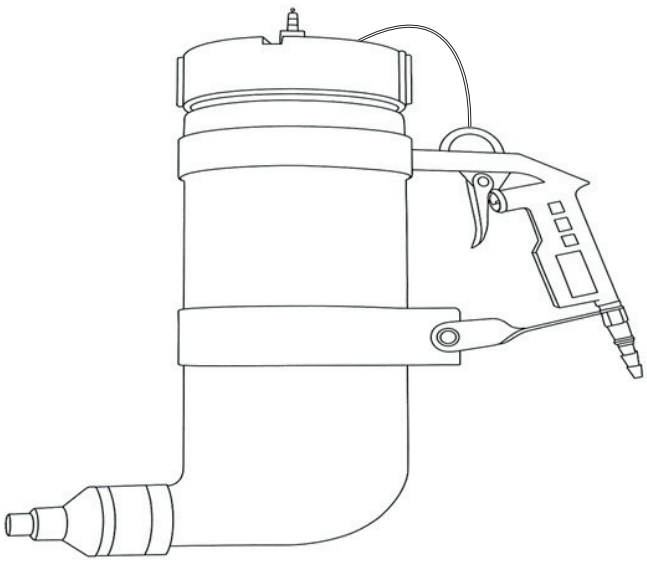
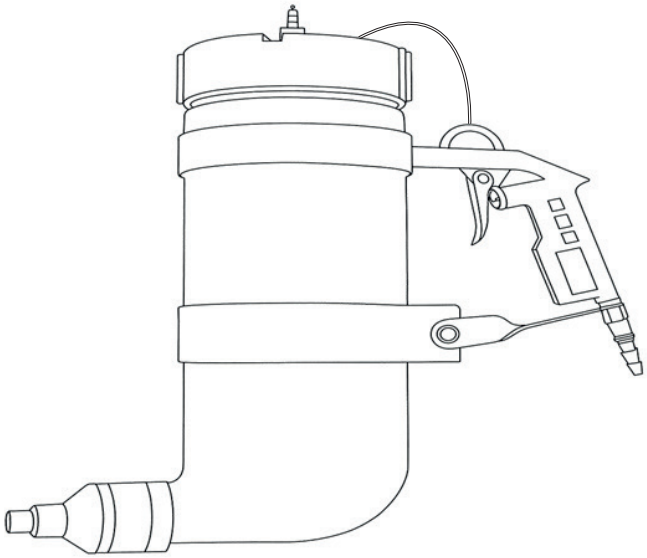


MORTAR POINTING GUN

PNU-POINT INSTRUCTIONS

PNU-POINT MORTAR GUN

Instructions & Information Guide



Box contents

1. Tool
2. Air supply trigger with quick change adapter
3. ‘O’ rings on nozzle spigot
4. Lid, Gasket, air relief valve and lid cable
5. Nozzles x 4
6. Cleaning brush
7. Spare gaskets x 3

www.pnupoint.com
sales@pnupoint.com
Visit us on youtube

Safety information

1. Whilst using the tool wear suitable personal protection equipment
2. Keep face clear of the tool
3. Read instructions carefully
4. Be familiar with the controls and proper use of the Pnu-Point Mortar Gun
5. Keep in mind that the operator/ user is responsible for accidents or hazards occurring to themselves, other people or their property while using this tool

Before operating please check

1. Before using the Pnu-Point Mortar Gun ensure the Air Supply Trigger inlet is clear
2. Before using the Pnu-Point Mortar Gun ensure Air Control Valve is operational and clear
3. Before operating the Pnu-Point Mortar Gun ensure Lid cable is in good condition, attached and secure
4. Before operating the Pnu-Point Mortar Gun ensure Lid gasket is in good condition

Operating instructions

The Pnu-point pointing tool is powered by compressed air and must not be used with an unregulated air supply.
AIR SUPPLY PRESSURE MUST NOT EXCEED 2 BAR(29PSI)

