

# Safe Operating Procedures

**Make:** Epiroc  
**Model:** EC 100  
**Type:** Percussion Hammer - Attachment  
**Serial Number:** DEQ230714  
**Plant Number:** 30M



## Recommended PPE - Subject to Company & Site Policy



## SOP Percussion Hammer - Attachment

### GENERAL & START UP

- Read & understand manufacturer's operational manual
- Complete pre-operational checklist (never use faulty or defective machinery)
- All operators must be free from direct and after effects of alcohol and drugs
- Ensure that an appropriate, charged fire extinguisher is available in the carrier unit
- Ensure carrier unit and percussion hammer are compatible
- Ensure percussion hammer is properly attached to carrier unit prior to operation
- Know your carrier unit, its attachments and how they work
- Ensure work area is clear of all bystanders and hazards prior to starting engine and operating machine
- Once engine is started confirm control pattern and machine function
- Use care in close proximity to operator work area, do not contact carrier machine with percussion hammer
- Never touch any part of the percussion hammer or hydraulic hoses after operation due to excessive heat

### COUPLING

#### ALWAYS:

- wear gloves when handling hydraulic lines
- ensure all hydraulic lines are connected correctly and free from leaks and damage (never use your hands to check for leaks, use wood or cardboard)
- ensure lynch pins and clips are correctly attached prior to operation
- ensure that a mechanical safety system such as a safety pin and lynch pin is present and engaged at all times whilst this item of plant is in operation (Semi-automatic quick hitches only)

#### NEVER:

- use fingers to line up holes on linkage arms
- attempt to connect hydraulic couplings with carrier unit running

### UNCOUPLING

#### ALWAYS:

- lower hammer so that it is safely and sturdily supported on level ground before disconnection
- ensure all couplings, hydraulic lines and electrical fittings are disconnected prior to uncoupling
- ensure hammer is stored in a manner to reduce likelihood of hazards, store hammer on a purpose built stand or lay flat on the ground positioned so it can be readily re-attached to machine without the need for manual movement or repositioning

#### NEVER:

- attempt to disconnect hydraulic couplings with carrier unit running
- force hammer into the ground and uncouple

### OPERATION

#### ALWAYS:

- ensure work area is clear of all bystanders and hazards prior to starting engine and operating hammer
- close the front screen / splinter guard on the operator cabin to avoid injury from debris

#### NEVER:

- start the hammer until in the correct working position and contact pressure is applied
- lever the material with the hammer
- operate the percussion hammer with hydraulic cylinders fully extended or retracted as this can cause serious damage to carrier unit

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~~operate the percussion hammer with hydraulic cylinders fully extended or retracted as this can cause serious damage to carrier unit~~

- Know the location of any utility services in the construction area, damage to gas or power lines could lead to a electrocution, fire or explosion
- Refer to power line approach distance label re safety around power lines
- Never operate the hammer in an environment where flammable gases could be present
- Always hand excavate in close proximity to services taking material to be excavated into consideration
- Always provide sufficient ventilation when working in buildings or confined areas

## MAINTENANCE

- Maintain percussion hammer with care, inspect hoses periodically and if damaged, have repaired by authorized service facility (never use your hands to check for leaks, use wood or cardboard)
- Stop engine if the percussion hammer starts to vibrate abnormally
- Follow OEM instructions for lubrication and changing accessories

## OPERATOR ACKNOWLEDGEMENT

I the undersigned acknowledge that I have read and understand the Safe Operating Procedures described above.  
I also acknowledge that I have received a copy of this Safe Operating Procedure.

DATE	NAME	SIGNATURE