



# YOUR HANDY GUIDE



Serving all your equipment hire needs

# SAFETY PRECAUTIONS



This HANDY GUIDE has been specifically compiled to give you brief product and user knowledge of machines available from Coastal Hire. All machinery is dangerous. BE CAREFUL!

## PROPER CLOTHING

Clothing must be sturdy and snug-fitting, but allow complete freedom of movement. Avoid loose fitting clothes such as jackets, scarves, neckties, jewellery, flared or cuffed pants, unconfined long hair or anything that could become entangled in the machine. We suggest wearing overalls with a reinforced cut retardant insert.



Protect your hands with gloves when handling a machine. Heavy-duty, nonslip gloves improve your grip and protect your hands.



Good footwear is most important in chain saw work. Wear sturdy boots with nonslip soles. Steel-toed safety boots are recommended.

To reduce the risk of injury to your eyes never operate a machine unless wearing goggles or properly fitting safety glasses. Always wear ear plugs or ear muffs to protect your hearing.



## WARNING!

Prolonged use of machinery exposes the operator to vibrations which may cause "Vibration white finger" disease (Raynaud's syndrome) or Carpal tunnel syndrome. These conditions reduce the hand's ability to feel and regulate temperature, produce numbness and burning sensations and may cause nerve and circulation damage and tissue necrosis.



Anti-vibration systems and heated handles do not guarantee that you will not sustain "Vibration white finger" disease or Carpal tunnel syndrome. Therefore, continual and regular users should closely monitor the condition of their hands and fingers. If any of the above symptoms appear, stop operations and seek medical advice immediately.

\* All extension leads must be 2.5mm, 3 core and no longer than 20m \*

\* All 2 stroke petrol will be supplied by Coastal Hire. Should more be required, this should be collected from Coastal Hire \*

\* Ensure oil levels are correct every 4 hours. Contact Coastal Hire if unsure \*

## SYMBOLS



### EYE PROTECTION

Eye protection must be worn whilst using this piece of equipment.



### MASK

This equipment creates dust. Wear suitable mask.



### EAR PROTECTION

High noise levels are generated from use of this equipment.



### SAFETY FOOTWEAR

Industrial footwear with steel toecaps should be worn whilst using this equipment.



### PROTECTIVE GLOVES

Hand protection must be worn whilst using this piece of equipment.



### SAFETY HELMET

Always wear on construction sites and with this piece of equipment.



### DIAMOND WHEEL

Diamond products are available for this machine. (Longer working life)



### POWER BREAKER RCD UNITS

Recommended when using electrical equipment. Protects against electric shock.



### VIBRATION PROTECTION

Regular use of hand-arm equipment may cause injury and disability.



### SAFETY HARNESS

To be worn on all scaffolding and ladders.

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# BREAKING & DRILLING



**SPECIFICATIONS:** Weight: 34kg;  
Length: 745mm, Air Consumption  
at 6 bar: 34 l/s, Tool Shank 32mm  
x 160mm, Impact Frequency: 1200  
blow/min

## AIR BREAKERS

### APPLICATION

Breakers are designed for general demolition, for the use in medium and hard materials such as asphalt and concrete.

### OPERATION AND BASIC MAINTENANCE TIPS

- Before starting, check all parts are securely fastened
- Check the hoses and connections for possible leakage
- Grease the breaker's shank
- Check the built in lubricator for air oil. (Make sure the air supply is off before removing the oil plug, otherwise oil may squirt into your face)
- Before starting, ensure you have a secure footing
- Avoid idle percussion (Blows)

### SAFETY DO'S AND DON'TS

- Always use the proper safety clothing when breaking
- Never attempt to touch the tool while breaker is running
- Never remove the air oil plug while the air is connected / while breaker is running
- Always switch the air supply off and vent the machine by depressing the throttle before changing the tool

## AIR COMPRESSORS



**SPECIFICATIONS:** Length: 3  
508mm; Width: 1 410mm; Height: 1  
256mm; Weight (kg): 870

### APPLICATION

For the use of air tools eg. Paving Breakers, Rock Drills, Air Grinders, Sand Blasting etc.

### OPERATION AND BASIC MAINTENANCE TIPS

- Check:
  - Diesel motor oil level
  - Compressor separator oil level
  - Air filter
  - Connections
  - Any Leakages
- Always work with canopy closed
- Never run diesel dry

### SAFETY DO'S AND DON'TS

- Don't place anything in the compressor
- If towing make sure the handbrake is down, disengaged, the support leg is up and the canopy is locked in the closed position
- Always use safety cables on hoses

# BREAKING & DRILLING

## AIR DRILLS | ROCK DRILL

### APPLICATION

Rock drills are designed for heavier jobs such as bench and secondary drilling, as well as drilling for smooth blasting. The RH 58L Rock Drill can drill holes up to 6m deep.

### OPERATION AND BASIC MAINTENANCE TIPS

- Before drilling check all parts are securely fastened
- Check the hoses and connections for possible leakages
- Check the drill steel's flushing hole is clean and open
- Check the lubricator is full (Air oil)
- Before starting ensure you have a secure footing and guide the drill steel with your foot

### SAFETY DO'S AND DON'TS

- Always use the proper safety clothing when drilling
- Never attempt to touch the drilling attachment while engine is still running
- Never operate with a broken, blunt or damaged drill steel



**SPECIFICATIONS:** Weight: 24kg  
Length: 565mm, Air Consumption at 6 Bar: 58 l/s, Drill steel chuck (hex): 22 x 108mm, Impact rate: 2040 blow/min, Rotation speed: 215 rpm, Penetration rate: 410mm/min, Hose connection: 19mm

## EARTH AUGER

### APPLICATION

Earth Augers can be used for drilling holes in the ground and taking soil samples. The MTL85R is equipped with a quick stop drill brake.

### OPERATION AND BASIC MAINTENANCE TIPS

- Before starting, ensure that parts are securely fastened.
- Ensure you have a secure footing before drilling
- Make sure there are no buried cables or pipes in the work area (e.g. water, electricity)
- Work particularly carefully in rocky ground or ground with a heavy root structure

### SAFETY DO'S AND DON'TS

- Always use proper safety clothing when drilling
- Never attempt to touch the drilling attachment while engine is still running
- Never operate with a broken or damaged drilling attachment
- Use only approved 2-stroke fuel mix. Replace damaged or blunt auger bits immediately



**SPECIFICATIONS:** Power: 5.7HP/4.2kw; Displacement: 80.7cm<sup>3</sup>; Reduction Ratio: 85:1; Weight without bit: 30.6kg; Bit Diameter: from 8 to 50cm

# BREAKING & DRILLING

## DEMOLITION | CHIPPER | JACK HAMMERS



### APPLICATION

Demolition & chiselling of concrete. Edging, gravel road digging, compacting & tamping, grooving, cutting, stripping & roughing etc. Used for installation of piping, wiring, sanitary facilities, machinery, water supply & drainage work, interior jobs, harbour facilities, civil engineering work and tiling.

### OPERATION AND BASIC MAINTENANCE TIPS

- Do not lean on machine too much. (Too much pressure prevents hammer action from working properly)
- Start breaking ± 50mm from edge of surface. Never break from the middle
- Use for light concrete work, plaster, tiles and bricks only (chipping)
- Use proper extension cord (2.5mm thickness and not longer than 20m)



**SPECIFICATIONS:** Power output: 950W; Full Load Impact Rate: 3 000/min; Bit Shank: SDS max; Overall Length: 454mm; Weight: 5,9kg; Accessories: Side Handle, Carrying Case, Bull Point and Wrenches

### SAFETY DO'S AND DON'TS

- Ensure that power source delivers between 220 & 230V at the end of the source by using a multimeter
- Ensure power cord extension / machine do not get wet
- Allow 5 minutes cool off period after every 15-20 minutes of use
- When using machine in dusty conditions, blow out dust on regular basis

## BREAKERS - MEDIUM BREAKER



### APPLICATION

Breaking of concrete up to a maximum of 100mm in depth.

### OPERATION AND BASIC MAINTENANCE TIPS

- Just guide the machine when breaking never lean on it
- Check oil glass level

### SAFETY DO'S AND DON'TS

- Ensure that power supply cable is in good condition
- When carrying out maintenance or during work breaks disconnect power supply
- Use special bits when breaking into reinforced concrete



**SPECIFICATIONS:** Weight: 15kg; Capacity: 1.2kw; 39,5J per blow; Percussion Rate: 1400bpm



# BREAKING & DRILLING

## ELECTRIC BREAKER - LARGE BREAKER

### APPLICATION

For breaking road surfaces, concrete floors, foundations, etc. Digs tough and solid masses, incrustated gravel, etc.

### OPERATION AND BASIC MAINTENANCE TIPS

- Always hold the machine firmly with both hands
- Work with a sharp chisel ormoil
- Always keep shaft clean and greased

### SAFETY DO'S AND DON'TS

- Wait for the machine to come to a complete stop before putting down
- Never use the machine with a damaged cable
- Wear ear protection



**SPECIFICATIONS:** Rated power input: 2000W; Power output: 1260W; Impact energy: 62J; Impact rate at rated speed: 1000 bpm; Weight: 29kg; Width: 596mm; Height: 753mm

## HILTI TE3000-AVR LARGE BREAKER

### APPLICATION

For breaking of road surfaces, concrete floors, foundations, etc. Digs tough and solid masses, encrusted gravel, etc.

