

Just In Time For Operators The Shopfloor Series

Shingo, whose work at Toyota provided the foundation for JIT, teaches how to implement non-stock production in your JIT manufacturing operations. The culmination of his extensive writings on efficient production management and continuous improvement, this book is an essential companion volume to his other landmark books on key elements of JIT, including SMED and poka-yoke. It includes: Fundamental flaws in European and American production philosophies. Basic concepts for improving production systems. The "scientific thinking mechanism" -- a new approach to improvement. Implementing a production method in an age of authorized stock production. Development of production functions in the age of non-stock production. Significance of the different production systems.

The one manual that every corporate executive should read again and again re-released for the first time in an affordable paperback version Known as the JIT bible in Japan, this six-volume set present the genius of Hiroyuki Hirano who leaves no detail to chance in explaining ho

The TMEH Desk Edition presents a unique collection of manufacturing information in one convenient source. Contains selected information from TMEH Volumes 1-5--over 1,200 pages of manufacturing information. A total of 50 chapters cover topics such as machining, forming, materials, finishing, coating, quality control, assembly, and management. Intended for daily use by engineers, managers, consultants, and technicians, novice engineers or students.

Written in clear, straightforward language, Just-in-Time Manufacturing: An introduction discusses in-depth the implementation of JIT manufacturing. The objectives are twofold: firstly, to acquaint the reader with the overall JIT concept and the factors necessary for its implementation, and secondly to reinforce this with an actual case study of JIT implementation in a manufacturing company.

Implementation Through Lean Manufacturing Tools

Mas alla de la produccion a gran escala

Toyota Production System

Non-Stock Production

Informatics in Control, Automation and Robotics I

The enduring repercussions of the Asian financial crisis in 1997, the worsening global economy following the burst of the dotcom bubbles in 2001, the financial tsunami in 2008, and the incessant rise in customer demand for better services have all contributed to shrinking profit margins for businesses around the world. To cope with these challenges, firms are discovering logistics as a competitive weapon when looking for ways to strengthen and preserve their market positions. One successful solution has been the adoption of Just-in-Time manufacturing systems, which involve many functional areas of a firm such as manufacturing, engineering, marketing, and purchasing, among others. Just-in-Time Logistics extends the JIT concept in manufacturing to business logistics, an area that has been observed to account for more than 30 per cent of sales revenue for some firms. It gives you an overview and an introduction of JIT logistics, and provides managerial insights on how to achieve improved logistics performance in terms of cost and service enhancements. A discussion of the quality, implementation, and performance measurement issues related to the application of JIT in business logistics is also presented.

This book describes both the essential features of Just-In-Time (JIT) how JIT can be successfully approaches to manufacturing and implemented. JIT marks a significant departure from previous western approaches to manufacturing management, and aims to improve quality levels and customer service while decreasing lead times and inventory levels. The use of simple though effective methods can, with proper management, lead to continual improvements in the manufacturing operation. A number of companies have now implemented JIT and some of these implementations have been very successful. However, what is becoming increasingly clear is that there is a significant number of JIT implementations that fail to achieve the potential benefits of JIT. It is not an easy task, and there are a number of pitfalls that await the unwary manager. My motivation for writing this book has been my experience of working with companies that have been successful in JIT and of seeing what needs to be done and how the implementing most common pitfalls can be avoided. The book is oriented towards batch manufacturing since this accounts for a large proportion of manufacturing in most western countries. Other types (including process, mass and jobbing) can also profitably use many of the JIT techniques to improve their operation.

"It is a book for manufacturing companies that are fighting desperately for survival and that will go to any length to improve their factories and overcome the obstacles to success. One could even call this book a 'bible' for corporate survival."--Hiroyuki Hirano Known as the JIT bible in Japan, JIT Implementation Manual -- The Complete Guide to Just-in-Time Manufacturing presents the genius of Hiroyuki Hirano, a top international consultant with vast experience throughout Asia and the West. Encyclopedic in scope, this six-volume practical reference provides unparalleled information on every aspect of JIT-- the waste-eliminating, market-oriented production system. This historic, yet timeless classic is just as crucial in today's fast-changing global marketplace as when it was first published in Japan 20 years ago. Providing a comprehensive introduction to the just-in-time production system, Volume 1: The Just-in-Time Production System dispels outdated myths and ideas about manufacturing that are still prevalent. Supplying essential background information on the JIT approach to production management, this user-friendly resource builds a strong foundation for implementation.

