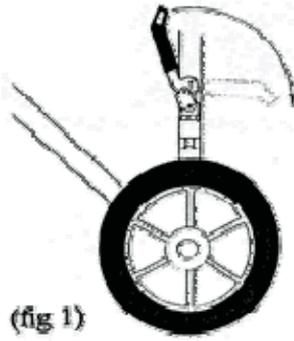




MACE
INDUSTRIES LIMITED

Bumpa Operating Instructions **lifting point** 

Erecting the Bumpa (2 men required)



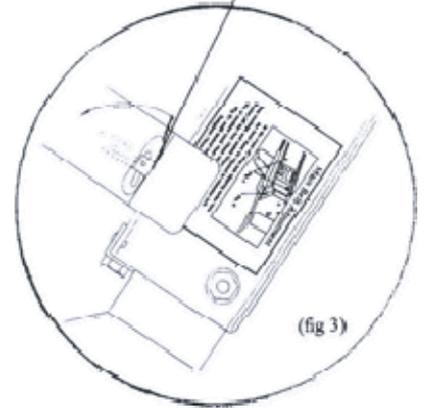
(fig 1)

1 To prevent risk of injury or damage to machine, first select a suitable level area to open machine, Always check for overhead obstructions i.e. branches, cables etc. prior to opening machine.

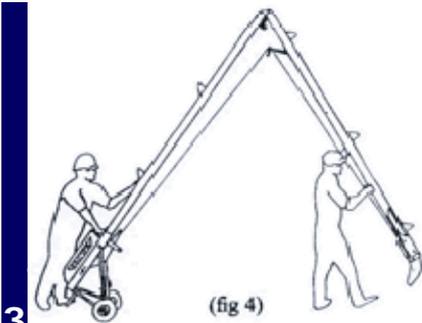
2 Lock wheel brakes on (fig 1) then with man 1 standing on the hoop at the base of machine, to counter-balance weight, (man 1 must remain in position to counter-balance machine throughout opening sequences), man 2 raises the opposite end until machine bottoms on base hoop (fig 2).



(fig 2)



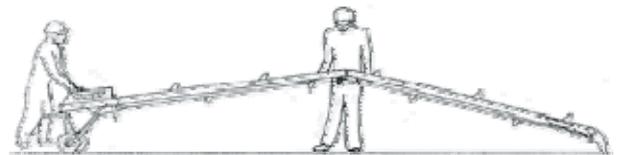
(fig 3)



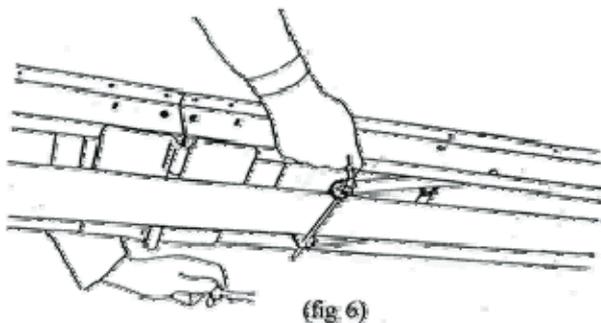
(fig 4)

3 Release antiluce catches (fig 3) and walk top boom approx 5 - 6 paces apart then rest head of machine on ground (fig 4).

4 With man 2 supporting the machine at centre, (fig 5) man 1 releases the brakes and walks the base backwards until the machine is fully open. **Keep hands clear of closing centre hinge when opening machine to prevent risk of injury**

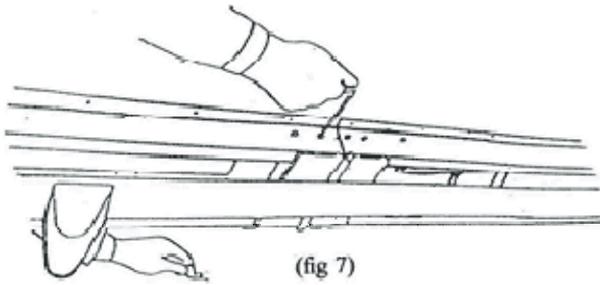


(fig 5)