### OPERATION AND BASIC MAINTENANCE TIPS

- Heavy demolition in situations where use of a compressor and air tools is difficult or impossible
- Awesome hammering impact energy of 68 joules
- Impressive breaking performance - up to 6 tons of concrete per hour
- Minimal vibration - less than  $7\text{m/s}^2$ , i.e. over 4 hours permissible trigger time
- Maintenance free SR motor - Hexagonal 28 connection
- Low operating costs as no compressor is required
- Versatile, easy to operate, easy to transport and ready for use in minutes, which pays off especially in smaller demolition jobs

### SAFETY DO'S AND DON'TS

- This product should not be operated unless proper training has been supplied to the person operating the equipment
- Personal protection gear includes: goggles, steel-cap boots, gloves, ear plugs, dust mask, hard-hat
- Always hold the machine firmly with both hands
- Work with a sharp chisel
- Always keep shaft clean and greased
- Wait for the machine to come to a complete stop before putting the machine down
- Never use the machine with a damaged power cable



**SPECIFICATIONS:** Power: 5.7HP/ 4.2kW; Impact Energy: 68J; Reduction Ratio: 85:1; Weight without bit: 30.6kg

# BREAKING & DRILLING

## ROTARY HAMMER

### APPLICATION

Drilling of rock, concrete, etc.

### OPERATION AND BASIC MAINTENANCE TIPS

- Just guide the machine when drilling, never lean on it
- Start drilling at a slow speed for more precise placement of the bit
- When drilling big holes, use a smaller drill bit first to create a pilot hole

### SAFETY DO'S AND DON'TS

- When drilling, do not jam the drill bit in the hole
- Ensure that the power supply cable is in good condition
- When carrying out maintenance or during work breaks disconnect the power supply
- Use special bits when drilling into reinforced concrete
- Never put water in the hole while drilling
- Always ensure that when drilling, the unit is switched to "drill" and not "breaking"



**SPECIFICATIONS:** Weight: 11kg; Capacity: 1.8kw; 19J per blow; Percussion Rate: 1300-2150rpm. Available in 19 x 82.5mm Hex or SDS-Max

## MAG BASE DRILL

### APPLICATION

For portable drilling of structural steel on site. Can be positioned to drill vertically or horizontally as well as upside down. Maximum drill size up to 30mm.

### OPERATION AND BASIC MAINTENANCE TIPS

- Before starting, ensure that moveable parts are securely fastened
- Magnetic base is secure on clean metal base
- Always make use of safety chain
- Only used/use for steel drilling

### SAFETY DO'S AND DON'TS

- Always use proper safety clothing when drilling
- Never attempt to touch the drilling attachment while motor is still running
- Never operate with a broken or damaged drill bit
- Wait for bit to cool down, before attempting to remove



**SPECIFICATIONS:** Power Output: 1,3kw/1,8hp  
Weight: 9,4kg



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CORDLESS,  
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## Power and mobility for repetitive drilling

### HIGHLIGHTS

- Outstanding working comfort and performance



### CPC



### HIGHLIGHTS

- Universal battery platform
- More holes per charged battery



### HIGHLIGHTS

- Fast charging
- No slow discharge



### HIGHLIGHTS

- Less dust
- Higher productivity

# BREAKING & DRILLING



**SPECIFICATIONS:** Weight: 13kg; Power: 3000W; Max drilling capacity: 162mm (Rig Mounted); Insulation : Class II

## DIAMOND DRILLING RIG

### APPLICATION

The 3000W motor is powerful enough to tackle the biggest construction jobs. Used for chemical and mechanical anchoring, floor penetration and waste pipes, heating and cooling pipes as well as fire and plumbing services.

### OPERATION AND BASIC MAINTENANCE TIPS

- Make sure water flow is sufficient
- Do not force the machine
- Secure base plate correctly so drill does not move when drilling

### SAFETY DO'S AND DON'TS

- Always use proper safety clothing when drilling
- Never attempt to touch the drilling attachment while motor is still running
- Never operate with a broken or damaged drill bit
- Wait for bit to cool down, before attempting to remove

Motor Speeds	Speed 1	Speed 2	Speed 3
Load	230RPM	500RPM	1030RPM
Diameter	150-350mm	90-150mm	50-90mm

**WATCH THE YOU TUBE VIDEO ON OPERATING AN AIR BREAKER HERE:**



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26mm

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1,100W



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72.8 Joules  
870 b/min

2,000W

# COMPACTION

## REVERSIBLE PLATE COMPACTOR



**SPECIFICATIONS:** Weight: 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

### APPLICATION

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

### 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 at 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.
- Keep feet clear of the plate while operating
- Always wear proper safety clothing

## ROLLER

### APPLICATION

Compaction of soil and asphalt.

### 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
- Never activate vibrate function on solid/hard surfaces, eg concrete or asphalt
- 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.
- Ensure that the dead-man handle is working properly
- Don't sit on machine while operating
- Stop machine before changing direction



**SPECIFICATIONS:** Weight 830kg; Working Width: 650mm; Centrifugal Force: 18kN, Hatz 1D41S; Diesel Engine, fully hydrostatic Petrol Honda GX 390.

## PLATE COMPACTOR

### APPLICATION

Compaction of soil. Used to prepare soil beneath normal housing foundations, floor slabs and paving. Can also be used on top of paving with a brick roller attachment.

### OPERATION AND BASIC MAINTENANCE TIPS

- Thickness of layers should ideally not be more than 150mm
- The soil should be slightly moist (not wet and not dry) throughout the layer
- 6-8 passes with the machine advancing at its normal pace will usually give you optimum compaction results - avoid over compaction
- Do not over compact the soil or run the machine on concrete surfaces
- Check oil level before starting

### SAFETY DO'S AND DON'TS

- Keep feet clear of the plate while operating
- Always wear proper safety clothing



**SPECIFICATIONS: Power Output:** 9hp, Petrol Engine; Drive: "V-belt" driven; Plate size: 450x500x16mm thick Size: LxBxH 600x440x1200mm; Weight: 120kg

## RAMMER [4-STROKE]

### APPLICATION

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 sand is not recommended.)

### OPERATION AND BASIC MAINTENANCE TIPS

- Thickness of soil to be compacted should be between 150mm and 300mm
- The soil should be slightly moist (not wet and not dry) throughout the layer
- 3-4 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 "93/95 Fuel"
- Check air filters regularly (after every 4 hours of use)

### SAFETY DO'S AND DON'TS

- Do not operate the machine without recoil starter
- Keep feet clear of the rammer foot while operating
- Always transport upright



**SPECIFICATIONS: Prime Mover:** 4hp 4 stroke Petrol engine; Drive: Directly - clutch; Plate size: 280x330mm; Size: LxBxH: 690x400x1115mm; Impact force: 14kn per blow Weight: 72kg; Number of blows per minute: 690

# COMPACTION

## RAMMER [2-STROKE]

### APPLICATION

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.

### OPERATION AND BASIC MAINTENANCE TIPS

- Thickness of layer to be compacted should be approx. 300mm, definitely no less than 150mm
- 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
- 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.



**SPECIFICATIONS:** Weight: 59kg; Engine: 2-stroke WMBO, 2.3kW; Shoe Size: 280x330mm; Impact Force: 12kN per blow; Number of Blows: Approx. 700/min.

**WATCH THE YOU TUBE VIDEO ON OPERATING A RAMMER HERE:**



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# COMPACTION

## OPERATION & 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. Use only pre-mix fuel supplied by Coastal Hire.
- Before use, always check the oil level in the ramming system sight glass. Oil level must be a maximum of 3/4 full on the sight glass.
- Ensure that suitable trained operators operate the rammer. Contact your Coastal 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. This will result in serious engine wear.
- Never overcompact! Stop compaction as soon as a rammer starts to jump erratically and becomes difficult to control. Excessive compaction will result in damage to ramming mechanism.
- 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, abrasive or hard surfaces.
- Avoid damage to rammers during transportation. Always transport rammers upright. 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 Rammer.

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# CONCRETE



**SPECIFICATIONS:** Drum Capacity: 400L; Dry Mix: 310L; Wet Mix: 260L; Wheels: 2 solid rubber; Prime Mover: 5,5hp Petrol Engine; Drum type: tilt drum; Size LxBxH 1800x900x1500; Weight 295kg

## CONCRETE MIXER TOW & NON-TOW

### APPLICATION

Mixers are used when a small quantity of concrete is required. These mixers are used by small, medium or large contractors and companies or individuals who need to mix concrete.

