



Ergonomic Cylinder Lift (ECL) Instructions

Please ensure that all safety procedures are followed

SOP-01

v 2.1

Key Code	Overview	Detail Instructions & Explanations	Pictures
<ul style="list-style-type: none"> ✓ Pre-Checks 🚒 PPE Required 🚑 Safety Hazards 📌 i1-6 Special note 🖼️ 1-3 Picture/info on right (Front Side) 🔍 #1 Enlarged pictures(s) ✓ Post-Checks 	<div style="border: 1px solid blue; padding: 5px; margin-bottom: 10px;"> <p>1 Secure Cylinder 🚒 📌 1</p> </div> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 10px;"> <p>2 Moving Cylinder 🚒 📌 2</p> </div> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 10px;"> <p>3 Loading on Stationary Object 🚒 📌 3</p> </div> <div style="border: 1px solid blue; padding: 5px;"> <p>4 Unloading from Stationary Object 🚒 📌 3</p> </div>	<p>1.1 Complete ✓</p> <p>1.2 Roll ECL to the cylinder i1</p> <p>1.3 Position hinged part of cylinder bracket around cylinder</p> <p>1.4 Attach loop bolt to the hook on the affixed part of the bracket i2</p> <p>1.5 Pull bracket lever opposite of hook to tighten against the cylinder</p> <hr/> <p>2.1 Pull back on the U-shaped handle to tilt ECL on rear wheels</p> <p>2.2 Move ECL with secured cylinder to desired location</p> <p>2.3 Once you have reached the desired destination place ECL back on all 4 wheels</p> <p>2.4 Detach cylinder by releasing bracket lever</p> <hr/> <p>3.1 Position ECL with cylinder in close proximity to allow the proper tilt of the cylinder without hitting the object you are loading onto 📌 3</p> <p>3.2 Place one hand on the top of the cylinder cap while the other hand is on the U-shaped handle. 📌 3</p> <p>3.3 Pull back on the cylinder until the bottom of the cylinder is higher than the object you are loading it on to 📌 3</p> <p>3.4 Place the bottom portion of the cylinder on the object you are loading onto.</p> <p>3.5 Lift up on the cap of cylinder & raise until the bracket is slightly higher than the object you are loading onto. Move ECL as close as possible to loading target. i3 #3</p> <p>3.6 Rest cylinder bottom on stationary object</p> <p>3.7 Release cylinder bracket</p> <p>3.8 Slightly lift the cylinder off of bracket i4</p> <p>3.9 Slide cylinder into/onto the stationary object and re-secure cylinder as required</p> <hr/> <p>4.1 Reverse steps 3.1 -3.9 for proper unloading of cylinder from stationary object i5</p> <p>4.2 Back the ECL away from stationary object</p> <p>4.3 Lower cylinder to the lowest position by lifting cylinder cap slightly and pulling lever</p> <p>4.4 Push down on cylinder cap to lift bottom of cylinder off of the stationary object and back the ECL up on all 4 wheels.</p> <p>4.5 Lower the bottom of cylinder back to the ground slowly i6-8</p>	<p>📌 1 1 Secure Cylinder</p>  <p>📌 2 2 Moving Cylinder</p>  <p>📌 3 3 & 4 Loading / Unloading</p> 



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✓ Pre-Checks (Prior to the start of work)

† PPE –

- Ensure proper hand protection is worn
- Ensure ground is stable
- Ensure there are no obstacles in path
- Tools & Materials needed

⚠ Safety Hazards

Step	Description
All	Do NOT move cylinder on all four wheels. Must be moved on rear wheels only, when cylinder is attached
All	Ensure wheel brake is set when ECL is not loaded to prevent accidental rolling on uneven surfaces
All	Setting the brake during loading or unloading is not recommended.

#1 ALL



Bracket Release Lever

#2 All



Wheel Brake

#3 3.5



Lift cylinder slightly higher than loading/unloading object while close to object

i1 Special Notes

- i1 If you are using a Leverage handle, install it first by securing the bracket with the top edge of bracket approximately 2" below the top of the cylinder/tank. Ensure the ECL bracket is at its lowest position by pulling the bracket release handle.
- i2 Adjust the bracket size by twisting the bracket loop bolt to ensure the bracket closes completely with a snug fit around cylinder.
- i3 Ensure the ECL is close to the stationary object you are loading and unloading while the cylinder bracket is secured.
- i4 Avoid dragging cylinder on rubber bracket to avoid bracket damage
- i5 Latch the bracket with the bottom of the bracket in the middle of the cylinder/tank to achieve slightly bottom heavy balance.
- i6 Depending on how centered you positioned the bracket on the cylinder, the cylinder may be suspended off the ground or may hit the ground before becoming vertical. If so, please place cylinder vertical and release height lever to readjust before moving cylinder ECL using the following procedure in i7 or i8
- i7 If the cylinder is above the ground articulate the cylinder back to horizontal. Place the bottom of the cylinder on a low stationary object. Lift up on the cylinder cap, pull bracket release, leaving bracket loosely engaged to cylinder and reposition the bracket on the cylinder. Do not completely release bracket lever.
- i8 If the cylinder touches the floor before becoming vertical, rest cylinder bottom on floor, release bracket lever leaving bracket loosely engaged, roll ECL forward until cylinder is vertical on floor and re-tighten bracket.

✓ Post-Checks

- Housekeeping