The Complete Guide to Just-In-Time Manufacturing

El Sistema de Produccion Toyota

Just in Time Factory

Just-in-Time for Healthcare

The Basics of Line Balancing and JIT Kitting

JIT Implementation Manual -- The Complete Guide to Just-In-Time Manufacturing

This is the "green book" that started it all -- the first book in English on JIT, written from the engineer's viewpoint. When Omark Industries bought 500 copies and studied it companywide, Omark became the American pioneer in JIT. Here is Dr. Shingo's classic industrial engineering rationale for the priority of process-based over operational improvements in manufacturing. He explains the basic mechanisms of the Toyota production system, examines production as a functional network of processes and operations, and then discusses the mechanism necessary to make JIT possible in any manufacturing plant. Provides original source material on Just-In-Time Demonstrates new ways to think about profit, inventory, waste, and productivity Explains the principles of leveling, standard work procedures, multi-machine handling, supplier relations, and much more If you are a serious student of manufacturing, you will benefit greatly from reading this primary resource on the powerful fundamentals of JIT.

A discussion of Just In Time (JIT) or Kanban manufacturing processes.

Energy has been an ineluctable component of human lives for decades. Recent rapid developments in the area require analyzing energy systems not as independent components but rather as connected interdependent networks. The Handbook of Networks in Power Systems includes the state-of-the-art developments that occurred in the power systems networks, in particular gas, electricity, liquid fuels, freight networks, as well as their interactions. The book is separated into two volumes with three sections, where one scientific paper or more are included to cover most important areas of networks in power systems. The first volume covers topics arising in electricity networks, in particular electricity markets, smart grid, network expansion, as well as risk management. The second volume presents problems arising in gas networks; such as scheduling and planning of natural gas systems, pricing, as well as optimal location of gas supply units. In addition, the second volume covers the topics of interactions between energy networks. Each subject is identified following the activity on the domain and the recognition of each subject as an area of research. The scientific papers are authored by world specialists on the domain and present either state-of-the-arts reviews or scientific developments.

Accessible to the Lean novice and shop floor employee, The Basics of Line Balancing and JIT Kitting explores line balancing and the pre-assembly of components into a finished product in a just-in-time fashion (JIT Kitting). It explains how to use time studies, develop yamazumi charts, discover and eliminate waste, balance your line, and create new

Just-in-Time Systems

Just-In-Time for Operators

Just-in-Time Logistics

New JIT, New Management Technology Principle

Tool and Manufacturing Engineers Handbook Desk Edition

Principles, Modelling and Applications

Production and manufacturing management since the 1980s has absorbed in rapid succession several new production management concepts: manufacturing strategy, focused factory, just-in-time manufacturing, concurrent engineering, total quality management, supply chain management, flexible manufacturing systems, lean production, mass customization, and more. With the increasing globalization of manufacturing, the field will continue to expand. This encyclopedia's audience includes anyone concerned with manufacturing techniques, methods, and manufacturing decisions.

This work is a practical guide to just-in-time techniques, examining principles and practice, pitfalls and implementation. The book is supported by a number of case studies, and adopts an international perspective (US, European and Japanese).

The thoroughly revised and updated book, now in its second edition, continues to present a comprehensive view of the concepts and applications of various quantitative models used in the study of operations and supply chain management. It provides a complete account of location and layout models, production planning models, production control models, cycle inventory models, safety stock models and transportation models. A separate chapter on real-life situations provides the user with the knowledge of specific areas where the models have been applied in decision-making processes. The various techniques to solve operations and supply chain management problems are also discussed. The text is supported by a large number of illustrative examples, exercises and review questions to reinforce the students' understanding of the subject matter. Designed as a textbook for the students of mechanical and industrial engineering, the book would also be useful to postgraduate students of management. NEW TO THE SECOND EDITION • Two new chapters on 'Production Control-Additional Approaches' (Chapter 6) and 'Materials Planning and Lot Sizing' (Chapter 8) • Forecasting and Aggregate Planning are described in two separate chapters • Each chapter includes new sections, additional examples, illustrations, short questions and exercises • Provides solutions to the exercises

