



Mass Customization Capabilities in Practice – Introducing the Mass into Customized Tech-Textiles in an SME Network

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References

- [1] Federal Statistical Office Germany, "Structure of the Classification of Economic Activities, Edition 2008," Wiesbaden, 2008.
- [2] C. Byrne, "Technical textiles market – an overview," in Handbook of Technical Textiles, A. R. Horrocks and S. C. Anand, Eds. Cambridge: Woodhead Publishing, 2000, pp. 1–23.
- [3] I. M. Taplin and J. Winterton, "The European clothing industry: Meeting the competitive challenge," *J. Fash. Mark. Manag. An Int. J.*, vol. 8, no. 3, pp. 256–261, 2004.
- [4] R. M. Jones and S. G. Hayes, "The UK clothing industry: Extinction or evolution?," *J. Fash. Mark. Manag. An Int. J.*, vol. 8, no. 3, pp. 262–278, 2004.
- [5] J. R. Bryson and M. Ronayne, "Manufacturing carpets and technical textiles: Routines, resources, capabilities, adaptation, innovation and the evolution of the British textile industry," *Cambridge J. Reg. Econ. Soc.*, vol. 7, no. 3, pp. 471–488, 2014.
- [6] S. Noroozi and J. Wikner, "Sales and operations planning in the process industry: A literature review," *Int. J. Prod. Econ.*, vol. 188, no. 3, pp. 139–155, 2017.
- [7] European Commission, "Country Reports on Technical Textiles ("TT") in Brazil, Japan, South Korea and USA," 2016.
- [8] WTO Report, "World Trade Statistical Review," Geneva, Switzerland, 2019.
- [9] Y. Kristianto, P. Helo, and R. J. Jiao, "A system level product configurator for engineer-to-order supply chains," *Comput. Ind.*, vol. 72, no. C, pp. 82–91, 2015.
- [10] C. Hicks, T. McGovern, and C. F. Earl, "Supply chain management: A strategic issue in engineer to order manufacturing," *Int. J. Prod. Econ.*, vol. 65, no. 2, pp. 179–190, 2000.
- [11] N. J. Hodges and A. N. Link, *Knowledge-Intensive Entrepreneurship: An Analysis of the European Textile and Apparel Industries*. Cham: Springer, 2018.
- [12] F. S. Fogliatto, G. J. C. Da Silveira, and D. Borenstein, "The mass customization decade: An updated review of the literature," *Int. J. Prod. Econ.*, vol. 138, no. 1, pp. 14–25, 2012.
- [13] F. Piller, K. Moeslein, and C. Stotko, "Does mass customization pay? An economic approach to evaluate customer integration," *Prod. Plan. Control*, vol. 15, no. 4, pp. 435–444, 2004.
- [14] L. L. Zhang, "Product configuration: a review of the state-of-the-art and future research," *Int. J. Prod. Res.*, vol. 52, no. 21, pp. 6381–6398, 2014.
- [15] E. von Hippel, "User Toolkits for Innovation," *J. Prod. Innov. Manag.*, vol. 18, no. 4, pp. 247–257, 2001.
- [16] F. Salvador, P. M. de Holan, and F. Piller, "Cracking the Code of Mass Customization," *MIT Sloan Manag. Rev.*, vol. 50, no. 3, pp. 71–78, 2009.
- [17] D. J. Teece, "The foundations of enterprise performance: Dynamic and ordinary capabilities in an (economic) theory of firms," *Acad. Manag. Perspect.*, vol. 28, no. 4, pp. 328–352, 2014.
- [18] F. Salvador, P. de Holan, and F. Piller, "Cracking the Code of Mass Customization," *MIT Sloan Manag. Rev.*, vol. 50, no. 3, pp. 71–78, 2009.
- [19] K. M. Eisenhardt, N. R. Furr, and C. B. Bingham, "Microfoundations of performance: Balancing efficiency and flexibility in dynamic environments," *Organ. Sci.*, vol. 21, no. 6, pp. 1263–1273, 2010.
- [20] M. M. Tseng and J. Jiao, "Mass customization," *Handb. Ind. Eng.*, vol. 3, pp. 684–709, 2001.
- [21] C. Huffman and B. E. Kahn, "Variety for sale: Mass customization or mass confusion?," *J. Retail.*, vol. 74, no. 4, pp. 491–513, 1998.

