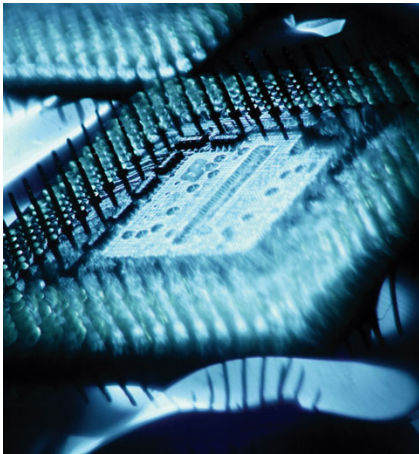


## Case Study

# Advanced automated material handling system for on-time delivery and improved efficiency

*How a semiconductor wafer manufacturer achieved on-time delivery, and cost benefits*



### Business Situation

The customer, a leading semiconductor wafer manufacturer in Asia-Pacific, wanted:

- Manufacturing processes for wafer plant (Conveyer—Foup moments inside FAB—systems)
- Wafer transfer inside fabrication unit by using transport system control, control logic computer, FastLoad (robot arm system for Foup positioning) and stocker (local repository of Foups)
- Integration of AMHS system with material control system and manufacturing execution systems

### Mahindra Satyam Role

- Support, implement, configure, and integrate transport system control software with material control system and manufacturing execution system
- Support, implement, configure, and integrate control logic control with TSC and local stocker
- Support, implement, configure, and integrate Fastload (robot arm and local storage device) with CLC, TSC
- Provide 24/7 onsite support

### Benefits

- On-time delivery and production of wafers
- Improved efficiency and response time of production delivery
- Cost benefits in terms of application support
- Accurate production plan, starting from batch creation to wafer delivery