



SURFACE SCARIFIER

SP8 - Petrol

OPERATING INSTRUCTIONS



WARNING

To reduce the risk of injury, all operators and maintenance personnel must read and understand these instructions before operating, changing accessories, or performing maintenance on this power equipment. All possible situations cannot be covered in these instructions. However care must be exercised by everyone using, maintaining or working near this equipment.

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INTRODUCTION

Thank you for your selection of equipment supplied by Parchem, we have specialised in quality products for over 50 years.

Should service or spare parts be required, prompt and efficient service is available from our branches.

It is essential that the operator takes particular care to use the machine properly and minimise any potential hazards to himself or others. We recommend that all operators and service personnel read, understand and follow this manual.

APPLICATIONS

- Asphalt levelling & grooving
- Carpet backing removal
- Coating removal
- Concrete grinding
- Concrete & steel surface preparation
- Concrete grooving
- Epoxy removal
- Expansion joint levelling
- Floor cleaning steel & concrete
- Glue / Adhesive removal
- Milling joints
- Non-slip removal
- Paint removal
- Steel descaling
- Traffic line removal
- Wheelchair ramp levelling

FUNCTIONS & CONTROLS

SPS MACHINE

The SPS is a walk behind machine, basically designed to be a scarifier, but by using different cutters, arranged in a variety of manners on the cutter heads or cages, a broad range of textures and finishes can be produced.

This multi-purpose machine will produce results ranging from scabbier to scarifier.

CAGE / DRUM DEPTH CONTROL KNOB

Rotate clockwise to raise unit and counter clockwise to lower unit.

DRIVE BELT

Tension of the drive belt is adjustable. Loosen the four nuts on the bolts which secure the motor to the base plate, Adjust the set screws which bear against the motor crankcase to achieve the required belt tension.

MOTOR

The motor speed is controlled by a remote throttle lever which is mounted above the air cleaner. To STOP the machine press the push button mounted on the handle or below the fuel tank.

ACCESSORIES

REPLACEMENT CUTTERS

Steel / Tungsten carbide

EDGER ATTACHMENT

For crack chasing

REPLACEMENT CAGES / DRUM ASSEMBLIES

Are available from your Parchem branch

HAZARDS AND RISKS

NEVER allow any person to operate a machine without adequate instruction.

ENSURE all operators read, understand and follow the operating instructions.

SERIOUS INJURY may result from improper or careless use of this machine

! MECHANICAL HAZARDS

DO NOT operate the machine unless all protective guards are in place

KEEP hands and feet clear of rotating and moving parts as they will cause injury if contacted.

ENSURE that the electricity supply to the motor is disconnected/ isolated before removing guards or making adjustments.

ENSURE both the machine and the operator are stable by setting up on level terrain and the machine will not move or fall while in operation or unattended.

DO NOT leave the machine in operation while it is unattended.

ENSURE that the area to be milled does not contain any "live" electrical cables, gas, water or communication services which may be damaged by the action of the unit.

EXERCISE CARE when operating unit. Exposure to vibration or repetitive work actions may be harmful to hands and arms.

NEVER stand on the unit while it is operating.

KEEP bystanders and animals clear of the work area.

WEAR snug fitting clothing and ensure no clothing, hair or jewellery can become entangled in machine.

! FIRE & EXPLOSION HAZARDS

PETROL or diesel is extremely flammable and explosive under certain conditions.

ENSURE that petrol or diesel is only stored in an approved storage container away from source of ignition.

DO NOT refuel the motor while it is in operation or hot.

DO NOT refuel the motor in the vicinity of ignition source such as sparks, a naked flame or a person smoking.

DO NOT over fill the fuel tank and avoid spilling petrol when refuelling. Spilled petrol or petrol vapour may ignite. If spillage occurs, ensure that the area is dry before starting the motor.

ENSURE that the fuel tank cap is securely fitted after refuelling.

Ensure fire extinguisher is readily available for use.

! CHEMICAL HAZARDS

DO NOT operate or refuel a petrol or diesel motor in a confined area without adequate ventilation.