To use the tool

1. Set the compressor pressure to 2 Bar Maximum
2. Open the Air Control Valve fully
3. Fill the Pnu-Point Mortar Gun with mortar
4. Open the Air Supply Trigger and air will flow out through the Air Control Valve
5. Gradually screw down the Air Control Valve until the mortar flows at the desired rate
6. Stop mortar flow before the tool is empty and refill or mortar splattering will occur
7. The Air Supply Trigger is not sensitive so is on/off

Instructions for use

1. Fit the Nozzle you require to the Pnu-Point Mortar Gun with a slight turning motion (a thin layer of petroleum jelly or similar lubricant to the 'O' rings may make this a little easier)
2. Check that the air compressor is working satisfactory
3. Attach the air hose between the compressor and the Pnu-Point Mortar Gun
4. Set the air compressor regulator to a maximum of 2 Bar and fully charge the air receiver
5. Test the operation of the Pnu-Point Mortar Gun
6. Fill the Pnu-Point Mortar Gun up to the Air Supply Trigger inlet
7. Ensure threads on the body and lid are clean
8. Screw on the lid so that it is just tight.
   DO NOT OVERTIGHTEN THE LID AS THIS WILL DAMAGE THE GASKET SEAL
9. Fully open the Air Control Valve on the lid (counter clockwise to open and clockwise to close)
10. Allow air to flow into the Pnu-Point Mortar Gun using the Air Supply Trigger. This will escape through the Air Control Valve on the lid
11. Slowly close the Air Control Valve on the lid until Mortar smoothly flows through the Nozzle

12. Release the Air Supply Trigger and mortar flow should stop. Adjust the Air Control Valve until this occurs. The Air Control Valve can be adjusted to suit the speed of mortar flow required

YOU ARE NOW READY TO POINT

DO NOT ALLOW THE PNU-POINT MORTAR GUN TO BECOME EMPTY AS THIS WILL RESULT IN MORTAR SPLATTER IF THE PNU-POINT MORTAR GUN WILL NOT BE USED IMMEDIATELY THEN EMPTY AND WASH WITH CLEAN WATER

Cleaning

1. After use the Pnu-Point Mortar Gun must be cleaned thoroughly paying particular attention to the body and lid threads with plenty of clean water and the brush supplied or similar.
2. Spray all metal parts with WD40 or similar water dispersant
3. Lubricate 'O' rings

General Maintenance

Essential for the longevity of your Pnu-Point Mortar Gun.

1. Ensure the Pnu-Point Mortar Gun is well cleaned with plenty of clean water using the brush provided or similar.
2. Operate the Air Supply Trigger with the lid removed to ensure that no mortar remains in the Air Supply Trigger inlet.
3. Spray the metal parts of the tool with WD40 or similar water displacement agent.

Suggested Mortar Mixes

All mixes should be a soft bricklaying consistency and well mixed. For consistent results then gauge all quantities or use ready mixed mortars.

Double washed plastering sand mixes

1. 1 part cement: 0.5 part hydrated lime: 3 or 4 parts double washed plastering sand.
2. 1 part cement: 1 Part hydrated lime:6 parts double washed plastering sand.

Soft building sand mixes

1. 1 part cement: 3 or 4 parts soft building sand plus plasticiser as per manufacturers instructions.
   Hydrated lime only with soft building sand tends not to flow adequately

Sharp sand mixes

Ensure the aggregate is less than 3mm

1. 1 part cement: 1 part hydrated lime: 3 parts plastering sand: 1 part sharp sand.
   Spray gently with water to give a weathered appearance if desired

Ready mixed mixes

1. Ready mixed 1:1:6 mixes with retarders work very well and can be very economical

Hydraulic lime mixes

1. Typically 1 part hydraulic lime: 2 ½ sand
   For brickwork then double washed plastering sand is often used.
   For stonework then 2 parts double washed plastering sand: ½ to 1 part sharp sand.
   This gives an attractive texture when brushed off.
   Spray gently with water to give a weathered appearance if desired.
   For consistent results then gauge all quantities or use ready mixed mortars.
   If the Hydraulic lime segregates in the Pnu-point mortar gun then check the air supply pressure is regulated to no more than 2 bar.
   If pressure is correct and the problem persists then an addition of construction grade Calcium Stearate water retaining agent at 40grams per 25kg dry aggregate mix should solve it.