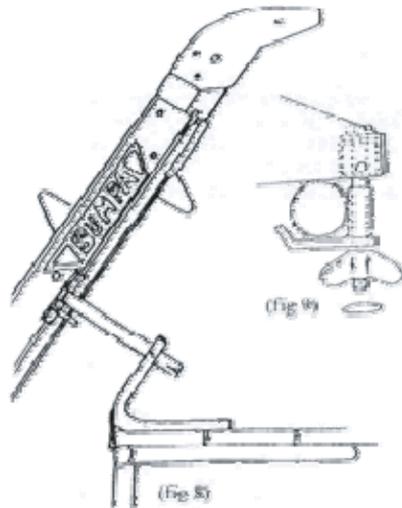
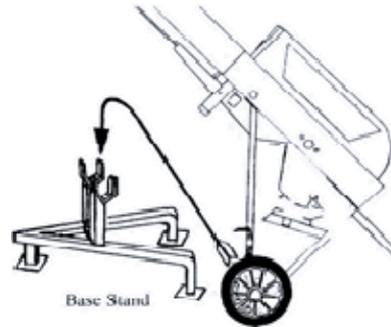


(fig 6)

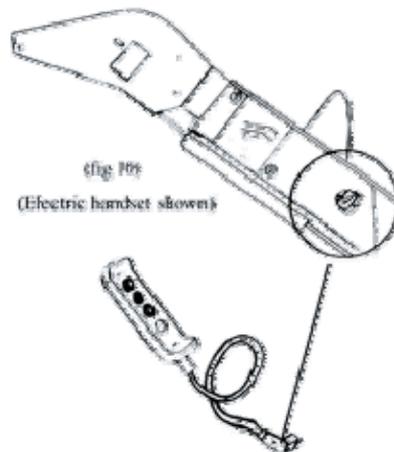
5 Remove clip and withdraw hinge pin from belt retaining spring (fig 6) then replace pin through hinge (fig 7) and replace clip. **Never operate machine without hinge pin in place.**



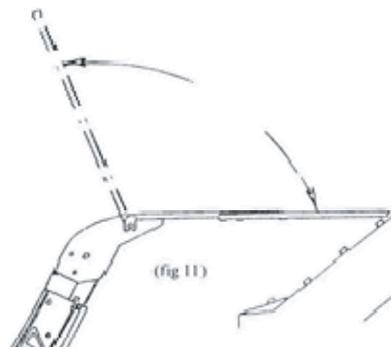
6 The head of the machine can now be raised to the roof/scaffold by rope. The base is guided and positioned by man 1. To gain extra height, the machine can be raised into the base stand (opposite).

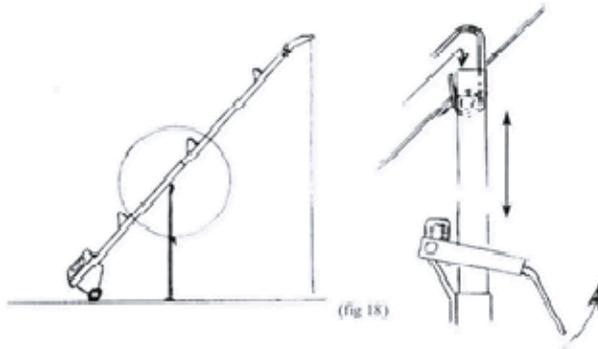


7 Once the machine head is on the scaffold, the stand can be positioned and fixed either to the scaffold boards (fig 8) or roof. Alternatively, the head can be clamped to the handrail using the clamp provided (fig 9). Ensure returning belt carrier clears scaffold before starting machine and that remote handset is plugged in at head. (fig 10)

