

# **Automated Engineering Division**

## **Automated Tapping Machine**

**Construct an automated machine which:**

- 1. Drills a hole**
  - 2. Countersinks the hole (60 Degree)**
  - 3. Apply cutting fluid**
  - 4. Taps the hole (1/4-20)**
- 2" x 2" x 3/8" thick aluminum will be the material tapped**
  - Thread must go through the entire thickness**
  - Drilling, counter sinking and tapping operation must be done in separate operations**
  - Must tap (2) different pieces**
  - Pieces must be off loaded and palletized after tapping process**