

Case Study

Time Standards and Line Balancing



Customer

One of the world's largest manufacturers of construction and mining equipment.

Business Challenge

- Need for accurate standard times
- Inaccurate work orders leading to poor planning

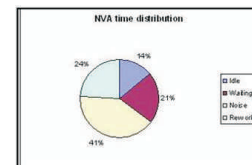
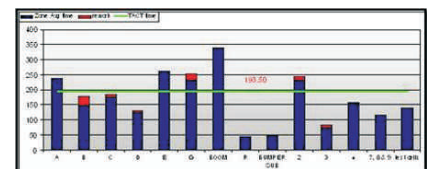
Mahindra Satyam's Solution

- Establishing the standard time using PDTMS principle and providing accurate times for work orders
- Re-sequencing work orders if found incorrect
- Line balancing after analyzing bottlenecks
- Providing correct work instruction results with better clarity to the operator

Input

- Work orders
- Drawings
- Engineering data system
- Production setup layout

Output



Tools used

- PDTMS tools (Pre Determined Time and Motion Study)
- Legacy system

Key differentiators

- Accurate work standard for assembly operations
- Solutions to achieve line balance and optimal loading
- Solutions to discover and realize optimal capacity
- Enhancing quality product delivery with less support cost
- Delivering faster design-to-market

\$10 Million savings through efficient manpower allocation; increase in resource utilization by 37%.

Case Study

Benefits

- Accurate standard times established (20-25% differences identified)
- Better clarity of work orders leading to improved efficiency on the manufacturing floor
- Aid to identify Non Value Added (NVA) activities on the floor
- Increase in overall productivity by 86 %; reduction of headcount by 20 %
- 33% of non-value added work on the assembly line identified to make the operations more efficient

At Mahindra Satyam BPO's Manufacturing practice, we offer a wide spectrum of process outsourcing services to manufacturing companies across the world. Our experience and capabilities enable us to identify, create and deliver more value on your investment. Our dedicated manufacturing teams understand the nuances of the industry and help deliver value throughout the engagement. The four primary supporting areas where we offer services are Production Engineering, Industrial Engineering, Quality Engineering, and Engineering Analysis. Our service offerings include Procure to Pay, Production & Industrial Engineering, Global Enterprise Technical Support, Customer Management and Data/Document Processing Services.

For further information please write to Connect@mahindrasatyambpo.com and rfi@mahindrasatyam.net.