

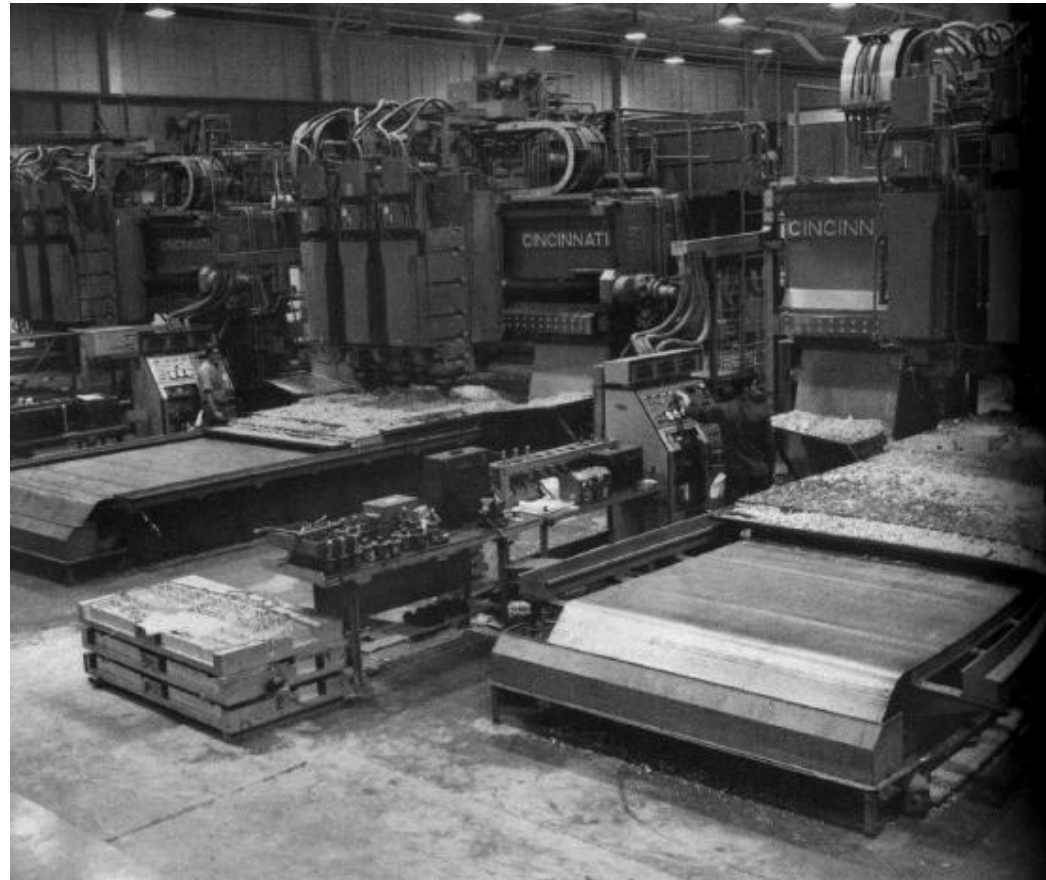


## Machine tools and the automotive industry

# Machine tool applications

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- Transfer lines
- Grinding
- Milling
- Turning
- Broaching



## Other automotive applications

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- Casting
- Stamping
- Drawing (wire)
- Assembly



## Machine tool – Spindle speed 10 to 300 Hz

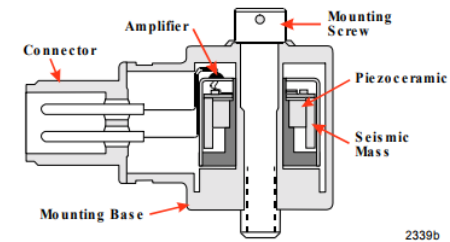
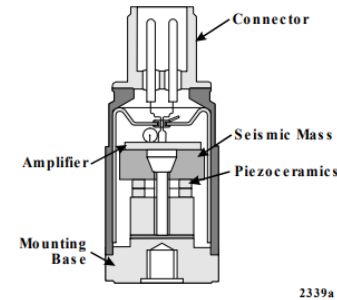
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- Environment
  - Cutting fluid and cooling fluid spray, flying chips, electromagnetic interference
- Sensor requirements
  - Hermetic sealing
  - Splash proof / waterproof connectors
  - Teflon or Armored cabling
- Wilcoxon sensor recommendations
  - 793, 797, 786A – Industrial sensors
  - R6SLI, R6W – Sealed connectors
  - J9T2A cables



## Slow speed machine tool – Spindle speed .5 to 10 Hz

- Sensor requirements
  - Very low noise
  - Very low strain sensitivity
- Wilcoxon sensor recommendations
  - 793L, 797L, 799LF – Industrial sensors
  - R6SLI, R6W – Sealed connectors
  - J9T2A cables



## High speed machine tool – Spindle speed > 300 Hz


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- Sensor requirements
  - Very high resonance
  - Low sensitivity
  - Overload protection
  
- Wilcoxon sensor recommendations
  - 732A
  - 732AT



## Wilcoxon Sensing Technologies

For more information, please contact us:

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