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Company

# *Power Units*

## *Product Comparison*

### *Power Units*

**F**ife power units are designed for web guiding systems. They are suitable for most web materials and load requirements.

Two basic types of power units are provided: pneumohydraulic and electrohydraulic. The type and size of a power unit required is determined by the sensor(s) selected and the hydraulic fluid pressure requirements for the hydraulic work cylinder(s).

The work cylinders are usually attached to web guide structures, but can also be attached to other devices such as sensor positioners and unwind/rewind stands.

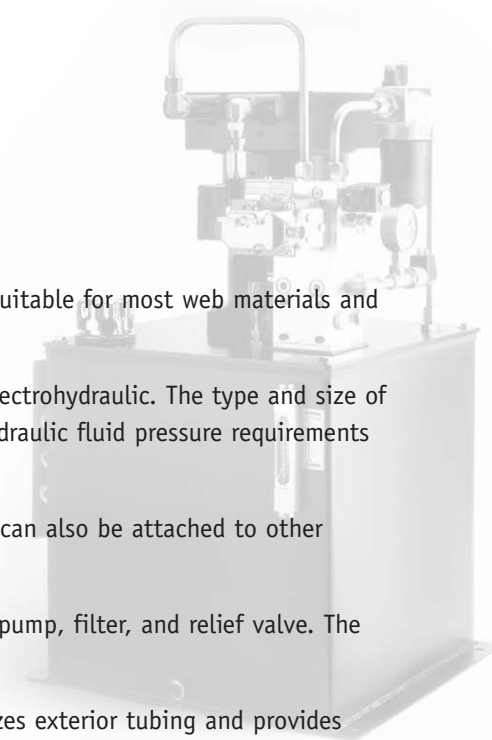
All Fife power units are equipped with their own hydraulic reservoir, pump, filter, and relief valve. The servo valves are 4-way proportional valves.

Modular construction with subplate mounting of components minimizes exterior tubing and provides maximum ease of servicing.

Additional hydraulic ports are supplied on all units for use as auxiliary hydraulic power for optional Fife equipment.

Some models can be provided for single, double, or triple guiding installations by utilizing one or more servo valves on a single power unit. There are many advantages in having one power unit controlling more than one guide. The biggest advantage is cost savings.

Selection of an air or electronic sensor will dictate whether a pneumohydraulic or electrohydraulic power unit is required.



COMPARISON

### *Pneumohydraulic Power Units*

Pneumohydraulic power units are completely self-contained units for use with Fife anticlogging air sensors. External air is not required.

These power units have a complete, regulated air system built-in with a pump, filters, and regulator.

Fife's pneumohydraulic power units are equipped with an exclusive spool-type servo valve. The valve was specially designed by Fife for unexcelled sensitivity and stability in automatically guiding all types of materials, at any speed, under any load.

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## Electrohydraulic Power Units

Fife electrohydraulic power units are for use with Fife's full line of electronic sensors. These power units incorporate a 2-stage, high-resolution, spool-type servo valve which provides precise, proportional control.

Signals from the sensor(s) are analyzed by a Fife signal controller and, if an error is detected, a signal is sent to the servo valve on the power unit. The servo valve responds to this signal by sending hydraulic fluid under pressure to the cylinder which causes the guide to reposition the web to the desired guide point.

Requirements for shifting speed, load, and hydraulic cylinder size must be considered in selecting the proper model for either type of power unit.



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