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> [Yamata](#) /

> Yamata FY33 Industrial Overlock Sewing Machine User Manual

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Model: FY33

INTRODUCTION

The Yamata FY33 industrial overlock sewing machine is designed for professional use in textile manufacturing. It offers high productivity, quality, and durability for various sewing applications on woven and knit fabrics. This machine is suitable for tasks such as garment preparation and finishing, including professional wear, lingerie, swimwear, fashion apparel, sweatshirts, shirts, pants, t-shirts, skirts, and shorts.

Key features include a single needle, three-thread overlock system, high rotation speed, automatic lubrication, a sealed crankcase for reduced noise and vibration, and a roller mechanism. It is suitable for light, medium, and heavy fabrics, primarily for joining fabrics and decorative stitching on knits.



Image: Front view of the Yamata FY33 industrial overlock sewing machine head, showing the threading guides and needle area.

SAFETY INSTRUCTIONS

To ensure safe operation and prevent injury, please observe the following safety guidelines:

- Always ensure the machine is turned off and unplugged from the main power supply before performing any maintenance, cleaning, changing needles, or re-threading.
- Operate the machine only with appropriate finger guards and safety devices in place. Never operate the machine without these protections.
- Keep hands and fingers away from the needle and moving parts during operation.
- Do not wear loose clothing, jewelry, or tie back long hair when operating the machine to prevent entanglement.
- Ensure the work area is well-lit and free from obstructions.
- Only use genuine replacement parts and accessories recommended by Yamata.
- If any unusual noise, vibration, or malfunction occurs, immediately turn off the machine and unplug it. Contact a qualified technician for inspection.

- Motor de fácil instalação
- Economia de energia em até 70%
- Resposta Imediata e maior precisão
- Baixo ruído e vibração
- Mesmos pontos de fixação do motor convencional.
- Substituição simples e direta
- Zero manutenção em correias



Image: Close-up of the machine head showing a safety warning label. The label advises against operating without finger protection and to disconnect power before maintenance.

SETUP

The assembly of the Yamata FY33 industrial overlock sewing machine, including the table and motor, is the responsibility of the buyer. This section outlines the components included and general setup considerations.

Included Components:

ITÉNS INCLUSOS

- CONTROL BOX
- MOTOR
- SINCRONIZADOR
- PROTEÇÃO DA CORREIA
- ACIONADOR DE PEDAL
- TIRANTE
- PARAFUSO, PORCAS E ARRUELAS DE FIXAÇÃO



Image: A visual representation of the components included with the machine, such as the control box, motor, and various fasteners.

- Control Box
- Motor (Servo Motor Yamata)
- Synchronizer
- Belt Protection
- Pedal Actuator
- Tie Rod
- Screws, Nuts, and Washers for fixation

Motor and Control Box Installation:

The machine is equipped with a Servo Motor, offering energy efficiency and precise control. The motor and control box are designed for straightforward installation.



Image: Close-up view of the Yamata Servo Motor and its accompanying control box, showing connection points.

- Mount the motor securely to the underside of the table using the provided hardware.
- Attach the control box in an accessible location, typically near the motor.
- Connect the motor to the control box and the pedal actuator according to the wiring diagram (refer to the separate motor manual if provided).
- Ensure all connections are tight and secure.

Table Assembly and Dimensions:

The machine comes with a sturdy industrial table. Ensure it is assembled correctly for stability and proper operation.