This second edition of the classic textbook has been written to provide a completely up-to-date text for students of mechanical, industrial, manufacturing and production engineering, and is an indispensable reference for professional industrial engineers and managers. In his outstanding book, Professor Katsundo Hitomi integrates three key themes into the text: • manufacturing technology • production management • industrial economics Manufacturing technology is concerned with the flow of materials from the acquisition of raw materials, through conversion in the workshop to the shipping of finished goods to the customer. Production management deals with the flow of information, by which the flow of materials is managed efficiently, through planning and control techniques. Industrial economics focuses on the flow of production costs, aiming to minimise these to facilitate competitive pricing. Professor Hitomi argues that the fundamental purpose of manufacturing is to create tangible goods, and it has a tradition dating back to the prehistoric toolmakers. The fundamental importance of manufacturing is that it facilitates basic existence, it creates wealth, and it contributes to human happiness - manufacturing matters. Nowadays we regard manufacturing as operating in these other contexts, beyond the technological. It is in this unique synthesis that Professor Hitomi's study constitutes a new discipline: manufacturing systems engineering - a system that will promote manufacturing excellence. Key Features: • The classic textbook in manufacturing engineering • Fully revised edition providing a modern introduction to manufacturing technology, production management and industrial economics • Includes review questions and problems for the student reader

A Strategy for Production Managers

Just-in-time Manufacturing in Perspective

A Leader's Guide

ECSCW '99

Encyclopedia of Production and Manufacturing Management

An introduction

The change from traditional ways of producing and managing healthcare services to a just-in-time approach requires a new understanding about what adds value for the patient or customer, and what does not. Just-in-Time for Healthcare is intended to share powerful knowledge that will help you participate effectively in the change to just-in-time. Part of the Lean Tools for Healthcare series, this user-friendly book is designed to improve understanding of the just-in-time (JIT) system that is fundamental to providing lean healthcare services and eliminating waste from healthcare processes. The book covers why JIT is important for healthcare by explaining how it enables a healthcare organization to efficiently and reliably produce the quality services its patients require—when they need them, where they need them, and in the amount they need. This book also • Addresses the basic concepts of just-in-time in healthcare, including flow, pull, and kanban systems Describes the principles and benefits of process flow layouts versus operations-based layouts Reviews the importance of standard work as the foundation for continuous improvement Outlines support techniques for just-in-time such as 5S, visual management techniques, quick setup, mistake proofing, and the essential concepts of lean management Includes real-world healthcare examples. Presented in practical terms, this fundamental book shows how lean principles and tools connect in a just-in-time system. It is ideally suited for both individual and group learning.

Are you ready to implement Just-in-Time, but unsure how to teach your operators about the power of JIT? To assist you in this effort, we've developed the Just-In-Time for Operators Learning Package, which introduces equipment operators, assembly workers, and other frontline employees to basic JIT concepts and techniques. Think of it as an orientation to prepare your employees for JIT before you launch actual implementation. Giving operators the necessary education enables them to participate and share their experience and ideas more effectively. Learning Package introduces equipment operators, assembly workers, and other frontline employees to basic JIT concepts and techniques. Copies of JIT for Operators, 1 copy of Kanban and JIT at Toyota, a CD filled with additional presentation materials, and a Leader's Guide. This package is an excellent, cost-effective way to introduce your team to Just-in-Time.

New JIT, New Management Technology Principle contains the previously published, updated, and new works of renowned scientist, scholar, and consultant Kakuro Amasaka. This book details the Just-in-Time (JIT) quality management strategy, exploring the cutting edge of a new management technology principle that surpasses what traditional JIT has accomplished. The new JIT principle contains hardware and software systems, and next-generation technical principles for transforming management technology into management strategy. This comprehensive work covers traditional JIT, innovation and evolution, the full new JIT and its applications, along with case studies. It is clearly impossible to lead the next generation by merely maintaining the two Toyota management technology principles, Toyota Production System and Total Quality Management. To overcome this issue, it is essential to renovate not only TPS, which is the core principle of the production process, but also establish core principles for marketing, design and development, production, and other departments. This book reassesses the way management technology was carried out in the manufacturing industry and establishes new JIT. This next-generation management technology model is the key to success for not only for customer relations, sales and marketing, product planning, research and development (R&D), product design, production engineering, logistics, procurement, and administration and management for enhancing business process innovation and introduction of new concepts and procedures. The book focuses on the theory and application of strategic management technology through the application of new JIT, then demonstrates its effectiveness in a case study based on an advanced car manufacturer. Using this new model, you can realize manufacturing that places top priority on customers with a good Quality, Cost, and Delivery (QCD) in a rapidly changing technical environment, and allows you to create uniform quality for the global market.

