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## Geko G02081

# Geko G02081 3 Ton Engine Crane User Manual

Model: G02081

## INTRODUCTION

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This manual provides essential information for the safe and effective use of your Geko G02081 3 Ton Engine Crane. Please read and understand all instructions before assembly, operation, or maintenance. Keep this manual for future reference.



Figure 1: The Geko G02081 3 Ton Engine Crane.

## SAFETY INFORMATION

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Always prioritize safety when operating heavy machinery. Failure to follow these safety guidelines may result in serious injury or property damage.

- Ensure the crane is on a level, stable surface before operation.
- Do not exceed the maximum load capacity of 3 tons.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Keep hands and feet clear of moving parts.
- Never leave a suspended load unattended.
- Inspect the crane for damage or wear before each use. Do not use if damaged.
- Ensure all bolts and fasteners are securely tightened.

## PRODUCT OVERVIEW

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The Geko G02081 is a robust 3-ton engine crane designed for lifting and positioning heavy loads, such as vehicle engines. It features a durable frame, hydraulic lifting mechanism, and swivel casters for maneuverability.



Figure 2: Side profile of the engine crane.

### Key Components:

- **Boom:** Extendable arm with load capacity markings.

- **Hydraulic Cylinder:** Provides lifting power.
- **Hook and Chain:** For attaching to the load.
- **Frame:** Sturdy base and support structure.
- **Casters:** Wheels for mobility.



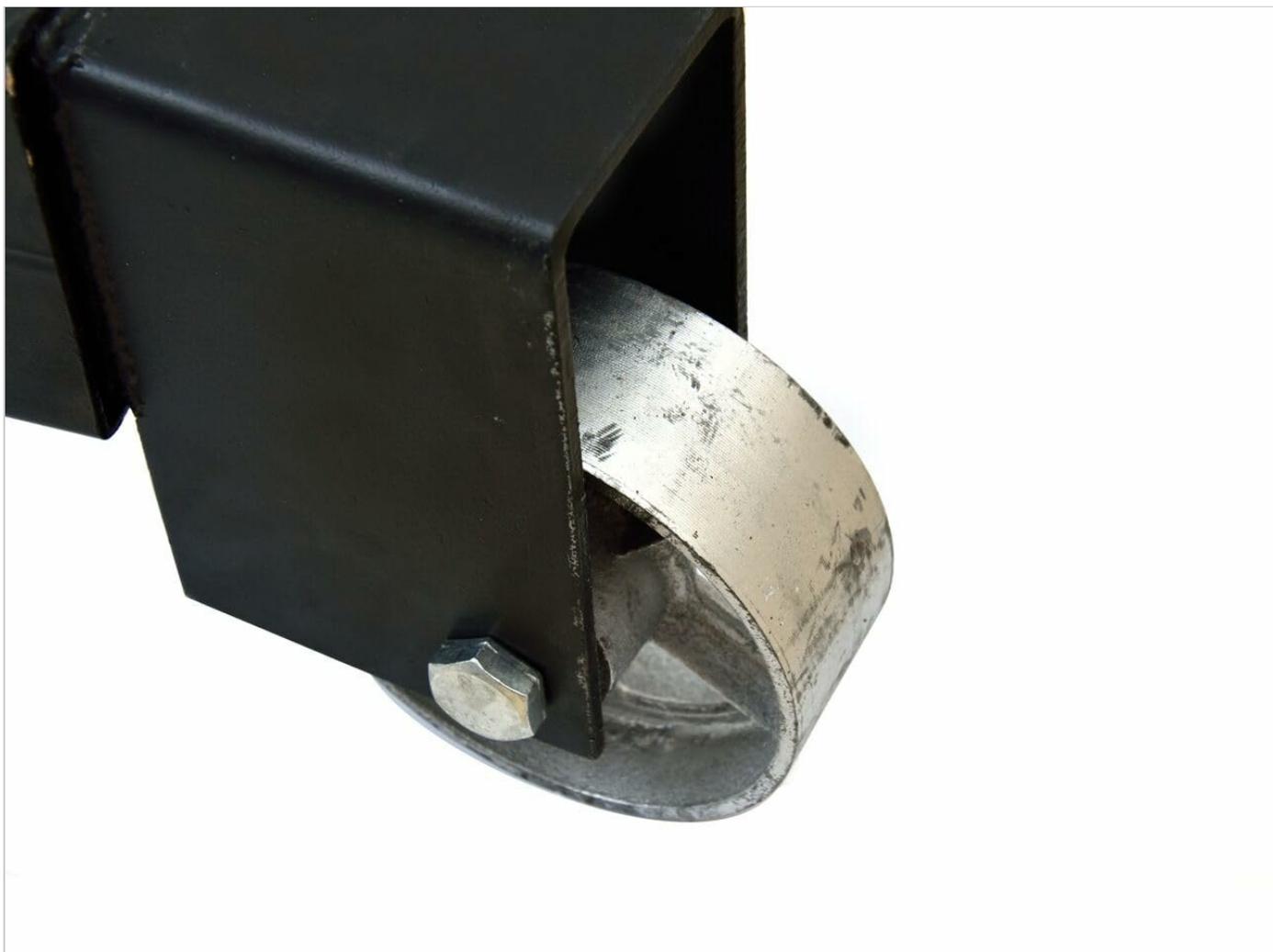
*Figure 3: Detail of the lifting hook and chain.*



