

The Machine That Changed The World The Story Of Lean Production

Lean Production for the Small CompanyLean ProductionLean Production. Impact on the Financials of a FirmLean Production for Competitive AdvantageLean ManufacturingDesign and Analysis of Lean Production SystemsThe Machine That Changed the WorldLean EvolutionThe Lean EnterpriseLean Production Simplified, Second EditionLean Production SimplifiedLEAN Production – Easy and ComprehensiveLEAN PRODUCTION: How to Use the Highly Effective Japanese Concept of Kaizen to Improve Your EfficiencyCapitalizing on Lean Production Systems to Win New BusinessCreating a Lean CultureBeyond Lean ProductionLean Production for Competitive AdvantageProgress in Lean ManufacturingLEAN Production Training for Practice and Study – 35 Exercises with SolutionsLean Management *Mike Elbert John R. Black Tobias Oden DR. JOHN NICHOLAS Karmen Pałek Ronald G. Askin James P. Womack Nick Rich Alexander Tsigkas Pascal Dennis Pascal Dennis Roman Hønggi Jim Thompson Chris Harris David Mann Roger G. Lewandowski John Nicholas J. Paulo Davim Roman Hønggi Frank Bertagnolli*

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a hands on guide to adapting lean principles and the toyota production system to high mix low volume environments lean production for the small company uses charts pictures and easy to understand language to describe the methods needed to improve processes and eliminate waste it walks readers through the correct order of implementation and describes problems and pitfalls along with time tested solutions explaining how to incorporate existing systems into a lean strategy the book starts with

the fundamentals and builds on them to describe the full range of tools and processes needed to implement lean it outlines how to design factories for lean manufacturing and demonstrates how to remove variations within business and manufacturing processes to achieve a smooth continuous flow of product that delivers your product on time to customers the tools methods and ideals discussed are applicable in any industry and all parts of your business from manufacturing and sales to human resources the text unveils new methods and tools that can help you reduce inventory improve inventory turns and facilitate raw material flow through the factory it details how to use customer order demands to schedule the production floor rather than using estimated production schedules it also considers the accounting process and explains how to improve your cash to cash cycle time drawing on the author s decades of experience transforming high mix plants to lean the text brings together coverage of the tools and processes that have made toyota so successful all the chapters in this book when implemented will result in a culture change that will transform your company into a learning organization that continuously eliminates waste and improves its processes

this newly revised and greatly expanded volume aims to provide a readable real world roadmap for putting into place the indispensable strategy and tactics managers need to make lean work and move their organizations whether manufacturing or service based toward a world class production system drawing upon decades of experience in the front lines of lean production and organizational transformation the author provides cases anecdotes examples rationales and concrete tools to help business leaders stop talking about lean production and actually make progress toward achieving it it s the perfect resource for leaders at all levels who are interested in improving their competitiveness building more successful operations and moving toward world class performance in customer satisfaction profitability and employee satisfaction book jacket

master s thesis from the year 2012 in the subject business economics business management corporate governance grade 1 0 durham university language english abstract the starting point for this dissertation is the assumption that implementing lean production in an operation leads to an increase in productivity enhances quality shortens lead times and reduces costs as a result of these single improvements a superior competitive position is achieved based on a literature review that compares several approaches to define lean production a two staged concept is developed that comprises ten different practices of lean production these practices are linked with ten performance indicators which are grouped into three different perspectives shareholder cost and process perspective the assumption that the lean production practices have an impact on the performance measures is tested with a questionnaire in total 76 respondents delivered the data to test the 100 links between lean production and performance the results show that lean production implementation has a measurable impact on the performance parameters and a weaker impact on the cost perspective measures the results are supported by previous findings that show equivocal results regarding the impact on measures like return on sales

lean production for competitive advantage a comprehensive guide to lean methodologies and management practices second edition introduces lean philosophy and illustrates the effective application of lean tools with real world case studies from fundamental concepts to integrated planning and control in pull production and the supply chain the text provides a complete introduction to lean production coverage includes small batch production setup reduction pull production preventive maintenance standard work as well as synchronizing and scheduling lean operations detailing the key principles and practices of lean production the text also illustrates effective implementation techniques with case studies from a range of industries includes questions and completed problems in each chapter explains how to effectively partner with suppliers and employees to achieve productivity goals designed for students who have a basic foundation in production and operations management the text provides a thorough understanding of the principles of lean it also offers practical know how for implementing a culture of continuous improvement on the shop floor and in the office creating a heightened sense of responsibility in all stakeholders and enhancing productivity and efficiency to improve the bottom line in this second edition the author addresses management s role in lean production early observers of japanese methods focused on the shop floor to see amazing things unlike anything practiced elsewhere and the thinking was if the methods could be adopted by companies elsewhere those companies would experience the success of the japanese what the early observers hadn t considered were dramatic differences in the way those companies were managed both daily and strategically the management side of lean production is addressed in two new chapters one devoted to daily management the other to strategy deployment additionally there is a new chapter that addresses breakthrough improvement and an approach to achieving it called production preparation process every chapter has been revised and expanded to better tell the story of lean production its history applications practices and methods

