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For hydraulic-driven machines (vehicles, loaders lifting trucks etc), operating in a cyclic manner the energy consumption can be considerably reduced, by using gas-charged accumulators as ...

The hydraulic accumulator is widely used for storing energy in hydraulic system, but it is a passive device; the flowrate and volume of hydraulic oil adjusted by the accumulator are not well ...

In contrast to other driving methods, hydraulic servo system has unique advantages such as large torque/force output and high-power density. It is widely used in industrial applications including digging robots [1], hydraulic press [2], equipment performance tests [3] and load simulation [4] and so on. Thus far, the improvement of the energy efficiency ...

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Triet H.H. Et.al [9] have been developed A novel energy-saving hydraulic system based on an HST/hydraulic accumulator combination was investigated through analysis and modeling. The system improves the efficiency of the primary ...

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This paper proposes an energy-saving system based on a prefill system and a buffer system to improve the energy efficiency and the processing performance of hydraulic presses. Saving energy by ...

Comparison of energy-saving on the speed control of the VVVF hydraulic ... DOI: 10.1016/J.MECHATRONICS.2005.06.009 Corpus ID: 108566871; Comparison of energy-saving on the speed control of the VVVF hydraulic elevator with and without the pressure accumulator

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A) Inline accumulators in a hybrid automobile transmission [reproduced from Costa and Sepehri (2015)] and (B) secondary accumulator circuit in a wind generator [reproduced from Dutta et al. (2014)].

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Energy saving in construction machinery has become an increasingly important issue due to the increase in fuel price and the environmental pollution, especially for a

working eciency increased by 10%. Moreover, the energy eciency of the proposed system reached 45.9%, 20.35% higher than that of the traditional system, resulting in a reduction in energy consumption of 169.4 kJ per duty cycle. Keywords Hydraulic controllable accumulator · Hydraulic neblanking press · Energy-saving · Hydraulic system

a so-called pressure compensated variable displacement pump1) is used for an energy-saving power source shown in Fig.lb. However this type of power sources was

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