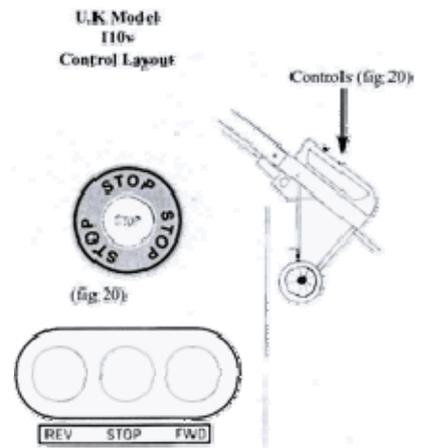
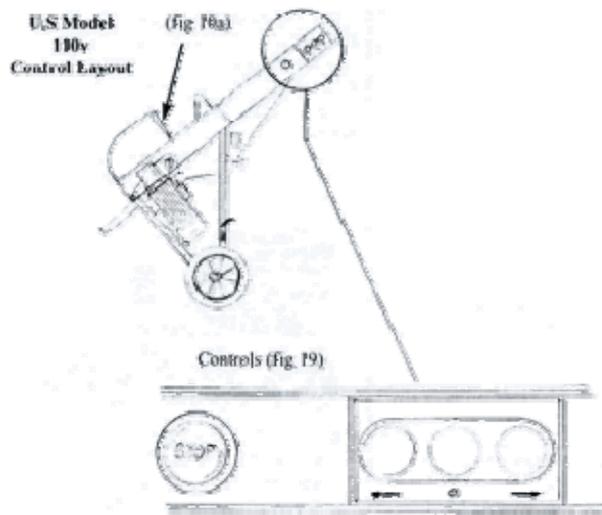


8 With the machine secured at the scaffold the delivery chute is now fitted by slotting in the chute to the head lugs, then rotating to the required angle, extended and fixed (fig 11). **N.B. 10m machines must have the centre support prop fitted prior to loading. (fig 18).**





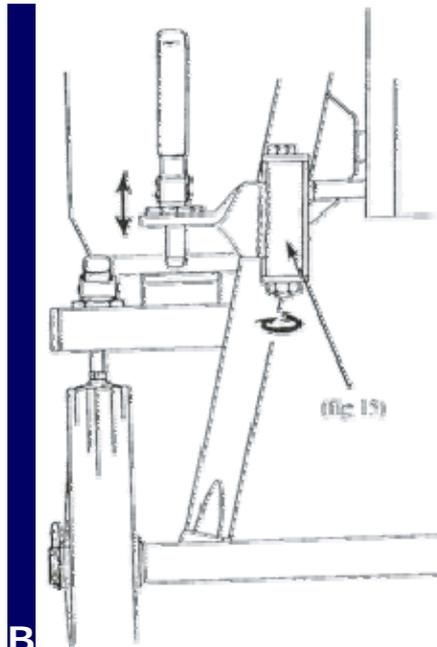
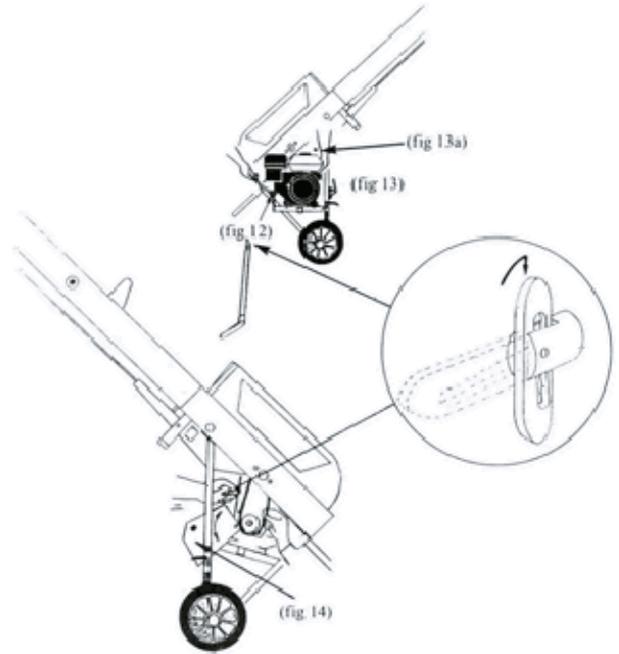
Operating 110v Electric Machines



