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(Control Unit: FANUC Series 31i-A)

OPERATOR'S MANUAL

⚠ WARNING

To use the products explained herein safely, read carefully and understand completely all the descriptions about safety at the beginning of this manual and those about the functions you are going to use. Failing to follow any safety precaution or any direction described herein may lead to death or injury. Always keep this manual near your product, so you can reference it whenever necessary.

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FANUC



Fanuc Robodrill Operator Manual

Michael Hoelscher



Fanuc Robodrill Operator Manual:

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high mix low volume HMLV manufacturer in the United Kingdom to guide enterprise wide transformation In 1996 the publication of the book Lean Thinking introduced the entire world to Lean Job Shop Lean integrates Lean with GT and CM by using the five Principles of Lean to guide its implementation 1 identify value 2 map the value stream 3 create flow 4 establish pull and 5 seek perfection Unfortunately the tools typically used to implement the Principles of Lean are incapable of solving the three Industrial Engineering problems that HMLV manufacturers face when implementing Lean 1 finding the product families in a product mix with hundreds of different products 2 designing a flexible factory layout that fits hundreds of different product routings and 3 scheduling a multi product multi machine production system subject to finite capacity constraints Based on the Author s 20 years of learning teaching researching and implementing Job Shop Lean since 1999 this book Describes the concepts tools software implementation methodology and barriers to successful implementation of Lean in HMLV production systems Utilizes Production Flow Analysis instead of Value Stream Mapping to eliminate waste in different levels of any HMLV manufacturing enterprise Solves the three Industrial Engineering problems that were mentioned earlier using software like PFAST Production Flow Analysis and Simplification Toolkit Sgetti and Schedlyzer Explains how the one at a time implementation of manufacturing cells constitutes a long term strategy for Continuous Improvement Explains how product families and manufacturing cells are the basis for implementing flexible automation machine monitoring virtual cells Manufacturing Execution Systems and other elements of Industry 4 0 Teaches a new method Value Network Mapping to visualize large multi product multi machine production systems whose Value Streams share many processes Includes real success stories of Job Shop Lean implementation in a variety of production systems such as a forge shop a machine shop a fabrication facility and a shipping department Encourages any HMLV manufacturer planning to implement Job Shop Lean to leverage the co curricular and extracurricular programs of an Industrial Engineering department

Techman ,2002 Operator's Manual ,1962 *Operator's Manual* ,1981 **Operator's Manual** ,1990

Operator's Manual ,1991 *Operator's Manual* Minneapolis-Moline Company,Hopkins (Minn.),1967 **Operator's Manual** ,1992 **Technical Manual, Operator's Manual, Grinding Machine, Drill (Black Diamond Saw and Machine, TM 9-3415-226-10, U.S. Department of Defense, June 1965** United States. Department of the Army, **Operator's Manual, Installing Instructions** ,1960 OPERATOR'S MANUAL... TM 55-1520-210-10... U.S. DEPARTMENT OF DEFENSE... FEBRUARY 15, 1988 ,2000 **Operator's Manual** ,1986 **9000 Series Grain Drills (serial No. (3000-) ,1982*** **Operator's Manual, Attaching Instructions** ,1961 **Operator's Manual, Trainer, Unit-Conduct of Fire (U-COFT) M2A1/M3A1, TM 9-6920-739-10 C4, U.S. Department of Defense, September 10, 1990** United States. Department of the Army, **Operator's Manual** ,1962

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