Bartell

SURFACE PREPARATION SYSTEM

SP8-Electric

SUPPLEMENTARY 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 Bartell power equipment. All possible situations cannot be covered in these instructions. 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 Flextool.

These instructions should be read in addition to Bartell Industries Inc Instruction Manual for the Surface Preparation System.

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 scabbler to scarifier.

Cage / Drum Depth Control Knob
Rotate clockwise to raise unit and counter clockwise to lower unit.

Power supply
This machine is only to be operated from a 15 amp outlet.
Electrical power is controlled by an on/off switch which is mounted on the handle. To STOP the machine turn the rswitch to the OFF position. A thermal overload protection device is fitted to the motor. If the motor stops, switch the machine OFF, determine the cause of the problem, allow the motor to cool, then press the reset button. If the motor fails to start, check the power supply, fuses or circuit breaker and lead.

ACCESSORIES

Replacement Cutters
Steel / Tungsten carbide

Edger Attachment
For crack chasing

Replacement Cages / Drum assemblies
Are available from your Flextool branch

HAZARDS AND RISKS

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

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

SERIOUS INJURY could result from improper or careless use of this machine.

! MECHANICAL HAZARDS

Always be sure the equipment will not tip over, roll, slide or fall when operated

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

ENSURE that the material to be milled does not contain any “live” electrical cables.

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.

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

KEEP bystanders and animals clear of the work area.

! ELECTRICAL HAZARDS

THE RISK OF SERIOUS OR LETHAL INJURY FROM ELECTRICAL SHOCK may arise from the combination of electricity and moisture.

ELECTRICAL HAZARDS may be high due to the careless use of equipment and extension leads.

USE AN ELECTRICAL SUPPLY EQUIPPED WITH A RESIDUAL CURRENT DEVICE (RCD) for protection against electrocution. A RCD is an electronic protection device that is available for connection between the power source and the equipment. It is designed to monitor the balance of the current flow in the active and neutral wires of the plugged-in equipment and immediately trips before a fatal amount of power can pass through the operator. The RCD can be permanently wired at the supply switchboard or inserted as a removable plug-in device in the electric cable, in which case it should be located as close to the supply as possible with the RCD located before any extension leads.

INSPECT the supply lead & plug daily for damage.

ONLY use the machine with a correctly earthed 15 amp outlet.

ONLY operate the machine using 15A extension leads.

ONLY use the machine with the protective 15A supply lead. Keep the supply lead clear of the machine and rotating cutter/drum assembly.

ENSURE that repairs to the electric motor and wiring are carried out immediately by QUALIFIED personnel.

DO NOT hose the machine while the electrical supply is connected.

! 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 dustr left on the walking or work surface.

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

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 SPS 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. Checkerboard 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

Inspect the rubber anti vibration mounts for wear or deterioration.

SERVICE

Check the vee belt for wear and replace as required.

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

SPECIFICATIONS

MOTOR

Speed 3000 r/min

WEIGHT

SP8-G 58kg.

SHIPPING

Size (l x w x h) 870 mm x 400 mm x 1000 mm

WARRANTY

BARTELL products are covered by warranty for a period of ninety (90) days from the date of purchase against defects in material or workmanship provided that:

- The product concerned has been operated and maintained in accordance with the operating instructions.
- Has not been damaged by accident, misuse or abuse.
- Has not been tampered with or repaired by any unauthorised person.

The owner is responsible for the cost of transportation to and from the authorised repairer and the unit is at the owners risk while in transit to and from the repairer.

SPARE PARTS AND SERVICE

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