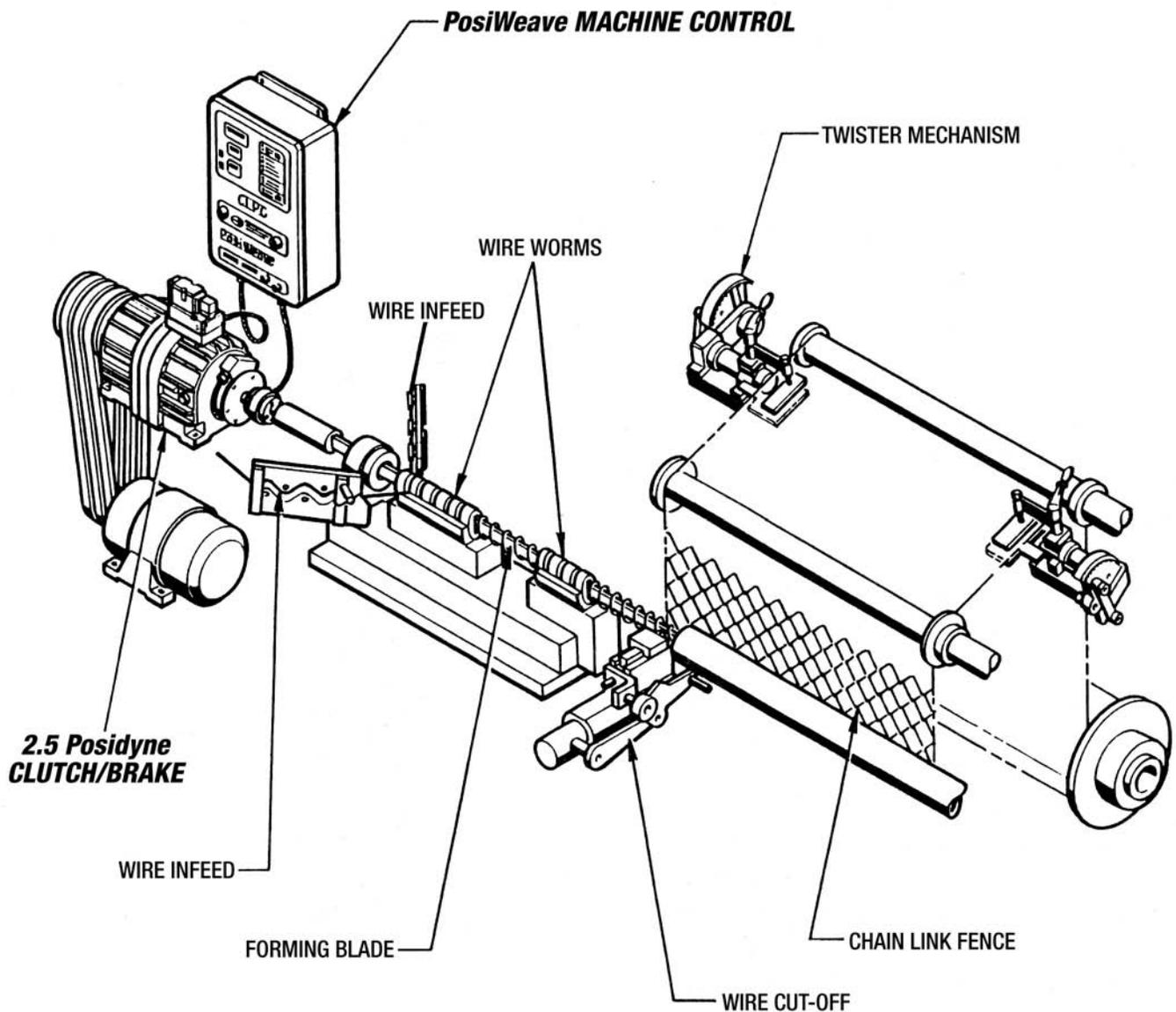


APPLICATION: Fence Weaving Machines

INDUSTRY: Wire Fence Manufacturing

PRODUCT: Posidyne Clutch/Brake With PosiWeave Control

FENCE WEAVING MACHINES



PosiWeave FENCE WEAVER

WHERE THEY ARE USED: They are used on the Bergandi Fence Weaving Machines as the main weaving drive and machine control.

HOW THEY WORK: The **Posidyne** clutch/brake is a multiple disc, oil shear clutch/brake used to start and stop the weaving bar which forms the wire. The **PosiWeave** Control has several functions. (1) It engages the clutch to rotate the proper number of revolutions determined by the height of the fence, and stops the bar in the proper position. (2) It sends an output to actuate the cut-off knife and index the fence. (3) A counter counts the number of cycles to determine a full roll and has an output to mark the roll. (4) A batch counter keeps track of the number of rolls manufactured. (5) A timer determines the delay time for cut-off. (6) An emergency stop function is built in to shut off the machine in case of Wire Jams.

PROBLEMS SOLVED: Many types of problems are solved with the **Posidyne** Clutch/Brake and **PosiWeave** Control. The **Posidyne** Clutch/Brake is a smooth reliable, positive device with which to cycle the winder bar. It eliminates the dry friction clutch (*high wear item*), the hydraulic pump/motor (*leaks, failures, inaccuracy*), and timing gears, dogs, pawls, and mechanical latches (*all requiring high maintenance, and contributing to inaccuracies, and limiting machine speed.*).

The **PosiWeave** Control is used to operate the **Posidyne** Clutch/Brake as well as keep roll length and roll counts. The **PosiWeave** Control includes a clutch/brake positioning control which will accurately turn the weaving bar the proper number of rotations, stopping in the exact position for cut-off. The number of rotations of the weaving bar and the number of cycles before a roll marker is made can easily be programmed into the control for each product. This eliminates all of the timing gears, mechanical linkages, cams etc. currently used to engage the stopping hydraulic motor and holding latch.

IMPORTANT FEATURES:

- The integral positioning sensor and electronic positioning control offer long term positioning accuracy.
- **Oil Shear** technology offers accurate positioning.
- The manifold mounted valve offers quickness and consistency.
- The **PosiWeave** Control provides a complete electronic machine control.



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