- [22] B. J. Pine, B. Victor, and A. Boynton, "Making mass customization work," *Harv. Bus. Rev.*, vol. 71, no. 5, pp. 108-111, 1993.
- [23] R. Desmeules, "The impact of variety on consumer happiness: Marketing and the tyranny of freedom," *Acad. Mark. Sci. Rev.*, vol. 12, no. 1, pp. 1-18, 2002.
- [24] D. J. Teece, G. Pisano, and A. Shuen, "Dynamic capabilities and strategic management," *Strateg. Manag. J.*, vol. 18, no. 7, pp. 509-533, 1997.
- [25] C. Helfat and S. Winter, "Untangling Dynamic and Operational Capabilities: Strategy for the (N)Ever-Changing World," *Strateg. Manag. J.*, vol. 32, pp. 1243-1250, 2011.
- [26] D. J. Teece, "Business models and dynamic capabilities," *Long Range Plann.*, vol. 51, no. 1, pp. 40-49, 2018.
- [27] R. Silvestro and P. Lustrato, "Exploring the 'mid office' concept as an enabler of mass customization in services," *Int. J. Oper. Prod. Manag.*, vol. 35, no. 6, pp. 866-894, 2015.
- [28] N. Levesque and H. Boeck, "Proximity Marketing as an Enabler of Mass Customization and Personalization in a Customer Service Experience," in *Managing Complexit*, J. Bellemare, S. Carrier, K. Nielsen, and F. T. Piller, Eds. Cham: Springer, 2017, pp. 405-420.
- [29] G. J. C. Da Silveira, D. Borenstein, and F. S. Fogliatto, "Mass customization: Literature review and research directions," *Int. J. Prod. Econ.*, vol. 72, no. 49, pp. 1-13, 2001.
- [30] N. Suzić, E. Sandrin, S. Suzić, C. Forza, A. Trentin, and Z. Anišić, "Implementation guidelines for mass customization: A researcher-oriented view," *Int. J. Ind. Eng. Manag.*, vol. 9, no. 4, pp. 229-243, 2018.
- [31] R. K. Yin, *Case Study Research and Applications: Design and Methods*. Los Angeles: SAGE Publications, Inc., 2018.
- [32] M. D. Myers and M. Newman, "The qualitative interview in IS research: Examining the craft," *Inf. Organ.*, vol. 17, no. 1, pp. 2-26, 2007.
- [33] S. Shafiee, K. Kristjansdottir, and L. Hvam, "Automatic Identification of Similarities Across Products to Improve the Configuration Process in ETO Companies," *Int. J. Ind. Eng. Manag.*, vol. 8, no. 3, pp. 167-176, 2017.
- [34] Q. Tu, M. A. Vonderembse, T. S. Ragunathan, and B. Ragunathan, "Measuring modularity-based manufacturing practices and their impact on mass customization capability: A customer-driven perspective," *Decis. Sci.*, vol. 35, no. 2, pp. 147-168, 2004.
- [35] I. Mendikoa, M. Sorli, J. I. Barbero, A. Carrillo, and A. Gorostiza, "Collaborative product design and manufacturing with inventive approaches," *Int. J. Prod. Res.*, vol. 46, no. 9, pp. 2333-2344, 2008.
- [36] A. Trentin, T. Somià, E. Sandrin, and C. Forza, "Operations managers' individual competencies for mass customization," *Int. J. Oper. Prod. Manag.*, vol. 39, no. 9-10, pp. 1025-1052, 2019.