### OPERATION AND BASIC MAINTENANCE TIPS

- Always check oil level and v-belt before operation
- Do not grease the ring gear
- Check the gears for wear regularly by testing the machine under load
- Always wash the machine down when the work for the day is complete
- Check the revs of the drum should not be more than 25rpm or the concrete won't mix
- Always advise operator of capacity of mixer
- Do not over load mixer

### SAFETY DO'S AND DON'TS

- Don't operate without recoil starter cover
- Keep hands and arms clear of all moving parts
- When transporting make sure machine is fastened down properly - Drum facing downwards
- Don't place any objects other than sand, stone, water and cement in the drum

## CONCRETE SAW



**SPECIFICATIONS:** Propulsion: Push type; for blade: 13hp Petrol engine; Blade size: Up to 450mm Size: LxBxH: 1110x600x900mm; Weight: 235kg; Accessories: Blade Spanner, Blade guide water tank:50 litres.

### APPLICATION

For cutting of expansion and contraction joints, neatening of slab/road edges, repairs to road/slabs and cutting of surfaces for cable laying or replacing.

### OPERATION AND BASIC MAINTENANCE TIPS

- Always check oil level of the engine
- Check that the blade cover and guide wheel are in place
- Check the taps and hose to the blades
- Check v-belts are tensioned properly and in good condition
- Never force the machine forward
- Always use water when cutting
- When starting up, make sure the blade is off the surface to be cut
- Do not transport with a blade on shaft

### SAFETY DO'S AND DON'TS

- Never operate the machine with the blade cover in the "up" position
- Make sure the blade is fitted in the correct direction and fastened properly
- Do not run machine without a recoil starter cover
- Do not change direction while cutting
- Step cut  $\pm 30$ mm at a time

## FLOOR GRINDER

### APPLICATION

This machine is used for grinding concrete floors (dry / wet process). It is used for removing laitance, paint, grease, etc. It can also be used for grinding down construction joints to neaten the finish.

### OPERATION AND BASIC MAINTENANCE TIPS

- Make sure that when starting up the machine that the grinding blocks are raised off the grinding surface
- Make sure the wedges are put in correctly before starting the machine (the blocks will be flung out of their correct positions immediately when the machine starts up if this is not done)

### SAFETY DO'S AND DON'TS

- The correct diameter cable must be used when the motor is electric to avoid a voltage drop
- Make sure that in the case where the machine is driven by a petrol engine, that ventilation is adequate



**SPECIFICATIONS:** (Prime Mover) 5.5hp petrol; Motor: 1.5kw 220V or 1.5kw 380V Size: LxBxH: 1092x610x965; Weight: 30kg

## POKER

### APPLICATION

• These machines are used for the compaction of concrete. They remove air from the wet mixture of concrete by vibrating the wet concrete and releasing any air trapped inside the mixture before it sets.

### OPERATION AND BASIC MAINTENANCE TIPS

- The poker should never be bent to any great degree
- It should not be left in the concrete too long as it will cause segregation and weaken the concrete
- It should never be allowed to run outside of the concrete for any length of time as it will overheat and seize
- The drive units revs should never exceed 2850 rpm

### SAFETY DO'S AND DON'TS

- Do not try to couple up the poker to the drive unit while the engine is still running. This should be done before starting the engine



**SPECIFICATIONS:** Length: 6m; Inner core:12mm; Outer casing is reinforced rubber; Head size: 36 or 48mm; Diameter:Htz:200; Circle of vibration for 36mm: 130-250mm; Circle of vibration for 48mm: 180-350mm

# CONCRETE

## CONCRETE MIXER OPERATION [LARGE BATCHES CONCRETE]

### LOW-STRENGTH CONCRETE

Suitable for: **House Foundations**

To make 1 m<sup>3</sup> (cubic metre) of concrete you will need: 5 1/2 sacks cement + 0,75 m<sup>3</sup> (cubic metres) sand + 0,75 m<sup>3</sup> stone.



### MEDIUM-STRENGTH CONCRETE

Suitable for: **House Floors, Footpaths and Driveways.**

To make 1 m<sup>3</sup> of concrete you will need:  
7 sacks cement + 0,70 m<sup>3</sup> sand + 0,70 m<sup>3</sup> stone.



### HIGH-STRENGTH CONCRETE

Suitable for: **Precast Concrete and Heavy Duty Floors**

To make 1 m<sup>3</sup> of concrete you will need:  
10 sacks cement + 0,65 m<sup>3</sup> sand + 0,65 m<sup>3</sup> stone.



### MORTAR

Suitable for: **Laying bricks and blocks**

To lay 1000 bricks: you will need: 3 sacks cement + 0,6 m<sup>3</sup> sand.



### PLASTER

Suitable for: **Exterior and Interior work**

To plaster 100 m<sup>2</sup> - 15 millimetres thick: you will need 10 sacks cement + 2 m<sup>3</sup> sand.



### LARGE BATCHES

Use containers such as buckets, drums or tins.

Use the same size container for measuring all the materials in a batch.

### MORTAR

<b>Low-Strength Concrete</b>	Cement  1 sack	Concrete sand  3 1/2 Bags	Stone  3 1/2 Bags
<b>Medium-Strength Concrete</b>	Cement  1 sack	Concrete sand  2 1/2 Bags	Stone  2 1/2 Bags
<b>High-Strength Concrete</b>	Cement  1 sack	Concrete sand  1 3/4 Bags	Stone  1 3/4 Bags

### PLASTER

Cement  1 sack	Building sand  5 Bags
Cement  1 sack	Plaster sand  5 Bags

## NOTES:

1. The amount of water added to a mix must be enough to make the mix workable and plastic.
2. The following types of cement are suitable:
  - Ordinary portland cement
  - Ordinary portland cement 15 slag
  - Ordinary portland cement 15 fly ash
3. Stone for concrete should be 19mm or 16mm size
4. If you use a wheelbarrow for measuring, it should be a builder's wheelbarrow which has a capacity of 65 litres

## HINTS:

A few hints on mixing. First add water - approximately 12 litres, depending on the type of mix. Cement should go in after some of the aggregate. Work consistently to the ratio of ingredients as listed below, for whatever type of concrete mix you are working to.

Beware of low grade aggregates, this only leads to trouble later on with sinking, spoiling the appearance of the pour. Also, more importantly, do not get the concrete mix too wet as this can reduce the strength and is less able to withstand weathering.

Never throw material into mixer, trickle it steadily over the rim or it will stick firmly to the back of the drum and can only be dislodged by stopping the mixer.

The approximate mixing time for concrete is  $2\frac{1}{2}$  minutes, which is taken when all the material, including water has entered the drum. Over mixing can reduce strength and cause segregation of the coarser aggregates.

Keep your mixer clean, the slightest trace

of material left in the drum will harden and attract more residue each time you use it until the machine is useless. Do not throw bricks into a mixer drum to clean it out. The best method is 19mm gravel and clean water, use plenty of it, as this will do the job in half the time.

## VOLUME:

Most concrete mixer brochures show output in litres (eg: 260 litres) and the amount of concrete needed for the work at hand is usually in cubic metres. One cubic metre of Concrete is equal to 1000litres. So if your machine is rated at 260 litres output, it can produce 0,26 cubic metres per mix.

## PRODUCTION:

Most brochures show a mixing cycle of 2 to 3 minutes. This is not an accurate figure for all practical purposes. When using the standard coffee grinder type mixer it is wise to use approximately 6 minutes as a mixing cycle. (Mixing cycle is the time it takes to fill the machine, mix the concrete and discharge it). Therefore we can pour:  $60 \text{ minutes} \div 6 \text{ minutes} = 10 \text{ mixes per hour}$ . We know that each mix is 0,26 of a cubic metre, so take 0,26 and multiply by 10 mixers per hour and we can produce 2,6 cubic metres per hour. This should assist you to work out how long you will need to hire the machine and what your daily estimated production should be.

TABLE OF CONCRETE MIXERS	MIX	BATCH QUANTITIES			APPROX. LITRES OUTPUT
		Cement 50Kg Bag	Sand Shovels	Stone Shovels	
LOW STRENGTH (House Foundations)	1:3.5:3.3	1	40	40	170
MEDIUM STRENGTH (House floors, foot paths)	1:2.5:2.5	1.5	40	40	170
HIGH STRENGTH (Heavy Duty Floors)	1:1.75:1.75	2	40	40	170

1 Shovel sand = ± 3 litres | 1 Shovel stones = ± 3 litres | 1 Builders wheelbarrow = 65 Litres

# CONCRETE

## DRIVE UNIT



### SPECIFICATIONS: Prime

**Mover:** 5.5hp petrol engine fitted into a roll over square tube frame with a drive dog and guide sleeve bolted to the engine; Size: LxBxH: 350x330x460mm; Weight: 28kg

### APPLICATION

Used for driving mechanical flex drive pokers and submersible pumps.

