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ESCO EA639EF-2

ESCO 1200kg Toggle Clamp EA639EF-2 Instruction Manual

1. INTRODUCTION

Thank you for choosing the ESCO 1200kg Toggle Clamp, model EA639EF-2. This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your toggle clamp. Please read this manual thoroughly before operating the device and retain it for future reference.

2. SAFETY INFORMATION

Operating any mechanical tool requires adherence to safety precautions to prevent injury and damage. Always prioritize safety.

- **Wear Personal Protective Equipment (PPE):** Always wear safety glasses to protect your eyes from debris and sturdy gloves to protect your hands.
- **Secure Workpiece:** Ensure the workpiece is properly secured before applying clamping force. An unsecured workpiece can shift unexpectedly.
- **Do Not Exceed Clamping Force:** The maximum clamping force for this unit is 1200kg. Exceeding this limit can damage the clamp or the workpiece and poses a safety risk.
- **Keep Hands Clear:** Keep hands and fingers away from moving parts and the clamping area during operation.
- **Stable Mounting:** Mount the clamp securely to a stable, robust surface capable of withstanding the applied forces.
- **Inspect Before Use:** Before each use, inspect the clamp for any signs of wear, damage, or loose components. Do not use a damaged clamp.

3. PRODUCT OVERVIEW

The ESCO EA639EF-2 is a robust push-pull press type toggle clamp designed for applications requiring precise vertical movement and strong clamping force. Its design makes it suitable for tasks such as shearing, caulking, and punching.



This image displays the ESCO 1200kg Toggle Clamp EA639EF-2. It features a robust blue-painted metal body, a black clamping mechanism, and a silver lever with a red ergonomic handle. The clamp is designed for vertical push-pull operations.

Key Features:

- Vertical Action:** The clamping mechanism moves vertically, providing precise force application.
- Push-Pull Press Type:** Designed for both pushing and pulling actions, offering versatility.
- High Clamping Force:** Capable of applying up to 1200kg of force.
- Adjustable Clamp Part:** Features a hex bolt head (M10 x P1.5) for secure and adjustable workpiece contact.

4. SETUP

Proper setup is crucial for the safe and effective operation of the toggle clamp.

- Choose a Mounting Location:** Select a workbench or fixture that is stable, level, and strong enough to support the clamp and the forces it will exert.
- Secure Mounting:** The clamp body has 4 mounting holes. Use appropriate bolts, washers, and nuts (not included) to firmly attach the clamp to your chosen surface. Ensure all fasteners are tightened securely to prevent movement during operation.
- Clearance:** Verify that there is sufficient clearance around the clamp for full operation of the handle and for loading/unloading workpieces without obstruction.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your ESCO toggle clamp:

- Prepare the Workpiece:** Position the workpiece accurately in the desired clamping location.
- Adjust the Clamp Part:** The clamp features a hex bolt head (M10 x P1.5) at the end of the plunger.

Adjust this bolt to the appropriate height to make initial contact with the workpiece when the clamp is in the engaged position. Ensure the contact point is stable and will not damage the workpiece.

3. **Engage the Clamp:** With the workpiece in place, move the operating handle downwards (or forwards, depending on mounting orientation) to engage the clamping mechanism. The toggle action will lock the plunger in the extended position, applying force to the workpiece.
4. **Verify Clamping:** Confirm that the workpiece is securely held and that the clamp is fully engaged. Do not apply excessive force beyond the rated 1200kg.
5. **Disengage the Clamp:** To release the workpiece, lift the operating handle upwards (or backwards) to disengage the toggle mechanism. The plunger will retract, releasing the workpiece.
6. **Remove Workpiece:** Carefully remove the workpiece from the clamping area.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your toggle clamp.

- **Cleaning:** Keep the clamp clean and free from dust, chips, and debris. Wipe down the surfaces with a clean cloth after each use.
- **Lubrication:** Periodically apply a light machine oil or grease to all pivot points and moving parts to ensure smooth operation and prevent rust. Do not over-lubricate.
- **Inspection:** Regularly inspect the clamp for signs of wear, corrosion, or damage, especially on the handle, linkage, and plunger. Check for loose fasteners and tighten them as necessary.
- **Storage:** Store the clamp in a dry, clean environment when not in use to prevent rust and damage.