Volume 1 -- The Just-In-Time Production System

A Revolution in Manufacturing

Just-in-Time for Operators

Handbook of Networks in Power Systems I

JIT Implementation Manual

MANUFACTURING PROCESSES 4-5, (PRODUCT ID 23994334).

Are you ready to implement a just-in-time (JIT) manufacturing program but need some help orienting employees to the power of JIT? Here is a concise and practical guide to introduce equipment operators, assembly workers, and other frontline employees to the basic concepts, techniques, and benefits of JIT practices. Like all Shop Floor Series books, Just-in-Time for Operators presents concepts and tools in simple and accessible language. The book includes ample illustrations and examples to explain basic JIT concepts and some of the changes people may encounter in a JIT implementation. Key definitions Elimination of process waste Leveled production, kanban, and standard work U-shaped cells and automation JIT support techniques The JIT approach is simple and universal -- it works in companies all over the world. Educating employees ensures their full participation and allows them to share their experiences and ideas more effectively.

Latest developments in the world-class strategy for business operations, JIT, presented in an easily accessed format for production and other operations executives.

This is a collection of papers presented at the 1st International Conference on Informatics in Control, Automation and Robotics (ICINCO). The papers focus on real world applications, covering three main themes: Intelligent Control Systems, Optimization, Robotics and Automation, Signal Processing, Systems Modeling and Control. The book will interest professionals in the areas of control and robotics.

The philosophy of kaizen, which simply means continuous improvement, needs to be adopted by any organization seeking to implement lean improvements that go beyond cost cutting. Kaizen events are opportunities to make focused changes in the workplace. Kaizen for the Shopfloor takes readers through the critical steps for conducting a very effective kaizen event: one that is well planned, well implemented, and well documented. As the newest addition to the Shingo Prize Winning Shopfloor Series, Kaizen for the Shopfloor distills the complexities of jump starting lean processes into an easily accessible format for those frontline employees who make lean possible. About the Shopfloor Series: Put proven improvement tools in the hands of your entire workforce! Progressive shopfloor improvement techniques are imperative for manufacturers who want to stay competitive and to achieve world class excellence. And it's the comprehensive education of all shopfloor workers that ensures full participation and success when implementing new programs. The Shopfloor Series books make practical information accessible to everyone by presenting major concepts and tools in simple, clear language and at a reading level that has been adjusted for operators by skilled instructional designers. One main idea is presented every two to four pages so that the book can be picked up and put down easily. Each chapter begins with an overview and ends with a summary section. Helpful illustrations are used throughout.

Just-in-Time for Operators Learning Package

Manufacturing Systems Engineering

Kanban for the Shopfloor

An Integrated Approach to Just-In-Time

Just-in-Time Elements and Benefits

A Zero-Waste Environment with Process Automation

Whether different types of costs are to be reduced, benefits to be maximized or scarce resources to be managed, scheduling theory provides intelligent methods for practitioners and scientists. The just-in-time (JIT) production philosophy has enriched the classical scheduling theory with models that consider characteristics such as inventory costs, set-up times, lot sizing, or maintenance. This edited volume considers the specifics of just-in-time systems. It provides knowledge and insights on recent advances in scheduling theory where just-in-time aspects are considered. Contributions on models, theory, algorithms, and applications, that bring the theory up-to-date on the state-of-the-art of JIT systems are presented. Professionsls, researchers and graduate students will find this book useful.

The most prominent forms of waste in factories, suggests how to combine and simplify operations, and provides practical examples

In a "pull" production system, the final process pulls needed parts from the previous process, which pulls from the process before it, and so on, as determined by customer demand. This allows you to operate without preset schedules and avoid unnecessary costs, wastes, and delays on the manufacturing floor.Pull Production for the Shopfloor introduces

This book reports the elements required for implementing Just in Time (JIT) technique in companies. The main reasons for low implementation processes and the main benefits from the successful implementation of them are highlighted in this book. Structural equation models are presented to help identify the essential elements in JIT.