### OPERATION AND BASIC MAINTENANCE TIPS

- Always check oil level and air filters of engine before starting the machine
- Always fit the poker or sub pump to the drive unit before starting the engine
- Make sure that the rpm does not exceed 2850 rpm - damage to inner core of pump and poker will result

### SAFETY DO'S AND DON'TS

- Do not put drive unit in concrete / or water
- Do not make any adjustments to the drive dog or sleeve while the engine is running
- Never fit the poker or sub pump while the engine is running
- The cover to the recoil starter must always be fitted

## POWER FLOAT



### SPECIFICATIONS: Prime

**Mover:** 5.5hp Petrol engine; Drive: V-Belt driven. Polishing diameter: 1000mm; Size: LxBxH 2060x1100x600 Weight: 65kg; Features: Dead mans handle

### APPLICATION

The machine is used for creating a very smooth finish on new concrete slabs. In special circumstances the machine can be used for polishing screeds.

### OPERATION AND BASIC MAINTENANCE TIPS

- This machine must be cleaned after working with it before the concrete sets on the blades
- This will lengthen the life of the machine
- Check the blade arms for wear before working with it to avoid bad finish
- The blades should not be flat to start with and as the job is done, the angle will be increased to create a really smooth finish
- The blades should all be set the same

### SAFETY DO'S AND DON'TS

- Make sure that in the case where the machine is driven by a petrol engine, that ventilation is adequate
- Make sure the safety switch is working
- Before using the machine, start the engine and when it is on idle, the clutch should not engage
- Keep away from the protective ring of the machine while the machine is working



## SCARIFIER

### APPLICATION

**Removing:** old concrete, layers of paint, caked oil, grease, traffic lane markings, chemical spillage, rust scale, encrustations and irregularities, thermoplastics.

**Roughening:** Concrete floors for resurfacing and better adhesion of new flooring materials, slick roads for greater safety.

### OPERATION AND BASIC MAINTENANCE TIPS

- Check air filters at least twice a day - very dusty application
- Check oil levels daily
- Care must be taken to set the machine to the correct height
  - too low and the machine will jump and be unstable
  - too high and it is ineffective
- Check for wear on the flails - replace to improve output of machine
- When starting machine adjust to highest setting

### SAFETY DO'S AND DON'TS

- Keep your feet and hands away from the front of the machine while in operation
- Always wear protective gear



**SPECIFICATIONS: Prime mover:** 8,5hp Petrol engine; Flails No off: 64 with tungsten carbide tips; Output: 100sq m/hour depending on the nature of the work; Working width: 300mm; Size LxBxH 1450x560x950mm; Weight: 180kg

## MASONRY SAW

### APPLICATION

For cutting of bricks for building, paving, refractory etc. Can also be used for tiles and stone in some circumstances.

### OPERATION AND BASIC MAINTENANCE TIPS

- Clean water tray regularly
- Water pump is working
- Table is running smooth
- Clean air filter daily

### SAFETY DO'S AND DON'TS

- Keep the area around the saw clear of obstacles to ensure a safe working environment
- Always wear protective gear



**SPECIFICATIONS: Prime Mover:** to drive blade: 5.5hp; Petrol engine or 2.2kW Electric motor; Blade size: Up to 350mm; Size LxBxH: 1150x600x1400; Weight: 90kg



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## ANGLE GRINDER

### APPLICATION

Removal of casting finishing and finishing of various types of steel, bronze and aluminium materials and castings. Grinding of welded sections or sections cut by means of cutting torch. Grinding of synthetic resin, slate, brick, marble etc. Cutting of synthetic concrete, stone, brick, marble and similar materials, chasing walls for pipe installation.

### OPERATION AND BASIC MAINTENANCE TIPS

- Fit blade properly
- Confirm spindle lock is disengaged by pushing button and turning wheel by hand
- Ensure that the locknut is fitted the right way
- Firmly hold the machine with both hands at a 15°-30° angle and proceed without using too much force
- Use proper extension cord (2.5mm thickness and not longer than 20m)



### SAFETY DO'S AND DON'TS

- Never use without wheel guard
- Never use close to flammable substances
- Ensure that power source delivers between 220&230V
- Ensure power cord extension/machine do not get wet
- Allow 5 minutes cool off period after every 15-20 minutes use
- When using machine in dusty conditions, blow out dust on daily basis

#### SPECIFICATIONS:

Wheel Diameter: 230mm; Hole Diameter: 22mm; Spindle Thread: M14x2; Power Input: 2500W; No-Load Speed: 6600/min; Overall Length: 478mm; Weight: 5,0kg; Standard Accessories: Side Handle, Wrench

## BELT SANDER

### APPLICATION

Finish sanding and finish flooring of woodwork products. Base polishing of wood-coated, metal-coated surfaces, rust removal, or paint removal prior to refinishing. Finish sanding of metal surfaces. Surface finishing of slate, concrete, and similar materials.

### OPERATION AND BASIC MAINTENANCE TIPS

- Fit sanding paper as indicated by arrow on machine and paper
- Adjust knob on side to ensure that the sanding paper stays in the middle
- Move sander forward and backwards at constant speed and pressure
- Remove all metal objects like nails from surface before use
- Dust bag must be emptied when full
- Use proper extension cord



### SAFETY DO'S AND DON'TS

- Ensure that power source delivers between 220&230V
- Ensure power cord extension/machine do not get wet
- Don't apply excessive pressure on sander
- Use both hands
- Allow 5 minutes cool off period after every 15-20 minutes use

#### SPECIFICATIONS:

Belt Size: 110x620mm; Power Input: 950W; No-Load Speed: Hi 350m/min, Low: 300m/min; Overall Length: 392mm; Weight: 7.3kg; Standard Accessories: Sanding Belt, Dust Bag

# ELECTRICAL TOOLS

## FLOOR SANDER



### APPLICATION

Floor sanding with coarse grit abrasives, removing old finishes and deposits of wax and dirt. Use on all solid wood floors that require rapid sanding and levelling to a fine score free finish.

### OPERATION AND BASIC MAINTENANCE TIPS

- Fit sand paper correctly
- Regularly empty the bag

### SAFETY DO'S AND DON'TS

- Extension - make sure that it is not longer than 15-20 metres
- Start the machine with the drum off the surface until full revs have been achieved
- Do not pull machine backwards, work in one direction (forward)



**SPECIFICATIONS:** Power supply: 220V Hz: 50; Off load current: 5 Amp Average load current: 8 Amp; Weight: 44kg; Motor rpm: 8500; Drum speed: 3000rpm; Drum Width: 200mm

**WATCH THE YOU TUBE VIDEO ON OPERATING AN ANGLE GRINDER HERE:**



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## FLOOR SANDING

### PREPARATION

- Where possible remove all furniture from the area or room. Floor Sanders feature an efficient dust pick-up. However, some dust will escape.
- Remove all tacks, staples and other unwanted fixing from the floor. Failure to do so will result in damage to the abrasive paper and sanding drum.
- Punch all nails below the surface of the floor using a suitable nail punch and hammer. Any screws used to fix boards should be counter sunk below the surface. During sanding any nails or screws that become exposed must be punched or countersunk further.
- Firmly fix all loose boards and blocks.
- Remove heavy wax, grease and dirt deposits by hand.
- Sweep and vacuum the floor thoroughly to remove dirt and discarded fixings.
- Ensure good ventilation by opening windows.

### OPERATION

Floor sanders are powerful machines. Always ensure that you have a firm grip before switching on.

### CAUTION

To prevent damage to the floor surface, work piece or machine follow these rules:

- Always ensure that the floor sander is moving when in operation and sanding drum is in contact with the floor.
- Never lift the back of the machine when sanding.
- Never apply pressure to try and increase the rate of sanding. Damage to the floor and machine will occur.
- Never bounce or drop the floor sander on to the floor. Always lower the machine gently.
- Never dwell in one place, move steadily at all times.
- Never allow the power cable to come into contact with the sanding drum.
- Never pull machine backwards while sanding (**only sand in a forward motion**).

- Never leave the floor sander unattended with dust in the dust bag. Always remove the dust bag and dispose of it into a suitable container.

**Handy Tip:** Why not save thousands by bringing out the natural beauty of your wooden floor yourself. Coastal Hire has the best quality imported floor sanders and sound advice from our friendly managers. Why not use our excellent weekend special prices and sand your floor this weekend.

## SANDING TECHNIQUES

### DRUM FLOOR SANDER

- Load the sander with abrasive, making sure that it is skin tight around the drum. Loose sheets will tear. Place on the right hand wall (unless you are making an angled cut on uneven floors) with about two-thirds of the floor in front of you.
- Start the sander with the drum off the floor then walk forward at an even pace and ease the drum to the floor. As you near the end of the pass, gradually raise the drum off the floor. Practice this technique before turning the sander on.
- Cover the same path you made on the forward cut by tilting the machine and pulling it backwards with the drum in the air to the starting point, then ease the drum to the floor as you begin the 2nd pass continuing until you reach your previous end point, then ease the drum off the floor.

### SANDING PLANK AND STRIP FLOORS

- Floors in good condition - when the floor is in good condition - no uneven edges, cupping or crowning of planks and strips - start sanding the planks or strips with the grain.
- Start with a coarse or medium abrasive. Complete the first cut with the drum floor sander then sand up to the skirting board (baseboards) and door thresholds with the edger, using a medium grit abrasive, blending the edges in with

# ELECTRICAL TOOLS

the main floor area. Sweep the floor.

