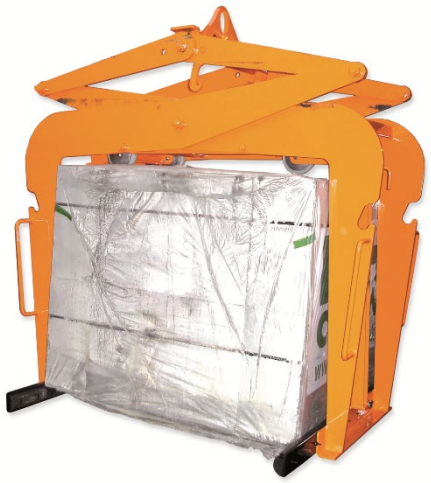
Mechanical Scissor Grab

Model - ISG-5



Description

Designed to lift, move and release numerous types of slabs, blocks and single or double layer kerb packs safely on a building site or yard. Fully mechanically operated via the forklift (without the driver leaving the safety of his seat) or via an overhead crane / HIAB.

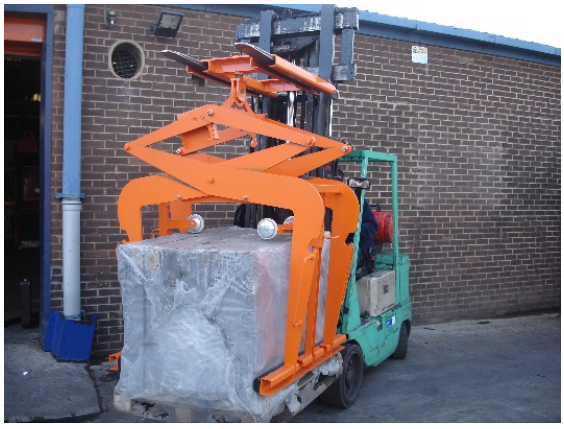
Model	Span (mm)	Internal Height (mm)	Overall Height (mm)	Overall Width (mm)	Pad Length (mm)	Capacity (kg)	Weight (kg)	C of G (mm)	No. of Block Layers
ISG-5	600-1130	100-925	1430	1500	1200	2000	270	750	4
ISG-5-60	410-1185	100-1125	2200	1640	1200	1500	321	750	5

Standard Features

- External handles for ease of positioning
- Adjustable internal pack height
- Profiled hooks for attachment of optional safety net
- Fully automatic mechanism
- Segmented interchanged rubber pads
- Painted bright orange for safety

Optional Features

- Restraint Net
- Fork Mounted Yoke – refer to separate specification sheet



INVICTA TECHNICAL FILE

OPERATION, MAINTENANCE, & HEALTH AND SAFETY INSTRUCTIONS

MODEL: SCISSOR GRAB

Operation

1. Fit the rubber pads arms to the foot of the grab (if not already fitted) and attach with two safety lynch pins per pad arm.
2. Insert the lifting pin from the Self Locating Yoke (separate attachment) or the swivel hook (separate attachment) through the lifting eye of the Scissor grab.
3. With the unit in the locked open position proceed towards your intend pack (if the unit is not in the open position fully close the grab and lift again).
4. Adjust the actuator wheels (Model ISG-5 only) so that when the white nylon wheels make contact with the top of the pack the rubber pads arms are positioned within the bottom half of the bottom row of blocks (the actuator wheels are positioned by retracting the sprung loaded pin from the positioning hole then slide the actuator wheel assembly to its new desired position ensuring that both sides are in the same corresponding holes).
5. Lift the grab so that it is positioned directly above the intend pack and lower the grab until the actuator wheels are resting on the pack (do not slam the grab down on the pack) and the grab has fully closed. Once closed begin to lift, the rubber pad arms will then begin to close on to the bottom block of the pack, continue to lift until the grab has lifted the pack clear of the ground/pallet.
6. Once the pack is clear slide a restraint net (optional extra) under the pack and hook the net into the four profiled restraint net hooks in the main frame (this must be adhered to if lifting overhead).
7. Drive the forklift to the desire position and then lower the grab until the pack comes into contact with a firm surface and actuator wheels once again resting on the pack (remove the net prior to this if fitted). The rubber pads arms will now have released from the bottom block, but then continue to lower until the grab has fully closed.
8. Lift the grab clear of the pack and the unit will now be in its fully locked open position ready for the next operation.

Maintenance

1. The Scissor Grab should be inspected weekly for general condition with particular attention paid to:
   - A - All weld points
   - B - Wear & distortion of lifting eyes and rubber pad arms
   - C - Any damaged components
   - D - Locks & latches
   - E - Security of all nuts and bolts
   - F – Security and condition of Rubber Pads
2. General surface rusting especially in critical areas should be treated with proprietary inhibitors, primers and paint on a regular basis.
3. All hinges, latches, locks, hinge points and springs must be kept lightly greased.
4. Damage or failure must be reported or rectified immediately prior to re-use of the grab.
5. This product is certified for six (6) months from the date of manufacture after which it is the customer's responsibility to have the product re-tested at an approved testing facility or inspected and logged in a register by a competent person as advised by the HSE.