7. TROUBLESHOOTING

If you encounter issues with your toggle clamp, consider the following common problems and solutions:

- **Clamp not holding workpiece securely:**
 - Check if the clamp is fully engaged.
 - Adjust the hex bolt head on the plunger to ensure proper contact with the workpiece.
 - Verify that the workpiece material is suitable for the clamp's force and contact point.
- **Handle is stiff or difficult to operate:**
 - Apply lubricant to all pivot points and moving parts as described in the Maintenance section.
 - Check for any debris or obstructions in the linkage mechanism.
 - Inspect for bent or damaged components.
- **Clamp appears damaged:**
 - Discontinue use immediately.
 - Do not attempt to repair structural damage yourself unless you are qualified. Contact the manufacturer or a qualified technician.

8. SPECIFICATIONS

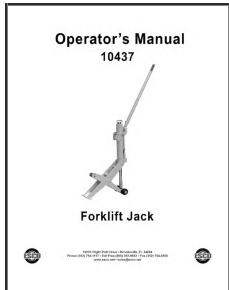
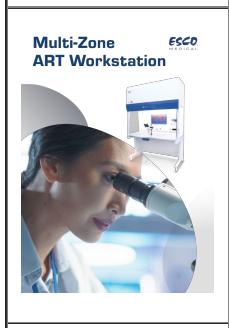
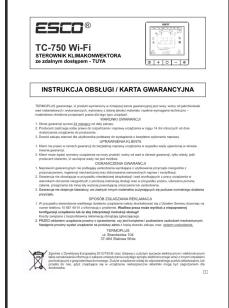
Specification	Value
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Model Number	EA639EF-2
Clamping Force	1200 kg
Stroke	50 mm
Clamp Part	Hex bolt head (M10 x P1.5)
Body Size (excluding handle)	126 x 210 x 290 (H) mm
Weight	7.4 kg
Mounting Holes	4 locations
Material	Steel
Style	Toggle

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your ESCO 1200kg Toggle Clamp EA639EF-2, please contact the retailer or the manufacturer directly. Keep your purchase receipt or proof of purchase for warranty claims.

Related Documents - EA639EF-2

 <p>Operator's Manual 10437</p> <p>Forklift Jack</p>	<p>ESCO 10437 Forklift Jack Operator's Manual</p> <p>Operator's manual for the ESCO 10437 Forklift Jack, including safety warnings, specifications, and a parts list.</p>
 <p>Multi-Zone ART Workstation</p>	<p>Esco Multi-Zone ART Workstation: Advanced Equipment for Assisted Reproductive Technology</p> <p>Explore the Esco Multi-Zone ART Workstation, a state-of-the-art solution for gamete and embryo manipulation in IVF. Discover its advanced features including multi-zone heating, precise temperature control, superior air cleanliness, and optional MIRI® chambers, designed to enhance ART success rates.</p>
 <p>ESCO TC-750 Wi-Fi Klimakonwektora</p> <p>INSTRUKCJA OBSŁUGI / KARTA GWARANCYJNA</p> <p>SPIS ZŁĄCZENIA PRZEWODÓW</p> <p>SPŁAĆCZENIE GWARANCYJNE</p>	<p>ESCO TC-750 Wi-Fi - Instrukcja Obsługi i Karta Gwarancyjna</p> <p>Szczegółowa instrukcja obsługi i karta gwarancyjna dla sterownika klimakonwektora ESCO TC-750 Wi-Fi z zdalnym dostępem przez aplikację Tuya. Dowiedz się o instalacji, konfiguracji i funkcjach urządzenia.</p>

	<p><u>Instrukcja Obsługi i Karta Gwarancyjna Rejestratora Temperatury ESCO DR-203+WD</u> Szczegółowa instrukcja obsługi i karta gwarancyjna dla rejestratora temperatury ESCO DR-203+WD, przeznaczonego do monitorowania temperatury w transporcie i magazynowaniu towarów.</p>
	<p><u>ESCO Model 10962 Digital Tire Inflator Operating Instructions</u> Operating instructions for the ESCO Model 10962 Digital Tire Inflator, including details on operation, battery change, scale change, calibration, and specifications.</p>
	<p><u>MIRI® Evidence: RFID Witnessing & Traceability System for Fertility Clinics</u> Discover MIRI® Evidence, the advanced RFID witnessing and traceability system by ESCO Medical designed to enhance accuracy, security, and chain of custody in fertility clinics. Streamline IVF processes and minimize errors.</p>