

# Pressure Casting Instructions

Pressure casting Lead member/Tsar @Dan Robertson



## Important Rules:

- Please only use the casting pot if you have been inducted and approved by another experienced member.
- Contact @dan\_robertson to arrange
- Ensure the lid is closed securely at all times
- Wear hearing protection when releasing pressure from the tank
- Do not pressure the tank to over 80PSI.
- Do not attempt to open the tank if it is pressurised and your work is not in there.

## About the pressure pot:

The pressure pot is a piece of equipment that works in tandem with, but opposite to a vacuum chamber. Where a vacuum chamber removes air to get bubbles out, a pressure chamber pushes all air bubbles in so they are no longer visible. It does this by using very high pressure, about twice that of a regular car tyre over the duration of a materials cure time. Pressure casting can also aid in reducing the cure time of some materials.

## Setting up the pressure pot:

- Find, and plug in the air compressor if it's not already plugged in and attach it to the nozzle with the red lever
- Make your material you need to pressure cast
- Use a vacuum chamber to remove as many large bubbles as possible
- Fill your moulding method
- Put the mould in the chamber and put the lid on top
- Secure the lid using the 4 clamps, ensuring to do 2 opposite clamps at each time and tightening till hand tight
- Ensure the red lever is in line with the pressure pot and turn on the compressor ensuring it does not exceed 60PSI For best results, if using the Timbertech compressor, leave the compressor on as it repressurises once the pressure gets too low.

## Releasing the pressure:

- Put on your ear protection
- Turn off the air compressor
- Turn the red lever 90 degrees from the nozzle
- Unscrew the pipe connecting the compressor to the tank
- SLOWLY turn the red nozzle back to its original position
- Once the pressure is released, unscrew the lid using opposite clamps each time
- Remove your work

Well done!

Please contact @Dan Robertson with any questions

updated August 2020