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CLASS: JS 2

SUBJECT: BASIC TECHNOLOGY

Week: 5

TOPIC: PNEUMATIC

PNEUMATIC

A pneumatic system is a system that uses compressed air to transmit and control energy. Pneumonia are used in controlling train door ,automatic production lines, mechanical clamps etc

DIFFERENCES BETWEEN HYDRAULICS AND PNEUMATIC

- * Hydraulics is used in controlling power with the use of pressurized fluids while pneumatics studies how pressurized gases influences mechanical motion.
- * Hydraulics uses an incompressible fluid medium like oil while pneumatics uses a compressible gas like air.
- * hydraulics application demands greater pressure during operations while pneumatics application only require less.
- * Most of hydraulics application generally use bigger components than pneumatics application.
- * Hydraulic system are generally more difficult to operate compared to pneumatic applications.

ADVANTAGES OF PNEUMATICS SYSTEMS

- * It is highly effective
- * It is highly durable and reliable.
- * It is simple design.
- * It is highly adaptable to harsh environment.
- * It is highly economical
- * It is environmental friendly.

DISADVANTAGES OF PNEUMATIC

* it is relatively low accuracy

- * It is noisy in nature
- * It has uneven moving speed
- * It has low loading
- * It is required preocssing before use

APPLICATION OF PNEUMATIC

- * It is used in buses and trains
- * it is used for drilling teeth
- * It is used in road drill
- * It is used in assembling products.