

Dr. Shahrukh A. Irani  
Department of Industrial, Welding and  
Systems Engineering  
The Ohio State University

PR Machine Works, Inc.

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[www.prmachineworks.com](http://www.prmachineworks.com)



## Dr. Irani Requested the Following Information About PR Machine Works Before His First Visit

- Pick 10 - 15 parts and provide the complete manufacturing routing
- Plant layout
- List of active workcenters
- Make a list of our concerns -- what prevents us from getting better?
- What makes you proud of our company's achievements?
- What is your exposure/awareness to Lean?



# PR Machine Works has been a Contract Manufacturer Since 1964

- 43 years of contract manufacturing
- 43 employees
- Four shifts -- 24/7 operation
- Precision machining
  - CNC machining since 1976
  - Multi-axis turning since 1990
- Fabrications
- Special machine building
- \$6 million in annual sales



# PR Machine Works' Inputs and Outputs are the Following:

- **Inputs**

- 12 to 20 foot bar stock
- castings
- forgings
- burnouts
- sheet
- plate

- **Outputs**

- Precision machined parts
- Sheet metal fabrications
- Precision weldments
- Special machines



# PR Machine Works Can be Divided into Four Departments or Strategic Business Units:

- Medium production machining (HMLV)
  - Lot sizes 25-1,000 pieces
- Low production and prototype machining (HMLV)
  - Lot sizes 1-10 pieces
- High production machining (Continuous)
  - One part; annual production 700,000 pieces
- Low volume fabrication (HMLV)
  - 1-50 pieces



# PR Machine Works has Started Its Lean Journey in the Medium Production Machining Department

- **5S**
- **Set-up Reduction**
  - Set-up Reduction Team conducting Kaizen events
- **Technology**
  - Multi-axis equipment which enables one piece flow.
  - Automation
- **Process mistake-proofing**
- **Facility layout analysis**
  - Material flow analysis
  - Cells
- **Cross trained/multi-skilled employees**
- **Quality at the source**



# PR Machine Works' Long Term Plan is to Implement Lean Throughout the Shop Floor and the Office But We Need to Address the Following:

- **Areas of concern -- what prevents us from getting better:**
  - Leadership development to build vision, make the commitment, and foster lean learning.
  - Strategic planning that adopts Lean paradigm and drives entire organization; Hoshin implementation and sustainability, and continuous improvement philosophy.
  - Employee team development with the goal of participatory decision making and problem solving. Develop a company culture which fosters a passion to eliminate waste and tap an employee's abilities.
  - Scheduling/Production control that considers right qty., right mix, right time. How to schedule long-term contractual work vs. job shop work.
  - Preventative/Predictive maintenance that eliminates equipment down-time
  - Long set-up times



# PR Machine Works is Proud of Our Team's Growth and Accomplishments

- Team PR is talented and customer driven.
- Team PR has pushed the technological envelope.
- Team PR has developed an excellent reputation within its customer base for high quality, on-time deliveries, and high levels of customer service.
- Team PR is actively involved with its community and industry.





# Questions

Thank you

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