Figure 4: Load capacity markings on the boom.



*Figure 5: The hydraulic lifting cylinder.*



*Figure 6: One of the robust casters.*

## **SETUP AND ASSEMBLY**

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The Geko G02081 engine crane requires assembly. Follow these steps carefully:

1. Unpack all components and verify against the parts list (not provided in this manual, refer to packaging).
2. Assemble the main frame and legs, ensuring all bolts are securely fastened.
3. Attach the casters to the legs.
4. Mount the vertical support and boom assembly.
5. Install the hydraulic cylinder, connecting it to the boom and frame.
6. Attach the chain and hook to the end of the boom.
7. Perform a functional check by slowly extending and retracting the boom without a load to ensure smooth operation.



Figure 7: Product identification label, useful during assembly.

## OPERATING INSTRUCTIONS

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Before operating, ensure the crane is on a firm, level surface and all safety precautions are observed.

1. **Positioning:** Roll the crane into position over the load. Ensure the load is centered under the boom.
2. **Extending the Boom:** Adjust the boom length according to the required reach and load capacity. Refer to the markings on the boom (Figure 4).
3. **Attaching the Load:** Securely attach the load to the hook using appropriate lifting slings or chains. Ensure the load is balanced.
4. **Lifting the Load:** Operate the hydraulic pump handle to slowly raise the boom and lift the load. Lift only as high as necessary.
5. **Moving the Load:** With the load slightly elevated, carefully maneuver the crane to the desired location. Move slowly and avoid sudden movements.
6. **Lowering the Load:** Slowly release the hydraulic pressure to lower the load. Guide the load into position.
7. **Detaching the Load:** Once the load is securely placed and stable, detach the lifting hook.

*Note:* Always ensure the load is stable and balanced throughout the lifting and lowering process. Never exceed the rated capacity for the selected boom extension.

## MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your engine crane.

- **Inspection:** Before each use, inspect all structural components, welds, bolts, and the hydraulic cylinder for signs of wear, damage, or leaks.
- **Lubrication:** Periodically lubricate pivot points and caster bearings.
- **Hydraulic Fluid:** Check the hydraulic fluid level regularly. Top up with appropriate hydraulic oil if necessary. Refer to the manufacturer's recommendations for fluid type.
- **Cleaning:** Keep the crane clean and free from dirt, grease, and debris.
- **Storage:** Store the crane in a dry, protected area when not in use.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Crane does not lift load	Low hydraulic fluid level; Air in hydraulic system; Overload; Release valve open.	Check and refill hydraulic fluid; Bleed air from system; Reduce load; Ensure release valve is closed.
Load lowers slowly or uncontrollably	Leaking hydraulic seals; Release valve not fully closed or faulty.	Inspect for leaks and replace seals if necessary; Check and adjust release valve. Consult qualified technician.
Difficulty moving crane	Damaged casters; Obstruction; Uneven surface.	Inspect and replace damaged casters; Clear obstructions; Move to a level surface.

## SPECIFICATIONS

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**Manufacturer:** Firma Handlowa GEKO

**Model Number:** Geko\_G02081

**ASIN:** B07FSH784D

**Package Dimensions:** 35 x 35 x 15 cm

**Weight:** 85 kg

**Maximum Load Capacity:** 3 Ton

**Maximum Height:** 2200mm (as per product label)

**Country of Origin:** Poland

## WARRANTY AND SUPPORT

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For warranty information or technical support, please contact the manufacturer, Firma Handlowa GEKO, directly. Refer to the product packaging or the manufacturer's official website for contact details. Always provide your model number (Geko\_G02081) and ASIN (B07FSH784D) when seeking support.

*Note:* The specification regarding 'Guaranteed software updates until: unknown' is typically for electronic devices and may not be applicable to this mechanical engine crane.



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