

TNC

Energy Saving Hydraulic Station
Motor Power: 0.75 to 3 kW
Flow: 1 to 15 L/min
Maximum Pressure: 200 Bar



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Advantages of high efficiency and energy saving hydraulic units

- Our company's energy-saving hydraulic unit is about 5 times smaller than that of a traditional hydraulic station, can be embedded in the equipment, and has an aesthetically pleasing appearance.
- The energy-saving pressure maintenance relies on the accumulator and low-leakage valve core. The motor does not do any work, so only a small amount of energy is required, thus achieving energy saving.
- The environmentally friendly motor and pump have short operating times, generate no heat, and experience minimal wear. Our unidirectional design ensures that the hydraulic oil does not come into contact with air, preventing emulsification.
- We can guarantee a 3-year warranty without hydraulic oil changes (excluding other contaminants).
- Emission Reduction: Since the motor and pump operate intermittently and do not generate heat, they can help reduce the temperature rise in the workshop. Low oil temperature allows the oil pump to maintain long-term stable and efficient operation, improving product processing accuracy.
- Noise Reduction: Since the motor and oil pump operate intermittently, no noise is generated

Energy Saving Hydraulic Station Vs Traditional hydraulic station



Vs



Energy Saving Hydraulic Station

Traditional hydraulic station

	Energy Saving Hydraulic Station	Traditional hydraulic station
Performance	One-time power-on, continuous voltage holding	Requires continuous power supply to maintain pressure.
Heating	The hydraulic oil does not heat up and does not experience aging or wear.	Hydraulic oil is prone to heating, aging and deterioration
Volume	Small size, easy to install, can be embedded in machine tools	Large size, requires floor space
Maintenance	Low fuel consumption, only 5L hydraulic oil is needed in three years	Hydraulic oil needs to be replaced once a year, about 25L
Energy Consumption	Extremely low energy consumption, energy consumption rate is only 3% of traditional	High energy consumption; motors, air coolers, etc., require continuous power supply.
Apperance	Made entirely of aluminum alloy, aesthetically pleasing and sophisticated.	Traditional hydraulic power unit appearance, no distinctive features.

Electricity analysis of the ultra-efficient energy-saving hydraulic unit versus the traditional hydraulic station under a processing cycle of 20 minutes:

The highly efficient and energy-saving hydraulic unit operates 24 hours a day, with a 1.1KW motor. Actual power consumption was measured at approximately 0.5 kWh over 24 hours.

Traditional hydraulic power units operate 24 hours a day, with a 1.5KW motor. Actual 24-hour power consumption is approximately 24 kWh.

