



PORTABLE LIFTING ADJUSTABLE GANTRY FRAME 3 TONNE

MODEL NO: **SG3000**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
instruction
manual

1. SAFETY

- ✓ **WARNING!** Ensure all Health and Safety, local authority, and general workshop practice regulations and recommendations are strictly adhered to when lifting or moving heavy loads. The lifting or movement of heavy loads may be dangerous if not undertaken correctly.
- ✓ Familiarise yourself with the application and limitations, as well as the specific potential hazards peculiar to the gantry frame.
- ✓ Keep gantry frame, chain block, trolley, lifting slings, support and beams in good working order and condition. Follow the inspection requirements as described in Section 6, Maintenance. Take immediate action to repair or replace damaged parts by contacting your supplier. Ensure that all accessory lifting devices are suitably certified. If gantry is damaged, remove from service immediately.
- ✓ Ensure the surface on which the gantry frame is to be used is level, firm and capable of supporting the weight of the gantry frame with maximum load - we recommend concrete. Never use the gantry on tarmacadam or other soft surfaces, as the gantry may sink in.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ Keep working area clean and tidy, free from unrelated materials and ensure that there is adequate lighting.
- ✓ **Ensure** that load (including the weight of the chain block and trolley) does not exceed the maximum capacity of the gantry frame. Overloading the gantry frame is dangerous.
- ✓ **To** avoid injury, be fully aware of your own and other persons locations in relation to the lifting, and lowering, of the load.
- ✓ **Keep** a sound footing and balance, and ensure the floor is not slippery, and wear non-slip footwear.
- ✓ **Ensure** that crossbeam is level.
- ✗ **DO NOT** attempt to alter crossbeam height whilst under load.
- ✗ **DO NOT** harness the load at an angle or use any attachments not verified as fit for purpose.
- ✗ **DO NOT** allow the load to swing during lifting.
- ✗ **DO NOT** allow the load to drop suddenly. Lower load with care, ensuring that you are fully aware of the condition of the surface onto which the load is to be placed.
- ✗ **DO NOT** position any part of your body beneath the load.
- ✗ **DO NOT** use the gantry frame to move or transport a load. The gantry frame is a lifting support device only.
- ✗ **DO NOT** use this product to perform a task for which it is not designed.
- ✗ **DO NOT** use whilst under the influence of drugs, alcohol or intoxicating medication.
- ✗ **DO NOT** climb on the gantry frame.
- ✗ **DO NOT** use if the gantry frame appears to be damaged, badly worn, or operates abnormally. In such cases the gantry frame must be removed from service and is recommended that the necessary repairs be made by an authorised Sealey stockist.
- ✓ When not in use store in a safe, dry, childproof area.
- ✓ This gantry is designed for lifting within a garage or workshop environment.
- **WARNING!** Failure to heed safety and warning instructions may result in damage and/or personal injury and will invalidate the warranty.

2. INTRODUCTION

Ideal for workshops/garages where level lifting is essential. Four swivel locking castors. gantry frame is NOT to be moved while loaded. All steel construction with 'I-beam' cross member for added strength. Height-adjustments (Unladen) from 2400 to 3600mm in 100mm increments. Ideal for maintenance, manufacturing, repairs and other material handling tasks. Quick assembly and disassembly for easy transport within a workplace or from site to site. Lifting tackle not included.

3. SPECIFICATION

Model No	SG3000
Gantry Width	2810mm
Maximum Depth	1200mm
Maximum Height	3600mm
Maximum Load Capacity	3 Tonne
Minimum Height	2400mm
Nett Weight	329.5kg

4. ASSEMBLY

NOTE: Numbers in brackets refer to item numbers as shown in the parts diagram.

- ❑ **WARNING!** Certain of the assembly procedures require two or more persons to carry out safely.

DO NOT tighten fastenings fully until the assembly process is complete. It may be more convenient to clear a large area and lay out the various parts on the ground before tightening and erecting.