A Study of the Toyota Production System

New Manufacturing Challenge

From an Industrial Engineering Viewpoint

QUANTITATIVE MODELS IN OPERATIONS AND SUPPLY CHAIN MANAGEMENT

Just-in-Time Manufacturing

Putting the Just-In-Time Philosophy into Practice

Si usted quiere entender como se origino el sistema de producci?n Toyota y por que tiene exito, debe leer este libro. Aqui encontrara una introducci?n avanzada del justo a tiempo. El mundo le debe mucho a Taiichi Ohno. Nos ha demostrado como frbricar con mayor eficacia, como reducir costos, como producir una mayor calidad, y a examinar atentamente como nosotros, en nuestra calidad de seres humanos, trabajamos en una frbrica. El relato que Ohno cuenta en este libro es brillante. Deberia ser leído por todos los gerentes. No es solo un relato acerca de la fabricaci?n; sino tambien sobre como dirigir exitosamente una empresa.

Written by the industrial engineer who developed SMED (single-minute exchange of die) for Toyota, A Revolution in Manufacturing provides a full overview of this powerful just in time production tool. It offers the most complete and detailed instructions available anywhere for transforming a manufacturing environment in ways that will speed up produ

This book explains the implementation of just in time (JIT) production in an industrial context, while also highlighting the application of various, vital lean production tools. Shifting the trade-off between productivity and quality, the book discusses the preparation stages needed before implementing a JIT system. After an introduction to lean manufacturing and JIT, it introduces readers to the fundamentals and practice of Kaizen, paying special attention to lean manufacturing tools. The book demonstrates how to use the 5S approach (with the stages of Seiri, Seiton, Seiso, Seiketsu and Shitsuke), Standardized Work, Single Minute Exchange of Die (SMED) and the Kanban system. In brief, the book provides an understanding of the processes associated with the application of these tools and highlights the benefits attained by companies that have implemented JIT systems. Throughout the book, a real-world case study is used to deepen readers' understanding of how lean manufacturing tools can be implemented. The book is ideally suited for executive courses in industrial engineering and management, but can also be used for upper undergraduate and graduate courses at universities.

The first edition of Just in Time provided a philosophy which could revolutionize industry. The concept - making nothing until it is needed and then producing it to the highest level of quality - sounds simple enough, but can cut a company's costs by up to 60 per cent of sales revenue. At the time of this book's original publication, there were many misconceptions as to both the content and purpose of the concept. Unfortunately, some of these misconceptions can still be seen today. Building on the strengths of the first edition, this book was written with a desire to bring the realization of the potential benefits of JIT to a wider audience. It has been influenced by the growing use of the European Excellence Model as a reference for self-evaluation of business performance and consequently includes a new chapter devoted to this area. A further development has been the growing awareness of the value of Total Productive Maintenance (TPM) and its relevance to JIT. Again, additional material is now included to reflect this change.

Techniques for Continuous Improvement

A Unified Approach to Manufacturing Technology, Production Management and Industrial Economics

Machine that Changed the World

Kaizen for the Shop Floor

Online Probabilistic Risk Assessment of Complex Marine Systems

Just in Time

Are you ready to implement a just-in-time (JIT) manufacturing program but need some help orienting employees to the power of JIT? Here is a concise and practical guide to introduce equipment operators, assembly workers, and other frontline employees to the basic concepts, techniques, and benefits of JIT practices. Like all Shop Floor Series books, Just-in-Time for Operators presents concepts and tools in simple and accessible language. The book includes ample illustrations and examples to explain basic JIT concepts and some of the changes people may encounter in a JIT implementation.Key definitionsElimination of process wasteLeveled production, kanban, and standard workU-shaped cells and automationJIT support techniquesThe JIT approach is simple and universal -- it works in companies all over the world. Educating employees ensures their full participation and allows them to share their experiences and ideas more effectively.

