

CRT SCREEN DISASSEMBLING MACHINE

The newly developed TDO-2 screen disassembling machine from the company AQUATEST a.s. is a progressive means of separating the screen and cone parts in order to safely remove the luminophore which is then treated as hazardous waste.

In contrast to the previous machines which separated the screens using a diamond-tipped blade this technology uses a thermal shock method. This leads to an increase in the amount of screens which can be treated per hour (approx. 2x), a lessening in the production of dust and noise and a significant reduction in investment and operational costs.



Principle of screen separation

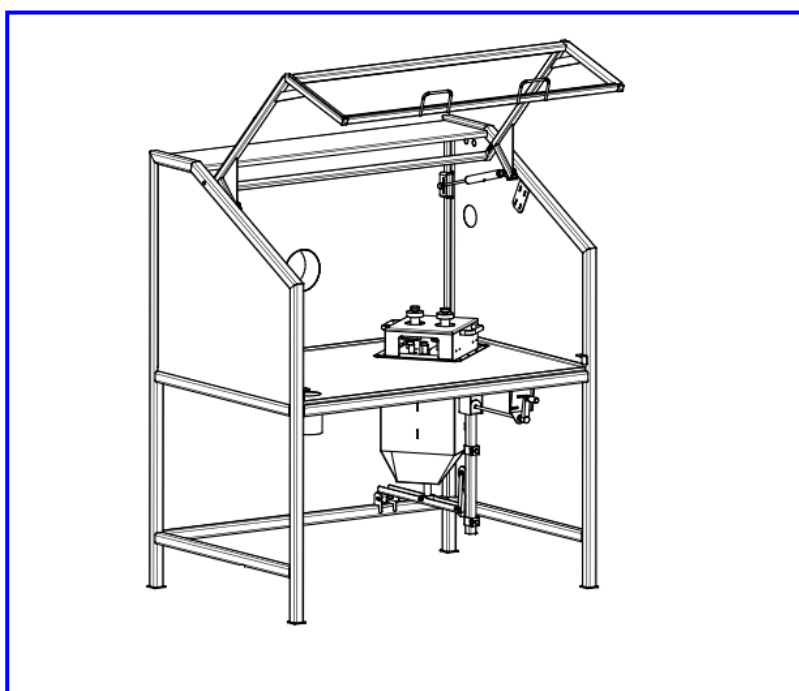
Thermal shock caused by passing a resistant heated strip around the whole circumference of the screen.

Brief description of the screen separation

The screen is placed on the working table with the glass screen part facedown and tightly positioned against the conductive segments of the resistant strip holder, the height is then adjusted based on the size of the screen and the resistant strip is manually fastened and tightened using a foot pedal.

The heating time is then set and at the press of a button the strip is heated to separate the screen.

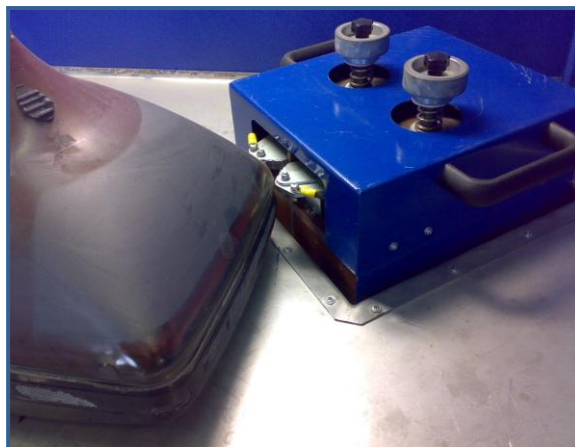
After the screen has been separated it is possible to remove the conus part of the screen and the metallic mask and the luminophore can be easily removed from the screen using the special vacuum extractor and collected in the collection bag.



Screen disassembling machine accessories

Part of the supplied technology is an industrial vacuum extractor for vacuuming the working area of the machine. The filtration chamber is fitted with a filter cartridge with a manual shaker. The air from the vacuum extractor can be returned back into the working environment.

The technology is also supplied with a luminophore extractor with 4 filters including a HEPA micro filter which effectively and safely removes the luminophore from the screen and stores it securely in a collection bag.



Technical parameters

	TDO-2
Maximum screen diameter	Up to 81 cm
Capacity – number of treated screens	25 to 40 pc/h (200pc/shift) based on type of screen
Screen separation time	30 to 60 s
Power supply	3x400/230V, 50Hz, N+PE
Total power input	5,2 kW
Dimensions	1330 x 930 x 1603 mm
Weight	167 kg

CERTIFICATE

screen disassembly machine

pursuant to Directives 98/37/ES,
2006/95/ES a 2004/108/ES

Issued by the Brno Institute for
Mechanical Testing



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