

Cathode Ray Tube (CRT) separation device

WE KNOW HOW





Technical data

- Main dimensions: W x D x H: **approx. 3200 x 1800 x 2200 mm**
- Transformer capacity: **3200 VA**
- Total weight: **approx. 800 kg**
- Machine capacity: **depending on size of cathode ray tube**
50-60 cathodes ray tubes/hour



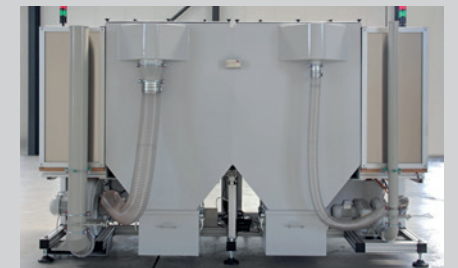
Preparation for separation



Heating wire on the dividing line



Suction of the fluorescent layer



Rear view of the filter unit

CATHODE RAY TUBE (CRT) SEPARATION DEVICE

Functional description

The URT cathode ray tube separation device, type CRT, separates front and cone glass of the cathode ray tubes from each other by making use of the so-called heat wire technology. Front and cone glass will be separated at the connecting line of both glasses. The funnel glass is the lead-containing, funnel-shaped rear part of glass from the cathode

ray tube. A wire made of nickel-chromium alloy will be placed at the connecting line around the screen. The different glasses will be separated by heating up the wire and by the consequently resulting tension of the glass connecting line. The fluorescent layer, which could possibly contain harmful substances, will be manually removed by the integrated vacuum cleaner, af-

ter opening the cathode ray tube. Subsequently, the different types of glasses and the separated metal parts are transported to further reutilisation. The fluorescent layer will be pulverulent collected in a collecting container.

Design of separation device

The separation device contains of aluminum profiles with partially transparent linings and is equipped with two workplaces which will be operated by one person. Both workplaces are permanently sucked off. The exhaust air will be sucked off by a dust filter. Both cabins have lights. The suction of the cabine air is separated from the suction of the

fluorescent layer. The work bench itself is infinitely height-adjustable.

Details of the device

Treatment of different screen sizes will become considerably easier by an automatic wire tension. With a glass cutter a horizontal groove is cut at the point of separation into the glass. This way, it is easier to fix the wire. Height adjustment of

screen inputs is motorized. The determination of the separation edge of both types of glass is supported by a laser contour. A vacuum exhaustor fixes the cathode ray tubes on both turn tables.



One-stop planning, production, delivery and service



Factory Karlstadt, Germany



Shop Assembly



After-Sales-Service



Design Department