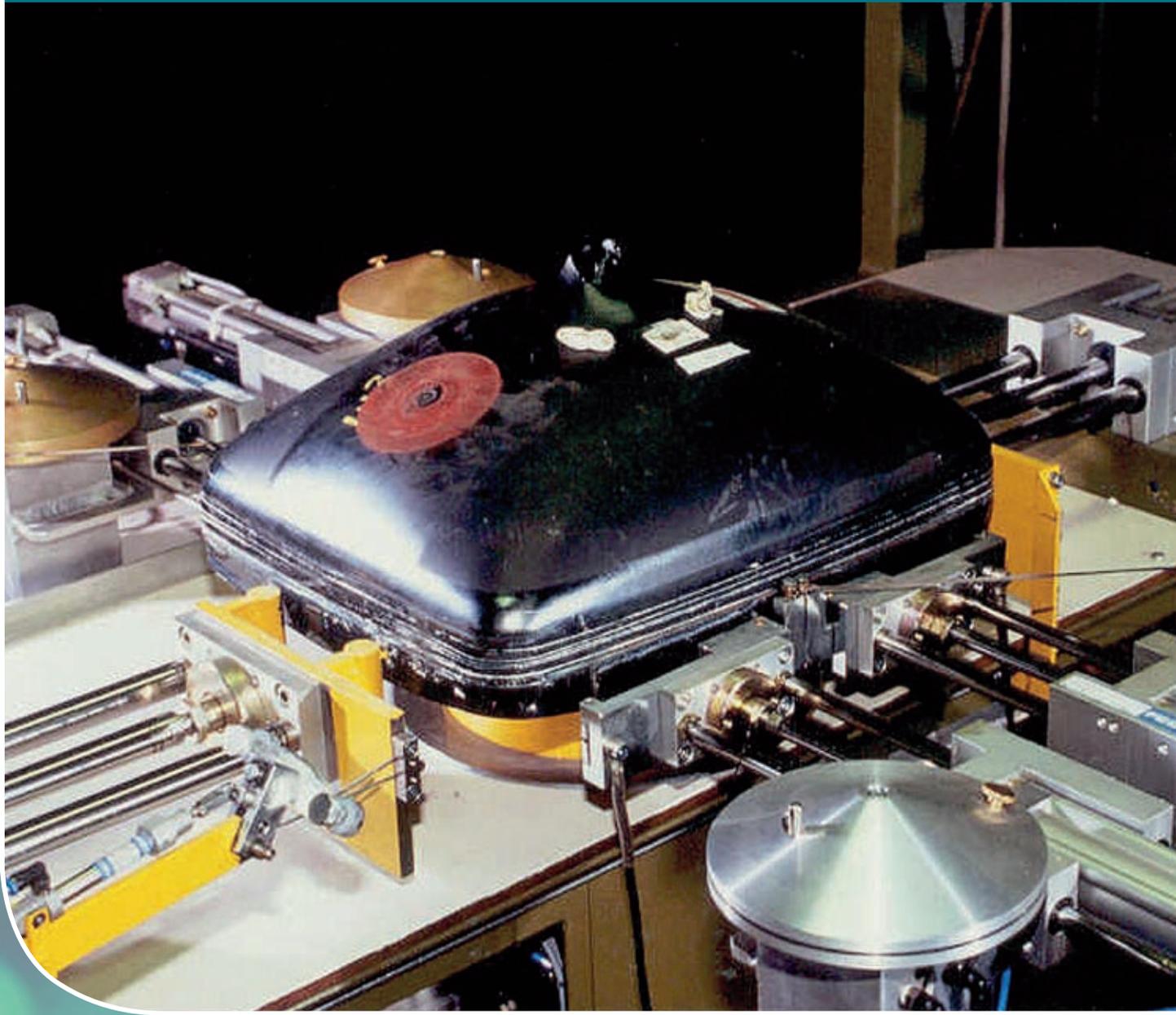


MRT CRT Separator Hot Band Technology



MRT
SYSTEM

The CRT Separator using the hot band technology is a thermal forced disassembling system for Cathode Ray Tubes.

Like any other product in the MRT portfolio, the CRT Hot Band Separator operates very safely, efficiently and in accordance with the strictest environmental regulations. The Hot Band Technology improves the heat transfer on the tube achieving an accurate separation. MRT provide two types of Hot Band Systems: automatic and manually operated.

The high accuracy on the cut which separates the Cathode Ray Tube into panel and funnel glass fractions gives the possibility to add more recycled glass into the glass melt for energy- and raw material savings.

The CRTs are placed in the implosion protection removal station stripped from housing and electronics. At this point the vacuum is released, stickers, electronic gun and implosion tape removed. In the separation station the CRT is centred by two clamping chucks, the screen-size is measured and the processing height is automatically set. To make the separation of the CRT more accurate and the heating time shorter a scratch around the screen is made. Two parallel switched bands are applied on the scratched line and the heating process starts. Heating time required is depending on the CRT size. The funnel glass and the shadow mask are removed and the panel glass is placed in the cleaning station for removal of the powder.



The manually operated system is a simple version, it can process CRTs ranging from 8" to 40". The operator measures, scratches and applies the hot band manually.



TECHNICAL DATA

CAPACITY

Automatic: up to 35 pcs/hour,
depending on tube size
Manually operated: 12-40 pcs/hour,
depending on tube size

CRT SIZE

Automatic: 12-32 inches
Manually operated: 8-40 inches

MATERIAL FRACTIONS

- Funnel glass
- Panel glass
- Shadow mask
- Rare earth powders and glass dust

MATERIAL COLLECTION

- Rare earth powder
in industrial vacuum cleaner.
- Other material in boxes/containers
(customer specs)

OPERATIONAL TEMPERATURE RANGE

+ 10°C - + 50°C

ESTIMATED UTILITY

Electrical connection: 400V 50Hz
Electrical consumption: approx. 10 kW
Compressed air: 400l/min,
supply pressure: 6 bar, dry

OPTIONS

- Implosion protection removal station
with or without unwinding fixture
- Cleaning station including
industrial vacuum cleaner
- Dismantling table
- Conveyors

We reserve the right to change technical data without notice.



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