

# ITM01 IBC Tipper

## Operation and Maintenance Manual

The ITM01 is designed for tipping IBCs (intermediate bulk containers) of a weight of up to 1000kg.

### Safety Regulations

- Do NOT use the IBC Tipper unless you have read and fully understood this manual.
- The IBC Tipper is built for use on level ground. Always park on as flat ground.
- This Unit is to be used by one operator at a time and they MUST be behind the unit when operating the lift mechanism.
- Do NOT allow other members of staff to be in front of the unit when in use.
- The Safe Working Load (SWL) for this unit is 1000kg and this limit should not be exceeded in any circumstance. To do so may result in serious injury.
- The IBC Tipper should be inspected at regular intervals, decided by the operator's company, for signs of damage or defects.
- Ensure damaged or missing safety signs are replaced. These are available from STS.
- The manual forces related to the use of this IBC Tipper are relatively low; any doubts in this should be reported to the STS Technical Support Line.
- The unit is designed to tilt open pallets only. Do Not attempt to lift any closed pallets or damage to the unit and/or the IBC will result.
- Do not attempt to manoeuvre the IBC if the pallet is damaged.
- If any operator is in any doubt of the correct suitability of the equipment or has any problem understanding the instruction manual then they should contact the STS support line.
- The mounting or installation of additional equipment which affects or enhances the performance of the equipment requires the written permission of the manufacturer.
- The IBC Tipper must be inspected at least annually or after any unusual event by a suitably competent person.

The manufacturers shall not be held liable in case of faults or accidents due to negligence, incapacity, installation by unqualified personnel or improper use.

### Operating Instructions

#### Maximum safe working load – 1000kg

The Hydraulic unit fitted to this IBC Tipper has 3 functions of operation which are controlled depending on the position of the lever on the handle. This direction lever has three positions for operation shown in figures 1-3.



**Quick lift** - When the control lever is in the down position it is in the quick lift position and can be pumped to its maximum height with as little strokes as possible.



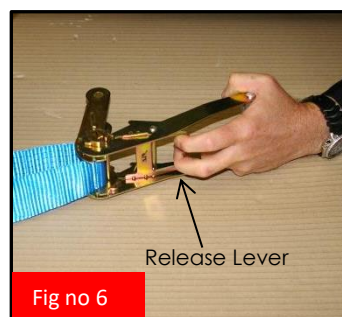
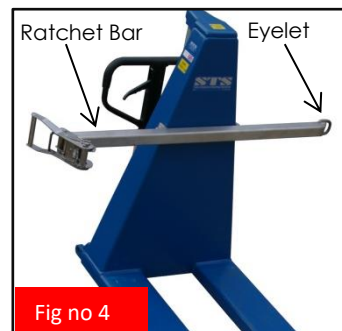
**Slow lift** - With the control lever in the central position the control lever is in the slow lift position allowing the user to increase the height slower than the quick lift setting.



**Lowering** - To place the IBC down, simply pull the control lever. The rate at which the drum lowers is controlled by the amount that the handle is pulled.

## Operating the IBC Tipper

- Wheel the forks of the IBC Lifter so they are positioned underneath the pallet of which the IBC is sitting on. Ensure that the forks are pushed as far in as possible so that the frame of the IBC is touching the horizontal ratchet bar as shown in Fig 4.
- Wrap the retaining strap around the IBC and secure the hook in to the eyelet on the IBC tipper.
- Pull the strap through the ratchet mechanism until all the excess slack is removed. Pull up and push down on the ratchet handle to tighten the retaining strap whilst keeping tension in the slack as shown in Fig 5.
- There should be approximately 2 full wraps of webbing around the spindle when the strap is tight. If webbing is wrapped excessively around the spindle then the webbing can prevent the operation of the ratchet mechanism. If too many wraps are around the spindle then release the ratchet strap and remove the excess slack. Then retighten.
- To release tension, pull back the handle to about 135 degrees and operate the release lever and open the ratchet fully to 180 degrees. The Release lever is shown in Fig 6.
- To lock the ratchet push the ratchet handle to the fully closed position while operating the release lever. Ensure the loose end of the strap is secured before attempting to lift.
- Once the ratchet has been secured pump the handle to increase the tilt of the IBC.
- To remove the IBC lower the IBC Tipper to the ground and release the retaining strap.
- The IBC Tipper can now be removed.



## Decommissioning

If the IBC Tipper is to be out of service for more than a month, e.g. for commercial reasons, it must be stored in a frost-free and dry room. All necessary measures must be taken before, during and after decommissioning as described hereafter.

- Thoroughly clean the IBC Tipper.
- Check the hydraulic oil and replenish if necessary.
- Apply a thin layer of oil or grease to any non-painted mechanical components.

## Final De-commissioning, Disposal

Final de-commissioning or disposal of the IBC Tipper must be performed in accordance with the regulations of the country of use, meeting the countries regulations for disposal of hazardous materials. In particular, regulations governing the disposal of batteries, fuels and electronic and electrical systems must be observed.

## Maintenance

Any maintenance needs to be carried out by a competent individual. The unit is designed to be maintenance free.

Schedule	Weekly	3 Monthly	Annually
<b>Chassis and Superstructure</b>			
Inspect labels are legible and complete	•	•	•
Inspect all components for wear and damage	•	•	•
Inspect chassis for damage and visually inspect all welds for cracks		•	•
<b>Hydraulic Operations</b>			
Test all hydraulic functions operate fully	•		
Check hydraulic oil levels and top up if necessary		•	
Inspect hydraulic seals for damage and leaks		•	
Replace hydraulic oil			•
<b>Agreed Performance Level</b>			
Carry out a load test with rated load, or if necessary, with customer specified load			•
<b>Cleaning</b>			
Steam jets, degreasing agents and high – pressure cleaner should be employed with great caution to avoid degreasing components		•	•

## Hydraulics Troubleshooting

Unit does not lift	Unit overloaded
Unit does not lift to full stroke	Pump is short of oil. Ensure rod is at bottom of stroke and fill with Hydraulic oil. Shell Tellus 32 or equivalent.
Handle does not start pumping until part way through stroke	Hydraulic circuit has air in it. Bleed system.
Lift feels spongy or springy	Air in system. Bleed system.
Oil Leaking from top of pump unit around chromed rod	Replace seal in Top screw Nut Assembly.
Oil Leaking from Filler point	Filler Bung damaged or unit over filled with oil.
Oil Leak From top seal on Quick Lift pump	Replace Quick Lift Pump unit.
Oil Leaking from ends of Control Valve	Replace complete Control Valve.
Unit Lifts with the lift stroke of the handle then lowers again when the handle is returned	Replace Complete Control Valve.
Control lever on handle will not lift enough to lower unit	Adjust control rod connection to release arm.
Handle does not have a neutral position when the control lever is in the centre	Adjust control rod connection to release arm.

For further help contact STS:

**Technical Support Line: +44 (0) 1736 851050**

In the interest of all concerned it is essential that equipment of our manufacture is used only for the purposes for which it has been designed and it must be used in accordance with the instructions which are supplied.