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Acceptance Letter

Dear

Omar Celis-Gracia

Jorge Luis García-Alcaraz

Francisco Javier Estrada Orantes

Fabiola Hermosillo Villalobos

I am pleased to inform you that the chapter “*Single-Minute Exchange of Die (SMED)*” has been **ACCEPTED** for publication in the book “*Lean Manufacturing in Latin America - Concepts, Methodologies, and Applications.*” Please make a final review of your chapter regarding structure, format, and citation style.

We thank you for your effort and trust in this initiative to document the impact of Lean Manufacturing in Latin America. Please emphasize the technical approach in your chapter. We strongly recommend the use of original graphic content. Otherwise, it is necessary to obtain permission for non-original material (text, tables, or illustrations that you have incorporated in your manuscript from other sources or previous publications).

Sincerely,

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Arturo Realyvásquez Vargas *Editors*

Lean Manufacturing in Latin America

Concepts, Methodologies and
Applications

Lean Manufacturing in Latin America


Jorge Luis García Alcaraz ·
Guillermo Cortés Robles ·
Arturo Realyvásquez Vargas
Editors

Lean Manufacturing in Latin America


Concepts, Methodologies and Applications

 Springer

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Chapter 13

Single-Minute Exchange of Die (SMED)



Omar Celis-Gracia , Jorge Luis García Alcaraz,
Francisco Javier Estrada-Orantes , and Fabiola Hermosillo Villalobos

Abstract This chapter analyzes the Single Minute Exchange of Die (SMED) lean manufacturing tool, delving into its concept, development, relevance, and the benefits it offers when well implemented. It also addresses the obstacles faced during its implementation. Moreover, it is crucial to consider specific fundamental measures throughout the implementation phase. Moreover, a bibliometric study is conducted to examine the prevalence of the SMED concept in the industry. This research specifically focuses on identifying the authors, institutions, and countries that contribute the most scholarly works or are most frequently cited. In conclusion, a case study demonstrates how the use of SMED can improve the company's capacity to manufacture items within the designated timeframe, leading to increased adaptability, reduced expenses, and enhanced product quality. The findings demonstrate that adopting the SMED methodology substantially increased the On-Time Delivery (OTD) metric, escalating from 91 to 98%. Furthermore, there was an approximate 55.55% decrease in the changeover durations. The company's problem was successfully handled by running a two-sample test using the SMED approach.

Keywords SMED · Process improvement · Lean · Quick setup

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