



0.5 TONNE PORTABLE ADJUSTABLE GANTRY CRANE

MODEL NO: **SG500**

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 instructions

1. SAFETY

- ✓ Familiarise yourself with the applications, limitations and hazards peculiar to the portable adjustable gantry crane.
- ✓ Maintain the portable adjustable gantry crane in good condition.
- ✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ☐ **WARNING!** This portable adjustable gantry crane is designed for lifting within a garage or workshop environment.
- ✓ Keep the portable adjustable gantry crane clean for best and safest performance.
- ✓ Ensure the surface that the portable adjustable gantry crane is to be located is level, even and firm and is capable of supporting the imposed loads of the portable adjustable gantry crane. A concrete floor is recommended.
- ✗ **DO NOT** use the portable adjustable gantry crane on tarmac or other soft surfaces as the portable adjustable gantry crane may sink in.
- ✓ Ensure the crossbeam is level.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ Keep the working area clean and tidy, free from unrelated materials.
- ✓ Ensure the work area has adequate lighting.
- ✗ **DO NOT** exceed the maximum load capacity of the portable adjustable gantry crane. This includes the lifting tackle and block trolley or beam clamp plus the working load.
- ☐ **WARNING!** Overloading is dangerous and may cause serious personal injury. To avoid injury, be fully aware of your own and other persons locations when lifting or lowering the load.
- ✓ Position the portable adjustable gantry crane so that the lifting appliance is directly over the load.
- ✓ Apply the wheel locks prior to raising the load.
- ✗ **DO NOT** attempt to move the portable adjustable gantry crane whilst under load.
- ✗ **DO NOT** use a vehicle, winch etc. to tow the portable adjustable gantry crane.
- ✗ **DO NOT** allow the load to swing unduly or in an uncontrolled manner.
- ✗ **DO NOT** rotate the load unless the centre of gravity will remain under the centre line of the block trolley or beam clamp.
- ✗ **DO NOT** allow persons to pass under suspended loads.
- ✗ **DO NOT** place ladders or climb on the unrestrained portable adjustable gantry crane.
- ✗ **DO NOT** leave suspended loads unattended.
- ✓ Keep a sound footing and balance, and ensure the floor is not slippery and wear non-slip footwear.
- ✗ **DO NOT** attempt to alter the crossbeam height whilst under load.
- ✓ Raise and lower the load with care and ensure the landing area is properly prepared.
- ✗ **DO NOT** use the portable adjustable gantry crane to perform a task for which it is not designed.
- ✗ **DO NOT** use the portable adjustable gantry crane whilst tired, under the influence of drugs, alcohol or intoxicating medication.
- ✓ When not in use store in a safe, dry childproof location.
- ☐ **WARNING!** The warnings, cautions and instructions in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

2. INTRODUCTION

Ideal for workshops/garages where level lifting is essential. Fitted with four swivel locking castors. Gantry crane is NOT to be moved while loaded. All steel construction with 'I-beam' cross member for added strength. Height-adjustable (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: SG500
 Gantry Width: 2600mm
 Maximum Depth: 1200mm
 Maximum Height: 3600mm
 Maximum Load Capacity: 0.5tonne
 Minimum Height: 2400mm

4. ASSEMBLY

Unpack the product and check contents. Should there be any damaged or missing parts contact your supplier immediately. Take care when removing components from packing as some parts are heavy.

Refer to attached parts list.

Seek assistance from another person on assembly of heavy parts.

4.1. ATTACH PLATES TO CROSSBEAM

4.1.1. Position one pair of plates (#20A, #20B) to crossbeam (#19) and secure with screw M12 x 35 (#1), washer M12 (#2), spring washer M12 (#3) and nut M12 (#4).

4.1.2. Repeat for other end.

4.2. ATTACH WHEELS TO BASE ASSEMBLY

4.2.1. Attach a castor wheel (#27) to each end of the base assembly (#26) and secure with screw M8 x 16 (#15), spring washer M8 (#16) and nut M8 (#17).

4.2.2. Repeat for other base assembly.

4.3. ATTACH BASE ASSEMBLY TO VERTICAL POSTS

NOTE: Ensure upper triangular fixing brackets are facing outwards.

4.3.1. Attach the base assembly complete with attached castor wheels (section 4.2) to the fixing plate at the base of the outer vertical post (#23) and secure with bolt M12 x 90 (#14), washer M12 (#2), spring washer M12 (#3) and nut M12 (#4).

4.3.2. Repeat for other vertical post assembly.

4.4. ATTACH THE SUPPORT TUBE

4.4.1. Locate the upper fixing hole of the support tube (#22) to the triangular fixing bracket on the vertical post assembly and secure with screw M14 x 40 (#5), washer M14 (#6), spring washer M14 (#7) and nut M14 (#8).

4.4.2. Locate the lower fixing hole of the support tube (#22) to the fixing bracket on the base assembly and secure with screw M14 x 40 (#5), washer M14 (#6), spring washer M14 (#7) and nut M14 (#8).

4.4.3. Repeat for all other support tubes.

4.5. ATTACH INNER VERTICAL POST

4.5.1. With the assistance of another person place the inner vertical post (#21), with upper fixing plate facing inwards, into the outer vertical post (#23).