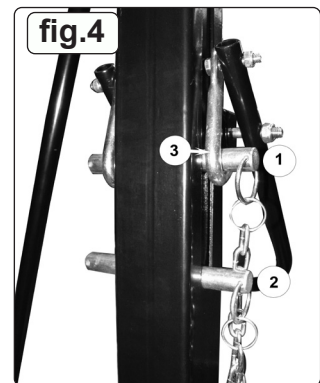
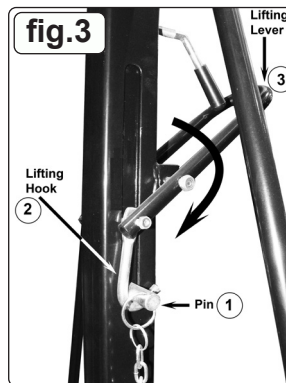
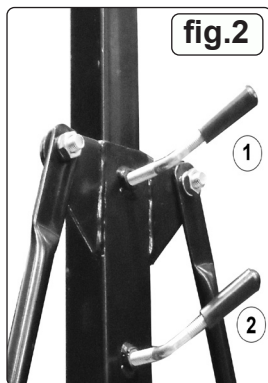
- 4.1. Attach each Inner Vertical Posts (21) to the crossbeam (19) by eight sets of bolts, washers, spring washers and nuts (1,2,3,4)
- 4.2. Attach the four Swivel Castors (27) to the Bases (26) by means of hex headset screws (15), spring washers (16) and nuts (17). Fill the swivel bearing housings with grease via the grease nipple.
- 4.3. Attach the Outer Vertical Posts (23) to the bases making sure that the triangular brackets are on the same side as those on the bases. Fit the hex bolts (14) from above and secure with washer (2), spring washer (3) and nut (4).
- 4.4. Affix the Support Tube (22) between the base and the outer vertical post by means of bolts, washer, spring washers (5,6,) and nuts (8). Repeat for remaining support tubes.
- 4.5. Place inner vertical post into outer vertical post. Insert one of the pins (10) through the slot and a hole in the inner support post. Leave the other pin free. Attach the lifting handle (24) to the bracket on the outside of the outer vertical post, affix by inserting hex head bolts (10) from the inside of the bracket and securing with spring washers, (16) and flat washers, nuts (17). Repeat for other upright, using the corresponding hole on each post.
- 4.6. Attach pin (25) to lifting lever by 13mm nuts and bolts.
- 4.7. Insert bolts M12 (9) into outer vertical posts.
- 4.8. **Tighten all nuts and bolts to secure structure.**

5. OPERATION

- ❑ **WARNING!** Ensure you have read and understood the safety instructions at the beginning of this section before you operate the crane.

NOTE: Refer to Section 6 regarding inspection before each and every use.

- 5.1. Mount the trolley on the crossbeam, following the assembly instructions supplied with the trolley.(see fig.1)
- 5.2. Hang a suitable chain block from the trolley.
- 5.3. **LIFTING AND LOWERING CROSSBEAM**
DO NOT ALTER CROSSBEAM HEIGHT WHILST UNDER LOAD. This operation should be carried out using two people in order to synchronize the lifting/lowering operation.
- 5.4. **TO LIFT (SEE FIG.3).**
 - 5.4.1. Ensure that the pin is in the lower location on each side.
 - 5.4.2. Loosen the two clamping screws on each side (fig.2.1 & 2)
 - 5.4.3. Engage the lifting hook (fig.3.2) with the pin in the lower location on each side.(fig.3.1)
 - 5.4.4. Lift the lower pin, by pressing down on the outer ends of the lifting levers (fig.3.3).
 - 5.4.5. When the next locating hole appears in the slot insert the other pin in it (thus becoming the lower pin) and lower gently until it is bearing weight (fig.4). Repeat until the required height is reached. (13 holes are provided).
 - 5.4.6. Clamp the uprights by tightening the clamping screws (fig.2.1 & 2).
 - 5.4.7. Loosen the clamping screws. (fig.2.1 & 2)
 - 5.4.8. Place pin in the upper hole location.(fig.4.1)
 - 5.4.9. Engage the lifting hook with the upper pin.(fig.4.3)
 - 5.4.10. Using lifting handles, lift top pin to release the weight on the lower pin.(fig.4.2)
 - 5.4.11. Remove lower pin(fig.4.2) and lower the upper pin (fig.4.1) gently to the lower location.
 - 5.4.12. Repeat until the required height is reached.
 - 5.4.13. Clamp the uprights by tightening the clamping screws.(fig.2.1 & 2).
- 5.5. **POSITIONING GANTRY FRAME**
 - 5.5.1. Release the wheel brakes and roll the gantry frame into the required position and re-apply the brakes.
NOTE: THIS GANTRY FRAME IS NOT DESIGNED TO BE MOVED WHILST UNDER LOAD.
 - 5.5.2. Ensure that the lifting chain and chain tail from the chain block are not hanging in a hazardous or damaging position.
 - 5.5.3. Attach lifting hook from chain block to the load by means of a suitable **CERTIFIED** sling, spreader or load beam.
 - 5.5.4. Start lifting, again making sure that the lift is perpendicular with no side strains.
 - 5.5.5. When clear, the load may be rolled along the length of the crossbeam to a new location then lowered.



6. MAINTENANCE

NOTE: The crane **MUST** be kept clean and dry and must be maintained in accordance with these instructions.

6.1. The gantry frame should be maintained at regular intervals not exceeding every twelve months.

6.2. Only trained and competent personnel should maintain this equipment.

6.3. INSPECTION

The gantry frame should be inspected visually before each use for signs of damage or misuse. The crane must not be used until any abnormality is rectified.

6.4. EXAMINATION

At suitable intervals, dependent on the use to which the crane is put, examine all parts for damage or wear and lubricate where necessary. Replace any suspect or missing parts. Check that all fastenings are tight before the gantry frame is put back into use.

6.5. STORAGE

Store in a safe, dry location beyond the reach of children.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



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Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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