

CRT CONE-GLASS CLEANING LINE

Removal of graphite, scalded aluminum, paints with iron oxides and further impurities from cones from the screen disassembling line is required prior to further processing in glassworks. The cleaning method is based on the physical-mechanical principle of coating removal in a special technology unit. With this technology it is possible to clean not only the cones, but also mixed glass, screens and cones together should separation not be possible.

The cleaning technology provides the following:

- Separation of cone based on glass type (performed through processing in screen disassembling machine)
- **Continual** or **discontinual** cleaning by physical-mechanical rasping with subsequent removal of impurities from glass
- Glass sorting by grain size with removal of impurities – graphite, aluminum, acrylic paints with iron oxides and other impurities



Technology can be complemented with:

- Crushing to required grain size
- Magnetic separation of iron cone-parts – grinding rings and Fe abrasion
- Removal of non-ferrous metal using a detection system with subsequent pneumatic separation

Modification of this technology can be used for the cleaning of amortized fluorescent tubes and waste mirror glass.

The technology works in a dry environment and hence extraction of dusty parts must be provided – supply of intensive extraction technology is included.

Advantages of dry fragment cleaning technology:

- It does not require an expensive water system, no related problems with disposal of hazardous sludge created by wet cleaning methods.
- It is not necessary to provide a heated working environment – no danger of freezing of technology in winter.



The equipment is patented.

Parameters of the continual line:

- capacity 1,5 t/hour
- electricity supply 15 - 20 kW/hour
- quality of the cleaned glass fully meets client's requirements

The line is manned by two workers, who monitor the progress from the control room and adjust the volume of processed glass and the cleaning period based on quality parameters of the cleaned glass taken from the control computer.

Parameters of the discontinual line:

- operational filling capacity 250 kg
- electricity supply 10 kW
- period of 1 cycle – approx. 30 min (including loading and unloading)



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