Health and Safety

1. The manager of the department or section where the attachment is to be used must be responsible for ensuring the operators are fully conversant with the attachment, its operation and maintenance.
2. Never lift an unstable pack of blocks.
3. Ensure all packs are banded together.
4. Never stand between or under the grab under any circumstances.
5. Always use a restraint net when lifting overhead.
6. Ensure that the grab is lifting on the centre of gravity of its intended load.
7. Never grab beyond halfway up on a block on the bottom row of a pack.
8. Keep hands and fingers clear of all moving parts so as to prevent trapping.
9. Never shock load the grab when loaded as this may result in losing the load.
10. Always ensure that the grab is fully closed between each operation so as to ensure that the release mechanism correctly rotates.
11. The load should be lifted and manoeuvred with a smooth unformed action, without jerkiness and sudden changes in direction as this could temporary loose the effectiveness of gravity, which will decrease the gripping force.
12. Ensure that the gripping surface, where the rubber pads touch the pack, is free from ice, plastic, grease etc to ensure maximum gripping force is achieved.

The Operator should ensure that the above product is used for the purpose that it has been designed, tested and intended to do and no deviation to this occurs. If in doubt, consult your fork truck dealer or approved attachment supplier.

Mechanical Scissor Grab – ISG-5

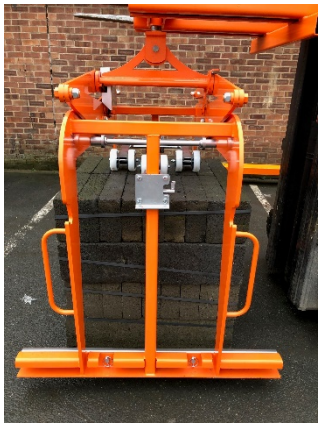
Pictorial Lifting

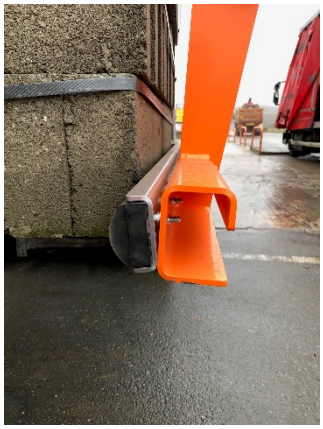
Designed to lift, move and release numerous types of slabs, multi layer blocks and kerb packs safely on a building site or yard.

Lifting Multi Layered Blocks

• Ensure that the grab is positioned centrally over the load before lifting commences to ensure a balanced lift is achieved.

• Ensure that the Rubber Pads lift from the bottom row of blocks in the bottom half of the block. Lifting higher than the bottom half may 'Fan' the load resulting in a lost load

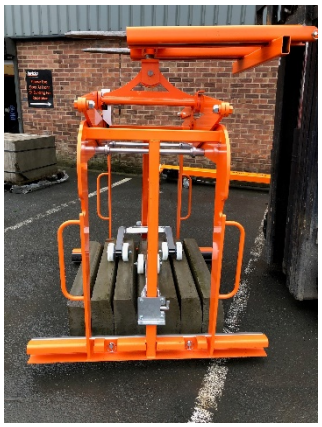


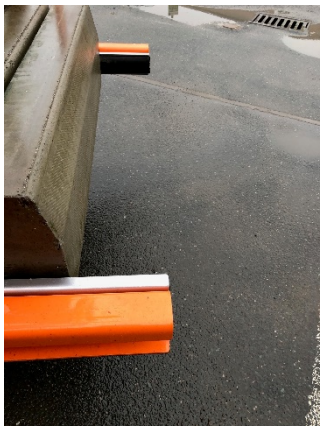


Lifting Single Layered Kerbs

• Ensure that the grab is positioned centrally over the load before lifting commences to ensure a balanced lift is achieved.

• Ensure that the Rubber Pads arms lift from the bottom row of kerbs in the bottom half of the bottom kerb. Lifting higher than the bottom half may 'Fan' the load resulting in a lost load.

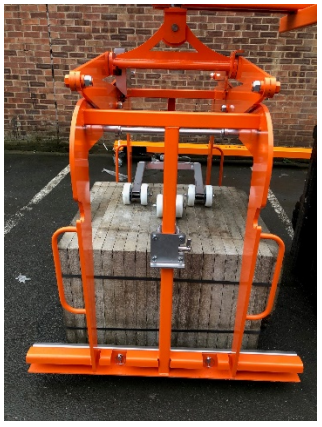


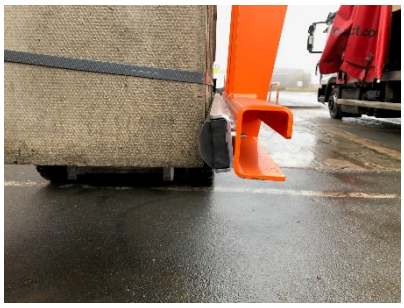


Lifting Slabs

• Ensure that the grab is positioned centrally over the load before lifting commences to ensure a balanced lift is achieved.

• As the load is vertical ensure that all slabs are within the rubber pad arms and equally spaced overhang.





Read in conjunction with the Operation, Maintenance and Health & Safety Sheet