

# Shifta Conveyor

Portable conveyor for rubble, aggregates and soils. It has a tough rubber belt and a portable hopper that is large enough to convey bulky material.



Code 71B1

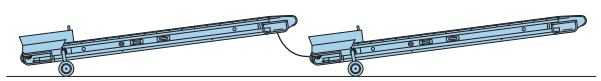
Fold wheels down from transport position. Lift base of machine, pull black locking pin. Push wheels into position and let go of pin. The pin should engage into locking plate. Lower machine safely onto the ground.

Do not drop machine. Fit hopper to base of machine. Align the slots both sides so they line up with the dome head pins. Push hopper toward top of machine until the domed pin stops at the base of the slot. Then push down to lock hopper in place.

Wheel machine in to place using the handles at the top of the machine. If lifting of the machine is required be sure to use proper manual handling techniques.

Once machine is in place plug in power supply. Start pre-operation checks.

When using more than one conveyor. Setup the first conveyor and work forwards. When you are happy with the placement link the machines with the appropriate power leads. For 110v machines a maximum of 5 conveyors can be linked per 5Kva transformer.



## EQUIPMENT CARE

### TRANSPORTATION

Common sense and planning must be applied to control the movement of the machine when moving it with a forklift.

The transport vehicle must be parked on a level surface. The machines brakes must remain on whilst being transported.

When loading machines on the truck fold up the wheel bogey and stack the conveyors on top of each other.

Always check the machine wheel brakes are on in preparation for transport.

Inspect the entire machine for loose or unsecured items.

**IMPORTANT**  
DO NOT OVER TIGHTEN STRAPS  
Excessive tension of the straps will cause damage to the machine.

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease and speed, assume you have the wrong equipment for the job. Contact HSS Hire for advice.

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

When not in use, store the equipment somewhere clean, dry and secure.

## PRE-OPERATION CHECKLIST

- BE SURE THE MAIN BELT IS PROPERLY TENSIONED AND IN GOOD CONDITION.
  - CHECK THERE ARE NO CRACKS IN WELDS OR STRUCTURAL COMPONENTS
  - CHECK THERE ARE NO DENTS OR DAMAGE TO THE MACHINE
  - BE SURE THAT ALL STRUCTURAL AND OTHER CRITICAL COMPONENTS ARE PRESENT AND ALL ASSOCIATED FASTENERS AND PINS ARE IN PLACE AND PROPERLY TIGHTENED.
  - CHECK THE FOLLOWING COMPONENTS OR AREAS FOR DAMAGE, MODIFICATIONS AND IMPROPERLY INSTALLED OR MISSING PARTS:
  - ELECTRICAL COMPONENTS
  - WIRING
  - POWER SOCKETS
  - BELT ROLLERS
  - DRIVE MOTOR
  - TYRES AND WHEELS
  - BRAKES
  - POWER ON LIGHTS
  - NUTS, BOLTS AND OTHER FASTENERS
- REFER TO THIS CHECKLIST BEFORE USING EACH TIME

## FINISHING OFF

Turn the unit off.

Collect all parts together and give them a final clean up ready for return, to HSS Hire.



**... have you been trained**  
The law requires that personnel using this type of equipment in the workplace must be competent and qualified to do so. Training is available at HSS Training 0845 766 7799

**...any comments?**  
If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below e-mail: safety@hss.com

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## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact HSS Hire.


There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.


The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.

This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment should be used by a competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from HSS Hire.

 **Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.**

 **Wear practical, protective clothing, safety helmet gloves and footwear.** Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

Always check your work area for overhead obstructions or other possible hazards.

Do not operate the machine in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.

Do not operate the machine during lightning or storms.

Do not operate the machine in strong or gusty winds.

Do not alter or disable machine components that in any way affect safety and stability.

Do not replace items critical to machine stability with items of different weight or specification.

Do not use the machine on a moving or mobile surface or vehicle.

Ensure machine is securely fastened at the top and brakes are on before use.