CARBON MONOXIDE exhaust gases from internal combustion motor driven units can cause death in confined spaces.

Check TLV (Threshold Limit Value) and oxygen content of area safe for operation.

! NOISE HAZARDS

EXCESSIVE NOISE can lead to temporary or permanent loss of hearing.

WEAR an approved hearing protection device to limit noise exposure. As required by Occupational Health and Safety regulations.

! PROTECTIVE CLOTHING

ALWAYS wear approved hearing protection. Protective dust mask, goggles, footwear and clothing may also be necessary.

! ADDITIONAL HAZARDS

Surface prep machines are heavy and should be positioned by two people of appropriate strength. Using the lifting handles provided on the machine, along with correct lifting techniques.

Slip/Trip/Fall is a major cause of serious injury or death. Beware of the power lead and dust left on the walking or work surface and uneven or slippery surfaces.

Exercise care when working in the vicinity of unprotected holes or excavations

BE CAREFUL when operating unit around pipes sticking out of the floor or other obstacles. Should the cage/drum catch on these, serious damage to the machine or harm to the operator may result.

OPERATION

Use unleaded grade petrol and ensure that the fuel is free from contamination.

OPERATING SUGGESTIONS

With any machine there are tricks to using them that make them work more efficiently. Never force the cutter head into the surface to a point where the machine starts to bounce. This will minimise results and do more damage to the machine than the work surface. Also, excessive vibrations will make it awkward, if not uncomfortable, for the operator to handle the machine. Let the cutters do the work, but make sure you have the best cutter/cage assembly for the job. The key to effective usage of any tool, is operator comfort and familiarity with the tools capabilities. Experiment and try different combinations of cutters and cage set ups for different applications. Specific set ups described may be adjusted as needed for the specific use.

Working the machine in a figure 8 pattern, when milling misaligned concrete slabs or joints will produce more aggressive removal of material. The cutters will work against any grooves and tend to

produce more consistent and faster removal of material. Moving the machine in a straight line tends to create grooves that the cutters will follow. The tungsten carbide tipped cutters produce the longest life in milling applications and should be considered as the best choice, in spite of the higher initial costs. Your time is expensive and when you have to take time to change cutters or even cutter assemblies you are not using the machine to make you money.

When using the SPS to mill concrete, the tendency is to produce low spots. Work the left side or belt guard side, riding on the high side of the cut, if possible. Regularly check that the ' drive pulley is aligned properly and secured to the drive shaft.

When using any cutter cage assemblies, try to maintain equal height adjustment of the cage against the work surface. Always let the cutters do the work.

Grooving set ups are possible with the SP8 in as many configurations as you need. The normal set up of the R123 uses cutters spaced with 25mm centres braced by tension springs. They could also be set up with other centres, but bear in mind that they must always be tensioned to maintain the path you require. Checker board effects are possible by working the machine at 90 degrees to the path first established.

When using the edger attachment for crack chasing try the following method. Mark the front of the edger with a chalk guide line to correspond to the starting point of the crack. Lower the head into the crack and push the machine forward along the fault line using the chalk mark as the steering guide. Using carbides gives the longest life, but B-2 and B-3 cutters may also be used in the set up. Always tension the cutters in the cage with spring load to maintain a consistent path.

CARE AND PREVENTIVE MAINTENANCE

Check the oil level in the motor crankcase daily.

Inspect the rubber anti vibration mounts for wear or deterioration.

SERVICE

Change the oil in the motor crankcase regularly to minimise wear.

Inspect, clean and/or replace the motor air cleaner regularly, particularly when operating in a dusty environment.

Inspect, clean and/or replace the spark plug regularly.

Check vee belt tension, wear and that it is running true, adjust or replace as required.

Check all fasteners for tightness as the machine is subject to vibration.

SPECIFICATIONS

MODEL SP8H MOTOR

Model	Honda GX160, 4.1kw output Governed Speed 3,600 r/min
Weight	58kg
Size (l x w x h)	870 mm X 400 mm X 1000 mm



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