4.5.2. Fully insert one pin (#18) via the slot in the outer vertical post and through the aligned holes on the inner vertical post. Leaving the other pin free.

4.5.3. Repeat for other side, using the corresponding holes on the inner vertical post.

4.6. ATTACH CROSSBEAM TO VERTICAL POSTS

4.6.1. With the assistance of another person hold the vertical post assembly (section 4.5) in a vertical position.

4.6.2. Raise the crossbeam assembly (section 4.1) safely and securely with a fork truck or crane and secure the vertical post with screw M12 x 35 (#1), washer M12 (#2), spring washer M12 (#3) and nut M12 (#4).

4.6.3. Repeat for the other vertical post assembly.

4.7. ATTACH LIFTING HOOK (PIN)

4.7.1. Locate the lifting hook (pin) (#25) to the outer face of the handle (#24). Secure into place with screw M8 x 40 (#12) and nut M8 (#13).

× **DO NOT** over tighten. Leave hook free to swing.

4.7.2. Repeat for all other hooks.

4.8. ATTACH HANDLE

4.8.1. Align holes of handle (#24) with attached hooks, with holes on bracket located on outside of outer vertical post and secure with bolt M10 x 70 (#10) and nut M10 (#11).

× **DO NOT** over tighten. Leave handle free to move

4.9. ATTACH LOCKING BOLT

4.9.1. Thread the locking bolts (pin M12) (#9) into the threaded nuts welded to outer vertical post.

4.10. Repeat for other side.

5. OPERATION

5.1. RAISING THE CROSSBEAM

Seek assistance from another person to raise the crossbeam.

5.1.1. Locate the portable adjustable gantry crane into position and lock all the castor wheels (#27).

5.1.2. Ensure that the pin (#18) is in the lowest location both sides (fig 1-1).

5.1.3. Slacken locking bolts (pin M12) (#9), on each side (fig 1-2).

5.1.4. Engage the lifting hook (#25) with the pin (#18) in the lowest location on each side (fig 1-3).

5.1.5. Pull the handle (#24) downwards (fig 1-4).

5.1.6. When the next locating hole appears in the slot of the outer vertical post, insert the other pin through, this then becomes the lower pin.

5.1.7. Gently lower until the pin is bearing the weight.

5.1.8. Repeat until the desired height is reached.

5.1.9. Re-tighten all the locking bolts (pin M12) (#9) (fig 1-2).

5.2. LOWERING THE CROSSBEAM

Seek assistance from another person to lower the crossbeam.

5.2.1. Slacken locking bolts (pin M12) (#9), on each side (fig 1-1).

5.2.2. Insert the pin (#18) into the upper hole location, each side (fig 2-2).

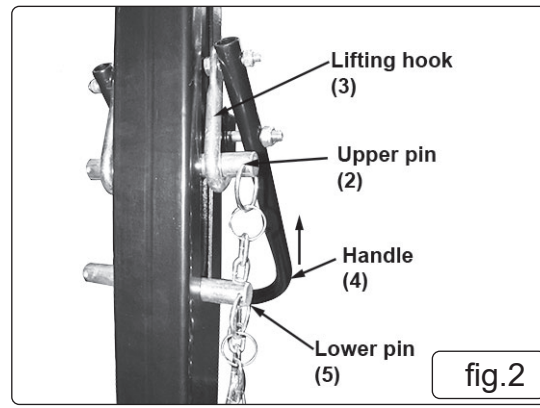
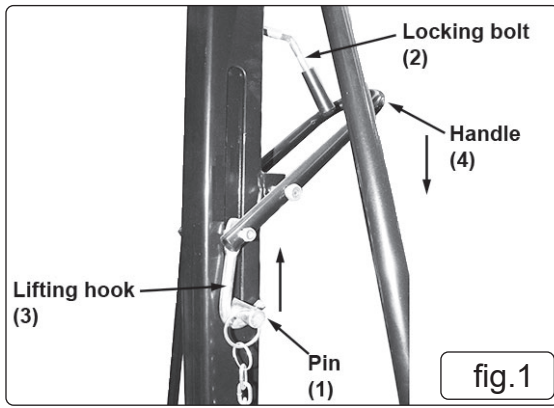
5.2.3. Engage the lifting hook ((#25) with the pin (#18) in the upper location on, each side (fig 2-3).

5.2.4. Engaging the handle (#24), lift the top pin to release the weight on the lower pin (#18) each side (fig 2-4).

5.2.5. Remove the lower pin (#18) and gently lower the upper pin to lower location each side (fig 2-5).

5.2.6. Repeat until the desired height is reached.

5.2.7. Re-tighten all the locking bolts (pin M12) (#9) (fig 1-2).



6. MAINTENANCE

NOTE: Maintenance and repair must be carried out by a qualified person. Contact your Sealey stockist for details.

- 6.1. The portable adjustable gantry crane should be visually inspected before each use for signs of damage or misuse.
- 6.2. If the portable adjustable gantry crane appears to be damaged, badly worn or operates abnormally it **MUST** be removed from service.
- 6.3. Check all fittings are tight before each use.
- 6.4. Always keep the portable adjustable gantry crane clean, dry and protect from harsh conditions.
- 6.5. When not in use store the portable adjustable gantry crane in a safe, dry childproof location.



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.

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.

Important: No Liability is accepted for incorrect use of this product.

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

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