



Manual de mantenimiento
por
VTC-160A/B, VTC-200B/C y VTC-300C
(Mazatrol Fusión 640M)
Publicación n.º C557MA0014E

3/2000

PRECAUCIÓN

Este Manual se publica para ayudar al personal experimentado en la operación, mantenimiento y/o programación de las máquinas herramienta Mazak.

Todas las máquinas herramienta Mazak están diseñadas con una serie de dispositivos de seguridad para proteger al personal y al equipo de lesiones o daños. Sin embargo, los operadores no deben confiar únicamente en estos dispositivos de seguridad, sino que deben operar la máquina solo después de comprender completamente las precauciones especiales que deben tomar al leer detenidamente la siguiente documentación.

No intente operar o realizar tareas de mantenimiento/repelación en la máquina sin una comprensión completa de las acciones que se van a realizar. Si tiene alguna pregunta, comuníquese con el centro de servicio Mazak más cercano para obtener ayuda.

Ciertas cubiertas, puertas o protecciones de seguridad pueden abrirse o quitarse para mostrar más claramente los componentes de la máquina. Estos elementos deben estar en su lugar antes de operar la máquina. El incumplimiento de esta instrucción puede provocar lesiones personales graves o daños a la máquina herramienta.

Este manual se consideró completo y preciso en el momento de la publicación; sin embargo, debido a nuestro deseo de mejorar constantemente la calidad y las especificaciones de todos los productos Mazak, está sujeto a cambios o modificaciones.



Manual Mazak Vtc 3

U.S. Army



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Thomas Register of American Manufacturers and Thomas Register Catalog File ,1997 Vols for 1970 71 includes manufacturers catalogs

Job Shop Lean Shahrukh A. Irani,2020-05-04 In the 1950 s the design and implementation of the Toyota Production System TPS within Toyota had begun In the 1960 s Group Technology GT and Cellular Manufacturing CM were used by Serck Audco Valves a 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

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(lmtv) ... Volume 3 of 3 ... Departments of the Army and the Ai United States. Department of the Army,2001*

Soldier's Manual ,1979 *Operation Manual for TELEMARC 3* ,1982 *Manual of Instructions* Alvis Limited, **Field**

Manual FM 3-22. 34 (FM 23-34) TOW Weapon System November 2003 United States Government US Army,Us

Army,2012-07-21 This manual discusses the many changes in the TOW missile TOW training and OPFOR armored vehicles and countermeasures It includes training information on the M220A1 basic and M220A2 tube launched optically tracked wire guided TOW weapon systems and carrier M966 Its intended audience includes leaders and members of mechanized infantry light infantry airborne and airmobile infantry organizations who train and test individuals and crews Units with M2 M3 Bradley fighting vehicle systems should also refer to FM 23 1 for additional training and testing requirements

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web easy handling bolt numbering shall be done clockwise around the flange with the following sequence the table below shows the torque sequence for flanges with 4 to 32 bolts number of bolt studbolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt

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web for flanges with 12 or more bolts 1 st round 20 percent of final torque 2 nd round 40 percent of final torque 3 rd round 80 percent of final torque 4 th round 100 percent of final torque final round clockwise or counter clockwise around the flange please take note the above bolt tightening sequences are the most

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web jan 27 2021 the gasket type and arrangement of the flange connection are both critical to choosing which tightening sequence an assembler can use this article which is intended for supervisors engineers or anyone else who oversees bolted flange assembly or maintenance will discuss different torque sequences

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web number of bolt stud bolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt flange 1 9 5 13 3 11 7 15 2 10 6 14 4 12 8 16 20 bolt flange 1 11 6 16 3 13 8 18 5 15 10 20 2 12 7 17 4 14 9 19 24 bolt flange

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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque as per below cross pattern sequences

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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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web welcome to this interactive flange bolting calculator from hytorc the program computes recommended torque values bolting patterns tool selection and pump pressure settings for standard asme b16 5 and api 6a flanges under normal assembly conditions

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web tightening sequence the first pass lightly tighten the first bolt then move directly across or 180 degrees for the second bolt then move 1 4 turn around the circle or 90 degrees for the third bolt and directly across for the fourth continue this sequence until all bolts are tightened when tightening a four bolt flange use a criss cross

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web dec 17 2020 bolt tightening sequence why it matters to complete a flange joint securely it is essential to control the stress variation in the flange joint components in the case of the gasket this needs to be compressed evenly across the flange face if you were to tighten adjacent bolts when those opposite remain loose the result will be

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web jan 10 2016 twelve bolt tightening sequence sequential order 1 2 3 4 5 6 7 8 9 10 11 12 rotation order 1 5 9 3 7 11 2 6

10 4 8 12 sixteen bolt tightening sequence sequential order 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 rotation order 1 9 5 13 3
11 7 15 2 10 6 14 4 12 8 16 twenty bolt tightening sequence

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