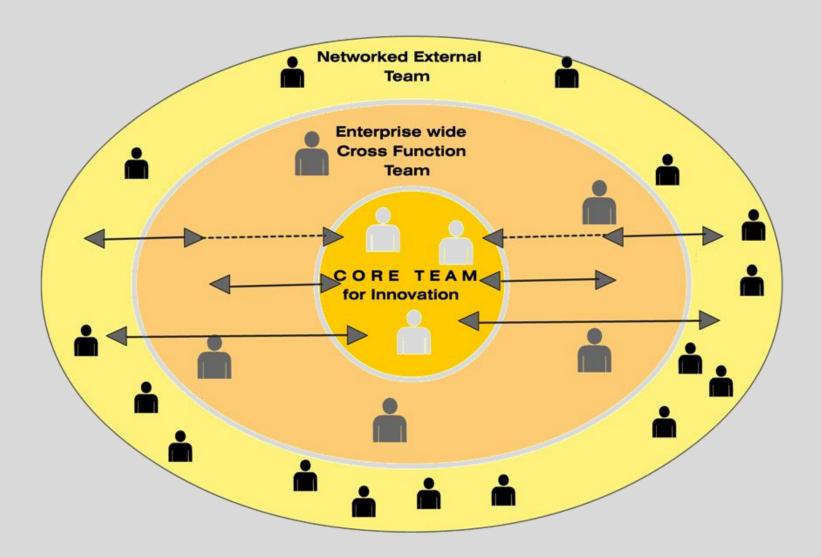


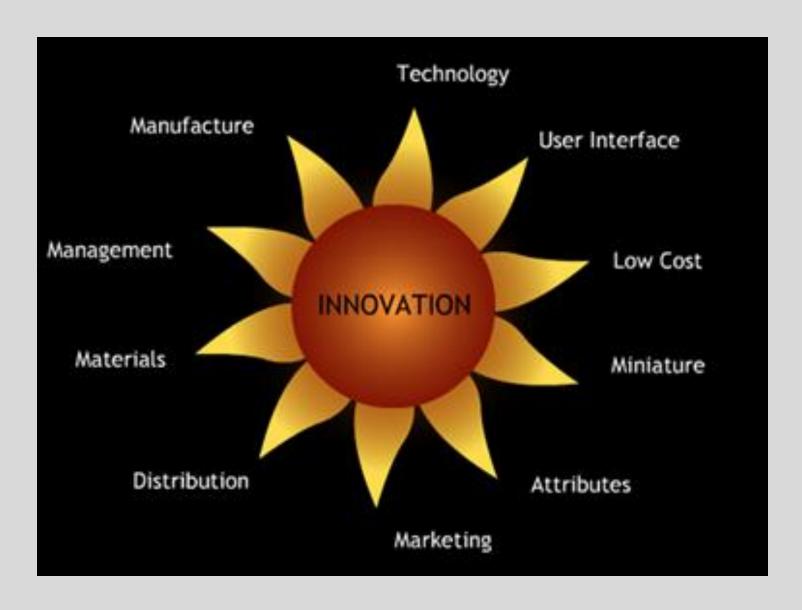
Serial Innovation in Fuel Dispensers

- 1. Z-Line (1989)
- 2. Bullet (1998)
- 3. MPD (2002)
- 4. Oval (2005)
- 5. SureFill (2008)

Collaborative Innovation Model











Design of MIDCO MULTI PRODUCT DISPENSERS - MPD (2001)

by Prof. B. K. Chakravarthy as Design Consultant to MIDCO

Design Credits - Manoj Dubey



MPD

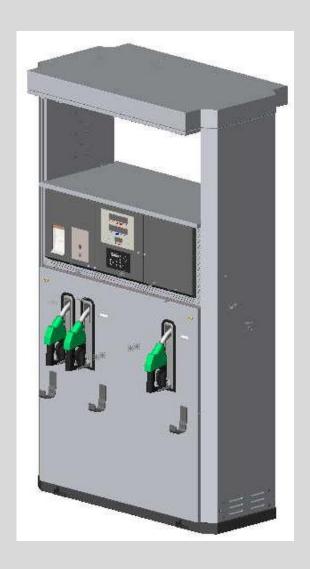
- Multi Product from same pump
- Saves space
- Convenient to user
- Uses single display
- Both sides dispensing
- Can be used by submersible pumps