- Using a medium grit abrasive, sand the main floor area with the drum sander. Finish sanding the main floor area with the drum floor sander using a fine grit abrasive.
- Uneven floors - when the floor is uneven, sand diagonally at 45° across the floor in both directions using a coarse grit abrasive. Only make one cut on both diagonals, this will achieve a basic level. Now complete the floor as for a level strip or plank floor.
- Use the same grit abrasive as was used on the 45° cut for the first cut parallel to the planks or strips.
- Floors with an existing finish - when refinishing a floor remove as little of the existing surface as possible. If only a light sanding is required to prepare the floor for refinishing use an orbital floor sander. If the floor is badly marked and scratched and has to be sanded back to new wood, it may be necessary to use coarse open coat abrasive to remove the old finish but take care as they are very aggressive.

- Always try a medium grit paper first, particularly on a diagonal cut. If 90% of the old finish is removed and the floor is generally levelled, you do not need to use a coarse grit abrasive.

## VENEERED, LAMINATED AND THINNER FLOORS

- Use an orbital floor sander for veneered and laminated floors or thinner floors that may have been subjected to repeated sanding.
- The orbital floor sander will remove old surface finishes and prepare the floor for refinishing. Sand the floor using the same method as a strip, plank or parquet floor.
- If the floor has deeper scratches or marks, these should be sanded out by hand and blended in with the main floor.

ABRASIVE PAPER GRADE	FLOOR TYPE AND CONDITION
Grit 24 (Coarse)	<ul style="list-style-type: none"> <li>• For removing surface coatings such as varnish, stains and wax polishes from old floors. Use for rapid levelling of uneven floors. Do not use on well laid even floors.</li> </ul>
Grit 40 (Medium)	<ul style="list-style-type: none"> <li>• For first sanding of new hardwood floors. Second sanding of old floors.</li> </ul>
Grit 80 (Fine)	<ul style="list-style-type: none"> <li>• For final sanding of new or old wood floors. Second sanding of cork or composition floors</li> </ul>
Grit 100 (Extra Fine)	<ul style="list-style-type: none"> <li>• For final sanding of any floor where exceptionally high finish is required.</li> </ul>

## PARQUET & BLOCK FLOORS

The grain of the wood will run in a number of directions so sand the floor in the direction of the main source of natural light in the room. If there is no source of natural light sand in the direction of the longest side

of the room or, if the room is square, in the direction the furniture is laid out and how people normally use the room. This technique will help mask any imperfections in the floor. Complete the sanding operation as detailed for plank or strip floors.

## JIG SAW

### APPLICATION

Cutting or cutting out shapes in various types of wood work pieces. Cutting various metals such as mild steel, aluminium and copper. Cutting synthetic resin materials such as bakelite and vinyl chloride. Cutting various decorative sheets and thin and soft construction materials.

### OPERATION AND BASIC MAINTENANCE TIPS

- Use suitable blade for different materials
- Decrease orbital operation for all soft materials and increase for hard materials by setting button on side of machine to "O" for soft materials
- By utilising weight of machine, moderately proceed without using too much force
- When cutting wood, ensure that all nails are removed
- Use proper extension cord

### SAFETY DO'S AND DON'TS

- Ensure that power source delivers between 220 & 230V
- Ensure power cord extension / machine do not get wet
- Don't apply excessive pressure
- Allow 5 minutes cool off period after every 15-20 minutes use



**SPECIFICATIONS:** Wood capacity: 120mm; Mild steel plate capacity: 10mm; Min. Cutting radius: 25mm; Base Tilt Angle: 45° Right/Left; Power Input: 740W; Length of Stroke: 26mm; No-Load Speed: 850-3,000/min; Overall Length: 258mm; Weight: 2.3kg; Standard Accessories: 3 Blades, Splinter Guard, Chip Cover, Dust Collection, Adaptor, Wrench, Carry Case.

## ORBITAL SANDER

### APPLICATION

Finish polishing of woodwork surfaces. Sanding surfaces of woodwork or sheet metal prior to painting.

### OPERATION AND BASIC MAINTENANCE TIPS

- Sanding paper must be fitted tightly
- Lightly press sander against surface and move sander forward and backwards at constant speed
- Remove all metal objects like nails from surface
- Dust bag must be emptied when full
- Use proper extension cord

### SAFETY DO'S AND DON'TS

- Ensure that power source delivers between 220&230V
- Ensure power cord extension/machine do not get wet
- Don't apply excessive pressure
- Use both hands
- Allow 5 minutes cool off period after every 15-20 minutes use



**SPECIFICATIONS:** Pad Size Capacity: 114x228mm; Power Input: 300W; Orbital Diameter: 2.4mm; No-Load Speed: -Spindle: 10 000/min; Orbit: 20 000/min; Overall Length: 300mm; Weight: 2,8kg; Standard Accessories: Sanding Paper, Dust Bag.

# ELECTRICAL TOOLS

## PLANER



**SPECIFICATIONS:** Cutting Width: 82mm; Max. cutting Depth: 3mm; Power Input: 720W; No-Load Speed: 14 000/min; Overall Length: 309mm; Weight: 3.0kg; Standard Accessories: Blades, Blade Setting Gauge, Guide, Wrench

### APPLICATION

Planing of various wooden planks and panels.

### OPERATION AND BASIC MAINTENANCE TIPS

- Ensure that the blades are sharp and tightly fitted
- Adjust the knob until aligned within the desired cutting depth
- The planer should always be kept flat and pushed away from the body
- Remove all metal objects like nails from surface before use
- Use proper extension cord

### SAFETY DO'S AND DON'TS

- Ensure that power source delivers between 220&230V
- Ensure power cord extension/machine do not get wet
- Don't apply excessive pressure on sander
- Use both hands
- Allow 5 minutes cool off period after every 15-20minutes use

## SKILL SAW



**SPECIFICATIONS:** Capacity: Blade diameter: 190mm; Maximum Cut Depth: 90°: 66mm, 45°: 48mm; Power Input: 1200W; No-Load Speed: 5 500/min; Overall Length: 312mm; Weight: 4.0kg; Standard Accessories: Blade, guide, bolt, wrench, adaptor for dust collector, knob

### APPLICATION

Compact and lightweight, this saw is ideal for cutting wood.

### OPERATION AND BASIC MAINTENANCE TIPS

- Before cutting, ensure saw blade has reached full speed revolution
- If saw blade stops or makes unusual noise switch off immediately
- Be sure the power cord never comes near the saw blade
- Never press too hard on the unit as this places a heavy load on the motor and may cause damage
- Ensure winding does not become wet with oil or water

### SAFETY DO'S AND DON'TS

- Be sure the power source is according to the requirements specified
- If using extension cord, make sure it is sufficient thickness
- Ensure the portion of lumber remaining after cutting is anchored down



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- High demolition performance: 512kg/30min
- 70J\* impact energy
- Soft grip handles for more comfort
- Large switch lever for more control

## HTC-H905G

Demolition Hammer



## SPECIFICATIONS

Power Input

220V, 230V, 240V: 2,000W

Full Load Impact Rate

1,000/min

Bit Shank

28.5mm (1-1/8") Hexagon

Overall Length

860mm (33-55/64")

Weight

32.0kg (70.5 lbs.) without code

Standard Accessories

**RHB LVP**  
FULL-WEAR-HOUSING BODY USER VERIFICATION PROTECTION

# ELECTRICAL TOOLS

## ELECTRIC POWER TOOLS USAGE

To avoid possible damage to the power tool, abnormal operation (such as excessive overload) should be carefully avoided. Some of the consequences of abnormal operation are described and illustrated below.

- Applying excessive pressure on the power tool lowers working efficiency because it reduces drilling, cutting or grinding.
- Abnormal operation wastes electric energy.
- Abnormal operation causes overheating and possible burnout of the armature and stator assemblies.
- Abnormal operation causes excessive wear and eventual breakage of the mechanical components.

### EXTENSION CORDS AND VOLTAGE DROP

The cord of the electrical power tool causes some voltage drop. Because electric power tools are marketed with a cord approximately 1,5 to 3 meters in length, operators must use extension cords when the work area is located at some distance from the power source. If the capacity of the extension cord is not correct (low ampere rating,

excessively long, etc.), it will cause power loss, possible motor damage, overheating and possible burning of the motor because of excessive voltage drop. Accordingly, if an extension cord is necessary it is strongly recommended that one with a large diameter and shortest possible length be selected.

The recommended Extension Cord Selection Table that follows may be used as a handy reference in choosing a proper extension cord. The table shows the recommended wire size (gauge) based on the required cord length and the rated amperage of the power tool (indicated on the nameplate). The recommended cord dimensions shown in the table assure a voltage drop of not more than 5% of the rated amperage indicated on the nameplate.

### RECOMMENDED EXTENSION CORD SELECTION TABLE

The table represents maximum extremes. Always make sure that the full length of the cable is unrolled when in use.

