

SRS4000 ~ SRS2000 Solder Recovery System



New Advanced Design

Designed & Manufactured by Earth Tronics Inc. The new SRS represents a quantum leap forward in the processing of solder dross. Its sleek lines confirm its streamlined systems, advanced electronic controls and integrated diagnostics. Extensive feedback from the market has enabled Earth Tronics Inc. to offer a machine that satisfies the high standards required from a modern manufacturing environment particularly with regard to reliability, ease of operation, maintenance and environmental management.

Capacities from 6kg to 18kg

Offering capacities of 6kg (SRS2000) or up to 18kg (SRS4000) the new SRS has (in most cases) the facility for single operation dedrossing of even the largest wave soldering machines. Its large integrated hopper makes rapid transfer of dross both simpler and safer.



Quality

Independent assay reports by many users confirm that recycled solder ingots are of exactly the same specification and quality as that in the solder bath and can immediately be reintroduced into the process.

Unique Patented System

The process used by the new SRS is unique to Earth-Tronics Inc. and protected world-wide by established and pending patents. Simple in concept but revolutionary in its effect it breaks new ground in the efficient regeneration of waste in a shop floor environment.

Health & Safety Enhanced

The new SRS is an enclosed automated system. Hot dross is loaded into the large hopper and sealed into the machine. The process, once started by the operator, recovers the solder into a solder tray and deposits the spent dross through a chute to a covered dross bin. Fumes are extracted via a powerful stand alone four part filtration system, which ensures that the emitted air is usually cleaner than the surrounding workplace.

An optional Hopper Extraction System can be utilised to prevent the escape of any fumes and dust which may be generated when loading.

An automatic air-knife can cool the molten solder ingots until safe to handle. Premature removal of the ingot tray is prevented by a safety lock.

Handling and moving of lead contaminated dross is reduced to a minimum and dust emission is contained within the chute mechanism.

Extensive safety features are built into the machine protecting against misuse and abuse. A variety of switches and sensors are deployed and electrical and electronic circuitry is fuse protected.

Maintenance is assisted by prompts from the LCD read out and facilitated by easy access to all working parts of the machine. Routine cleaning can be carried out from a comfortable standing position.

Simple to Use

The new SRS is designed for simple one person operation on the shop floor utilising existing staff. There are no complex installation procedures, just plug it in to a single phase supply and a six bar airline and it is ready to go.

Once the new SRS has reached operating temperature, hot dross can be loaded and the hopper door shut. After the start button has been pushed no further operator intervention is required until the solder ingots are removed. The cycle takes six minutes plus cooling time.

The new SRS is managed by an advanced microprocessor control system integrated into the cover structure. Its clearly labelled fascia includes function buttons, an LCD display and LED indicator lights.



The LCD and LEDs indicate operational data such as:

- Temperature of chamber (before start)
- Ready light on
- Cycle time elapsed (after start)
- Position of piston and door
- Total Cycles completed

Built in safety devices stop the machine if the hopper door or cover are lifted, or the solder tray is not in position during operation. An emergency stop button is fitted. Recovered Solder is dispensed to a Solder Ingot Tray and can either be stored or reintroduced to the process. Spent dross is dispatched through a sealed chute to a dross bucket which can easily be removed when full.

Fumes are automatically extracted via a high efficiency stand alone filter which consists of a four part filtration system - Pre filter, Filtreat (synthetic HEPA), HEPA and Charcoal. Alternatively the machine can be plumbed into an existing factory air filtration system.

Maintenance, Fault Finding & Diagnostics

The advanced controls of the new SRS enables the user to perform comprehensive system diagnostics via its LCD readout and system of LEDs - without recourse to external equipment.

Routine maintenance is indicated by messages showing 'Interim Service' and 'Full Service'.

Operating faults are indicated by a short description on the LCD readout.

The Auto/Manual key switch enables the machine to be put into 'Manual' mode for maintenance purposes.

A comprehensive operating and maintenance manual is supplied with the machine and training and support is provided by the manufacturer or local distributor.

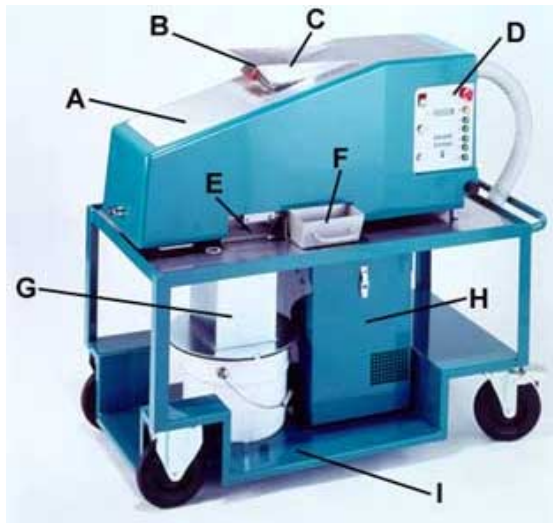
Safety Features

Fail safe safety switches fitted as standard together with emergency stop, automatic over temperature cut out, fully protected circuitries, CE approved, also complies with current machinery directives.

Warranty

The SRS has a 1 year warranty or 2000 cycles whichever is soonest.

Specification



- A. Stainless Steel Apron
- B. Magnetic Door Safety Switch
- C. Large Hopper and Door
- D. Advanced Microprocessor, LCD Readout, LED indicators
- E. Tray Lock
- F. Large Double Ingot Tray (SRS 4000)
- G. Adjustable Drop Through Dross Chute
- H. Powerful Stand-Alone Filter
- I. Rugged Steel Trolley

Dimensions:	SRS2000 Range	SRS4000 Range
Width:	370mm	370mm
Height:	410mm	410mm
Length:	1080mm	1080mm
Nett weight:	70kg	70kg
Power Requirement:	200 - 240v 50Hz/60Hz single phase 2.2 KVA	
Dross input:	6 kg	Up to 18kg
Solder ingot capacity:	Up to 4kg	Up to 12kg

Controls:

Power On Button, Start Button, Cycle Light, Ready Light. LCD display indicating temperature, cycle time, cycles elapsed, fault status, maintenance status. Auto/Manual key switch and Mode button. Cover lock with automatic cut out, hopper door with automatic cut out and magnetic tray position sensor.

Filtration:

The Stand Alone Filter incorporates a fan/filtration unit consisting of a 4 part filter - a Pre-filter, a Filtreat, a HEPA filter, and an Activated Charcoal filter, filtering out particulate matter down to less than 1 micron.