Chenille embroidery machines

TCMX SERIES

Please contact our distributor listed below.

* The specifications and designs of our products are subject to change without notice for performance improvement.


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*The actual embroidery area and embroidery speed may vary depending on the items being produced, the machine model, and the embroidering conditions.

*Caution: No registered trademark or product design contained in this catalog may be used without prior permission from the manufacturer.
Integration of Tajima's know-how and the most advanced technologies creates higher value added products.

**TCMX Series**

**TCMX Mixed Type**
A Mixed type series to increase production efficiency and open the way to versatile embroidery expressions! Chenille embroidery and standard embroidery have been brought together in one embroidery machine. A chenille embroidery head is coupled with a standard embroidery head in a pair (available up to 15 pairs).

**TCMX 600 Type**
Multi-head embroidery machines, specialized for chenille embroidery, in the pursuit of high speed, quietness and productivity. Stable stitching is available at the industry’s fastest speed of 750rpm in lineup up to 23 heads!

**TCMX-601**
Single-head model, using the same technologies as the multi-head models. Space-saving and best suited for small lot production!
Chenille embroidery

- High-speed operation at 750 rpm has been brought to reality.
  High-speed operation at 750 rpm (in comparison with our previous specification of 600 rpm) has drastically increased productivity.

- Automatic change of 6 colors enables versatile multicolor arrangement.
  A setting on the operation panel allows the operator to select desired colors.

- Automatic lift-up mechanism
  The Needle, Nipple and Presser foot are automatically lifted up for easier frame exchange operation.

- Automatic needle height adjusting mechanism
  Needle height is adjustable in 10 steps according to the loop height or chain size.

- Tie-off function to prevent the thread from fraying
  Chain stitches are automatically inserted for some stitches after completion of loop stitches for prevention of thread fraying that causes production error.

Standard embroidery head

- A ball screw drive system has been adopted to reduce the time for color change operation
  A ball screw drive system, widely used for precision positioning control of industrial machinery, has been introduced to the color change drive system. The time required for color change from the first to the ninth needles has been reduced from about 3 to 1.1 seconds, drastically improving productivity of multicolor embroidery.

- Thread breakage detector to prevent production error
  A sensor monitors thread movement at all times. If the upper or under thread is broken, this system detects it in an instant and stops stitching to prevent embroidery production from continuing with broken thread. The sensitivity of the sensor is adjustable on the operation panel, depending on the embroidery conditions.

- Middle thread guide with thread take-up spring, keeping the balance of upper and under threads
  The thread take-up spring picks up excess thread and stabilizes the balance of upper and lower threads at high speed operation, improving thread tension. Thread breakage has been reduced by 10 - 50% (compared with our previous specification) due to extra fine satin stitches (2mm or less), needle tip or thread untwisting etc.

- Spiral tube, Take-up lever guard, paying attention to safety
  Spiral tube between the upper thread course stand and the individual tension base protect upper 1 threads against environmental wind, generated by air conditioner, etc. which causes thread to be entangled with each other. Furthermore, uniquely developed covers are mounted onto the take-up levers to prevent threads from getting entangled during high-speed operation and to improve safety in working environments.

Technology and function

- User-friendly operation panel in pursuit of operational convenience
  An easy-to-view color LCD operation panel and special use keys are designed in a compact interface to enable operation by instinct. The job currently being embroidered on the machine is displayed on the screen in real time (PAT). An easy-to-view color LCD operation panel is mounted to the models with total machine length 4,330mm or less.

- Sleep mode function to save energy
  The energy saving function of a personal computer has been introduced to the operation panel. Holding down a single button sets the machine in the standby status and pressing it once more cancels this function. Unnecessary power consumption can be kept down without turning off the main power.

- Data input/output
  Design data input or output is available, using USB memory.
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  ※ Commercially available USB memory reader/writer is applicable.

- “Condition memory” function, supported by Tajima binary format
  Design start position and stitching conditions, registered by an embroidery machine, can be output to USB memory or other media together with the design data. They can be easily recalled and reusable for reproduction. Tajima binary data format (TBF) is supported to create more complicated designs.

- LAN support for networking
  LAN port is prepared for easy access to networking function, using DG/ML by PULSE (option).

- Table offset switch (PAT)
  This special switch is mounted under the table of a jumbo embroidery machine to retract the frame temporarily to any position out of the way for jobs such as threading.

- Middle thread guide with thread take-up spring, keeping the balance of upper and under threads
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**Option**

- **Coiling/Taping device (MT-1)**
  This device enables both coiling embroidery and taping embroidery. Coiling embroidery finishes coirs and coiling threads with a soft touch and allows you various coiling variations. (The winding ratio of coiling threads for the core thread is adjustable in 4 steps.) Furthermore, combination with loop and chain stitches expands the potentials of your embroidery designs.

