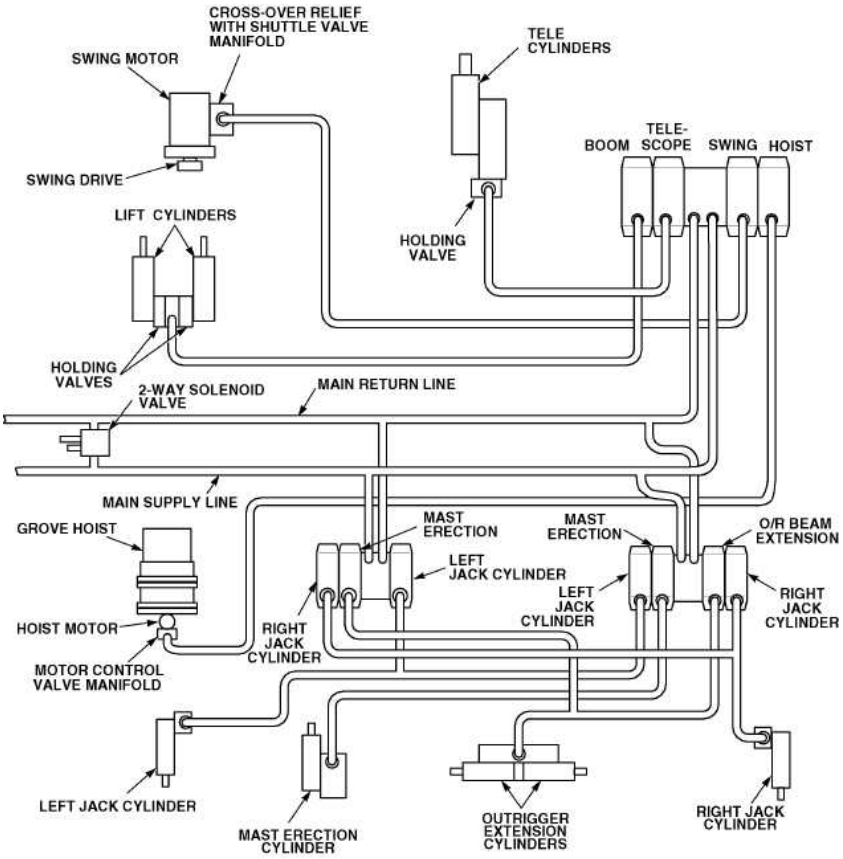
Hydro Pneumatic Cylinder Working Principle Pdf 34



Pump structure, gear ratio and direction (including servo and automation). Control technology Types: Closed loop, Open loop Folding spring, Hydraulic cylinder 5. Molière systems The principle is similar to the pneumatic cylinders, but in these the gas under pressure is a liquid, which can flow freely. The Molliere cylinder is a retractable cylinder. Types: Closed loop, Open loop Hydraulic cylinder 6. 2-stage rotary electric motor The principle is a variation of the hydraulic cylinder: there are two axles, powered by an electric motor, and there is a flexible cover that when closed works like a hydraulic cylinder, and when opened works like a mechanical spring. Types: Closed loop, Open loop Hydraulic cylinder 7. Belt-driven open loop pneumatic cylinder This is a mechanical type of spring working on the principle of mechanical pulleys, i.e. the pressure of air under pressure presses the belt, which in turn rotates the pulley. 8. Torque spring A kind of high torque spring, that uses the traction property of

the spring to produce mechanical energy. Types: Closed loop, Open loop Mechanical spring 9. Cable Cable-driven pneumatic cylinders work on the principle of traction and traction property of the cable. These can generate high torque. Types: Closed loop, Open loop Rotary motor 10. Bowden cable Bowden cable-driven pneumatic cylinder is a special pneumatic cylinder which uses the traction property of the spring to produce mechanical energy. It is used to carry load. 11. Hydraulic accumulator A single stage spring-driven pneumatic cylinder with a booster or accumulator. When the spring force is sufficient to load the piston and rod, air can be admitted. 12. Torque spring pneumatic cylinder A single stage spring-driven pneumatic cylinder with a booster or 520fdb1ae7