Extension Cord Cable (3 Core)	Length (Metres)
2.5mm	20m (max)

### PRECAUTIONS FOR SAFER OPERATION OF POWER TOOLS

Because they are powered by electricity and function through the operation of cutting tools and other parts that move at high speed, electric tools are inherently dangerous if used carelessly. However, they can be utilised safely and effectively if the user observes a few basic safety rules in their operation. For handy reference to enhance safe operation, some important rules are listed below.

- Ensure the extension cord has a capacity for the tool
- Keep blades, drill bits and cutting tools sharp and clean
- Ensure a damaged cord is properly and safely repaired
- Prior to operation carefully inspect the tool for abnormalities
- Immediately stop operation if any abnormalities are noted
- Do not operate the tool when your hands are wet
- Do not drop the tool or treat it roughly. Mishandling the tool can damage or weaken its insulation and make it unsafe
- Ensure that motor ventilation openings are kept clean and fully open
- Always handle the tool with respect and care

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EXCEEDING EXPECTATIONS ALWAYS

# GENERATORS AND WELDERS

## GENERATOR



### SPECIFICATIONS:

Drive: 13hp Petrol engine;  
kVA: 5kVA; Output: 5000watt;  
Frame: Tubular; Plugs:  
2x15amp 220V plug points;  
Circuit Breaker: 20amp;  
Weight: 88kg; Size: LxBxH  
800x600x550mm.

### APPLICATION

Supplying electricity in areas where electricity is not available or in the event of a power failure. It is a very useful machine but it is important to use the correct machine for the application.

### OPERATION AND BASIC MAINTENANCE TIPS

- Before operating machine always check oil level
- Top up with multigrade oil if needed
- Test the voltage, and amps of the machine regularly to prevent damage to appliances/tools
- Ensure that the power supply is adequate for the application
- Do not allow overloading of generators
- Generators should be run in well-ventilated areas

### SAFETY DO'S AND DON'TS

- Do not run the generator without a recoil starter
- Do not overload the machine or increase the revs on the machine, 3000 rpm and 50hz is recommended
- Make sure the fan on the alternator is always protected
- Check overload switch is operational

**WATCH THE YOU TUBE VIDEO ON  
OPERATING A PETROL GENERATOR HERE:**



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# GENERATORS AND WELDERS

## PETROL GENERATOR / WELDER

### APPLICATION

This machine can be used for general type welding. For producing burglar proofing, steel gates fencing, steel furniture etc. It has a 220V outlet to allow it to be used as a generator to drive an angle grinder for the grinding process.

### OPERATION AND BASIC MAINTENANCE TIPS

- Check oil level before starting
- Make sure that the welding plugs are properly fitted - not loosely fitted which would cause a short
- The machine is used 6min out of every 10min and then should be left to cool for 4 min
- Clean the weld end out by blowing compressed air through the weld end at least once a week
- Must be set to deliver between 220 & 230 Volts

### SAFETY DO'S AND DON'TS

- Make sure that the cables are not open (connections are insulated and cables are not damaged - no bare wires showing)
- Never leave the engine running and the electrodes connected - this leaves an open voltage circuit which can shock persons touching the bare wires



**SPECIFICATIONS:** Frame: Round tubing; Prime Mover: 13hp Petrol engine; Welding amperage: 200amp; Voltage: 220V. kVA 7; Accessories: Cable set + earth Clamp + Electrodes etc. Size: LxBxH 700x600x695mm; Weight: 125kg

## WELDER

### APPLICATION

Welding of various metals

### OPERATION AND BASIC MAINTENANCE TIPS

- Weld from left to right for clear visibility
- The machine will get hot whilst in use
- Should the machine overturn and oil spills out, contact Coastal Hire to replace
- Oil level is shown on the rear label welder

### SAFETY DO'S AND DON'TS

- Be sure the power source conforms to requirements specified
- When using an extension cord, it should be sufficient thickness and as short as practical
- Make sure terminals are always clean and tight. (Loose connections may damage the machine)
- Flammable and toxic material should be removed from the vicinity
- Be sure to wear protective gear as ultra-violet rays, sparks and gasses are emitted during welding



**SPECIFICATIONS:** AMP: 220; Voltage: 220V; Phase: Single Phase



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**BATTERY BRUSHCUTTERS**



**BATTERY CLEARING SAWS**



**BATTERY CHAINSAWS**



# LAWN AND GARDEN

## BRUSH CUTTER

### APPLICATION

The FS 400 is a powerful professional clearing saw for mowing tough grass, doing clearing work and for mowing and clearing vegetation in difficult terrain.

### OPERATION AND BASIC MAINTENANCE TIPS

- Before starting, ensure parts are securely fastened
- Ensure you have a secure footing before cutting
- Before cutting, inspect area for stones, glass etc. to prevent objects being “thrown” while cutting
- Check cutting tool periodically for damage. Use only approved cutting attachments

### SAFETY DO'S AND DON'TS

- Always use proper safety clothing and eye protection when cutting
- Never attempt to touch or adjust the cutting attachment while engine is still running
- Never operate with a broken or damaged cutting attachment
- Use only approved 2-stroke fuel supplied by Coastal Hire
- Wear shin guards to protect your shins



#### SPECIFICATIONS:

Displacement: 40.2cc; Power: 1.9kW; Weight without cutting attachments: 8.1kg; Max. Engine rpm: 12500rpm

## CHAIN SAW

### APPLICATION

Extremely powerful, professional heavy duty saw for felling and limbing in large forestry and clearing industries. Robust saw that cuts effortlessly through both soft and hard woods

### OPERATION AND BASIC MAINTENANCE TIPS

- Before starting, ensure parts are securely fastened
- Make sure you have secure footing before cutting
- Use only proper cutting techniques
- Make sure chain is kept sharp and properly oiled
- To prevent dirt build-up, clean machine daily

### SAFETY DO'S AND DON'TS

- Always use proper cut resistant safety clothing and protection and wear safety pants to protect your legs
- Never leave your chain saw unattended while engine is running
- Use only approved 2-Stroke fuel
- Hold saw firmly with both hands
- Never force machine - allow blade to do cutting
- Only one operator allowed to use chain saw at a time
- Used only for “live” wood-not dry (sleeper wood)
- Do not allow chain to touch sand (beware of root cutting)
- Fill outer bar oil every time you refuel



#### SPECIFICATIONS:

Displacement: 60.3cc; Power: 2.8kW; Weight without cutting attachments: 7.1kg; Max. engine rpm: 9000rpm

# LAWN AND GARDEN

## CHAIN SAW OPERATION

### KICKBACK

Kickback occurs when the upper quadrant of the bar nose contacts a solid object or is pinched.

The reaction of the cutting force of the chain causes a rotational force on the chain saw in the direction opposite to the chain movement.

### TO AVOID KICKBACK

The best protection from personal injury that may result from kickback situations:

- Hold the chain saw firmly with both hands and maintain a secure grip.
- Be aware of the location of the guide bar nose at all times.
- Never let the nose of the guide bar contact any object. Do not cut limbs with the nose of the guide bar. Be especially careful when cutting small, tough limbs, small size brush and saplings which may easily catch the chain.
- Don't overreach.
- Don't cut above shoulder height
- Begin cutting and continue at full throttle
- Cut only one log at a time
- Use extreme caution when re-entering a previous cut
- Do not attempt to plunge cut if you are not experienced with these cutting techniques
- Be alert for shifting of the log or other forces that may cause the cut to close and pinch the chain
- Maintain saw chain properly. Cut with a correctly sharpened, properly tensioned chain at all times. Stand to the side of the cutting path of the chain saw

### PUSH-BACK

Push-back occurs when the chain on the top of the bar is suddenly stopped when it is pinched, caught or encounters a foreign object in the wood. The reaction of chain drives the saw straight back toward the operator and may cause loss of saw control. Push-back frequently occurs when the top of the bar is used for cutting.

### TO AVOID PUSH-BACK

- Be alert to forces or situations that may cause material to pinch the top of the chain
- Do not cut more than one log at a time
- Do not twist the saw when withdrawing the bar from a plunge cut or underbuck cut because the chain can pinch.

### PULL-IN

Pull-in occurs when the chain on the bottom of the bar is suddenly stopped. The chain on the bottom of the bar stops when it is pinched, caught or encounters a foreign object in the wood. The reaction of the chain pulls the saw forward and may cause the operator to lose control.

Pull-in frequently occurs when the bumper spike of the saw is not held securely against the tree or limb and when the chain is not rotating at full speed before it contacts the wood.

### TO AVOID PULL-IN

- Always start a cut with the chain rotating at full speed and the bumper spike in contact with the wood.
- Pull-in may also be prevented by using wedges to open the kerf cut.

### WARNING!!!

- Use extreme caution when cutting small size brush and saplings which may easily catch the chain and pull you off balance.
- Never touch a chain with your hand or any part of your body when the engine is running, even when the chain is not rotating.
- The chain continues to rotate for a short period after the throttle trigger is released.
- Do not cut any material other than wood or wooden objects. Use your chain saw for cutting only. It is not designed for prying or shoveling away limbs, roots or other objects.

