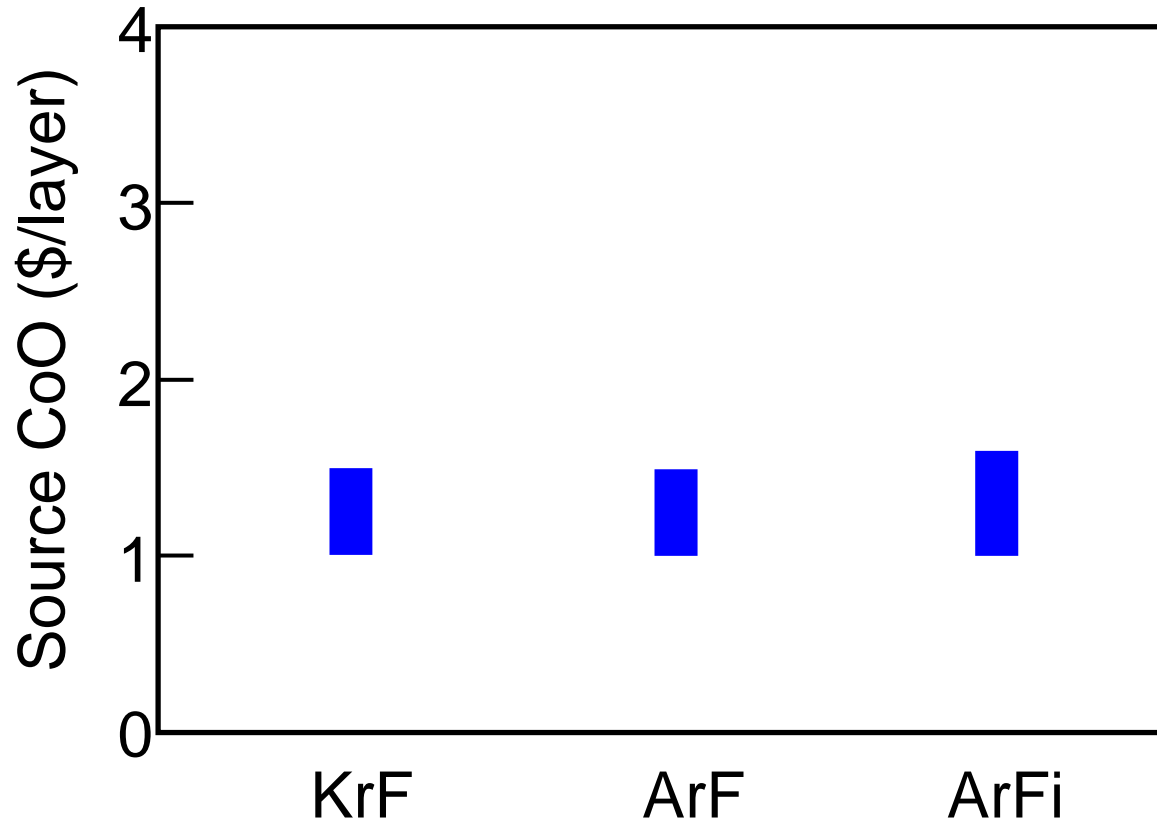




**Panel: Stepper manufacturer's perspective on  
Cost of Ownership**

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February 27, 2005

# Rough estimation of optical source CoO



Without engineer and operator costs.

# Needed Parameters for CoO Calculation

1. Fixed cost
  - (1) Source cost
  - (2) Source power at IF (115W)
  
2. Consumable cost
  - (1) Unscheduled downtime
    - i) MTBF
    - ii) MTTR
  - (2) Scheduled downtime
  - (3) Running cost (\$/B pulse)
  - (4) Roadmap
  
3. Top three issues to reduce these costs.