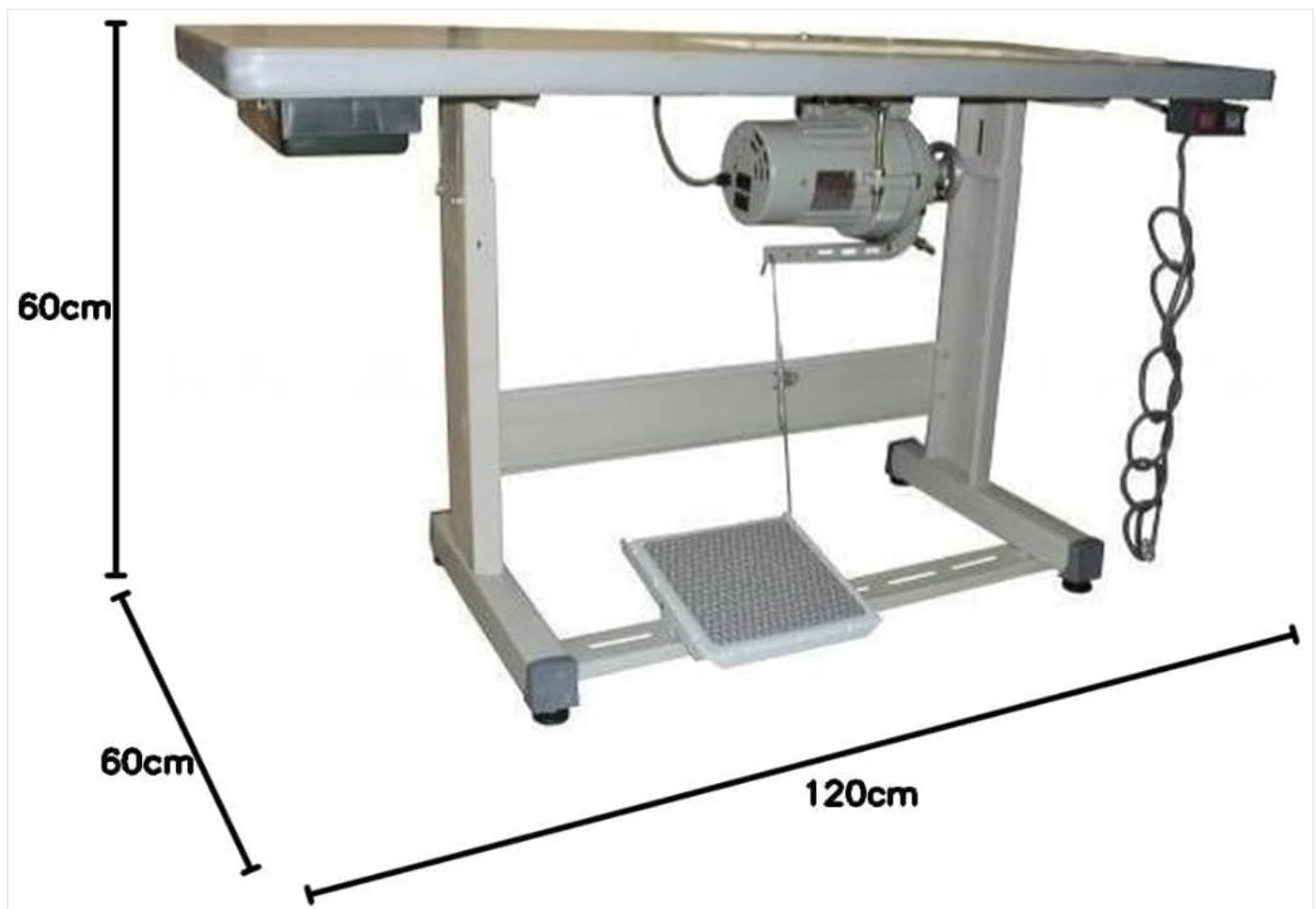


Image: The industrial sewing machine table with indicated dimensions: 120 cm length, 60 cm width, and 60 cm height.

- Assemble the table frame and attach the tabletop.
- The approximate dimensions of the assembled table are 120 cm (Length) x 60 cm (Width) x 60 cm (Height).
- Place the machine head into the designated opening on the tabletop.

Power Connection:

The Yamata FY33 machine is Bivolt, meaning it can operate on both 110V and 220V power supplies. Ensure the correct voltage setting is selected if applicable, and connect the machine to a suitable power outlet.

OPERATING INSTRUCTIONS

This section provides general guidance for operating your Yamata FY33 overlock machine. For detailed threading diagrams and specific adjustments, please refer to the comprehensive manual provided with the machine.

Threading the Machine:

The FY33 is a 3-thread overlock machine. Proper threading is crucial for stitch quality.

- Always turn off the machine before threading.
- Follow the numbered threading path for each thread (needle thread and two looper threads).
- Ensure threads are seated correctly in tension discs and guides.
- Use appropriate thread types for your fabric.

Stitch Adjustments:

- **Stitch Length:** The stitch length can be adjusted from 0 to 5 mm to suit different fabric types and desired stitch appearance.
- **Overedge Width:** The standard overedge width is 4 mm. Adjustments may be possible depending on the specific setup.