## LEVELING EQUIPMENT (DUMPY LEVEL)

### APPLICATION

A dumpy level (builder's level) is an optical instrument used in surveying and building with a vertical staff to measure height differences and to transfer, measure and set heights.

### OPERATION AND BASIC MAINTENANCE TIPS

- Make the dumpy level completely horizontal before setting the instrument on top of the tripod
- An assistant is required to hold the staff at the point of measurement
- Look through the level towards the staff to take the measurement
- Be careful not to drop the dumpy level as it will affect the calibration

### SAFETY DO'S AND DON'TS

- This product should not be operated unless proper training has been supplied to the operator



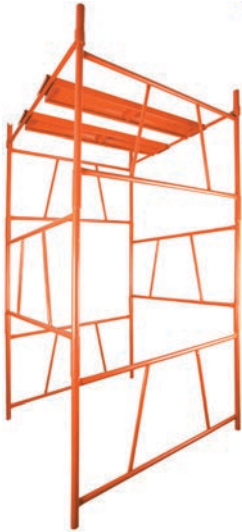
### DUMPY LEVEL

Magnification	<b>AM32 - 32X</b>
Standard Deviation for 1km double-run leveling	<b>+/- 1.0mm</b>
Objective Aperture	<b>40mm</b>
Setting Accuracy	<b>+/- 0.3"</b>
Resolution Power	<b>3"</b>
Image of Telescope	<b>Erect</b>
Working Range	<b>DUAL DUMPING™ (AIR DAMPING + MAGNET DAMPING)</b>
Multiplication Constant	<b>100</b>
Additive Constant	<b>0</b>
Sensitivity of Cercular Level	<b>8'/2mm</b>



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# PAINTING



**PERMISSIBLE HEIGHTS**  
Inside Static Tower:  
1 x Min base dimension;  
Inside Mobile Tower:  
3.5 x Min base dimension;  
Outside Static Tower:  
3.5 x Min base dimension;  
Outside Mobile Tower:  
3 x Min base dimension

## SCAFFOLDING

### APPLICATION

Scaffolding is used to gain access to elevated positions and can be erected quickly by two unskilled people. Used for painting, electrical work, plastering, maintenance work, etc.

### OPERATION AND BASIC MAINTENANCE TIPS

- When relocating towers, care must be taken to ensure they always remain upright
- Particular caution is required when moving on uneven surface
- When the safe base of height ratios are exceeded, the scaffolding should be tied with scaffold tubes and fittings
- No equipment should be on the tower when it is in motion

### SAFETY DO'S AND DON'TS

- Beware of high wind conditions
- Always tie the tower to the building in exposed conditions
- Never leave an unsecured tower unattended
- Never use ladders, boxes etc. on the tower to gain extra height
- Never use the tower near live electrical apparatus or near unguarded machinery

## HP CLEANER / WASHER



**SPECIFICATIONS:** Either electric at 140 bar or petrol at 200 bar; Litres / Minute: 15L/m; Engine: Honda GX390; Weight: 65kg; Dimensions: 670x720x800

### APPLICATION

Ideal for cleaning roofs, paving, floors and walls and preparation for painting.

### OPERATION AND BASIC MAINTENANCE TIPS

- Never run pump without water
- Never run pump with spray gun closed
- Check pump oils regularly
- Before starting the machine check the pump and gearbox oil levels and connect the water supply and open the supply
- Make sure machine is on a level and secure floor

### SAFETY DO'S AND DON'TS

- Use only 20mm or larger diameter supply hose when using suction water supply from a drum. Suction hose must not be longer than 3.5m
- Prime the pump via supply hose with clean water
- Must not run dry - causes damage

## ELECTRIC TILE CUTTER

### APPLICATION

The unit is suitable for cutting wall and floor tiles, split tiles etc. Angle, Double mitre and Jolly cuts are possible.

### OPERATION AND BASIC MAINTENANCE TIPS

- The radial tile cutting machine can be mounted quickly on a serial type support stand
- Ensure the water pump is working correctly to prolong diamond blade life
- Ensure tile cutter is on a level surface and the blade is fastened securely
- Ensure to clean the water tray and area where the water pump is situated after use

### SAFETY DO'S AND DON'TS

- Ensure to keep hands away from diamond cutting blade while it is rotating
- Do not operate item if it is standing in water



**SPECIFICATIONS:** Power: 220w, Mains: 230~50Hz; Idle Speed (rpm): 3000; Cutting Depth: 90°:70mm, 45°:55mm; Table Size: 950x550mm; Cutting Length: 850mm; Mitre Cut: 0°-45°.

## MANUAL TILE CUTTER [125cm]

### APPLICATION

The unit is suitable for cutting wall and floor tiles. Straight and diagonal cuts are possible. Broad tile support table is present.

### OPERATION AND BASIC MAINTENANCE TIPS

- This tile cutter has a sprung metal table with a fixed measurement ruler
- The thickness of the cut is easily adjusted
- Ensure the tile cutter is kept clean
- If the cutting wheel is blunt a replacement is available



**SPECIFICATIONS:** Cutting Length: 125cm; Diagonal Cut: 85cm; Cutting Thickness: 6-20mm;

## MANUAL TILE CUTTER [35/62cm]

### APPLICATION

The unit is suitable for cutting wall and floor tiles. Straight and diagonal cuts are possible. Broad tile support table is present.

### OPERATION AND BASIC MAINTENANCE TIPS

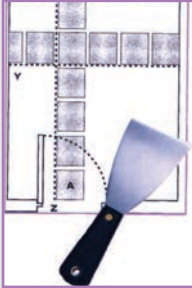
- This tile cutter has a sprung metal table with a fixed measurement ruler
- The thickness of the cut is easily adjusted
- Ensure the tile cutter is kept clean
- If the cutting wheel is blunt a replacement is available



**SPECIFICATIONS:** Cutting Length: 350mm - 2m; Diagonal Cut: 250/430mm; Cutting Thickness: 16/20mm; Weight: 4.6/9.4kg

# TILING

## BASIC FLOOR TILING



- Place a tile in the centre of the doorway and mark a line next to the tile across the floor and at right angles to the doorway. All work will be based on that line.

**NOTE** Line can be moved to the left or right once tiles have been set out to minimise cutting.

- Place the first tile (A) next to line (Z). Lay tiles (without adhesive) along this line leaving space for the tile joints. Use a straight edge or a fixed nylon line to ensure tiles run in a straight line. Once tiles have been set out, mark a line (Y) at right angles to line (Z). Tiles can then be laid along this line. Depending on preference and tile size, tiles can be laid in a half bond pattern, or other desired configurations.
- Without disturbing straight edge (or nylon line) remove loose tiles and apply adhesive to floor with a 10 x 10 x 6mm Notched Trowel. (Do not use the spot or blob method). Apply in squares not larger than one can stretch (• 1/2m) so that surface drying does not occur. If surface is not level, tiles should be buttered with adhesive and then pressed into the wet bed. (Dovetailed or lugged tiles should also be buttered with adhesive before being bedded into wet adhesive). Alternatively, the floor level must be built up in hollow spaces.

**NOTE** All tiles must make 100% contact with adhesive or else damage to tiles will occur. Tap tiles level with a rubber mallet bedding them fully. Lift a tile every couple of metres to check that full contact is being maintained.

- Use Tile Spacers for neat accurate work.

Minimum joint width to be 3mm. Never butt-joint tiles.

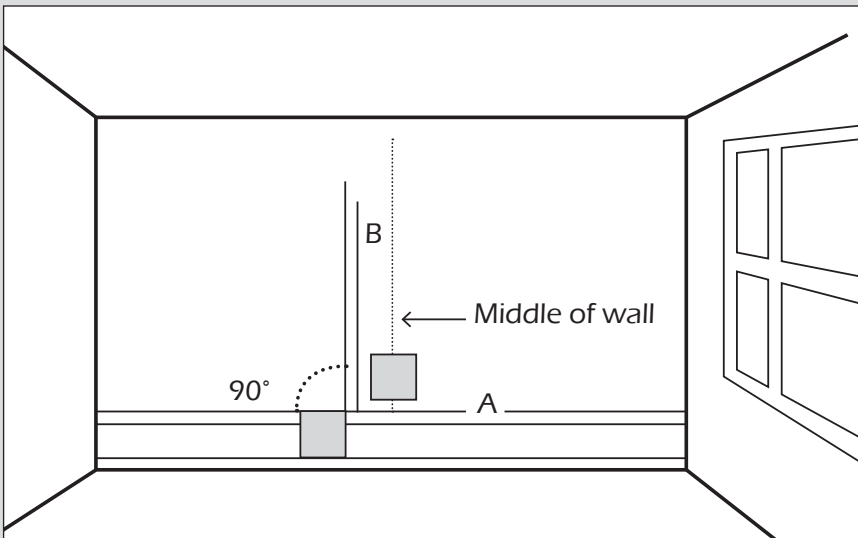
- Cut border tiles to size with a Tile Cutter, or shape with Rod Saw or Tile Nipper.
- Finish off edge of tiles at doorways or on steps with Edge Trim.
- Remove excess adhesive in joints before adhesive sets.
- Allow at least 24 hours drying before grouting joints with Tile Grout. See colour boards and grout specifications.
- Allow for movement joints around the Perimeter of the tiles and at intervals of not more than 4m in each direction. Joints must extend through the adhesive and be filled with a suitable flexible filler.