lean manufacturing is a process used in production to maximize efficiency and minimize waste by considering sustainability and the environment this book presents a comprehensive overview of lean manufacturing in various enterprises including manufacturing construction and the fabric and textile industry among others chapters cover such topics as barriers to lean manufacturing enterprise modeling lean practices and circular economies and more

this book covers the design and improvement of single and multistage production systems following the standard production planning and scheduling decision hierarchy it describes the inputs and outputs at each level of the decision hierarchy and one or more decision approaches the assumptions leading to each approach are included along with the details of the model and the corresponding solution modern system concepts and the engineering methods for creating lean production systems are included

when james womack daniel jones and daniel roos wrote the machine that changed the world in 1990 japanese automakers and toyota in particular were making a strong

showing by applying the principles of lean production however the full power of lean principles was unproven and they had not been applied outside of the auto industry today the power of lean production has been conclusively proved by toyota s unparalleled success and the concepts have been widely applied in many industries based on mit s pioneering global study of industrial competition the machine that changed the world offers a groundbreaking analysis of the entire lean business system including product development supplier management sales service and production an analysis even more relevant today as gm and ford struggle to survive and a wide range of british abd american companies embrace lean production a new foreword by the authors brings the story up to date and details how their predictions were right as a result this reissue of a classic is as insightful and instructive today as when it was first published

lean thinking is a powerful method that allows organizations to improve the productivity efficiency and quality of their products or services achieving these benefits requires good teamwork clear communication intelligent use of resources and a commitment to continuous improvement this book shows how lean thinking can be applied in practice highlighting the key challenges and pitfalls the authors based at a leading centre for lean enterprise research begin with an overview of the theory of lean thinking they then explain the core tools and techniques and show how they can be applied successfully the detailed implementation of lean thinking is illustrated by several case studies from a range of industries in which the authors had unprecedented access to the management teams with its focus on implementation and practical solutions this book will appeal to managers at all levels as well as to business students and researchers in lean thinking

the book is divided into three parts part i the rising economy of one gives an overview of what is changing in the social system of production it refers to the weakening role of central planning and the rising power of individuation in the value creation chain part ii lean enterprise in theory refers to the principles of lean thinking the transfer of lean philosophy from east to west and discusses the necessary adaptation to the western way of thinking and practice it presents a practice proven method for achieving a lean integrated demand and supply chain and analyses in detail the related implementation steps criteria for a successful displacement of a company to a lean state are presented part iii lean enterprise in practice provides a number of implementation cases in different types of production companies using the method presented in part ii the goal is to help the reader comprehend how the method can be applied to real lean implementation situations in resolving various issues ranging from production to the supply chain a vision of implementation to lean electricity completes the book

2006 shingo prize for excellence in manufacturing research lean production simplified is a plain language guide to the lean production system written for the practitioner by a practitioner it delivers a comprehensive insider s view of lean manufacturing the author helps the reader to grasp the system as a whole and the factors that animate it

by organizing the book around an image of a house of lean production highlights include an comprehensive view of toyota s lean manufacturing system a look at the origins and underlying principles of lean identifying the goals of lean production practical problem solving for lean production activities that support involvement kaizen circles suggestion systems and problem solving lean production simplified covers each of the components of lean within the context of the entire lean production system the author s straightforward common sense approach makes this book an easily accessible on the floor resource for every operator

following in the tradition of its shingo prize winning predecessors lean production simplified third edition gives a clear overview of the structure and tools of the lean production system written for the practitioner by a practitioner it delivers a comprehensive insider s view of lean management the author helps readers grasp the system as a

no production is perfect waste always creeps into the processes makes them slow sluggish and expensive parts and material pile up in the warehouse production takes place in unnecessarily large batches transport is taking time employees wait unproductively for their next task or products ship too late the result is high production costs and disappointed customers the lean movement has set itself the goal of uncovering waste question it and eliminate it this book will explain in a simple and comprehensive way the lean principles as well as the practical tools to make production processes as lean and value added as possible because we all love stories each method is entertainingly wrapped in an illustrated story in this book a barista who has to run marathon distances every day the cup tim struggles with overproduction and the leanclean inc counts on your support to trim the vacuum cleaner production to maximum value creation with value stream mapping spaghetti diagram 5s each topic you will find our practical tips they are the lessons learned from our lean projects over the past 20 years in many countries they will help you to implement your lean initiatives even more effectively and successfully

