# HMI AND OTHER TLA'S

- Human Machine Interface (formerly MMI)
  - operator interface
  - process data collection
  - high-level process planning and control (SCADA)
    - factory database
    - resource and work-in-process tracking
    - statistical process control
    - alarms and logging

#### PUTTING IT ALL TOGETHER

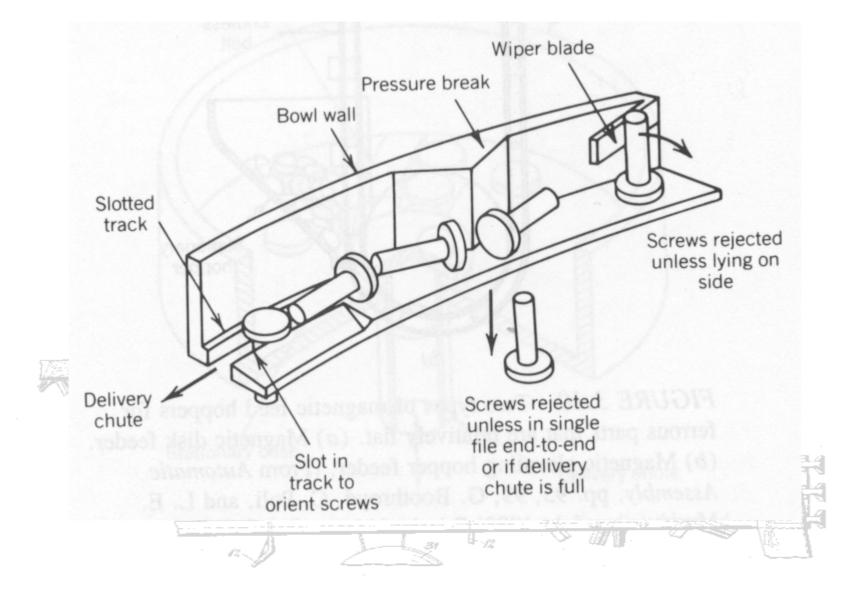
- Feeding parts
  - conveyors
  - vibratory feed bowls
  - pick & place

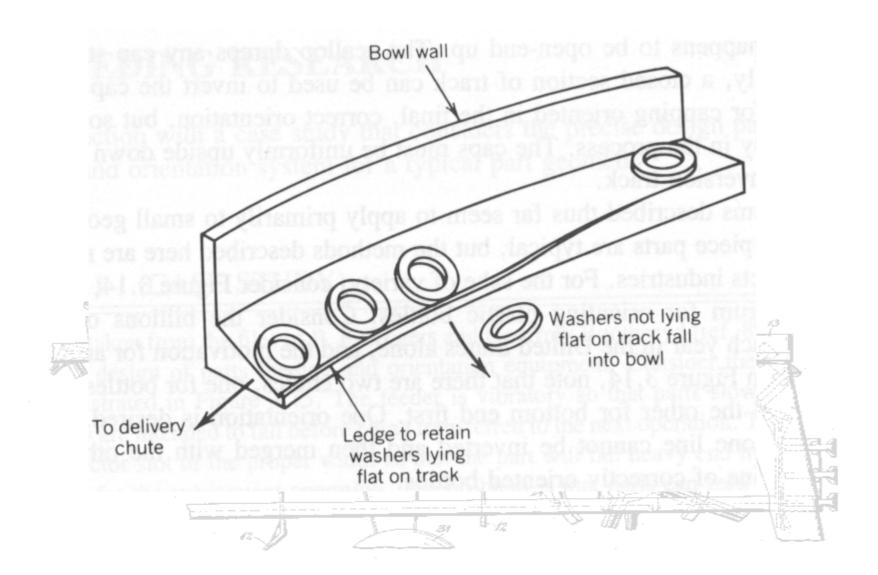


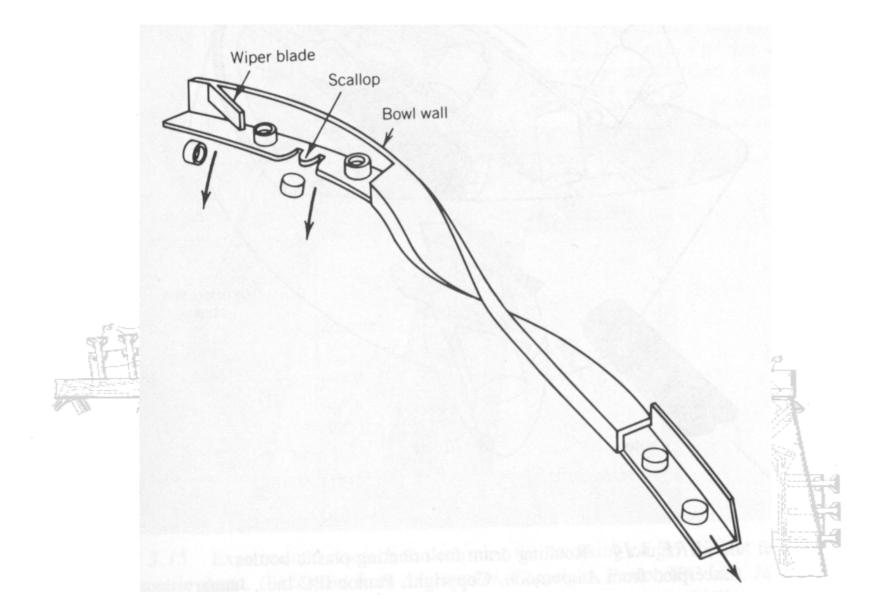












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- Design Factors
  - Part symmetry
  - Selector efficiency  $E = F_0/F_i$

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- Recirculation effects

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