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Hydraulic test rig

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ABSTRACT

The hydraulic test rig project's primary function is to simulate physical loading situations that occur in real world applications and it will be used for educational purposes. To declare that hydraulic power technology deals with generation, control and transmission of power using pressurized fluid. The hydraulic equipment stand consists of reservoir, hydraulic fluid, electrical motor, external gear pump, valves, and actuators such as double acting cylinder and hydraulic motor. A fluid power system can multiply force or torque simply and efficiently and have the highest horse power per weight ratio of any known power source. Comparisons between the forces and velocities resulted from different hydraulic cylinders. Also, comparisons between the torques and angular velocities resulted from different hydraulic cylinders.

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