Kanban is the name given to the inventory control card used in a pull system. The primary benefit of kanban is to reduce overproduction, the worst of the seven deadly wastes. A true kanban system works exactly what is ordered, when it is ordered, and in the quantities ordered. It is essentially a dynamic work order that moves with the material. Each kanban identifies the part or subassembly unit and indicates where each one came from and where each is going. Used this way, kanban acts as a system of information that integrates your plant, connects all processes one to another, and connects the entire value stream to customer demand. Kanban for the Shopfloor provides a working manual for those seeking to implement this method of production control in any operation. It defines the various terms and methods employed in kanbans, and illustrates how when adhered to, kanban is an element of continuous improvement that ultimately leads to the ideal of one-piece flow." In addition to reducing the waste of overproduction, kanban will help your company increase flexibility to respond to customer demand, coordinate production of small lots and wide product variety, and simplify the procurement process. About the Shopfloor Series: Put proven improvement tools in the hands of your entire workforce! Progressive shopfloor improvement techniques are imperative for manufacturers who want to stay competitive and to achieve world class excellence. And it's the comprehensive education of all shopfloor workers that ensures full participation and success when implementing new programs. The Shopfloor Series books make practical information accessible to everyone by presenting major concepts and tools in simple, clear language and at a reading level that has been adjusted for operators by skilled instructional designers. One main idea is presented every two to four pages so that the book can be picked up and put down easily. Each chapter begins with an overview and ends with a summary section. Helpful illustrations are used throughout. Other topics in the Shopfloor Series: Kanban, 5S, Quick Changeover, Mistake-Proofing, Just-in-Time, TPM, Cellular Manufacturing

Proceedings of the Sixth European Conference on Computer Supported Cooperative Work, 12-16 September 1999, Copenhagen, Denmark.

The Just-in-time (JIT) manufacturing system is an internal system in use by its founder, Toyota Motor Corporation, but it has taken on a new look. Toyota Production System, Second Edition systematically describes the changes that have occurred to the most efficient production system in use today. Since the publication of the first edition of this book in 1983, Toyota has integrated JIT with computer integrated manufacturing technology and a strategic informa tion system. The JIT goal of producing the necessary items in the necessary quantity at the necessary time is an internal driver of production and operations management. The addition of computer integrated technology (including expert systems by artificial intelligence) and information systems technology serve to further reduce costs, increase quality, and improve lead time. The new Toyota production system considers how to adapt production schedules to the demand changes in the marketplace while satisfying the goals of low cost, high quality, and timely delivery. The first edition of this book, Toyota Production System, published in 1983, is the basis for this book. It was translated into many languages including Spanish, Russian, Italian, Japanese, etc., and has played a definite role in inspiring production management systems throughout the world.

The Shingo System of Continuous Improvement

Advanced Topics in Just-in-time Management

The Complete Guide to Just-in-Time Manufacturing, Second Edition (6-Volume Set)

Proceedings of the Sixth European Conference on Computer Supported Cooperative Work 12–16 September 1999, Copenhagen, Denmark

Pull Production for the Shopfloor

Just in Time-just in Time

The product of many years of research and development by international JIT consultant Hiroyuki Hirano, The JIT Implementation Manual is the most comprehensive material found anywhere for setting up a complete JIT program. And now, by special arrangement with the author, the price of this extraordinary tool has been drastically reduced. Stressing the importance of overall flow in production, Hirano warns against a piecemeal approach to JIT and presents a thorough, systematic process for you to follow. The manual shows you exactly how to plan, enact, monitor, and standardize each of the 11 main types of JIT improvements: flow production multi-process operators manpower reduction kanban visual control leveling changeover quality assurance standard operation human automation maintenance and safety If you're a corporate strategist, JIT leader, or consultant who wants to eliminate waste in your manufacturing processes, here is the best permanent, in-house resource to guide you step-by-step through every phase of JIT implementation. It comes highly recommended and will bring you penetrating insight and lasting support for your JIT implementation efforts. Hirano calls the JIT Implementation Manual the "bible for corporate survival" in manufacturing companies fighting to improve factories and overcome obstacles to measurable success. You'll find the most detailed and extensive JIT procedures ever documented. The Manual: describes innovative engineering techniques to scientifically identify and eliminate waste. helps you construct a market oriented production system, necessary to compete in today's fast-changing global marketplace. enables professional consultants to uncover and remedy deep-seated problems. gives JIT trainers helpful scenarios of how to respond to resistance from workers. details methods for fostering motivation and employee involvement. Includes scores of prototype vouchers, lists, and forms that can be photocopied and used immediately. Illustrates JIT techniques centered on flow management with pertinent case studies The chapter-by-chapter summary provides a detailed outlineof the massive body. At over 1000 pages, the manual is packed with illustrations, photographs, tables, and every critical JIT management form. The two-volume work is bound in durable vinyl and comes in a handsome slipcase for convenient storage.

The SMED System

Just-in-time for Operators