

PLATE COMPACTOR



Applications

The machine is used for removing air from soil by vibration. Used to prepare soil beneath normal housing foundations, floor slabs and paving. Can also be used on top of paving.

Specifications

Prime Mover: 9hp
 Petrol engine;
 Drive: Vee belt driven;
 Plate size: 450x500
 x16mm thick
 Size: LxBxH
 600x440x1200mm;
 Weight: 120kg.

Operation and Basic Maintenance tips

Thickness of layers should ideally not be more than 150mm
 The soil should be slightly moist throughout the layer
 6 to 8 passes should be sufficient to compact normal soil
 Do not over compact the soil or run the machine on Concrete surfaces
 Check air filters and oil levels regularly to lengthen the life of the engine.
 Check and replace Vee belts regularly to avoid down time.

Safety Do's and Don'ts

Do not operate the machine without recoil starter. Do keep feet clear of the plate while operating.

RAMMER (4 STROKE)



Applications

Compaction of just about all types of soil (including cohesive clay types) in medium and deep layers, in trenches, foundations backfills etc. Ideal for compaction work in confined areas and where high compaction density is required. (Use in sandy soil not recommended).

Specifications

Prime Mover: 4hp 4 stroke Petrol engine; Drive: Directly – clutch; Plate size: 280 x 330mm; Size LxBxH: 690 x 400 x 1115mm; Impact force : 14kn per blow; Weight : 72kg; Number of blows per minute: 690.

Operation and Basic Maintenance tips

Thickness of layer to be compacted should be approx. 300mm thick
Make sure material is slightly moist throughout the layer 3 to 4 passes with the machine advancing at its normal pace will usually give you optimum compaction results – avoid over compaction
Always run the machine at full speed when doing work
Do not push or hold back the machine – just guide it without leaning heavily on it
Always use 4 stroke fuel
Check air filters regularly (twice a day).

Safety Do's and Don'ts

Do not operate the machine without recoil starter
Do keep feet clear of the rammer foot while operating.

RAMMER (2 STROKE)



Applications

Compaction of just about all types of materials (including cohesive clay types) in medium and deep layers, in trenches, foundations backfills etc. Ideal for compaction work in confined areas and where high compaction density is required.

Specifications

Weight: 59kg
 Engine: 2-stroke WMBO, 2.3kW
 Shoe Size: 280 x 330mm
 Impact Force: 12kN per blow
 Number of Blows: Approx 700/ min.

Operation and Basic Maintenance tips

- Thickness of layer to be compacted should be approx. 300mm
- Make sure material is slightly moist (not wet and not dry) throughout the layer
- 3 to 4 passes with the machine advancing at its normal pace will usually give you optimum compaction results – avoid over compaction
- Always run the machine at full speed when doing work
- Do not push or hold back the machine – just guide it without leaning heavily on it
- Always use the Coastal 2 stroke fuel supplied, or mix at a 50:1 mix ratio
- Do not attempt to service the airfilter.

Safety Do's and Don'ts

- Be careful that the machine does not jump on your feet.
- Avoid machine hitting against adjacent structures or rocks etc.
- Never operate machine on solid/hard surfaces, eg. concrete, asphalt etc.

REVERSIBLE PLATE



Applications

Compaction of sandy/ gravelly soil in trenches and foundations as well as paving applications.

Specifications

Weights: From 140kg (BPU2540) to 190kg (DPU3070H) Working Widths from 400 to 700mm; Centrifugal Forces: 25 and 30kN. Various Engine Options: (Honda & Robin Petrol, Hatz Diesel) fully hydraulic, integrated wheel kit.

Operation and Basic Maintenance tips

Thickness of the layer to be compacted can be up to 250mm (100 – 250mm is ideal)

Make sure soil is slightly moist (not wet and not dry) throughout the layer

6-8 passes with the machine advancing as its normal pace will usually give you optimum compaction results – avoid "over compaction"

Always run engine at Full Speed when doing compaction work

Do not move the forward/reverse control when engine is stopped or idling.

Safety Do's and Don'ts

Avoid machine hitting against adjacent structures or rocks etc.

ROLLER

**Applications**

Compaction of sandy/ gravelly soil and asphalt.

Specifications

Weight: 830kg; Working Width 650mm; Centrifugal Force: 18kN, Hatz 1D4;1S Diesel engine, fully hydrostatic.

Operation and Basic Maintenance tips

Thickness of the layer to be compacted can be up to 200mm on good soil (100 – 150mm is ideal) also suitable for asphalt work

Make sure soil is slightly moist (not wet and not dry) throughout the layer

6-10 passes with the machine advancing at its normal pace will usually give you optimum compaction results – avoid "over compaction"

Ensure that the scraper bars are adjusted correctly and that there is no material build-up between scrapers and machine chassis

Always run engine at Full Speed when doing compaction work.

Safety Do's and Don'ts

Avoid machine hitting against adjacent structures or rocks etc.

Never operate machine on solid/hard surfaces, eg concrete, asphalt, etc. when vibration is switched on

Ensure that the dead-man handle is working properly

Don't sit on machine while operating

Stop machine before reversing or forward motion.

OPERATION AND MAINTENANCE TIPS

Failure to follow these tips will result in serious damage and failure to the machine, poor or unsatisfactory compaction results as well as injury to the operator, resulting in substantial financial implications for the user or hirer.

Always ensure the correct petrol – oil mix is used in 2 stroke Rammers. 50: 1 (25l of petrol & 500ml of 2 stroke oil) or 40: 1 (20l of petrol & 500ml of 2 stroke oil) as an alternative. Use only pre-mix fuel supplied by Coastal Hire. Always check the oil level daily in the Ramming system sight glass. Oil level must be a maximum of 3/4 full on the sight glass.

Always ensure that suitable trained operators operate the Rammer. Contact your Coastal Tool Hire branch for operator training if required.

Always immediately report or return Rammers which are not performing properly or show any signs of damage or unusual noises, to your Coastal Hire branch for repair or exchange, to prevent any further damage.

Never operate a Rammer without an airfilter. Will result in serious engine wear, Never overcompact! Stop compaction as soon as the Rammer starts to jump erratically and becomes difficult to control. Serious damage to the Ramming mechanism will occur, as well as break up the compacted layer.

Never run the Rammer on hard or solid surfaces, such as Concrete, Rock, Asphalt etc. This will result in serious damage to the shoe and the ramming mechanism.

Never push the Rammer forward or pull the Rammer back while compacting. The Rammer will naturally move forward and only needs to be guided or steered by the operator.

Never operate the Rammer at 1/2 throttle, always ensure full throttle during compaction and idle throttle when standing. This will cause serious damage to the clutch mechanism as well as give very poor compaction results.

Never run or lean the bellows against sharp objects or abrasive and hard surfaces.

Avoid damage to Rammers during transportation. Tie down properly and do not pack other equipment on top.

Practical tips for best compaction results.

Rammers are extremely powerful compactors, and should never be used on layers less than approx. 300mm thick.

Very dry or very wet soil cannot be compacted. Always ensure that the soil or material to be compacted is slightly moist (NOT WET & NOT DRY).

Best compaction results are usually achieved after 3-4 passes of a Wacker Rammer.