All 110v electric machines have integral motors, requiring a 3kva supply. Max 10m cable should be used to avoid excessive voltage drop. The machine will not run if illuminated stop/power button is flashing, indicating either the handset is not plugged in or the stop button is depressed. When reversing, load stops automatically on stop gate at base of machine. (fig 10a)

Fitting the motor (petrol version)

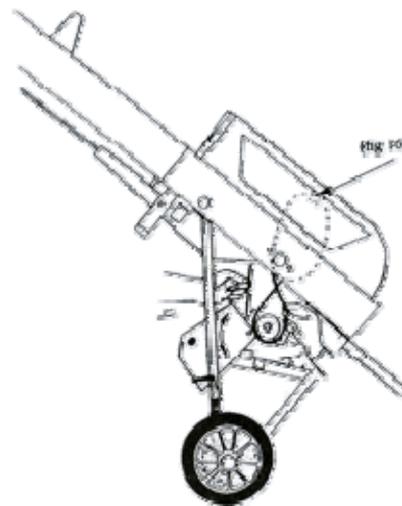
A Remove engine pin (fig 12) and position engine unit to rest into frame on pivot collar (fig 12). Replace pin and lock antiluce fastener.



B Lift antiluce fastener and rotate belt cover clear to expose pulley (fig 14). Place Vee belts onto machine pulley, then lift engine to position belts onto engine pulley, lower engine.

C Rotate engine belt tensioner (fig 15) into place so plunger is over recess in engine cradle and operate lever to tension belts. Rotate belt guard back up and lock fastener (fig 14) Plug remote cable into machine (fig 13a).

Never operate machine with cover open or remote cable unplugged.

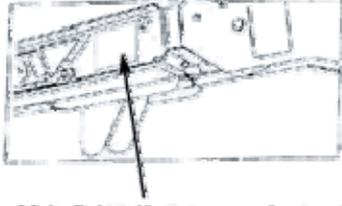


D To reverse

machine (petrol)
Fit engine as per A.
Release black Vee belts and place on hanger (up in bonnet) (fig 16). Unhook Green belt and place on machine pulley. Cross belt in figure of 8, lift engine and position on n/s engine pulley. Lower engine to hang on belt. Close cover.

Do not use belt tensioner when using machine in reverse.

BASIC MAINTENANCE TIPS



For Main Belt Adjustment see instruction label at head of machine (see above)

Fault Finding 110v Electric Machines

No stop light - Machine doesn't run	Check power supply Check cable condition Check plug wiring	Unplug machine, wait for 30 seconds then re-connect.
Flashing Stop Light - Machine doesn't run	Reset emergency stop button and ensure handset is plugged in at top of machine	Unplug machine, wait for 30 seconds then re-connect.
Machine starts but stops immediately	Under voltage - Check power supply	
Machine runs forward but won't reverse	Stop gate jammed (fig 10a) Faulty microswitch on stop gate	Operate stop gate to clear jam Check micro switch

MAXIMUM PAYLOAD 20KG PER CARRIER (MAX TOTAL BELT LOAD 80KG)

SAFETY INSTRUCTIONS

1. Ensure machine head is clamped securely/locked into stand and delivery chute fitted.
2. Ensure base of machine is level and wheel brakes are locked on.
3. Erect a safety barrier to prohibit access through underside of machine.
4. Hard hats must be worn by operatives.
5. Ensure remote handset is plugged in at top and is easily accessible.
6. In the event of a jam, stop machine immediately and reverse to clear.
7. Route supply cable to minimise the chances of damage or accident.
8. Never operate 10m machines without centre prop in place.
9. Ensure load to be transported is secure, and that machine is suitable for product.
10. Never ride on machine or operate machine when under the influence of alcohol or drugs.

[return to technology...](#)

Suppliers of portable **loading machines** and **conveying systems** machines known as **Shifta**, **Uni-Loada**, **Hoddi** and **Bumpa 2**, as well as other **conveying equipment**, to be used as a **mezzanine loader**, **shingle elevator**, **block elevator**, **tyre elevator**, **tile elevators** and **tile hoists** and for materials handling.