Always erect a safety barrier to prevent access through underside of machine. Failure to do so could result in serious injury.

Ensure all tyres are in good condition and cotter pins are properly installed.

Do not lean over machine while belt is moving.

Do not ride on machine.

Do not over load the machine 150kg maximum belt load.

Make sure you know how to switch this machine OFF before you switch it ON in case you get into difficulty.

Keep hands and limbs away from moving belt.

Always wait for the machine to fully stop, before taking any intervention.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to HSS Hire. **Never try to repair this machine yourself.**

## ELECTRICAL SAFETY

The HSS Shifta Conveyor plugs into a standard 110V 16amp power socket or via a suitable transformer.

If the equipment fails, or if its power supply cable or plug becomes damaged, return it. Never try to repair it yourself.

Keep cables out of harm's way, and clear of the work area.

Extension leads should be fully unwound and loosely coiled, away from the equipment. Never run them through water, over sharp edges or where they could trip someone.


Ensure safe routing of power cable to minimise risk of electrocution.

Always remove the plug from the mains socket before undertaking any type of intervention on the HSS Shifta Conveyor or if it is left unattended or within children or people's reach not quite conscious of their own actions.

Before removing the plug, switch off the machine.

When unplugging pull the plug, not the supply cord.

This machine is not electrically insulated and will not provide protection from contact with or proximity to electrical current.

 To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from HSS Hire.

## GETTING STARTED

HSS Shifta Conveyor is designed to transport solid (non-liquid/ non-dangerous) material such as stone, sand, rubble and soil.

It can be used by one operator for any load up to an incline of 35 to 40 degrees. It is therefore ideal for challenging terrains, where the lie of the land would be a problem for most other machines. Shifta can do the job of moving that mountain of aggregate quickly and efficiently.

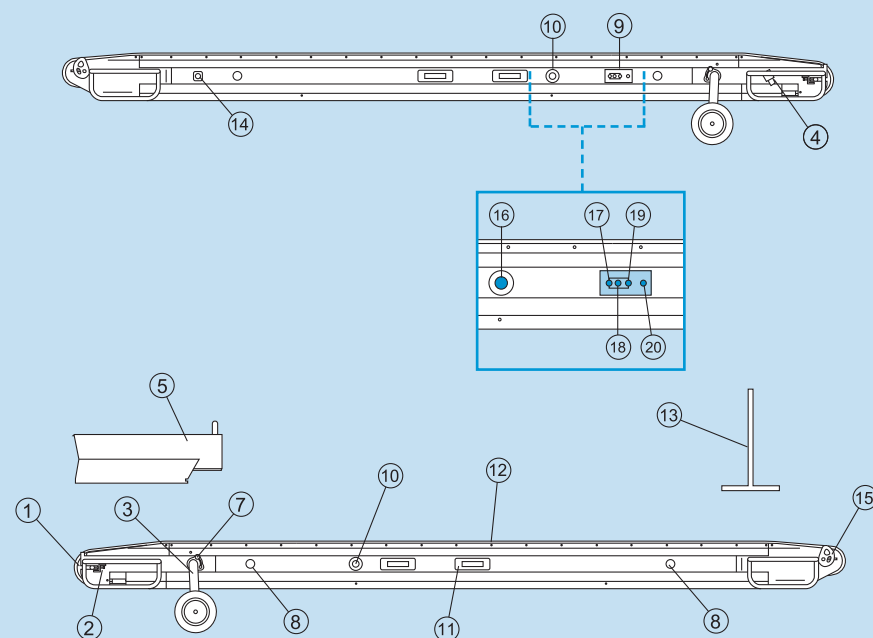
The Shifta is 3.2m long and 300mm wide. It stands at a height of 56 centimetres when lowered. Including handles, its maximum width is 62 centimetres.

Never use this machine until you have fully read and understood this User Guide and the machine has been properly set up using the information it contains.

