

# TOYOTA AIR JET WEAVING MACHINE

## Profile Reed System

# Model JAT710

(FIRST EDITION)

*Thank you for purchasing the JAT710 Air Jet Weaving Machine.*

*This instruction manual describes the correct installation, operating principles, function, adjustment, and maintenance of the JAT710 motions, all of which should be familiar to all personnel concerned.*

*Before operating, adjusting, or maintaining the JAT710, be sure to read this manual carefully to understand the JAT710.*

*If you have any questions concerning the machine, please contact us at the following locations:*

- HEAD OFFICE:** TOYOTA INDUSTRIES CORPORATION  
TEXTILE MACHINERY DIVISION  
1, Toyodacho 2-chome, Kariya-shi, Aichi, 448-8671 JAPAN  
PHONE: (0566) 22-2511  
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- TOKYO BRANCH:** Marunouchi Bldg. F29  
4-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-6329 JAPAN  
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- OSAKA BRANCH:** Room 506, Toyoda Bldg.  
3-11, Minamisenba 4-chome, Chuoh-ku, Osaka, 542-0081 JAPAN  
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*Specifications, operating instructions, and dimensions in this manual are subject to change for improvements without prior notice.*

*TOYOTA shall take no responsibility for loss, damage, expense or claims for bodily injury or property damage arising from incorrect usage which is not in accordance with the instructions given in this manual.*

*In no event will TOYOTA be liable for products resulting from the use of this machine.*



## About the JAT710 Instruction Manual


The JAT710 Instruction Manual is made up of 14 chapters and appendices as listed below.

<b>Chapter S.</b>	<b>SAFETY</b>
<b>Chapter O.</b>	<b>OPERATION</b>
<b>Chapter 1.</b>	<b>PREPARATION</b>
<b>Chapter 2.</b>	<b>LET-OFF MOTION</b>
<b>Chapter 3.</b>	<b>CLOTH TAKE-UP MOTION</b>
<b>Chapter 4.</b>	<b>SHEDDING MOTION</b>
<b>Chapter 5.</b>	<b>WEFT INSERTING MOTION</b>
<b>Chapter 6.</b>	<b>BEATING MOTION</b>
<b>Chapter 7.</b>	<b>DETECTORS</b>
<b>Chapter 8.</b>	<b>SELVAGE FORMING DEVICE</b>
<b>Chapter 9.</b>	<b>INSTRUMENTATION</b>
<b>Chapter M.</b>	<b>MAINTENANCE, DISASSEMBLY/REASSEMBLY/ADJUSTMENT, AND LUBRICATION</b>
<b>Chapter G.</b>	<b>GAUGES, TOOLS, AND MEASURING INSTRUMENTS</b>
<b>Chapter T.</b>	<b>WEAVING TECHNOLOGY</b>
	<b>APPENDIX.</b>


- This manual also covers some options and selections available with the JAT710; it is not edited for your machine specifications only.  
If any descriptions relating to your specifications are missing, contact TOYOTA.
- There may be some discrepancies between the descriptions/illustrations in this manual and the specifications of your machine. For example, the machine speed (rpm) or fabric type given in this manual may differ from that of your machine specifications. This is because the JAT710 Instruction Manual goes by the typical machine specifications. Depending upon your options and selections, the function panel display or accessories may also differ.  
Use this manual, applying your contracted machine specifications.
- Values given in this manual are reference values; they are not assured values.
- This manual does not cover the yarn preparation, machine installation or anything else already sent to you as the "Installation Guide."
- For the group-control inverters, dobbies, positive cam shedding motions, and jacquard machines, refer to each of the instructions manuals separately issued by the manufacturers.

- Each chapter gives the outline of the mechanism and its sketch, which are followed by the details consisting of description and photos/sketches.

(1)  **WARNING**

The  **WARNING** symbol is used in this manual, alerting you to a situation that might cause serious injury or death to the operator if he or she does not follow the instructions in this manual necessary to avoid any dangers in the machinery.

(2)  **CAUTION**

The  **CAUTION** symbol is used in this manual, alerting you to a situation that might cause minor injury to the operator if he or she does not follow the instructions in this manual necessary to avoid any dangers in the machinery.

(3) **NOTE**

The **NOTE** mark is used here, alerting you to possible substantial property damage if the operator fails to follow the instructions in this manual.