although there are many organizations that have implemented lean production systems and become more profitable as a result there can be a gap between what those organizations currently do and how they should plan for and profit from new business capitalizing on lean production systems to win new business creating a lean and profitable new product portfolio explains how to create a lean product portfolio to fill that gap so you can become more profitable from that new business providing a fundamental understanding of the lean enterprise production system this book can help an organization take its current lean knowledge and translate that knowledge into a step by step methodology to win and launch new business lean topics covered include value stream mapping plan for every part process design and standard work scheduling and material flow machine changeover quality and continuous improvement by developing the new product acquisition and launch portfolio presented in this book

you can dramatically improve your ability to produce the products customers desire and deliver them on time focusing on the concepts that are critical to the longevity of your lean enterprise system this book will help you understand how to deliver a product that meets the quality and delivery standards of your customer it will also help you understand how this new product fits into your lean enterprise system detailing how to achieve a successful new product launch through upfront planning this book provides you with the tools to enhance efficiencies throughout your supply chain

2006 shingo prize for excellence in manufacturing research lean production has been proven unbeatable in organizing production operations yet the majority of attempts to implement lean end in disappointing results the critical factor so often overlooked is that lean implementation requires day to day hour by hour management practices and skill

it is estimated that u s manufacturers are currently operating at only 65 percent effectiveness in implementing lean production covering the fundamentals needed to be competitive in today s marketplace beyond lean production emphasizing speed and innovation to beat the competition provides readers with the tools to help their organizations achieve

the lean concepts and principles described in this book have revolutionized manufacturing practice and business conduct in a manner similar to what henry ford s system did for mass manufacturing lean production however involves much more than the adoption of methods and procedures it requires a change in management philosophy that emphasizes relationship building trust and responsibility being conferred to frontline workers and suppliers based on three decades of teaching experience lean production for a competitive advantage a comprehensive guide to lean methodologies and management practices introduces the lean philosophy and illustrates the effective application of lean tools with real world case studies from fundamental concepts to integrated planning and control in pull production and the supply chain the text provides a complete introduction to lean production coverage includes small batch production setup reduction pull production preventive maintenance standard operations as well as synchronizing and scheduling lean operations detailing the key principles and practices of lean production the text also illustrates effective implementation techniques with case studies from a range of industries includes questions and completed problems in each chapter explains how to effectively partner with suppliers and employees to accomplish productivity goals designed for students who have a basic foundation in production and operations management the text provides a thorough understanding of the fundamental principles of lean it also offers practical know how for implementing a culture of continuous improvement on the shop floor or in the office creating a heightened sense of responsibility and pride in all stakeholders involved and enhancing productivity and efficiency to improve the bottom line instructor s material available

please contact orders taylorandfrancis com or call 1 800 634 7064 to request these materials

this book provides some recent research advances in the field of lean manufacturing its content is of interest to students in management and production engineering topics covered include just in time jit kaizen activities and critical metrics the chapters are written by worldwide well known experts in the field

no production is perfect waste creeps into every process it makes it slow and expensive goods lie around in the warehouse production takes place in unnecessarily large batches or employees wait unproductively to produce the next part the result is high production costs and disappointed customers lean production tackles this waste in all processes but how do you actually implement the various lean principles and methods the success of lean production lies in doing and this is precisely where the book comes in the 35 practical exercises show in detail how the lean approaches can be applied and successfully implemented the solutions are supplemented with practical tips for implementation from the authors extensive experience the exercises are implemented in the leanclean inc with many pictures and diagrams concrete simple and comprehensively explained the contents introduction to lean production 35 exercises with solutions for implementing lean production practical tips for implementation methods for identifying waste such as process mapping value stream analysis or operator balance chart methods for optimizing waste such as kanban milkrun lean shelf 5s or smed change management based on the book lean production easy and comprehensive prof dr roman honggi is a professor of production management he has g his rich experience in lean at various hierarchical levels over the course of 25 years in industry his research focuses on to the ongoing evolution of lean in the context of digitalization he provides guidance to numerous industrial companies on their journeys towards becoming operational champions through the integration of lean and digitalization prof dr patrick balve is a professor of logistics planning and organization he is particularly interested in the practical implementation of lean in teaching and practice his extensive experience of lean gained over eight years in the automotive industry and a further five years in applied research makes him an expert in the field of lean implementation dr lukas budde is a postdoctoral researcher at the university of st gallen his research interests include the smart factory complexity management and service management in industrial companies he provides guidance to companies on their digitalization journeys with lean production as a fundamental approach

this book shows the basics methods and principles of lean process design in production as well as in other areas such as development engineering and administration in addition it serves as a reference work for practical use questions have been developed for each topic area for process analysis these can be used for self reflection and benchmarking numerous examples a continuous fictitious industry case as well as learning objectives and exercises with solutions for each chapter supplement the explanations and enable optimal exam preparation this book is a translation of the original german 2nd edition lean management by frank bertagnolli published by springer

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