It is the responsibility of the operator to perform a pre-operation inspection. The pre-operation inspection is a visual inspection performed by the operator prior to each work shift (see Pre-operation Checklist).

If more than one operator is expected to use a machine at different times in the same work shift, they must all be qualified operators and are all expected to follow all safety rules and instructions in the operator's safety and responsibilities manuals. That means every new operator should perform a pre-operation inspection, function tests, and a workplace inspection before using the machine.

## IDENTIFIER



1. Drive drum
2. Bottom belt adjuster
3. Folding bogey
4. Power input socket
5. Hopper
6. Wheel
7. Bogey locking pin
8. Scaffold holes
9. Controls
10. Emergency stops
11. Forklift point
12. Main belt
13. Machine trestle
14. Power output socket
15. Top belt adjuster
16. Emergency stop
17. Stop
18. Fast/ Slow
19. Forward
20. Reverse

## WORKPLACE INSPECTION

It is the operator's responsibility to read and remember the workplace hazards, then watch for and avoid them while moving, setting up and operating the machine.

When inspecting workplace be aware of bumps, floor obstructions or debris, slopes, unstable or slippery surfaces, overhead obstructions, hazardous locations, inadequate surface support to withstand all load forces imposed by the machine, wind and weather conditions, the presence of unauthorized personnel and other possible unsafe conditions

## CHECK MAIN BELT TENSION

Maintaining the proper belt tension is essential to good machine performance and service life. Operating the machine with an improper belt tension can damage machine components.

## WARNING

Always wait for the machine to fully stop, before taking any intervention.

Check belt tension whilst power is off.

Belt will only need to be tensioned if it is slipping under load. At the head of machine loosen the left 12mm bolt holding the drum. With a bar/ screwdriver lever the cam tensioner away from the machine. Repeat to the right side.

Turn on conveyor and run belt forwards. During the run observe the belt tracking. If the belt is drifting to the right, loosen the right hand 12mm bolt and lever the cam tensioner away from machine. Repeat left or right as needed. Tighten bolts and check.

## CHECK WHEEL BRAKES

Maintaining the brakes is an essential aspect of machine maintenance. Whilst erecting a machine the operator depends on the brakes functioning.

Check brake function whilst machine is flat on the ground.

Move the brake arm back and forth to its extent of travel. Ensure it moves freely. If brake won't move or is stiff grease and retry.

Ensure wheel cannot be moved whilst brake is operated.

## CHECK BELT ROLLER CONDITION

Ensuring no muck or debris is built up on or around the rollers is essential to ensure good performance and service life.

Check belt rollers whilst power is off.

## FUNCTION TESTS

### IMPORTANT

Before using this machine make sure you understand its purpose, you know how to operate it and you are aware of its limitations.

Always perform function tests prior to operation.

Before performing function tests select an area that is firm level and free of obstruction.

Plug 110v power into input socket. The centre red button on control box should be illuminated. The yellow fast/ slow button should also illuminate.

### TEST OF CONTROLS

At the controls press the emergency stop button. The centre red button should flash indicating a stop circuit function.

Press forward and reverse buttons. Belt should not move.

Pull out emergency stop button. Red light should return to being permanently illuminated.

### TEST THE UP AND DOWN FUNCTIONS

Press the forward button. The belt should move forwards.

Press the fast/ slow button and the belt will speed up. Wait 5 sec then press the fast/ slow button. Belt will slow down.

Press the centre stop button. The belt should stop.

Press the reverse button. The belt should move in reverse.

Press the centre stop button. Belt should stop

### IMPORTANT

If the machine fails any of these function tests, it should not be used. Return the machine to HSS Hire

## BASIC TECHNIQUES

This conveyor was designed to transport solid (non-liquid/ non-dangerous) material such as stone, sand, rubble and soil. The material must be loaded responsibly and with skill by the operator as to not cause damage by overloading the conveyor.

Before installing the machine, plan your route. Ensure you have adequate man power to complete the set tasks.