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SA150 SURFACE ABRADER



The SA150 Surface Abrader is a system to provide uniform cleaning or abrading of the top surface of parts. Parts are carried on a 150mm wide belt through a closed blast chamber where two micro abrasive nozzles sweep across the top surface of the parts. A Comco Powerflo PF2400 or Directflo DF1400 is integrated into the system to control the abrasive blast functions.

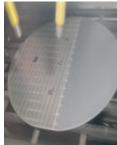
The SA150 is a compact free-standing system using a 600mm long conveyor made up of a large number of round abrasion resistant polyurethane belts. The conveyor surface is 1100mm above the floor, with operator loading parts to the left of the blast chamber and unloading to the right.

The cleaning or abrading effect will vary, depending on a number of factors including: type of abrasive media, air pressure, speed of the nozzle sweep, the belt index step, height of nozzle above surface, and the number of passes across the part. The process can handle very delicate parts by the selection of soft abrasives and operating at a lower air pressure. The height of the nozzles will also affect the area of the part to be covered with each pass. Positioning the nozzles so they just overlap at the surface provides a uniform finish without streaks or lines.

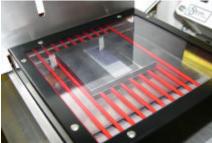
Uses for the SA150 include: cleaning the back side of silicon wafers, etching optical filters, MEMS and micro-fluidic devices through photo resist masks, cleaning pads on hybrid circuits, removing slag from capacitor chips before termination, cleaning solder mask from PCB's, and texturing connector insulator surfaces prior to bonding.

The SA150 Surface Abrader is available in continuous belt feed or precision stepping belt models. A system to meet your specific requirements can also be configured. Contact us for further details.









COMCO INC Micro-abrasive Blasting Systems for Surface Preparation & Texturing, Parts Cleaning, Deburring, Mold & Die Cleaning, Conformal Coat Removal www.epakelectronics.com



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SA150 SURFACE ABRADER SPECIFICATION

60)

Machine Frame dimensions Approx 800 x 800 x 1000 High (operating)

CONVEYOR

150mm wide x 600mm long.

Pulleys 50mm diameter

Belts Polyurethane 4.5mm diameter on 10mm pitch

Speed 15mm/sec

Step length Adjustable by operator 1mm to 50mm

INDEXING HEAD

Swept length 0 to 170mm

Approx speed 250mm/s full stroke

Two nozzle head, Height adjustable 0 to 100mm

ENCLOSURE

Steel

Glass Viewing Panel 275mm x 150mm (255mm x 140mm glass protector tear offs)

LV Lighting 12V 15W

Extract duct 120mm diameter OD.

Interlock Air flow Switch

Part sensor

CONTROL

Jog Backwards and Forwards

Run

Stop

Reset

Program and selector buttons (on HMI)

Program RUNNING indicator lamp

Program COMPLETE indicator lamp

GUARD OPEN/VAC OFF indicator lamp

Cooling 1 x Fan 1 x filtered inlet

Outlet 1 x Shuco 240V 50Hz 0.5A for PF2400/DF1400

Connector PF2400 unit for data transmission

CONTROL PARAMETERS

HMI two line LCD with program and menu buttons allowing setting of following parameters

Indexing Mode Conveyor index distance 0.3mm to 50mm

Max component size 150mm x 150mm x 20mm

Head traverse speed 1 to 250mm/s

Head traverse distance 0 to 170mm

Number of passes of head per index step 1 to 99

Start position offset

Reprocess Steps 0 to 99

INTERLOCKS

Leading edge sensor. PNP

Abrader Low Powder (PF2400 only)

Abrader Fault (PF2400 only)

Abrader Running (PF2400 only)

Extraction 'ON' and Guard Closed

SYSTEM REQUIREMENTS

Power 220v / 50Hz 1 ph

Clean dry air supply

Up to 340 SLM for PF/DF Series Blasters

<200ppm moisture

<10ppm oil

<5 micron particulate

Comco PF2400-2CE Production Blaster - to 140 psi.

Tank capacity 4.5 kg. Tall Tank version tank capacity

9kg.With "Quick Fill" system. Powdergate TM equiped.

Dust extraction system

OPTIONS

1 to 3 nozzle holders available (2 nozzles on std system) Precision Nozzle Holder with vertical angle adjustment. 110v 60hz Version

Belt end sensor

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