Natural hydraulic lime mixing with or without calcium stearate

Most lime/ sand mortars work well, but if you are having segregation (the air pressure is forcing the water out of the mix so that the mortar does not flow) Follow this procedure.
Try it first without calcium stearate, if the mix still segregates then add the Calcium Stearate.

Measure, don't guess the quantities.
Use a drum mixer as it mixes more thoroughly then a paddle

1. Place some water in the mixer.
2. Add lime slowly whilst the mixer is turning until you have a whitewash mixture
3. Slowly add the sand and sufficient water to keep the mortar flowing until all the sand has been added.
4. Mix for 5 minutes. Try the mix. The mortar should slide off the trowel, if it does not then add a little more water.

If the mortar flows through the Pnu-Point Mortar Gun then you do not need Calcium Stearate.

5. If the mortar segregates then add the Calcium Stearate and mix for 15 minutes.
6. Leave to stand for 5 minutes
7. Add about 100ml water and mix for 5 minutes.

Test the Mortar. If it does not slide off the trowel then add a little more water. Repeat until the mortar does slide off the trowel. Use a bucket of mortar at a time. After you take a bucket of mortar out of the mixer, mix for a few minutes. Add a little extra water if necessary to keep the mortar consistency the same.

Virtually any Mortar mix can be made to flow by adding Calcium Stearate at no more than 40gm per 25kg of mortar mix.

See Annual Service Kit in website shop
www.pnupoint.com
sales@pnupoint.com
Visit us on youtube

TROUBLESHOOTING

The Pnu-Point Mortar Gun is very reliable and generally trouble free particularly if kept clean. Most problems are related to the compressor or mortar being used.

PROBLEM	CAUSE & SOLUTION
Nozzle is hard to fit and /or 'O' Rings roll	Apply petroleum jelly or similar to inside of nozzle. Twist Nozzle when fitting.
No air coming through Air Supply Trigger	Compressor not switched on: turn it on. Compressor air supply valve turned off: turn it on. --- Regulator not set correctly: set to maximum 2 bar. Blockage in Air Supply Trigger: check and clean Air Supply Trigger inlet inside the body with a wire or similar. Failure of Air Supply Trigger: replace trigger
Air is provided but mortar does not flow through the Nozzle	Check for leaks on lid and air supply fixings on gun body. Leak on lid: clean threads and lid of any mortar. Check presence of Gasket: if not present, replace. Check condition of Gasket: if worn then replace. Leak on Air Supply Trigger fixing: tighten gently. If no leaks: adjust Air Control Valve clockwise to increase pressure. Compressor regulator is not operating correctly: Check using a car tyre pressure gauge. If necessary, change the regulator. (the Pnu-Point Mortar Gun should be operated at a maximum of 2 bar.) Nozzle is blocked: remove and wash in clean water. Mortar is too thick and segregated: check mortar mix.
Gun splatters when nearly empty	Ensure that the gun is refilled before it becomes nearly empty: this point will become obvious with practise.
Mortar flows unevenly	Compressor regulator is not operating correctly: Check regulator using a car tyre pressure gauge and if necessary, change the regulator. (the Pnu-Point Mortar Gun should be operated at a maximum of 2 bar.)
Mortar problems	Check mortar mix – some poor quality sands are difficult, if you experience problems with a particular sand then try another. Quantities should be gauged and well mixed to a soft bricklaying consistency. Increasing the air pressure above 2 bar will make the mortar more likely to segregate – do not increase the air pressure to above 2 bar.
Problems connecting the air supply trigger to the quick change connector on your air hose	Mismatch of connector: check and change if required. (The Pnu-Point Mortar Gun is fitted with a 1/4BSP PCL connector)