

JIT DEFINITION

PRODUCING THE REQUIRED PARTS, AT THE REQUIRED TIME, IN THE REQUIRED AMOUNT, AT EACH STEP IN THE PRODUCTION PROCESS, IN THE MOST ECONOMICAL MANNER.

JIT MATERIAL MANAGEMENT OVERALL GOALS

1. CONTINUOUS SMOOTHING OF ALL PROCESS FLOWS (INCLUDING INFORMATION FLOWS)
2. CONTINUOUS REDUCTION OF TOTAL CYCLE TIME
3. MAINTAINING MAXIMUM FLEXIBILITY BY DELAYING UNTIL THE LATEST TIME (WITHOUT INCREASING CYCLE TIME) MATERIAL:
 - IDENTIFICATION
 - PROCUREMENT
 - RECEIPT
 - KITTING
 - ASSEMBLY

KEY ELEMENTS IN JIT

1. MATCHING PRODUCT DESIGN TO MARKET DEMAND
2. DEVELOPING PRODUCT FAMILIES AND FLOW BASED MANUFACTURING
3. ESTABLISHING RELATIONSHIPS WITH SUPPLIERS

- from *Production Management Systems*
by Browne, Harhen, and Shivan

JIT SYSTEM COMPONENTS

1. KANBAN (TRACKING) SYSTEM
2. PRODUCTION SMOOTHING
3. REDUCED (SHORT) SET-UP TIMES
4. OPERATION STANDARDIZATION
5. CELLULAR PLANT LAYOUT
6. MULTI-FUNCTIONAL WORK FORCE
7. SMALL GROUP IMPROVEMENT ACTIVITIES
8. VISUAL CONTROL OF THE PRODUCTION SYSTEM
9. TOTAL QUALITY CONTROL