**NOTE** Make sure floor area is free of all dust and loose material. All paint, oil, bitumen or previous coverings must be removed completely. New screeds to be at least 2 weeks and concrete 4 weeks old. Use only clean water and clean tools. Clean with wet sponge as work proceeds. Do not soak tiles in water.

**Handy tip:** Bring in one of your tiles and let us show you how simple it is to cut tiles. Before you know it you will be doing it yourself and saving time and money. Refer to the simple instructions or come in and talk to us for any technical advice and your bathroom or kitchen can get a new life.

## BASIC WALL TILING

- Find wall's lowest point with a spirit level, and nail wooden batten (A) with its top one tile width from floor (as per sketch). Check that the batten is level, and continue this line around the wall to be tiled.
  - Nail a vertical wooden batten or draw a line (B) at right angles to (A) to obtain a true vertical from which to be tiled.
  - It is advisable to start in the middle of a wall to ensure edge / corner tiles on both sides are cut to equal size for neat appearance. However, tiles should first be set out dry so as to minimise cutting.
  - Read the instructions carefully before applying the adhesive. Use a 6 x 6 x 6mm Notched Trowel and do not apply to areas greater than can be tiled in 15 minutes (• 1/2m). For heavy tiles use a 10 x 10 x 6mm Notched Trowel (do not use the spot or blob method).
  - Use Tile Spacers between tiles for neat accurate work. Minimum joint width to be 1,5mm. Never butt-joint tiles.
  - Bed tiles firmly into the wet adhesive and check vertical and horizontal with a spirit level.
  - Cut edge tiles with Tile Cutter and shape with Rod Saw or Nipper.
  - Finish off edge or tiling around doorways and windows with Edge Trim.
  - Remove excess adhesive in joints before adhesive sets.
  - Allow at least 24 hours drying time before grouting with Tile Grout. See colour boards and grout specifications.
  - Allow for movement joints where wall tiles meet floor tiles at intervals of not more than 4mm in each direction. Joints must extend through the adhesive and be filled with a suitable flexible filler.
- NOTE** Make sure walls are free of all loose material. If previously coated refer to adhesive instructions for the treatment. Use only clean water and clean tools. Clean tiles with wet sponge as work proceeds. Do not soak tiles in water.



# TOILET AND HUT

## CHEMICAL TOILETS



**SPECIFICATIONS:** Chemical toilets have a maximum capacity of 100 litres

### APPLICATION

Chemical toilets are ideal for applications where a temporary toilet cannot be connected to the municipal sewerage system or in rough construction environments where high volume usage of connected toilets causes the sewerage to block.

They are also very popular for providing extra short term toilet facilities at functions such as sport events.

### OPERATION AND BASIC MAINTENANCE TIPS

All chemical toilets are delivered on site and serviced according to the appropriate service option.

### SAFETY DO'S AND DON'TS

- For services, access with a seven ton truck is required during normal business hours
- Please do not move toilets, obstruct access or lock toilets
- Do not over-utilise toilets, please stay within the utilisation guidelines provided above

## SHEDS



**SPECIFICATIONS:** We offer 3 sizes, namely:  
- 2.1m x 2.4m optional window  
- 2.1m x 3.6m with window  
- 2.1m x 4.8m with window

### APPLICATION

Corrugated iron sheds are ideal for temporary storage and accommodation on construction sites.

### OPERATION AND BASIC MAINTENANCE TIPS

On site maintenance to sheds are done on client request or when required.

### SAFETY DO'S AND DON'TS

- It is the client's responsibility to safely secure the shed to the ground to prevent wind damage
- Please do not move sheds, contact Coastal Branch if a shed needs to be moved
- Please ensure that a shed has been emptied and that it is accessible by motor vehicle before requesting collection



## CENTRIFUGAL WATER PUMP

### APPLICATION

Used for pumping water out of swimming pools, removing rain water from trenches, rivers and reservoirs. Some are mounted onto water carts for pumping water out of the tanks etc.

### OPERATION AND BASIC MAINTENANCE TIPS

- Always check oil level and air filters of the engine before starting the machine
- Always prime the pump when first working with it, thereafter it will not be necessary
- Make sure that the strainer is always fitted to the end of the suction hose
- Always use rubber O-ring on hose

### SAFETY DO'S AND DON'TS

- Never try to work on the pump while the engine is running
- Never start the machine up without water in the pump body



**SPECIFICATIONS:** Prime Mover: 5.5hp petrol engine fitted to a 50mm or 80mm water pump mounted in a round tubing frame; Type: Centrifugal; Size: L x B x H: 420 x 380 x 440mm; Weight: 28kg. Accessories: 2 wing nuts, 3 nipples, 1 strainer and 3 clamps

## SUBMERSIBLE PUMP

### APPLICATION

For pumping clear water from swimming pools or other clean water sources. It is cheaper to use than an engine driven pump, if a drive unit is available on site.

### OPERATION AND BASIC MAINTENANCE TIPS

- The flex drive should not be bent to any extreme degree as damage to the inner core will result
- Drive unit engine should be set at 2850 rpm
- The pump should not be allowed to run dry (submerge completely)
- Never fit the pump to the drive unit while engine is running
- Check debris on the inlet areas regularly to ensure efficient working pump
- Lay flat hose is connected with a clamp to the outlet flange
- Layflat should not be obstructed

### SAFETY DO'S AND DON'TS

- Never handle the head of the pump while engine is running
- Make sure that the submersible pump is locked into the drive unit properly before starting the engine
- Don't let the pump run dry or leave it unattended any length of time
- Don't place pumphead in mud or sand



**SPECIFICATIONS:** Cast iron suction head pump with 50mm outlet with 6m flexible drive; Capacity: 650 litres/minute; Max suction head 5.5m, total head 16m; Drive: 5hp petrol drive unit.

# CONTACT NUMBERS

## HEAD OFFICE

Tel: 011 314 4844  
E-mail: headoffice@coastalhire.co.za  
Toll free: 080 8665 4473

## EASTERN CAPE STORES

East London 043 722 0179  
King Williams Town 043 101 0042  
Mthatha 047 532 4059  
Port Elizabeth 041 581 1440  
Queenstown 045 838 1518

## FREE STATE STORES

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Bloemfontein 051 448 7526  
Harrismith 058 622 1201  
Parys 056 811 4636

## GAUTENG STORES

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Benoni 010 140 5787  
Boksburg 011 894 4145  
Boksburg (Leroy Merlin) 010 442 1069  
Bronkhorstspuit 013 932 2429  
Bruma/Ellis Park 011 624 3030/1  
Centurion 012 653 2551  
Edenvale 011 454 4013  
Fourways (Leroy Merlin) 081 711 4168  
Greenstone (Leroy Merlin) 010 493 8090  
Kempton Park 011 979 4848  
Little Falls (Leroy Merlin) 076 671 2355  
Montana 012 944 2453  
Midrand 011 805 7184  
North Riding 011 708 3233  
Pretoria East 012 807 0091  
Pretoria North 012 546 9875  
Randburg 011 326 1298  
Silverton 012 804 7782  
Vereeniging 016 421 3411  
West Rand 011 955 6889

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Durban South 031 201 7705  
Kokstad 039 727 1110  
Ladysmith 036 637 6910  
Newcastle 034 312 2177  
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Lydenburg 013 235 1171  
Malalane 013 790 1526  
Marloth Park 072 202 0326  
Middelburg 013 880 0330  
Nelspruit 013 752 2825/4118  
White River 013 751 5713  
Witbank 013 692 4219/7

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Klerksdorp	018 468 2631
Lichtenburg	018 632 2126
Mafikeng	018 381 5706
Rustenburg	014 592 6288
Vryburg	060 549 9610
Zeerust	018 642 1438

## NORTHERN CAPE STORES

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Kuruman	053 712 0706
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## WESTERN CAPE STORES

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Bredasdorp	028 425 1833
Cape Town City	021 424 4900/1
Claremont	021 683 9905
Constantiaberg	021 701 0344
George	044 873 6362
Hermanus	028 312 1339
Knysna	044 382 1362
Langebaan	022 125 0149
Malmesbury/Swartland	022 487 3105
Montague Gardens	021 552 1526
Mossel Bay	044 695 2594
Paarl	021 862 0341
Plettenberg Bay	044 533 2205
Rivergate	021 565 0665
Somerset West	021 854 4432
Stellenbosch	021 887 8449
Swellendam	028 514 3709
West Coast/Vredenburg	022 125 0149

## TOILET & HUT STORE

Toilet & Hut Pretoria	012 546 9875
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## MAURITIUS STORE

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## MOZAMBIQUE STORE

Maputo	00258 2172 0991/2
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## NAMIBIA STORES

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## ZAMBIA STORE

Lusaka	0026 095 060 0900
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