- **Tension:** Adjust thread tensions as needed to achieve a balanced and secure overlock stitch. Test on a scrap piece of fabric before sewing your project.

Needle Information:

- The machine uses a single needle of type **DCx27**.
- Always use the correct needle type and size for your fabric to prevent skipped stitches or needle breakage.
- Change needles regularly, especially if they become bent, dull, or burred.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Yamata FY33 overlock machine.

Lubrication System:

The FY33 features an automatic lubrication system designed for precise oil delivery, which prevents wear and overheating of components, thereby extending the machine's lifespan.

- Regularly check the oil level and flow through the designated indicator.
- Ensure the oil reservoir is filled with the recommended industrial sewing machine oil.
- The machine's side and front covers are specially sealed to prevent oil leakage and protect fabrics from stains. The crankcase is also coated with a waterproof material for added protection against oil spills.

Cleaning:

- Turn off and unplug the machine before cleaning.
- Regularly remove lint and thread scraps from the looper area, feed dogs, and under the needle plate using a brush or vacuum.
- Wipe down the exterior surfaces with a soft, damp cloth. Avoid using harsh chemicals.

General Checks:

- Inspect the drive belt for any signs of wear or damage. The Servo Motor system is designed for zero maintenance on belts.
- Check all screws and fasteners for tightness.
- Ensure the pedal actuator is functioning smoothly.

TROUBLESHOOTING

This section provides general troubleshooting tips for common issues. For complex problems, it is recommended to contact a qualified service technician.

Common Issues and Solutions:

• Machine Not Turning On:

- Check if the power cord is securely plugged into both the machine and the electrical outlet.
- Ensure the main power switch is in the "ON" position.
- Verify the power supply voltage matches the machine's requirements (110V or 220V).

• Skipped Stitches:

- Check if the needle is inserted correctly and is not bent or dull. Replace if necessary.
- Ensure the machine is properly threaded, paying close attention to all guides and tension discs.
- Adjust thread tension.

• **Thread Breakage:**

- Check for incorrect threading or tangled threads.
- Ensure thread tension is not too high.
- Inspect the needle for burrs or damage.
- Use good quality thread suitable for industrial machines.

• **Poor Stitch Quality (Loose or Tight Stitches):**

- Adjust thread tensions for all threads (needle and loopers).
- Ensure the machine is clean and free of lint in the tension areas.
- Verify the correct needle and thread combination for the fabric.

• **Unusual Noise or Vibration:**

- Turn off the machine immediately.
- Check for any loose parts or obstructions.
- Ensure the machine is properly lubricated.
- If the issue persists, contact a qualified technician.

SPECIFICATIONS

Feature	Detail
Brand	Yamata
Model Number	FY33
Needle Type	DCx27
Number of Needles	1
Number of Threads	3
Maximum Speed	6500 stitches per minute (PPM)
Stitch Length	0 - 5 mm
Overedge Width	4 mm
Looper Quantity	2
Lubrication Type	Automatic
Feed Type	Simple (Differential Feed)
Motor Type	Servo Motor (Energy Efficient)
Voltage	Bivolt (110V and 220V)
Material	Iron
Product Dimensions (L x W x H)	120 cm x 60 cm x 60 cm
Product Weight	75 Kilograms
Included Components	Machine head, Table, Motor, Control Box, Synchronizer, Belt Protection, Pedal Actuator, Tie Rod, Screws, Nuts, Washers

WARRANTY AND SUPPORT

This section provides general information regarding warranty and support for your Yamata FY33 machine.

- **Product Warranty:** Specific warranty terms are typically provided by the seller or manufacturer at the time of purchase. Please refer to your purchase documentation for details on the standard warranty coverage.
- **Extended Protection Plans:** Extended protection plans against failures and defects may be available for purchase, offering coverage for 12 or 24 months beyond the standard warranty. These plans are separate from the manufacturer's warranty.
- **Assembly Responsibility:** Please note that the assembly of the machine, including the table and motor, is the responsibility of the buyer.
- **Technical Support:** For technical assistance, service inquiries, or to purchase replacement parts, please contact your authorized Yamata dealer or the point of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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