Customer Requirement









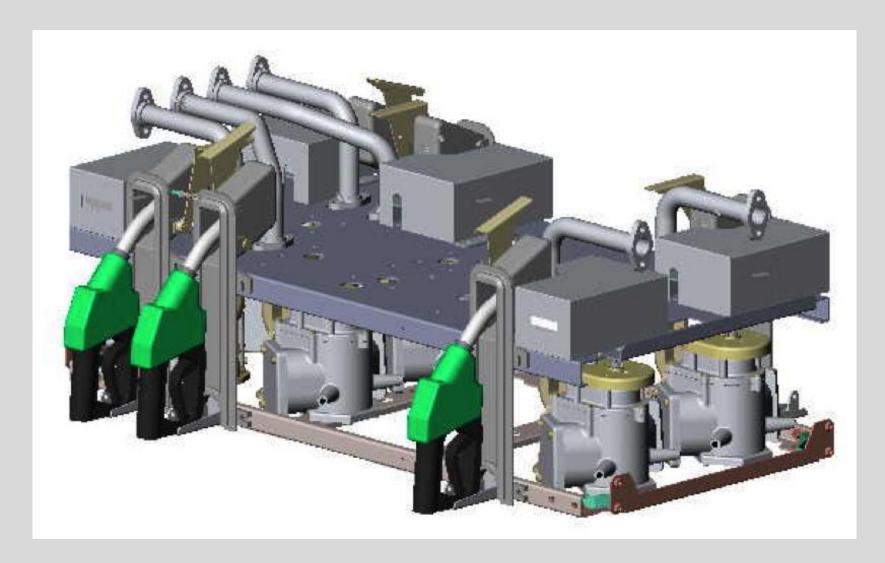






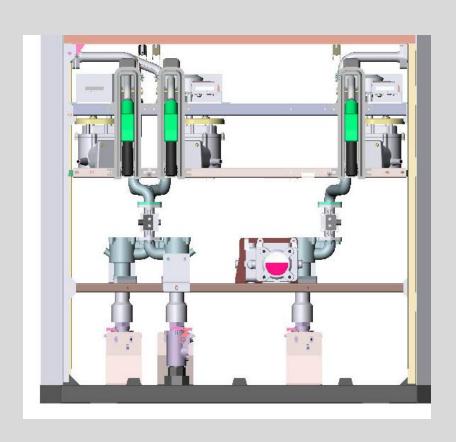


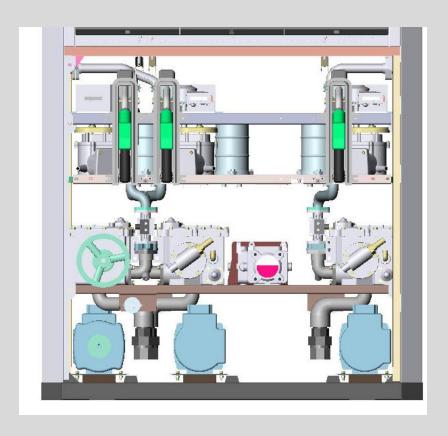
CAD Assembly





Modular Layout

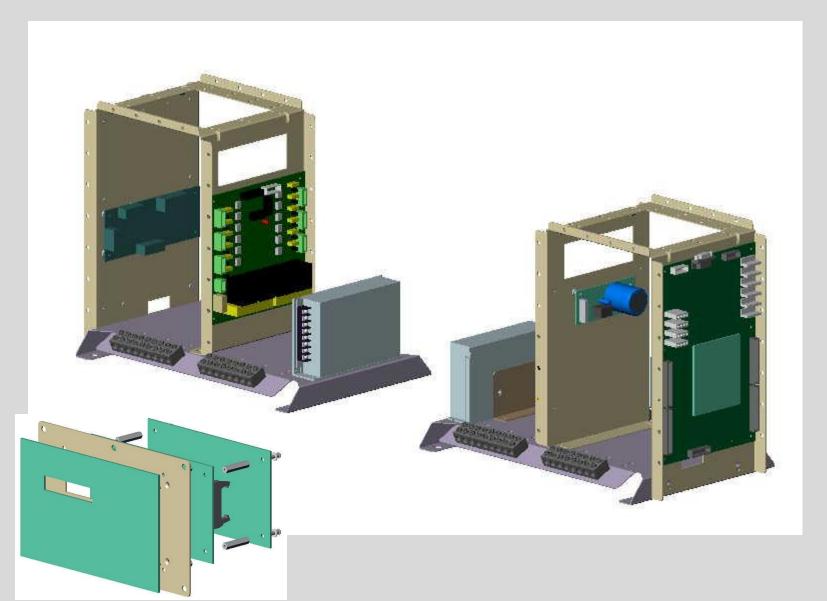




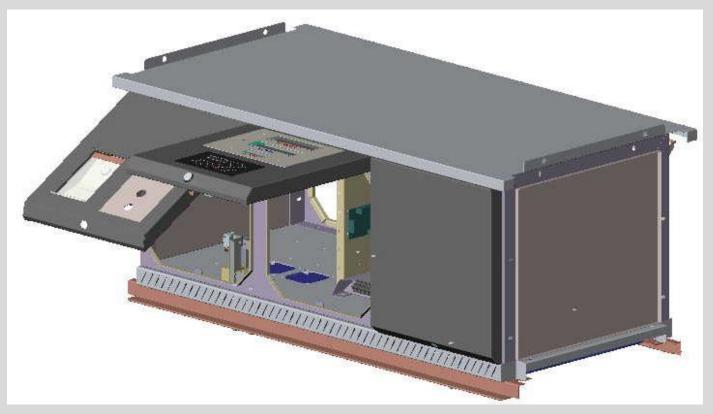


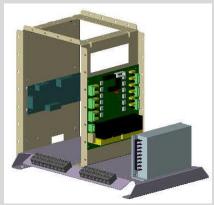








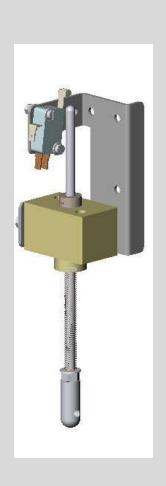


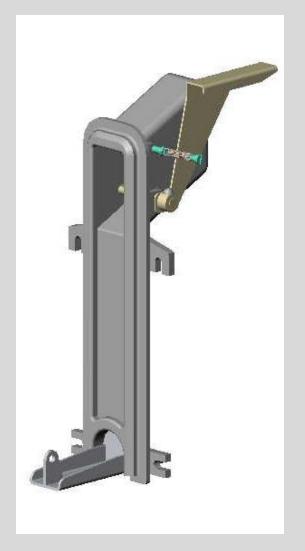




Auto Operation











Innovation by Design

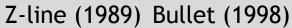
- Large Market Penetration
- Gave tough competition to L&T
- Started Exports
- 10 time increase in turnover of the company
- Reached Rs 120 crores with 6 crores profit in 2007



Read Further









MPD (2002)





Oval (2005) SureFill (2008)