- **Sequin device II twin type (PAT)**
  It is now possible to embroider a max. of 4 different sizes, shapes and colors on each head! 2 kinds of sequins on one side can be interchanged and embroidered at high speeds as desired. This next-generation Sequin device permits more design options and improves production efficiency.

- **Sequin device IV**
  In addition to regular type sequins of 2 - 9mm dia., sequins of 10-32mm dia. are also available, using additional optional parts. Wide range of sequin are applicable from small to large sizes in various shapes like noncircular or eccentric type, needed for sequin embroidery according to your applications.

- **Cording device (K-2)**
  The cording device, exclusively used for chenille embroidery.

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### TCMX Mixed type Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Needles</th>
<th>Pairs</th>
<th>Chenille heads</th>
<th>Standard head</th>
<th>Head internal</th>
<th>D x W (mm)</th>
<th>Continuous cm</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCMX-60012</td>
<td>6/9 10</td>
<td>12 12</td>
<td>15 20</td>
<td>600 800 1,000</td>
<td>510 610 710</td>
<td>6.100 6.110 6.120</td>
<td>1,300 1,310 1,320</td>
<td>430 440 450</td>
<td>830 840 850</td>
<td>200 200 200</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TCMX-60120</td>
<td>6/15 20</td>
<td>15 15</td>
<td>15 20</td>
<td>600 800 1,000</td>
<td>460 560 660</td>
<td>7.200 7.210 7.220</td>
<td>1,300 1,310 1,320</td>
<td>430 440 450</td>
<td>830 840 850</td>
<td>200 200 200</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TCMX-60210</td>
<td>6/15 15 15 15 480 680 880</td>
<td>680 880 1,000</td>
<td>7.200 7.210 7.220</td>
<td>1,300 1,310 1,320</td>
<td>430 440 450</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>TCMX-60215</td>
<td>6/15 15 15 15 480 680 880</td>
<td>1,000 1,200 1,400</td>
<td>7.200 7.210 7.220</td>
<td>1,300 1,310 1,320</td>
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<tr>
<td>TCMX-60212</td>
<td>6/12 12 12 12 600 800 1,000</td>
<td>1,200 1,210 1,220</td>
<td>7.200 7.210 7.220</td>
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</table>

(Example of a model code)

TCMX-60012

- m=model name, b=Number of needles (Chenille heads), c=Number of needles (Standard heads), d=Pairs of heads

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<tr>
<th>Model</th>
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<th>Chenille heads</th>
<th>Head internal</th>
<th>Embroidery space (mm)</th>
</tr>
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<tbody>
<tr>
<td>TCMX-601</td>
<td>6 1</td>
<td>1</td>
<td>800 1,000 1,200</td>
<td>550 1,300 1,150</td>
</tr>
<tr>
<td>TCMX-610</td>
<td>6 14</td>
<td>450</td>
<td>1,500 1,700</td>
<td>9,100 9,100 9,100</td>
</tr>
</tbody>
</table>

(Example of a model code)

TCMX-600

- m=model name, n=number of needles, c=number of needles, d=number of heads

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### Factory options

- Standard head: Automatic feed system, Jumbo hook, Coiling/Coil, Coiling device (type), Embroidery Device, Position Marker

<table>
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<tr>
<th>Option</th>
<th>Description</th>
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<tr>
<td>Jog remote-controller</td>
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<td>Standard head: High-speed, Mono (standard), Monohook (standard), Long, Long-stitch, Long-stitch (standard)</td>
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<td>AC Servo motor</td>
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### Power supply

- 5-phase: 200-240V, 350/380/400V/50Hz/60Hz/440V/150V/60Hz

### Power consumption

- 1.5Kw

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### TCMX 600-012

- The total height of the machine will be by 365mm taller than the value

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(Example of a model code)

TCMX-600-012

- m=model name, n=number of needles, c=number of needles, d=number of heads

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- Standard head: Automatic feed system, Jumbo hook, Coiling/Coil, Coiling device (type), Embroidery Device, Position Marker

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### Power supply

- 5-phase: 200-240V, 350/380/400V/50Hz/60Hz/440V/150V/60Hz

### Power consumption

- 1.5Kw (144w for TCMX-6012)
Please contact our distributor listed below.

Seller

Tajima Industries Ltd.
19-22, Shirakabe 3-chome, Higashi-ku Nagoya 461-0011 JAPAN
TEL. +81-52-932-3444, 3445  FAX. +81-52-932-2457, 3449


Manufacturer

TISM Co.,Ltd.

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